

geïllustreerd
WOORDEN
BOEK
machinebouw

engels

duits

frans

nederlands

russisch

ILLUSTRATED DICTIONARY OF
MECHANICAL ENGINEERING

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المنارة للاستشارات



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ILLUSTRATED DICTIONARY
OF
MECHANICAL ENGINEERING

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RUSSIAN

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FOREWORD

This Dictionary is designed for people who have just started studying mechanical engineering terms in a foreign language, particularly for those who have little or no knowledge of either the terms or their meaning. The latter category of readers may find it useful, in addition to the translation of the term, to have an explanation of its meaning as well. In the Dictionary, such explanation is provided by means of internationally accepted symbols, formulas, charts, diagrams, plans and drawings. In this way, illustrations serve as a universal intermediary between languages. As a rule, the illustration for a term consists of that graphic representation which is most frequently used in explaining the term concerned in instructional and technical literature (conventional graphic representation of the term).

Apart from being informative, the illustrations also help remember the terms themselves. In the Dictionary, therefore, illustrations are provided even for those terms whose meaning would be understood without the aid of graphic symbols. At the same time, the author had to leave out many terms – even important ones – which do not lend themselves to illustration.

The terms are grouped according to subject. This makes it possible to study the terminology pertaining to the subjects which interest the user most. This should also help speed up the assimilation of the terms, since the student will be able to remember a group of terms pertaining to a common subject.

When translating texts from one language into another, one is helped by the alphabetical indexes given at the end of the Dictionary.

We welcome any suggestions and comments on the contents of the Dictionary. They should be forwarded to Kluwer Technische Boeken B.V. Postbus 23, 7400 GA Deventer, or to 103012 Москва, Старопанский пер., д. 1/5, издательство «Русский язык».

V. Schwartz

HOW TO USE THE DICTIONARY

The terms in the Dictionary are grouped according to subject.

There are 14 sections corresponding to the main branches of mechanical engineering. Within each section the terms are arranged in accordance

with the principles accepted in textbooks on the subject. The key language is English. The English term is followed by its German, French, Dutch and Russian equivalents, and by an illustration. In most cases, this is a simplified drawing of the object or a diagram of the process. Sometimes, other self-explanatory devices are used – mathematical signs, chemical formulas or examples of the chemical composition of alloys.

The terms are numbered. The numbers serve, first, to relate the term to the drawing, and, second, they facilitate the finding of the necessary translation of a term via the alphabetical index. Each number consists of two parts separated by a full stop, e. g. 12.5. The part preceding the full stop (12 in our example) stands for the number of the section in the table of contents, and the part that follows (5) is the number of the term within the section.

In some cases, the term is followed by a letter placed in round brackets. This indicates that the corresponding component of the object covered by an illustration is designated by this letter, and not by a number.

The user will often find that instead of an illustration under the last equivalent of a term there is an arrowhead reference to the number of another term. This indicates that the illustration will be found under the other term. The term „welding” (9.1), for example, is followed by the cross-reference (→ 9.2, 9.6), which means that the illustration for it is to be found under the terms „fusion welding” (9.2) or „pressure welding” (9.6).

Designation of languages:

e – English
d – German
f – French
nl – Dutch
r – Russian

Designation of the gender and number of nouns:

f – feminine
m – masculine
n – neuter
f(m) – common gender (in Dutch terms)
pl – plural

Composite terms contained in round or square brackets should be read as follows:

(linear) momentum = linear momentum *or* momentum
normal [direct] stress = normal stress *or* direct stress

Specification of the term concerned is given in italics in round brackets.

The Appendix to the Dictionary contains alphabetical indices of the English, German, French, Dutch and Russian terms.

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V. Schwarz

VORWORT

Das vorliegende Wörterbuch ist für Benutzer bestimmt, die erst damit beginnen, sich die Terminologie des Maschinenbaus in Fremdsprachen anzueignen, und wendet sich in erster Linie an diejenigen, die nicht nur mit der Termini selbst, sondern auch ihrem Sinn nicht (bzw. nicht genügend) vertraut sind. Neben der Übersetzung in eine andere Sprache kann ihnen die Bedeutungserläuterung des Terminus das Verständnis erleichtern. In unserem Wörterbuch werden die Erläuterungen in einer allgemeinverständlichen graphischen Sprache – in international üblichen Symbolen, Formeln, Diagrammen, Schemata, Zeichnungen und Bildern – gegeben. Die Illustration erfüllt also die Funktion eines universellen Mittlers zwischen verschiedenen Sprachen. In der Regel wird die graphische Darstellung gewählt, die für die Erläuterung des jeweiligen Terminus in der Unterrichts- und technischen Literatur am meisten verbreitet ist („der übliche graphische Begleiter des Terminus“).

Neben ihrem Informationswert trägt die Illustration auch dazu bei, dass das Wortgut besser im Gedächtnis haftet. Aus diesem Grunde sind auch solche Termini illustriert, deren Bedeutung ohne zusätzliche Erläuterungen erschlossen werden könnte. Dagegen wurde auf viele, auch wichtige Termini verzichtet, die sich nur schwer veranschaulichen lassen.

Das Wörterbuch ist thematisch angelegt. Der Benutzer kann somit die Terminologie zu den einzelnen Themen erlernen, für die er sich gerade interessiert. Der Lernprozess gewinnt dadurch an Intensität, da man sich gleichzeitig eine ganze Gruppe von Termini aneignet, die miteinander durch gemeinsamen Inhalt logisch verbunden sind.

Bei der Übersetzung können alphabetische Register benutzt werden, die das Buch ergänzen. Für alle Vorschläge und kritische Bemerkungen zu unserem Wörterbuch bedanken wir uns im Voraus und bitten, sie an die folgende Adresse zu richten:

HINWEISE FÜR DIE BENUTZUNG

Das Wörterbuch ist thematisch angelegt. Es gliedert sich in 14 Abschnitte, die den wichtigsten Teilgebieten des Maschinenbaus entsprechen. Innerhalb der Abschnitte wurden die Termini in der typischen Reihenfolge angeordnet, wie sie in den einschlägigen Lehrbüchern vermittelt werden. Als Ausgangssprache dient Englisch. Dem englischen Terminus folgt sein deutsches, französisches, niederländisches und russisches Äquivalent, danach die Illustration. Als Illustration dienen in der Regel die vereinfachte Zeichnung des Gegenstandes oder das Schema des Prozesses. In manchen Fällen verwendet man auch andere allgemeinverständliche Mittel der Bedeutungserläuterung: eine mathematische bzw. chemische Formel, ein Beispiel für die chemische Zusammensetzung der Legierung usw.

Die Termini sind mit Nummern versehen. Erstens verbindet die Numerierung den Terminus mit der Zeichnung, wo das entsprechende Element mit der gleichen Nummer gekennzeichnet ist, und zweitens ermöglicht sie das Auffinden der Übersetzungen des Terminus in den alphabetischen Registern. Die Nummer des Terminus setzt sich aus zwei Zahlen zusammen (z. B.: 12.5). Die Zahl vor dem Punkt (12) bezeichnet die laufende Nummer des Abschnitts laut Inhaltsverzeichnis, die Zahl nach dem Punkt (5) die laufende Nummer des Terminus innerhalb dieses Abschnitts.

Hinter manchen Termini steht in Klammern ein Buchstabe. Er besagt, dass das entsprechende Element in der Illustration nicht unter der Nummer des Terminus, sondern unter diesem Buchstaben findet.

Statt einer Illustration findet man manchmal beim letzten Äquivalent des Terminus eine Verweisung (einen Pfeil) auf die Nummer eines anderen Terminus. Hier ist die Illustration zu diesem Terminus unter einem anderen Terminus zu suchen. Z. B., steht hinter dem Wort „Schweissen“ (Nummer 9.1) die Verweisung (→9.2, 9.6). Der Terminus „Schweissen“ wird also durch die Illustrationen veranschaulicht, die den Termini „Schmelzschweissen“ (9.2) und „Druckschweissen“ (9.6) beigegeben sind.

Sprachen:
e – Englisch
d – Deutsch
f – Französisch
nl – Niederländisch
r – Russisch

Geschlecht und Mehrzahl der Substantive:
f – weiblich
m – männlich
n – sächlich
f(m) – allgemeines Geschlecht (bei niederländischen Termini)
pl – Mehrzahl

Zusammengesetzte Termini mit runden bzw. eckigen Klammern sind wie folgt zu lesen:
(linear) momentum = linear momentum *oder* momentum
normal [direct] stress = normal stress *oder* direct stress

Erläuterungen zu den Termini sind in Kursivschrift in runden Klammern gedruckt.

Im Anhang zum Wörterbuch befinden sich alphabetische Register der Termini in Englisch, Deutsch, Französisch, Niederländisch und Russisch.

PREFACE

Le présent dictionnaire s'adresse à tous ceux qui commencent à étudier en langues étrangères les termes relevant des constructions mécaniques et qui n'en connaissent souvent même pas le sens. Afin de mieux aider ce lecteur non initié les termes n'y sont pas simplement traduits mais commentés. Les commentaires contenus dans le Dictionnaire sont présentés sous la forme de graphiques, de symboles, de schémas, de formules, de dessins techniques et d'images couramment employés dans la pratique internationale. Ainsi les illustrations jouent le rôle d'une langue véhiculaire universelle. Comme illustrations on choisit généralement les expressions graphiques les plus répandues dans la littérature technique et pédagogique pour l'explication du terme donné („accompagnement graphique du terme”).

Outre leur aspect informatif les illustrations aident à mémoriser les connaissances. C'est pourquoi dans le Dictionnaire les illustrations accompagnent tous les termes même ceux dont le sens est clair sans commentaires. Par contre, il a été décidé de ne pas inclure dans l'ouvrage les termes difficiles à illustrer indépendamment de leur importance.

Le Dictionnaire est conçu d'après le principe thématique. Cela permet d'étudier la terminologie à l'intérieur de chaque thème choisi par le lecteur en conformité avec ses intérêts professionnels. Le processus d'étude est facilité par la présentation de tout un groupe de termes dont le contenu est logiquement lié.

Pour la traduction à partir d'une langue dans une autre le lecteur trouve à la fin de l'ouvrage des index alphabétiques appropriés.

L'auteur sera reconnaissant pour toutes les remarques et critiques faites au sujet de son ouvrage et envoyées à l'adresse: Kluwer Technische Boeken B.V. Postbus 23, 7400 GA Deventer ou 103012, Москва, Старопанский пер., д. 1/5, издательство «Русский язык».

V. Chvarts

LE BON USAGE DU DICTIONNAIRE

Conçu d'après le principe thématique le présent Dictionnaire est réparti en quatorze chapitres relevant des principaux domaines des constructions mécaniques. A l'intérieur des chapitres les termes sont disposés dans l'ordre de présentation des matières correspondantes dans des manuels. L'anglais est la langue de base. Le terme anglais est suivi de son équivalent allemand, français, néerlandais et russe ainsi que d'une illustration appropriée. Celle-ci est le plus souvent un dessin technique (objet) ou un schéma (processus). Cependant, d'autres types de commentaires y sont également possibles: formules mathématiques ou chimiques, exemples de la composition chimique des alliages, etc.

Les termes étant numérotés, il est facile de trouver les dessins correspondants portant le même numéro ainsi que leur équivalent dans une autre langue en se servant de l'index alphabétique. Le numéro de chaque terme comporte deux nombres (par exemple, 12.5), dont le premier avant le point (12) signifie le numéro d'ordre du chapitre dans la table des matières et le second, après le point (5), celui du terme à l'intérieur du chapitre.

Parfois le terme est accompagné d'une expression littérale entre parenthèses. Cela veut dire que sur l'illustration accompagnant le terme donne l'élément en question est marqué par cette expression littérale et non par le numéro du terme.

Il arrive souvent qu'au lieu d'une illustration on trouve sous le dernier équivalent d'un terme

une flèche portant le numéro d'un autre terme. Cela signifie que l'illustration du terme en question est jointé a un autre terme, par exemple, après le terme „soudage” (numéro 9.1) vient le renvoi (9.2, 9.6). Il est donc clair que le terme „soudage” peut être commenté par les illustrations accompagnant les termes „soudage par fusion” (9.2) et „soudage par pression” (9.6).

Les langues:

e – anglais
d – allemand
f – français
nl – néerlandais
r – russe

Le genre et le pluriel des substantifs:

f – féminin
m – masculin
n – neutre
f(m) – genre commun (en neerlandais)
pl – pluriel

Lecture des termes composés mis entre parenthèses ou entre crochets:

(linear) momentum = linear momentum *ou* momentum

normal [direct] stress = normal stress *ou* direct stress

Les explications pour les termes mises en italique sont entre parenthèses.

L'annexe du Dictionnaire comporte les index alphabétiques des termes en anglais, allemand, français, néerlandais et russe.

VOORWOORD

Dit woordenboek is bestemd voor al diegenen, die op enigerlei wijze in aanraking komen met de terminologie in een der moderne talen op het gebied der machinebouw, hetzij tijdens bestudering van buitenlandse literatuur, hetzij tijdens vertaalwerk vanuit het Nederlands.

Evenals in het alledaagse spraakgebruik, zijn ook technische termen zelden voor slechts één uitleg vatbaar. Welke betekenis de betrokken term moet worden toegekend, volgt in de tekst meestal wel uit het verband, waarin de term is geplaatst. Een groot bezwaar van woordenboeken is echter, dat dit verband, welhaast per definitie, ontbreekt. Dit bezwaar kan ondervangen worden, door alle

termen te voorzien van omschrijvingen. Voor het onderhavige woordenboek echter hebben de samenstellers gekozen voor een combinatie van twee andere methoden.

In de eerste plaats zijn de benoemde begrippen naar onderwerp gerangschikt in veertien hoofdstukken. Ten tweede wordt bij praktisch iedere term verwezen naar een illustratie, waarin het benoemde begrip is afgebeeld. Bij de selectie van deze illustraties heeft de wens voorop gestaan het woordenboek zoveel mogelijk te laten aansluiten bij de gangbare literatuur en is er derhalve gebruik van die schematische voorstellingen, die men het meest in deze literatuur aantreft.

De systematische indeling biedt overigens nog een voordeel, dat de efficiency van het gebruik ten goede komt, omdat immers alle termen met betrekking tot één bepaald onderwerp bij elkaar gegroepeerd zijn, zodat het de gebruiker mogelijk is om de betrokken termen met elkaar te vergelijken, en daaruit zijn keuze te doen, of zondig, met behulp van het aangeboden materiaal, zijn eigen termen samen te stellen. Teneinde de onmiskenbare voordelen van de alfabetische rangschikking niet te verliezen, is er achterin het woordenboek voor iedere taal tevens een alfabetische index opgenomen.

V. Schwartz

TEN GELEIDE

Het woordenboek is systematisch ingericht en bestaat uit veertien hoofdstukken. Ieder hoofdstuk heeft betrekking op een der onderwerpen van de machinebouw. De meeste termen zijn gerangschikt rond een schematische tekening van het onderwerp, dan wel een grafische voorstelling van het benoemde proces. In voorkomende gevallen is gebruik gemaakt van wiskundige en scheikundige formules.

De termen zijn voorzien van een nummer. Dit nummer dient er ten eerste toe om de term met de tekening in verband te brengen, waar het respectievelijke element hetzelfde nummer draagt, en ten tweede om de vertaling van de term in een andere taal te vinden met behulp van het alfabetisch register. Het nummer van de term bestaat uit twee getallen (bv. 12.5). Het getal voor de punt (12) geeft het volgnummer van het betreffende hoofdstuk aan, terwijl het getal achter de punt (5) het volgnummer van de term binnen dit hoofdstuk aangeeft.

In voorkomende gevallen wordt ook door middel van een letter verwezen naar het betrokken gedeelte van de illustratie dat dan met deze selfde letter gemerkt is.

Dikwijls staat onder het laatste equivalent van de term een verwijzingsteken (→) voorzien van het nummer van een andere term. Dit betekent, dat de illustratie tot de gegeven term bij deze andere term gezocht moet worden. Zo staat bijvoorbeeld achter de term „lassen“ (nummer 9.1) het verwijzingsteken (→ 9.2, 9.6). Dit betekent, dat als illustratie tot de term „lassen“ illustraties gebruikt kunnen worden, die geplaatst zijn achter de termen „smeltlassen“ (9.2) en „druklassen“ (9.6).

Taalaanduidingen:

- e – Engels
- d – Duits
- f – Frans
- nl – Nederlands
- r – Russisch

Aanduiding van geslacht en meervoud van zelfstandige naamwoorden:

- f – vrouwelijk
- m – mannelijk
- n – onzijdig
- f (m) – algemeen geslacht (bij Nederlandse termen)
- pl – meervoud

Het lezen van samengestelde termen, die gebruikt worden met ronde of vierkante haakjes:

(linear) momentum = linear momentum, momentum,
normal [direct] stress = normal stress, direct stress.

Verklarende tekst is tussen ronde haakjes, en cursief gezet.

In de bijlage tot het woordenboek zijn alfabetische registers gegeven in het Engels, Duits, Frans, Nederlands en Russisch.

ПРЕДИСЛОВИЕ

Настоящий Словарь предназначен для лиц, начинающих изучать терминологию машиностроения на иностранном языке, и прежде всего для тех из них, кому неизвестны (или недостаточно известны) не только сами тер-

мины, но и их смысл. Таким читателям кроме перевода термина на другой язык может оказать определенную помощь пояснение смысла термина. В предлагаемом Словаре пояснения сделаны на общепонятном графическом языке в виде принятых в международной практике символов, формул, графиков, схем, чертежей, рисунков. Таким образом иллюстрация выполняет роль универсального посредника между разными языками. Как правило, в качестве иллюстрации выбрано то графическое изображение, которое наиболее распространено в учебной и технической литературе для пояснения данного термина („дривычный графический спутник термина“).

Помимо информативности иллюстрация еще и помогает запоминанию иллюстрируемого материала. Поэтому в Словаре снабжены иллюстрациями и те термины, смысл которых был бы понятен и без разъяснения. Вместе с тем пришлось отказаться от включения в словарь многих, даже важных, терминов, которые не поддаются иллюстрированию.

Словарь построен по тематическому принципу. Это позволяет изучать терминологию по отдельным темам, представляющим наибольший интерес для читателя. Процесс изучения при этом становится более интенсивным, поскольку запоминается сразу целая группа терминов, логически связанных общим содержанием.

Для перевода с одного языка на другой служат алфавитные указатели, помещенные в конце книги. Все пожелания и критические замечания по содержанию Словаря, направленные по адресу: Kluwer Technische Boeken B.V. Postbus 23, 7400 GA Deventer или 103012, Москва, Старопанский пер., д. 1/5, издательство «Русский язык», будут приняты с благодарностью.

B. Шварц

О ПОЛЬЗОВАНИИ СЛОВАРЕМ

Словарь построен по тематическому принципу. Он состоит из 14 разделов, соответствующих основным разделам машиностроения. Расположение терминов внутри разделов соответствует типичному порядку изложения информации в учебниках по данной теме. Исходным языком является английский. После английского термина следуют немецкий, французский, нидерландский, русский эквиваленты термина, а затем иллюстрация. Обычно иллюстрацией служит упрощенный чертеж предмета или схема процесса. Однако, иногда используются и другие общепонятные способы пояснения: математическая или химическая формула, пример химического состава сплава.

Термины пронумерованы. Эта нумерация служит, во-первых, для связи термина с рисунком, где соответствующий элемент отмечен тем же номером, и, во-вторых, для поиска перевода термина на другой язык с помощью алфавитного указателя. Номер термина состоит из двух чисел (например, 12.5). Первое число до точки (12) означает порядковый номер раздела по оглавлению, число после точки (5) – порядковый номер термина внутри этого раздела.

Иногда после термина в скобках указано буквенное обозначение. Это значит, что соответствующий элемент на иллюстрации к термину обозначен не номером термина, а этим буквенным обозначением.

Часто вместо иллюстрации под последним эквивалентом термина находится отсылка (стрелка) с номером другого термина. Это

значит, что иллюстрацию к данному термину следует искать под другим термином. Например, после термина „сварка” (номер 9.1) находится отсылка (→9.2, 9,6). Это означает, что иллюстрацией к термину „сварка” могут служить иллюстрации, расположенные после терминов „сварка плавлением” (9.2) и „сварка давлением” (9.6).

Обозначение языков:

e – английский
d – немецкий
f – французский
nl – нидерландский
r – русский

Обозначение рода и множественного числа существительных:

f – женский род
m – мужской род
n – средний род
f(m) – общий род (у нидерландских терминов)
pl – множественное число

Чтение составных терминов, употребляемых с круглыми или квадратными скобками:

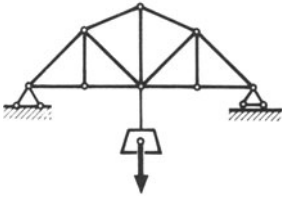
(linear) momentum = linear momentum, momentum
normal [direct] stress = normal stress, direct stress

Пояснения к терминам даны в круглых скобках курсивом.

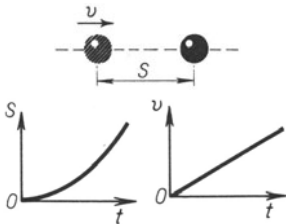
В приложении к Словарю даны алфавитные указатели терминов на английском, немецком, французском, нидерландском и русском языках.

**1. ENGINEERING MECHANICS
 TECHNISCHE MECHANIK
 MÉCANIQUE TECHNIQUE
 TECHNISCHE MECHANICA
 ТЕХНИЧЕСКАЯ МЕХАНИКА**

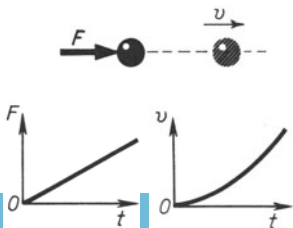
- 1.1 e statics
 d Statik f
 f statique f
 nl statica f, evenwichtsleer f(m)
 r статика f



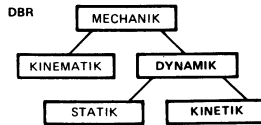
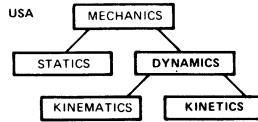
- 1.2 e kinematics
 d Kinematik f
 f cinématique f
 nl kinematica f, bewegingsleer f(m)
 r кинематика f



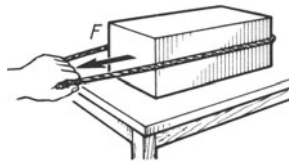
- 1.3 e dynamics
 d Dynamik f
 f dynamique f
 nl dynamica f
 r динамика f



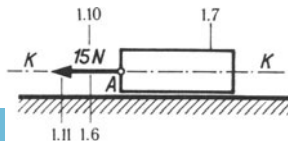
- 1.4 e kinetics
 d Kinetik f
 f cinétique f
 nl kinetica f, bewegingsleer f(m)
 r кинетика f



- 1.5 e force
 d Kraft f
 f force f
 nl kracht f(m)
 r сила f



- 1.6 e force vector
 d Kraftvektor m
 f vecteur m de la force
 nl krachtvector m
 r вектор m силы



- 1.7 e solid (body)
 d fester Korper m
 f corps m solide
 nl vast lichaam n
 r твёрдое тело n
 (→ 1.6)

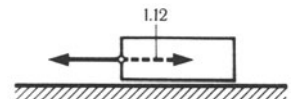
- 1.8 e point of application (A)
 d Angriffspunkt m (A)
 f point m d'application (A)
 nl aangrijpingspunt m (A)
 r точка f приложения (A)
 (→ 1.6)

- 1.9 e line of action (KK)
 d Wirkungslinie f (KK)
 f ligne f d'action (KK)
 nl werklijn f (m) (KK)
 r линия f действия (KK)
 (→ 1.6)

- 1.10 e magnitude
 d Betrag m
 f module m d'un vecteur
 nl grootte f
 r модуль m (вектора)
 (→ 1.6)

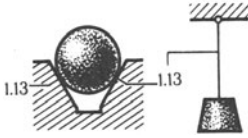
- 1.11 e sense
 d Richtungssinn m
 f sens m
 nl richting f
 r направление n
 (→ 1.6)

- 1.12 e reactive force, reaction
 d Reaktionskraft f
 f réaction f, force f de réaction
 nl reactiekracht f(m), tegenwerkende kracht
 r сила f реакции, реакция f

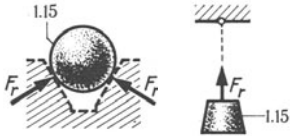


1.13

- 1.13 e constraint
 d Bindung f, Stützung f
 f liaison f
 nl binding f
 r связь f



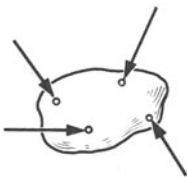
- 1.14 e free-body diagram
 d zeichnerische Darstellung f
 eines freigemachten Körpers
 f diagramme m des forces du
 corps libre
 nl krachtendiagram n voor een
 vrij lichaam
 r силовая схема f свобод-
 ного тела



- 1.15 e free body
 d freigemachter Körper m
 f corps m libre
 nl vrij lichaam n
 r свободное тело n
 (→ 1.14)

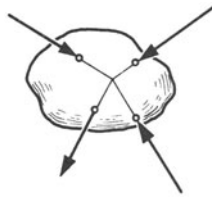
- 1.16 e support reaction (F_r)
 d Auflagerreaktion f (F_r)
 f réaction f d'appui (F_r)
 nl steunpuntsreactie f, opleg-
 reactie (F_r)
 r опорная реакция f (F_r)
 (→ 1.14)

- 1.17 e force system
 d Kräftesystem n
 f système m des forces
 nl stelsel n van krachten
 r система f сил

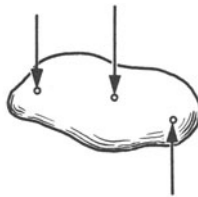


- 1.18 e concurrent force system
 d zentrales Kräftesystem n

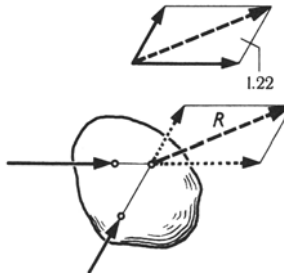
- f système m de forces concou-
 rantes
 nl stelsel n van converge-
 rende krachten
 r система f сходящихся сил



- 1.19 e parallel force system
 d paralleles Kräftesystem n
 f système m de forces parallèles
 nl stelsel n van evenwijdige
 krachten
 r система f параллельных
 сил



- 1.20 e composition of forces
 d Zusammensetzen n von
 Kräften
 f composition f des forces
 nl samenstelling f van krachten
 r сложение n сил

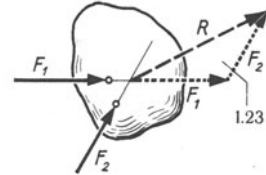


- 1.21 e resultant (R)
 d Resultierende f (R)
 f résultante f (R)
 nl resultante f(m) (R)
 r равнодействующая f (R)
 (→ 1.20)

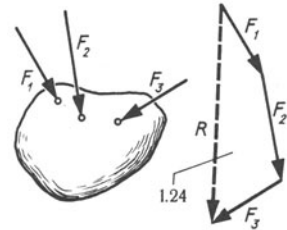
- 1.22 e parallelogram of forces
 d Kräfteparallelogramm n
 f parallélogramme m des for-
 ces

- nl parallelogram n van krach-
 ten
 r параллелограмм m сил
 (→ 1.20)

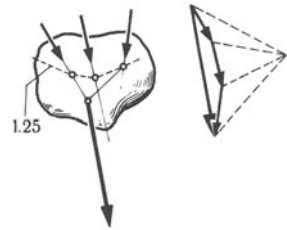
- 1.23 e triangle of forces
 d Kräftdreieck n
 f triangle m des forces
 nl krachtendriehoek m
 r силовой треугольник m,
 треугольник сил



- 1.24 e force polygon
 d Krafteck n
 f polygone m des forces
 nl krachteneelhoek m
 r силовой многоугольник
 m, многоугольник сил

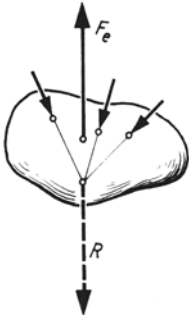


- 1.25 e string [funicular] polygon
 d Seileck n
 f polygone m funiculaire
 nl kabelveelhoek m
 r верёвочный многоуголь-
 ник m



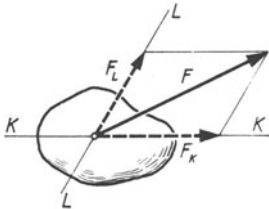
- 1.26 e equilibrium of forces
 d Gleichgewicht n von Kräf-
 ten
 f équilibre m des forces

nl evenwicht n van krachten
r равновесие n сил



1.27 e equilibrant force (F_e)
d Gleichgewichtskraft f (F_e)
f force f équilibrée (F_e)
nl evenwichtbiedende [balancerende] kracht f (m) (F_e)
r уравнивающая сила f (F_e)
(→ 1.26)

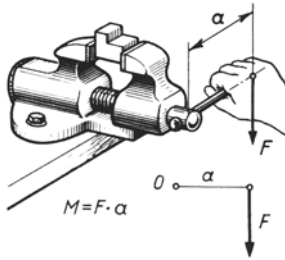
1.28 e resolution of a force
d Zerlegen n einer Kraft
f décomposition f de la force
nl ontbinding f van een kracht
r разложение m силы



1.29 e component of force (F_K, F_L)
d Teilkraft f (F_K, F_L)
f composante f de la force (F_K, F_L)
nl component m van een kracht (F_K, F_L)
r составляющая сила f (F_K, F_L)
(→ 1.28)

1.30 e moment of force (M)
d (statisches) Moment n der Kraft (M)
f moment m d'une force (M)

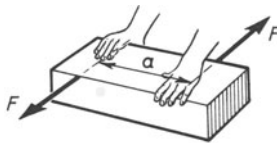
nl moment n van een kracht (M)
r момент m силы (M)



1.31 e arm of a force (a)
d Hebelarm m (a)
f bras m d'une force (a)
nl hefboomsarm m (a) (van een kracht)
r плечо n силы (a)
(→ 1.30)

1.32 e moment center (O)
d Bezugspunkt m (O)
f centre m du moment (O)
nl aangrijpingspunt f(m) van evenwijdige krachten (O)
r центр m момента (O)
(→ 1.30)

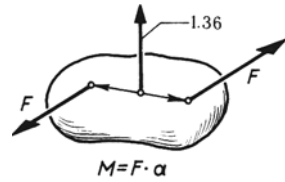
1.33 e couple
d Kräftepaar n
f couple m
nl koppel n
r пара f сил



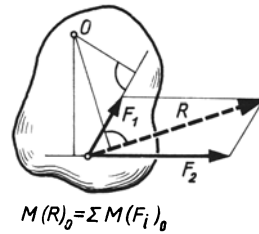
1.34 e arm of a couple (a)
d Abstand m der Kräfte eines Kräftepaars (a)
f bras m de levier du couple (a)
nl koppelarm m
r плечо n пары (a)
(→ 1.33)

1.35 e moment of a couple
d (statisches) Moment n eines Kräftepaars
f moment m d'un couple
nl moment n van een koppel
r момент m пары
 $M = F \cdot a$
(→ 1.33)

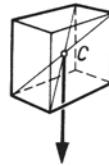
1.36 e moment vector
d Momentvektor m
f moment-vecteur m
nl momentvector m
r вектор m момента



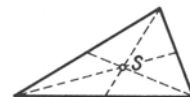
1.37 e Varignon's theorem
d Momentensatz m
f théorème m de Varignon
nl momentstelling f
r теорема f Вариньона



1.38 e center of gravity (C)
d Schwerpunkt m (C)
f centre m de gravité (C)
nl zwaartepunt n (C)
r центр m тяжести (C)

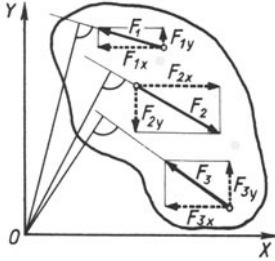


1.39 e centroid of area (S)
d Flächenschwerpunkt m (S)
f centre m de gravité d'aire (S)
nl zwaartepunt f(m) (S)
r центр m тяжести площади (S)



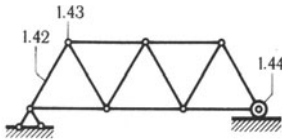
1.40

- 1.40 e equation of equilibrium
 d Gleichgewichtsbedingung f
 f équation f d'équilibre
 nl evenwichtsvergelijking f
 r уравнение n равновесия



$\Sigma F_{ix}=0; \Sigma F_{iy}=0, \Sigma M(F_{i0})=0$

- 1.41 e plane truss
 d ebenes Fachwerk n
 f ferme f plane
 nl vlak vakwerk n
 r плоская ферма f



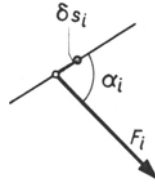
- 1.42 e bar, truss member
 d Stab m
 f barre f
 nl staaf f(m)
 r стержень m
 (→ 1.41)

- 1.43 e hinge
 d Gelenk n
 f charnière f
 nl scharnier n
 r шарнир m
 (→ 1.41)

- 1.44 e roller
 d Rolle f
 f rouleau m
 nl rol f(m)
 r каток m
 (→ 1.41)

- 1.45 e virtual displacement (δS_i)
 d virtuelle Verrückung f
 (δS_i)
 f déplacement m virtuel
 (δS_i)

- nl virtuele verplaatsing f (δS_i)
 r возможное перемещение n (δS_i)

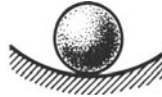


$\Sigma F_i \cdot \cos \alpha_i \cdot \delta s_i = 0$

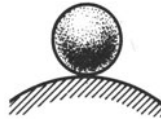
- 1.46 e principle of virtual displacements
 d Prinzip n der virtuellen Verrückungen

- f principe m des déplacements virtuels
 nl beginsel n der virtuele verplaatsingen
 r принцип m возможных перемещений
 (→ 1.45)

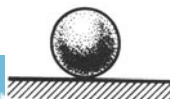
- 1.47 e stable equilibrium
 d stabiles Gleichgewicht n
 f équilibre m stable
 nl stabiel evenwicht n
 r устойчивое равновесие n



- 1.48 e unstable equilibrium
 d labiles Gleichgewicht n
 f équilibre m instable
 nl labiel evenwicht n
 r неустойчивое равновесие n



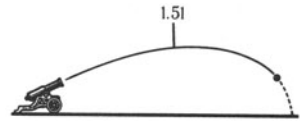
- 1.49 e indifferent equilibrium
 d indifferentes Gleichgewicht n
 f équilibre m indifférent
 nl indifferent evenwicht n
 r безразличное равновесие n



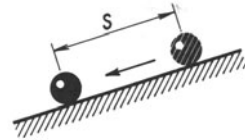
- 1.50 e motion
 d Bewegung f
 f mouvement m (mécanique)
 nl beweging f
 r (механическое) движение n



- 1.51 e path
 d Bahn f
 f trajectoire f
 nl (kogel)baan f(m)
 r траектория f, путь m



- 1.52 e displacement (s)
 d Weg m (s)
 f distance f (s)
 nl verplaatsing f (s)
 r путь m, перемещение n (s)

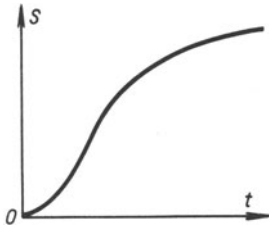


- 1.53 e time
 d Zeit f
 f temps m
 nl tijd f
 r время n



- 1.54 e displacement-time diagram
 d Weg-Zeit-Diagramm n
 f diagramme m distance-temps

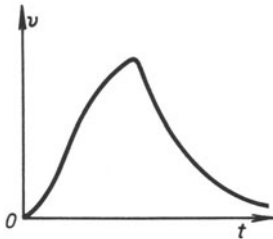
nl weg-tijddiagram n
r график м "путь-время"



1.55 e velocity
d Geschwindigkeit f
f vitesse f
nl snelheid f
r скорость f (точки)

$$v = \frac{ds}{dt}$$

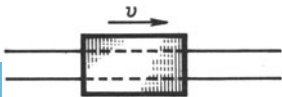
1.56 e velocity-time diagram
d Geschwindigkeit-Zeit-Diagramm n
f diagramme m vitesse-temps
nl v-t-diagram n, snelheid-tijddiagram
r график м "скорость - время"



1.57 e acceleration
d Beschleunigung f
f accélération f
nl versnelling f
r ускорение n

$$a = \frac{dv}{dt}$$

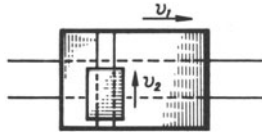
1.58 e rectilinear motion
d geradlinige Bewegung f
f mouvement m rectiligne
nl rechtlijnige beweging f
r прямолинейное движение n



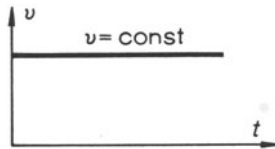
1.59 e curvilinear motion
d krummlinige Bewegung f
f mouvement m curviligne
nl kromlijnige beweging f
r криволинейное движение n



1.60 e relative motion
d Relativbewegung f
f mouvement m relatif
nl relatieve beweging f
r относительное движение n



1.61 e uniform motion
d gleichförmige Bewegung f
f mouvement m uniforme
nl eenparige beweging f
r равномерное движение n

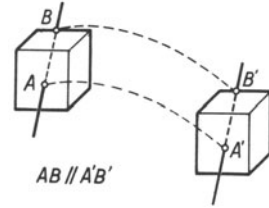


1.62 e uniformly accelerated motion
d gleichförmig beschleunigte Bewegung f
f mouvement m uniformément accéléré
nl eenparig versnelde beweging f
r равномерно ускоренное движение n

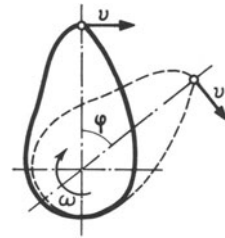


1.63 e translational motion, translation
d Translation f

f mouvement m de translation
nl translatie f
r поступательное движение n



1.64 e rotational motion, rotation
d Rotation f
f mouvement m rotatif, rotation f
nl rotatie f, draaiing f
r вращательное движение n, вращение n



1.65 e angular displacement (φ)
d Drehwinkel m (φ)
f déplacement m angulaire, angle m de rotation (φ)
nl rotatiehoek m (φ)
r угловое перемещение n, угол м поворота (φ) (→ 1.64)

1.66 e angular velocity
d Winkelgeschwindigkeit f
f vitesse f angulaire
nl hoeksnelheid f
r угловая скорость f

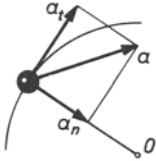
$$\omega = \frac{d\varphi}{dt}$$

1.67 e angular acceleration
d Winkelbeschleunigung f
f accélération f angulaire
nl hoekversnelling f
r угловое ускорение n

$$\alpha = \frac{d\omega}{dt}$$

1.68

- 1.68 e tangential acceleration (a_t)
 d Tangentialbeschleunigung
 f Bahnbeschleunigung (a_t)
 f accélération f tangentielle (a_t)
 nl tangentielle versnelling f (a_t)
 r тангенциальное ускорение n (a_t)



- 1.69 e normal acceleration (a_n)
 d Normalbeschleunigung f (a_n)
 f accélération f normale (a_n)
 nl normale versnelling f (a_n)
 r нормальное ускорение n (a_n)
 (→ 1.68)

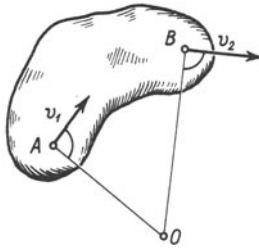
- 1.70 e Coriolis acceleration (a_c)
 d Coriolisbeschleunigung f (a_c)
 f accélération f de Coriolis (a_c)
 nl coriolisversnelling f (a_c)
 r кориолисово [переносное] ускорение n (a_c)



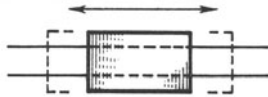
$$a_c = 2\omega \cdot v_r \cdot \sin(\omega, v_r)$$

- 1.71 e instantaneous velocity center (O)
 d Geschwindigkeitspol m (O)
 f centre m des vitesses instantané (O)
 nl ogenblikspool f (m), momentaan draaipunt n (O)

- r мгновенный центр скоростей (O)



- 1.72 e reciprocating motion
 d hin- und hergehende Bewegung f
 f mouvement m alternatif
 nl heen- en weergaande beweging f
 r возвратно-поступательное движение n



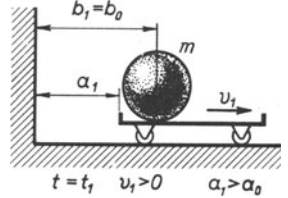
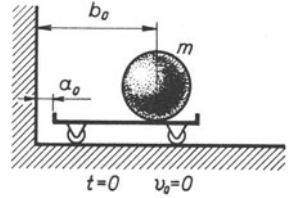
- 1.73 e free fall (of a body)
 d freier Fall m (des Körpers)
 f chute f libre (de corps)
 nl vrije val m (van een lichaam)
 r свободное падение n (тела)



- 1.74 e Newton's law of motion
 d Newtonsches Grundgesetz m
 f loi f de Newton
 nl wet f(m) van Newton
 r закон m Ньютона

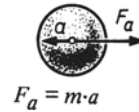
- 1.75 e inertia
 d Trägheit f
 f inertie f

- nl traagheid f
 r инерция f, инертность f



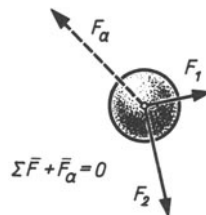
- 1.76 e mass (m)
 d Masse f (m)
 f masse f (m)
 nl massa f(m) (m)
 r масса f (m)
 (→ 1.75)

- 1.77 e inertia force
 d Trägheitskraft f
 f force f d'inertie
 nl traagheidskracht f(m)
 r сила f инерции



$$F_a = m \cdot a$$

- 1.78 e d'Alembert's principle
 d Prinzip n von d'Alembert
 f principe m d'Alembert
 nl beginsel n van d'Alembert
 r принцип m Даламбера

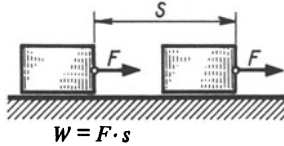


- 1.79 e impulse
 d Antrieb m, Impuls m
 f impulsion f d'une force
 nl impuls m
 r импульс m силы

$$S = \int_{t_0}^t F(t) dt$$

- 1.80 e (linear) momentum
 d Bewegungsgröße f, Impuls m
 f quantité f de mouvement
 nl hoeveelheid f van beweging
 r количество п движения
 $S = m \cdot v$

- 1.81 e work
 d Arbeit f
 f travail m
 nl arbeid m
 r работа f (силы)



- 1.82 e useful work (W_{us})
 d Nutzarbeit f (W_{us})
 f travail m utile (W_{us})
 nl nuttige arbeid m (W_{us})
 r полезная работа f (W_{us})
 (→ 1.84)

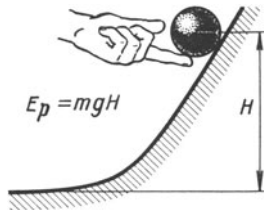
- 1.83 e expended work (W_{exp})
 d aufgewandte Arbeit f (W_{exp})
 f travail m dépensé (W_{exp})
 nl verbruikte arbeid m (W_{exp})
 r затраченная работа f (W_{exp})
 (→ 1.84)

- 1.84 e efficiency
 d Wirkungsgrad m
 f coefficient m d'efficacité, rendement m
 nl nutsfactor m, rendement n
 r коэффициент m полезно-го действия, КПД
 $\eta = \frac{W_{us}}{W_{exp}}$

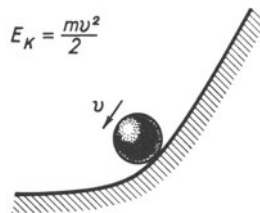
- 1.85 e power
 d Leistung f
 f puissance f
 nl vermogen n
 r мощность f (силы)
 $P = \frac{F \cdot s}{t}$

- 1.86 e energy
 d Energie f
 f énergie f
 nl energie f, arbeidsvermogen n
 r энергия f
 (→ 1.87, 1.88)

- 1.87 e potential energy (E_p)
 d potentiële Energie f (E_p)
 f énergie f potentielle (E_p)
 nl potentiële energie f (E_p)
 r потенциальная энергия f (E_p)

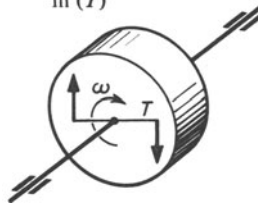


- 1.88 e kinetic energy (E_k)
 d kinetische Energie f (E_k)
 f énergie f cinétique (E_k)
 nl kinetische energie f (E_k)
 r кинетическая энергия f (E_k)



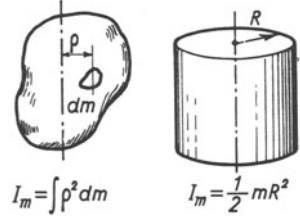
- 1.89 e principle of conservation of energy
 d Energieerhaltungssatz m
 f loi f de conservation de l'énergie
 nl wet f(m) van het behoud van arbeidsvermogen
 r закон m сохранения энергии

- 1.90 e torque (T)
 d Drehmoment n (T)
 f moment m de rotation (T)
 nl wringend moment n (T)
 r вращающий момент m (T)



- 1.91 e (mass) moment of inertia (I_m)
 d Massenträgheitsmoment n, Trägheitsmoment (I_m)

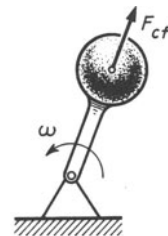
- f moment m d'inertie (I_m)
 nl massatraagheidsmoment n (I_m)
 r момент m инерции (I_m)



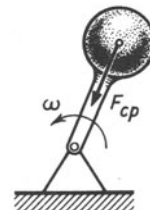
- 1.92 e radius of gyration
 d Trägheitsradius m
 f rayon m de giration
 nl traagheidsstraal m, f
 r радиус m инерции

$K_O = \frac{I_m}{m}$

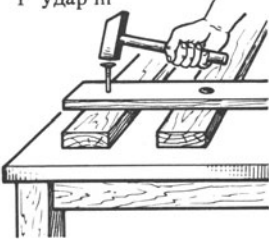
- 1.93 e centrifugal force (F_{cf})
 d Fliehkraft f, Zentrifugalkraft (F_{cf})
 f force f centrifuge (F_{cf})
 nl centrifugaalkracht f(m), middelpuntvliedende kracht (F_{cf})
 r центробежная сила f (F_{cf})



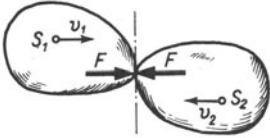
- 1.94 e centripetal force (F_{cp})
 d Zentripetalkraft f (F_{cp})
 f force f centripète (F_{cp})
 nl centripetaalkracht f(m), middelpuntzoekende kracht (F_{cp})
 r центростремительная сила f (F_{cp})



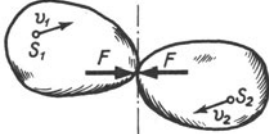
- 1.95 e impact
 d Stoss m
 f choc m
 nl stoot m
 r удар м



- 1.96 e direct impact
 d gerader Stoss m
 f choc m direct
 nl rechte stoot m
 r прямой удар м



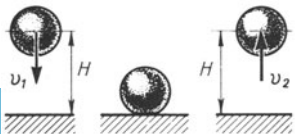
- 1.97 e oblique impact
 d schiefer Stoss m
 f choc m indirect
 nl scheve stoot m
 r косой удар м



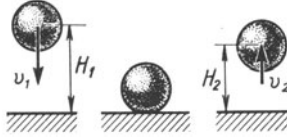
- 1.98 e central impact
 d zentraler Stoss m
 f choc m central
 nl centrale stoot m
 r центральный удар м



- 1.99 e elastic impact
 d elastischer Stoss m
 f choc m élastique
 nl elastische stoot m
 r абсолютно упругий удар м



- 1.100 e semielastic impact
 d wirklicher Stoss m
 f choc m inélastique
 nl inelastische stoot m
 r не вполне упругий удар м



- 1.101 e coefficient of restitution
 d Stoss-Zahl m
 f coefficient m de restitution
 nl restitutiecoëfficiënt m
 r коэффициент м восстановления

$$e = \frac{v_2}{v_1} \quad (\rightarrow 1.100)$$

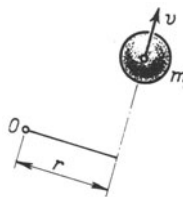
- 1.102 e principle of the conservation of linear momentum
 d Impulserhaltungssatz m
 f principe m de la conservation de la quantité du mouvement

- nl wet f(m) van het behoud van hoeveelheid f van beweging

- r закон м сохранения количества движения

$$\Sigma m_i v_i = const$$

- 1.103 e moment of momentum
 d Impulsmoment n, Drehimpuls m, Drall m
 f moment m des quantités de mouvement
 nl impulsmoment n
 r момент м количества движения



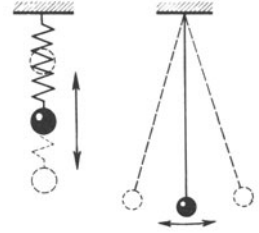
$$L_o = m \cdot v \cdot r$$

- 1.104 e oscillatory motion, oscillation
 d Schwingung f

- f mouvement m oscillatoire, oscillations f pl

- nl oscillatie f, trilling f, slingering f

- r колебательное движение n, колебания n pl



- 1.105 e oscillating system
 d Schwingungssystem n
 f système m oscillatoire
 nl oscillerend stelsel n

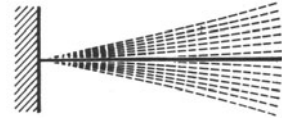
- r колебательная система f (→ 1.104)

- 1.106 e vibration
 d Vibration f, mechanische Schwingung(en) f (pl)

- f vibration f

- nl trilling f

- r вибрация f

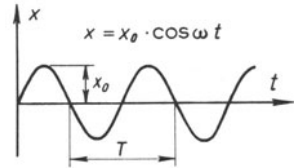


- 1.107 e harmonic vibration
 d harmonische Schwingung(en) f (pl)

- f oscillations f pl harmoniques

- nl harmonische trillingen f pl

- r гармонические колебания n pl



- 1.108 e amplitude (x_o)

- d Amplitude f (x_o)

- f amplitude f d'oscillations (x_o)

nl trillingsamplitude $f(x_0)$
 r амплитуда f колебаний (x_0)
 (→ 1.107)

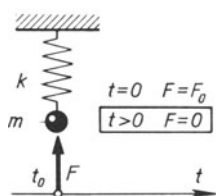
1.109 e circular frequency (ω)
 d Kreisfrequenz $f(\omega)$
 f fréquence f circulaire (ω)
 nl cirkelfrequentie $f(\omega)$
 r угловая частота $f(\omega)$
 (→ 1.107)

1.110 e period (of vibration) (T)
 d Periodendauer f , Periode f ,
 Schwingungsdauer $f(T)$
 f période f d'oscillation (T)
 nl periode $f(T)$
 r период m колебаний (T)
 (→ 1.107)

1.111 e frequency
 d Frequenz f , Schwingungszahl f
 f fréquence f d'oscillations
 nl frequentie f , trillingsgetal n
 r частота f (колебаний)

$$f = \frac{1}{T}$$

1.112 e free vibration
 d freie Schwingungen $f pl$
 f oscillations $f pl$ libres
 nl vrije trillingen $f pl$
 r свободные колебания $n pl$



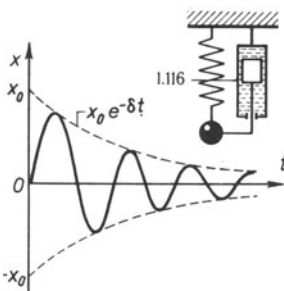
1.113 e natural frequency (f_n)
 d Eigenkreisfrequenz f ,
 Kennkreisfrequenz (f_n)
 f fréquence f propre (f_n)
 nl eigenfrequentie $f(f_n)$
 r собственная частота $f(f_n)$

$$f_n = \frac{1}{2\pi} \cdot \sqrt{\frac{k}{m}}$$

 (→ 1.112)

1.114 e damped oscillation
 d gedämpfte Schwingungen $f pl$
 f oscillations $f pl$ décroissantes
 nl gedempte trillingen $f pl$

r затухающие колебания $n pl$

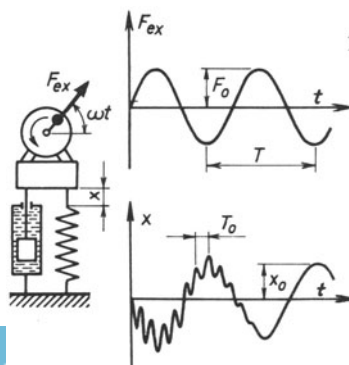


1.115 e damping
 d Dämpfung f
 f évanouissement m
 nl demping f
 r затухание n
 (→ 1.114)

1.116 e damper
 d Dämpfer m
 f damper m
 nl demper m
 r демпфер m
 (→ 1.114)

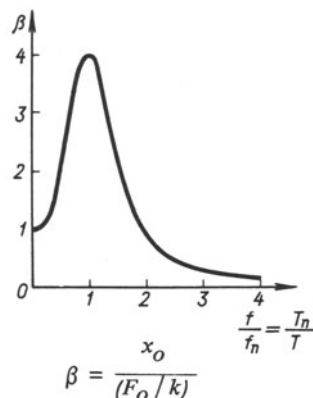
1.117 e logarithmic decrement (δ)
 d logarithmisches Dekrement $n(\delta)$
 f décrétement m logarithmique (δ)
 nl logaritmsch decrement $n(\delta)$
 r логарифмический декремент m (колебаний) (δ)
 (→ 1.114)

1.118 e forced oscillation [vibration]
 d erzwungene Schwingungen $f pl$
 f oscillations $f pl$ forcées
 nl gedwongen trillingen $f pl$
 r вынужденные колебания $n pl$



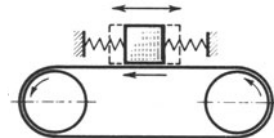
1.119 e exciting [disturbing] force (F_{ex})
 d erregende Kraft $f(F_{ex})$
 f force f d'excitation [perturbatrice] (F_{ex})
 nl dwingende kracht (F_{ex})
 r вынуждающая [возмущающая] сила $f(F_{ex})$
 (→ 1.117.)

1.120 e magnification factor, transmissibility
 d Vergrößerungsfunktion f
 f coefficient m d'amplification
 nl opslingerfactor m
 r коэффициент m динамического усиления [динамичности]



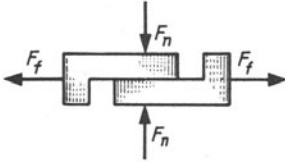
1.121 e resonance
 d Resonanz f
 f résonance f
 nl resonantie f
 r резонанс m
 $f = f_n$
 $T = T_n$

1.122 e self-excited oscillation
 d selbsterregte Schwingungen $f pl$
 f auto-oscillations $f pl$
 nl zelfbekrachtigende trillingen $f pl$
 r автоколебания $n pl$

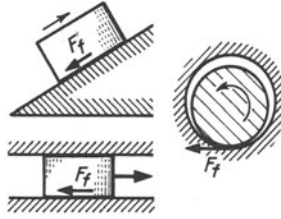


1.123

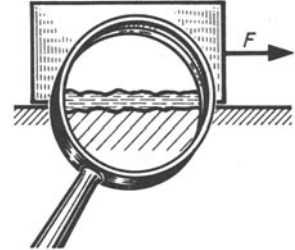
- 1.123 e friction
 d Reibung f
 f friction f, frottement m
 nl wrijving f
 r трение n



- nl glijdende wrijving f
 r трение n скольжения

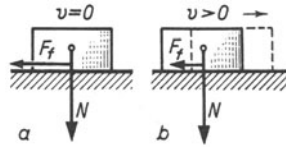


- 1.132 e fluid friction
 d Flüssigkeitsreibung f
 f frottement m fluide
 nl natte wrijving f
 r жидкостное трение n

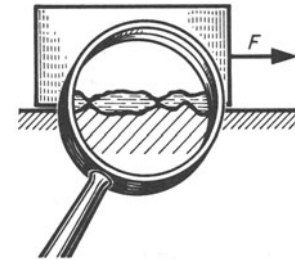


- 1.124 e friction force (F_f)
 d Reibungskraft f (F_f)
 f force f de frottement (F_f)
 nl wrijvingskracht f(m) (F_f)
 r сила f трения (F_f)
 (→ 1.123)

- 1.129 e static friction (a)
 d Haftreibung f, Ruhereibung (a)
 f frottement m statique (a)
 nl wrijving f van rust, rustende wrijving (a)
 r трение n покоя (a)



- 1.133 e boundary friction
 d Mischreibung f
 f frottement m mixte
 nl grenswrijving f, ploegende wrijving
 r граничное трение n



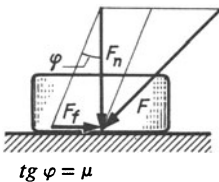
- 1.125 e normal force (F_n)
 d Normalkraft f (F_n)
 f force f normale (F_n)
 nl normaalkracht f(m) (F_n)
 r нормальная сила f (F_n)
 (→ 1.123)

- 1.126 e coefficient of friction
 d Reibungszahl f
 f coefficient m de frottement
 nl wrijvingscoëfficiënt m
 r коэффициент m трения

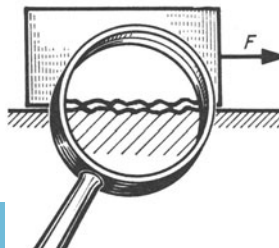
$$\mu = \frac{F_f}{F_n}$$
 (→ 1.123)

- 1.130 e kinetic friction (b)
 d Bewegungsreibung f (b)
 f frottement m en mouvement (b)
 nl wrijving f van beweging, bewegende wrijving (b)
 r трение n движения (b)
 (→ 1.129)

- 1.127 e angle of friction (φ)
 d Reibungswinkel m (φ)
 f angle m de frottement (φ)
 nl wrijvingshoek m (φ)
 r угол m трения (φ)



- 1.131 e dry friction
 d Festkörperreibung f, Trockenreibung
 f frottement m sec
 nl droge wrijving f
 r трение n без смазочного материала



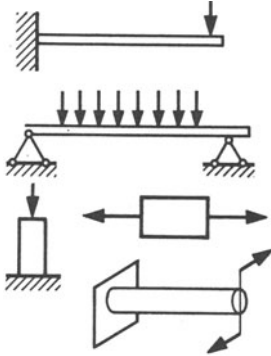
- 1.134 e rolling friction
 d Rollreibung f
 f frottement m de roulement
 nl rollende wrijving f
 r трение n качения



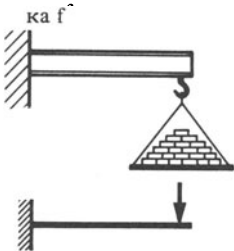
- 1.128 e sliding friction
 d Gleitreibung f
 f frottement m de glissement

**2. STRENGTH OF MATERIALS
FESTIGKEITSLEHRE
RÉSISTANCE DES MATERIAUX
STERKTE VAN MATERIALEN
СОПРОТИВЛЕНИЕ МАТЕРИАЛОВ**

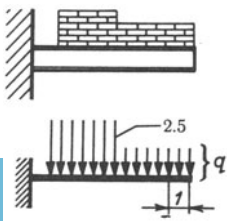
2.1 e load
d Last f
f charge f, effort m
nl belasting f
r нагрузка f



2.2 e concentrated load
d Einzelkraft f, Einzellast f
f charge f concentrée [isolée]
nl geconcentreerde belasting f
r сосредоточенная нагрузка f



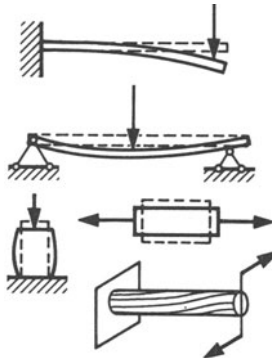
2.3 e distributed load
d Streckenlast f
f charge f distribuée [uniforme]
nl verdeelde belasting f
r распределённая нагрузка f



2.4 e intensity of distributed load (q)
d Lastintensität f (q)
f intensité f de la charge (q)
nl belastingintensiteit f (q)
r интенсивность f нагрузки (q)
(→ 2.3)

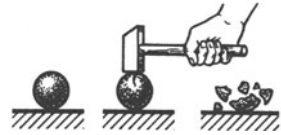
2.5 e diagram of distributed load, load diagram
d Lastverlauf m, Belastungslinie f, Belastungsprofil n
f diagramme m de la charge, épure f des efforts
nl belastingdiagram n
r эпюра f нагрузок
(→ 2.3)

2.6 e deformation
d Verformung f
f déformation f
nl deformatie f, vervorming f
r деформация f

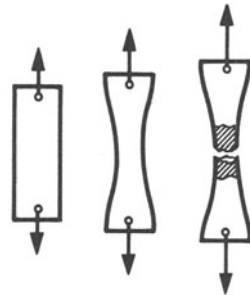


2.7 e fracture, rupture
d Bruch m
f destruction f, rupture f

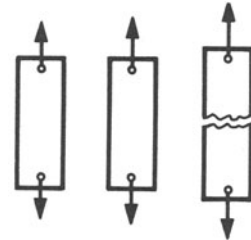
nl breuk f(m)
r разрушение n



2.8 e ductile fracture [rupture]
d zäher Bruch m
f rupture f ductile
nl taai breuk f(m)
r вязкое разрушение n



2.9 e brittle fracture [rupture]
d spröder Bruch m
f rupture f fragile
nl brosse breuk f(m)
r хрупкое разрушение n

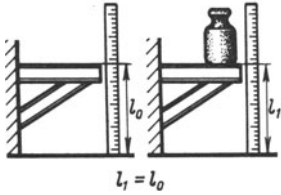


2.10 e strength
d Festigkeit f
f résistance f
nl sterkte f
r прочность f

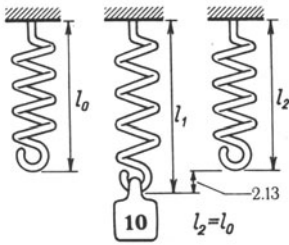


2.11

- 2.11 e rigidity, stiffness
 d Steifigkeit f
 f rigidité f
 nl stijfheid f
 r жёсткость f

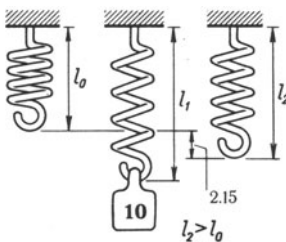


- 2.12 e elasticity
 d Elastizität f
 f élasticité f
 nl elasticiteit f, veerkracht f
 r упругость f



- 2.13 e elastic deformation
 d elastische Verformung f
 f déformation f élastique
 nl elastische vervorming f [de-
 formatie f]
 r упругая деформация f
 (→ 2.12)

- 2.14 e plasticity
 d Plastizität f
 f plasticité f, ductilité f
 nl plasticiteit f
 r пластичность f



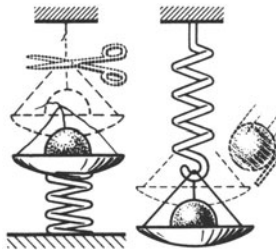
- 2.15 e plastic deformation
 d plastische Verformung f
 f déformation f plastique
 nl plastische [blijvende] ver-
 vorming f
 r пластическая деформа-
 ция f
 (→ 2.14)

- 2.16 e loading
 d Beanspruchung f
 f chargement m
 nl belasten n
 r нагружение n
 (→ 2.17, 2.18)

- 2.17 e static loading
 d statische Beanspruchung f
 f chargement m statique
 nl statische belasting f
 r статическое нагружение n

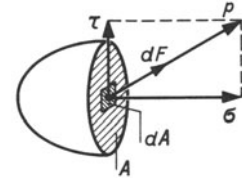
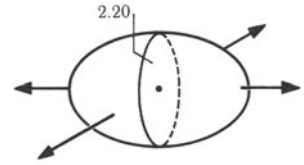


- 2.18 e dynamic loading
 d dynamische Beanspruchung f
 f chargement m dynamique
 nl dynamische belasting f
 r динамическое нагруже-
 ние n



- 2.19 e (unit) stress
 d Spannung f
 f contrainte f, effort m

- nl spanning f
 r напряжение n



$$p = \frac{dF}{dA}$$

- 2.20 e cross section
 d Querschnitt m
 f section f transversale
 nl (dwars)doorsnede f(m)
 r поперечное сечение n
 (→ 2.19)

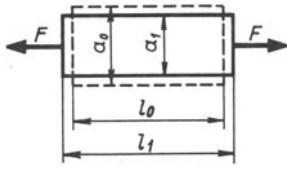
- 2.21 e cross-sectional area (A)
 d Querschnittsfläche f (A)
 f surface f de section trans-
 versale (A)
 nl doorsnede f (m), snij-
 vlaksooppervlakte f
 r площадь f поперечного
 сечения (A)
 (→ 2.19)

- 2.22 e normal [direct] stress (σ)
 d Normalspannung f (σ)
 f contrainte f normale (σ)
 nl normaalspanning f (σ)
 r нормальное напряжение
 n (σ)
 (→ 2.19)

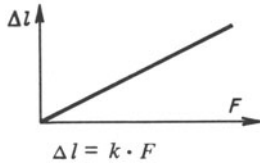
- 2.23 e shear [tangential] stress (τ)
 d Schubspannung f (τ)
 f contrainte f tangentielle (τ)
 nl schuifspanning f
 r касательное напряжение
 n (τ)
 (→ 2.19)

- 2.24 e tension
 d Zug m
 f tension f, traction f

nl trek m
r растяжение n



nl wet f(m) van Hooke
r закон м Гука



2.34 e tensile strength (S_u)
d Zugfestigkeit f (S_u)
f résistance f à la traction,
limite f de rupture (S_u)
nl treksterkte f, trekvastheid
f (S_u)
r предел м прочности при
растяжении (S_u)
(→ 2.31)

2.25 e tensile stress
d Zugspannung f
f contrainte f de traction
nl trekspanning f, trek m
r напряжение n растяже-
ния, растягивающее на-
пряжение

$$\sigma = \frac{F}{a_0}$$

(→ 2.24)

2.26 e elongation
d Längenänderung f
f allongement m
nl verlenging f
r удлинение n

$$\Delta l = l_1 - l_0$$

(→ 2.24)

2.27 e normal [direct] strain,
strain

d Dehnung f
f allongement m relatif [uni-
taire]

nl rek m
r относительное удлинение
n, относительная линей-
ная деформация f

$$\epsilon = \frac{l_1 - l_0}{l_0}$$

(→ 2.24)

2.28 e Poisson's ratio
d Poisson-Zahl f, Poissonsche
Konstante f [Zahl f]
f rapport m [coefficient m]
de Poisson [de contrac-
tion transversale]
nl contractiecoëfficiënt m
van Poisson

r коэффициент м Пуассо-
на, коэффициент попе-
речной деформации

$$\mu = \frac{l_1 - l_0}{l_0} : \frac{a_0 - a_1}{a_0}$$

(→ 2.24)

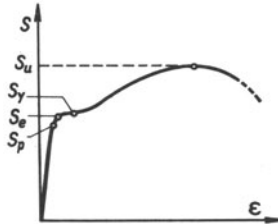
2.29 e Hooke's law
d Hookesches Gesetz n
f loi f de Hooke

2.30 e modulus of elasticity,
Young's modulus
d Elastizitätsmodul m
f coefficient m d'élasticité,
module m d'Young
nl elasticiteitsmodulus m
r модуль м упругости

$$E = \frac{\sigma}{\epsilon}$$

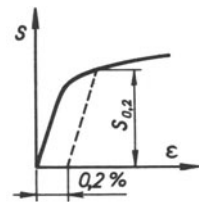
2.31 e stress-strain diagram
d Spannungs-Dehnungs-Dia-
gramm n
f courbe f [diagramme m]
de tension-dilatation

nl trekkromme f
r диаграмма f "напряже-
ние – деформация", ди-
аграмма напряжений



2.35 e lower yield point (S_y)
d untere Fließgrenze f (S_y)
f limite f élastique [d'écoule-
ment] (S_y)
nl onderste vloeigrens f (m)
(S_y)
r физический [нижний]
предел м текучести (S_y)
(→ 2.31)

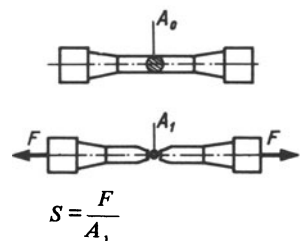
2.36 e yield [proof] strength
($S_{0,2}$)
d 0, 2-Dehngrenze f ($S_{0,2}$)
f limite f conventionnelle
d'élasticité $S_{0,2}$
nl rekgrens f (m) ($S_{0,2}$)
r условный предел м те-
кучести



2.32 e proportional limit (S_p)
d Proportionalitätsgrenze f
(S_p)
f limite f de proportionnalité
(S_p)
nl proportionaliteitsgrens
f(m) (S_p)
r предел м пропорциональ-
ности (S_p)
(→ 2.31)

2.37 e breaking [rupture, fractu-
re] strength
d Reissfestigkeit f
f résistance f à la rupture
nl sterkte f
r сопротивление n разрыву

2.33 e elastic limit (S_e)
d Elastizitätsgrenze f (S_e)
f limite f élastique [d'élasti-
cité] (S_e)
nl elasticiteitsgrens f(m) (S_e)
r предел м упругости (S_e)
(→ 2.31)



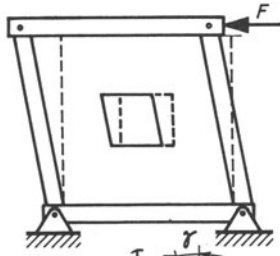
$$S = \frac{F}{A_1}$$

2.38

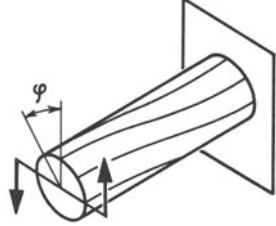
2.38 e percentage reduction of area
 d Brucheinschnürung f
 f striction f de rupture
 nl dwarscontractiegetal n
 r относительное сужение n (поперечного сечения) после разрыва

$$\psi = \frac{A_0 - A_1}{A_0} \cdot 100\%$$
 (→ 2.37)

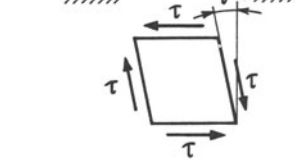
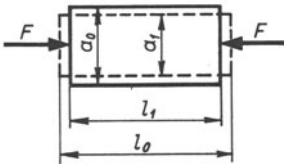
nl zuivere afschuiving f
 r чистый сдвиг m



nl torsie f, wringing f
 r кручение n



2.39 e compression
 d Druck m
 f compression f
 nl compressie f, samendrukken n
 r сжатие n



2.48 e angle of torsion [twist] (phi)
 d Drehwinkel m, Verdehngswinkel (phi)
 f angle m de torsion (phi)
 nl torsiehoek m, wringingshoek (phi)
 r угол m закручивания (phi) (→ 2.47)

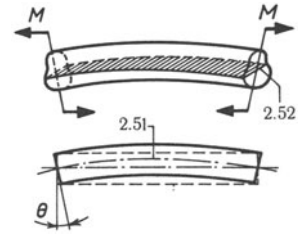
2.44 e shear force [load] (F)
 d Scherkraft f (F)
 f effort m de cisaillement (F)
 nl schuifkracht f(m) (F)
 r сдвигающая сила f (F) (→ 2.43)

2.49 e bending
 d Biegung f
 f flexion f
 nl buiging f
 r изгиб m

2.40 e compressive stress
 d Druckspannung f
 f contrainte f de compression
 nl drukspanning f
 r напряжение n сжатия, сжимающее напряжение

$$\sigma = \frac{F}{a_0}$$

2.45 e shear modulus, modulus of rigidity
 d Gleitmodul m, Schubmodul
 f coefficient m d'élasticité transversale, module m de cisaillement [d'élasticité transversale]
 nl glijdingsmodulus m, afschuivingsmodulus
 r модуль m сдвига



2.41 e compressive strength
 d Druckfestigkeit f
 f résistance f à (la) compression [à l'écrasement]
 nl druksterkte f, drukvastheid f
 r предел m прочности при сжатии

$$G = \frac{\tau}{\gamma}$$

2.46 e shear(ing) strain (gamma)
 d Gleitung f (gamma)
 f déformation f de cisaillement, cisaillement m (relatif) (gamma)
 nl afschuivingshoek m (gamma)
 r угловая деформация f, относительный сдвиг m (gamma) (→ 2.43)

2.50 e bending moment (M)
 d Biegemoment n (M)
 f moment m de flexion, moment fléchissant (M)
 nl buigmoment n (M)
 r изгибающий момент m, момент при изгибе (M) (→ 2.49)

2.42 e shear
 d Schub m
 f cisaillement m
 nl afschuiving f
 r сдвиг m (→ 2.43)

2.51 e elastic [deflection] curve
 d elastische Linie f, Biegelinie
 f ligne f de flexion, ligne élastique
 nl buigkromme f, buiglijn f(m)
 r упругая линия f (→ 2.49)

2.43 e pure shear
 d reiner Schub m
 f cisaillement m pur

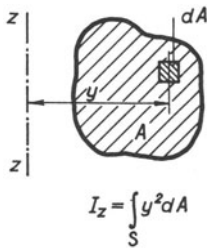
2.47 e torsion
 d Torsion f
 f torsion f

2.52 e neutral plane [surface]
 d neutrale Schicht f, Nullschicht, neutrale Fläche f, Null-Fläche

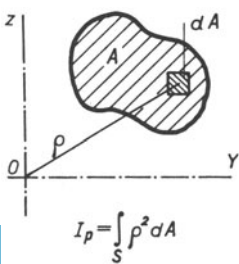
f couche f neutre, plan m d'origine
 nl **neutraal vlak** n
 r нейтральный слой m, нейтральная плоскость f
 (→ 2.49)

2.53 e slope of the elastic curve (θ)
 d Neigung f der Biegelinie (θ)
 f angle m de rotation de la section (θ)
 nl helling f van een buiglijn (θ)
 r угол m поворота сечения (θ)
 (→ 2.49)

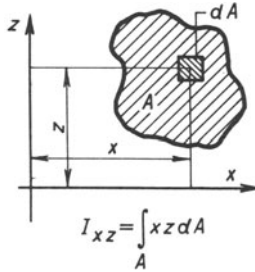
2.54 e moment of inertia, second moment of area
 d axiales Trägheitsmoment n
 f moment m d'inertie axial de la section
 nl **axiaal oppervlaktemoment** n
 r осевой момент m инерции сечения



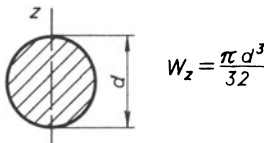
2.55 e polar moment of inertia, polar second moment of area
 d polares Trägheitsmoment n
 f moment m d'inertie polaire de la section
 nl **polair oppervlaktemoment** n
 r полярный момент m инерции сечения



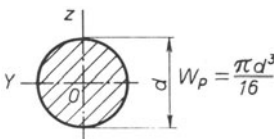
2.56 e product second moment of area, product of inertia
 d Zentrifugalmoment n
 f moment m d'inertie centrifuge de la section
 nl **centrifugaalmoment** n
 r центробежный момент m инерции сечения



2.57 e section modulus
 d Widerstandsmoment n
 f moment m de résistance par rapport à un axe
 nl **weerstandsmoment** n
 r осевой момент m сопротивления

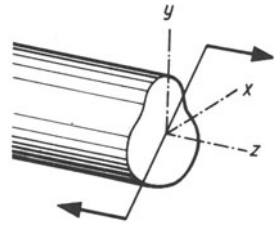


2.58 e polar section modulus
 d Torsionswiderstandsmoment n
 f moment m de résistance polaire
 nl **weerstandsmoment** n tegen wringing
 r полярный момент m сопротивления

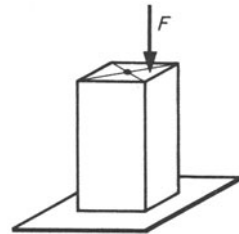


2.59 e skew bending
 d schiefe Biegung f
 f flexion f oblique

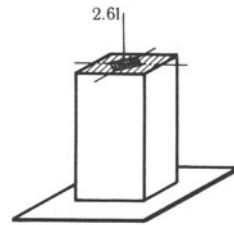
nl **scheve [schuine] buiging** f
 r кривой изгиб m



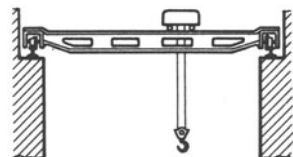
2.60 e eccentric load
 d ausermittige Kraft f, exzentrische Belastung f
 f charge f excentrique
 nl **excentrische belasting** f
 r внецентренная нагрузка f



2.61 e core of section
 d Kern m eines Querschnittes
 f noyau m central de section
 nl **kern f(m)** van een doorsnede
 r ядро m сечения

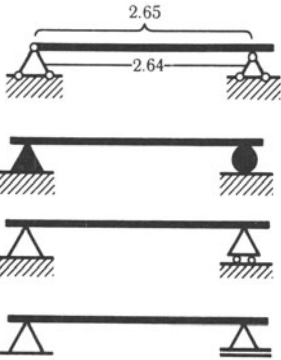


2.62 e beam
 d Träger m, Balken m
 f poutre f
 nl **ligger** m
 r балка f

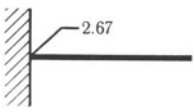


2.63

- 2.63 e simply supported beam, simple beam
 d auf zwei Stützen frei aufliegender Balken m
 f poutre f à appui libre, poutre posée
 nl aan beide uiteinden vrij opgelegde ligger m
 r свободно опёртая балка



- 2.64 e support
 d Stütze f
 f appui m, support m
 nl steun m, oplegging f
 r опора f
 (→ 2.63)
- 2.65 e span
 d Stützweite f, Stützlänge f
 f portée f
 nl overspanning f, lengte f van de overspanning
 r пролёт m
 (→ 2.63)
- 2.66 e cantilever beam
 d Kragträger m
 f poutre f cantilever [à console], poutre à goussets, console f
 nl eenzijdig ingeklemde ligger m
 r консольная балка f, консоль f
- 2.67 e restrained [fixed] end
 d eingespanntes Ende n
 f encastrement m
 nl vast ingeklemd balkeinde n



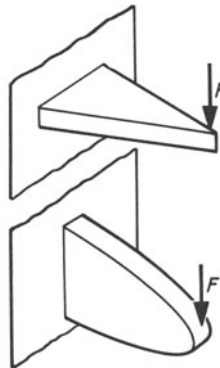
- r заделанный [защемлённый] конец m
 (→ 2.66)
- 2.68 e continuous beam
 d Durchlaufträger m
 f poutre f à travées multiples
 nl doorlopend ondersteunde ligger m
 r многопролётная балка f



- 2.69 e built-in [encastred] beam
 d zweiseitig eingespannter Träger m
 f poutre f encastree
 nl aan beide einden ingeklemde ligger m
 r балка f, заделанная с обоих концов



- 2.70 e beam of uniform strength
 d Balken m gleicher Biegebeanspruchung
 f poutre f d'égale résistance
 nl ligger m met uniforme sterkte
 r балка f равного сопротивления



- 2.71 e statically determinate beam
 d statisch bestimmter Träger m
 f poutre f isostatique [statiquement déterminée]

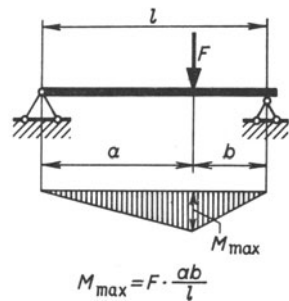
- nl statisch bepaalde balk m
 r статически определяемая балка f



- 2.72 e statically indeterminate beam
 d statisch unbestimmter Träger m
 f poutre f hyperstatique [statiquement indéterminée]
 nl statisch onbepaalde balk m
 r статически неопределимая балка f

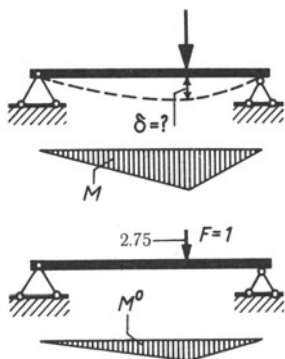


- 2.73 e moment diagram [curve]
 d Momentenkurve f, Momentenlinie f
 f courbe f [ligne] des moments
 nl momentenkromme f, momentenlijn f(m)
 r эпюра f моментов



- 2.74 e unit-load [dummy-load, Maxwell-Mohr] method, method of virtual load
 d Mohrsches Verfahren n
 f méthode f de la force unitaire, méthode de (Maxwell-)Mohr

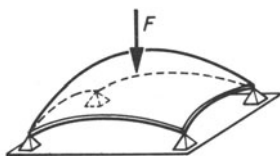
nl Mohr-methode f, kunstbe-
lastingsmethode, eenheids-
belastingsmethode
r метод м Мора



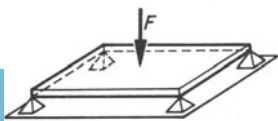
$$\delta = \int_0^l \frac{M \cdot M^0}{E \cdot I} dx$$

2.75 e unit [dummy] load
d fiktive Belastung f, ideale
Last f
f charge f unitaire
nl eenheidsbelasting f
r единичная нагрузка f
(→ 2.74)

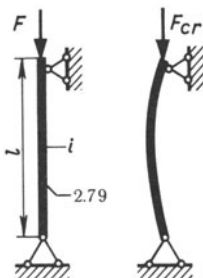
2.76 e shell
d Schale f
f enveloppe f
nl schaal f (m)
r оболочка f



2.77 e plate
d Platte f
f plaque f, membrane f
nl plaat f(m)
r пластина f, мембрана f



2.78 e buckling
d Biegeknicen n, Knickung f
f flambage m
nl knik m
r продольный изгиб m



2.79 e column strut
d Knickstab m, Stab m
f barre f comprimée longi-
tudinale [axiale]
nl drukstaaf f (m)
r (продольно сжатый)
стержень m
(→ 2.78)

2.80 e critical load, Euler (buck-
ling) load (F_{cr})
d Knicklast f, kritische
Last (F_{cr})
f charge f critique [au flam-
bage] (F_{cr})
nl knikbelasting f, kritische
last f van Euler (F_{cr})
r критическая сила f (F_{cr})
(→ 2.78)

2.81 e buckling stress [strength],
critical stress
d Knickspannung f
f contrainte f critique [au
flambage]
nl knikspanning f
r критическое напряже-
ние n

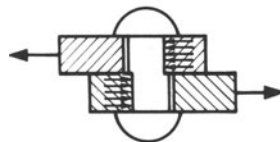
$$S_{cr} = \frac{F_{cr}}{A}$$

(→ 2.78)
2.82 e slenderness ratio
d Schlankheitsgrad m
f flexibilité f
nl slankheid f
r гибкость f

$$\lambda = \frac{l}{i}$$

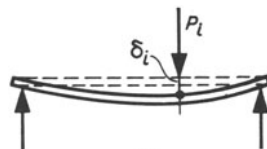
(→ 2.78)

2.83 e bearing, crushing
d Pressung f
f écrasement m
nl persing f
r смятие n



2.84 e strain energy (U)
d Formänderungsenergie f
(U)
f énergie f de déformation
(U)
nl vervormingsenergie f, vorm-
veranderingsenergie (U)
r энергия f деформации
(U)
(→ 2.85, 2.86)

2.85 e Castigliano's first theorem
d der erste Satz m von Cas-
tigliano
f théorème m premier de
Castigliano
nl eerste vergelijking f van
Castigliano
r первая теорема f Кас-
тильяно



$$P_i = \frac{\partial U}{\partial \delta_i}$$

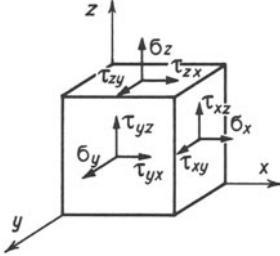
2.86 e Castigliano's second theo-
rem
d der zweite Satz m von
Castigliano
f théorème m deuxième de
Castigliano
nl tweede vergelijking f van
Castigliano
r вторая теорема f Кас-
тильяно

$$\frac{\partial U}{\partial P_i} = \delta_i$$

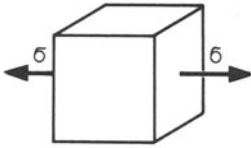
(→ 2.85)

2.87

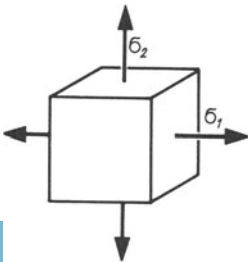
- 2.87 e state of stress, stress state
 d Spannungszustand m
 f état m de contrainte
 nl spanningstoestand m
 r напряжённое состояние n



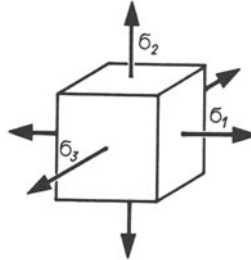
- 2.88 e uniaxial state of stress
 d einachsiger [linearer] Spannungszustand m
 f état m de contrainte à un axe
 nl lineaire spanningstoestand m
 r одноосное [линейное] напряжённое состояние n



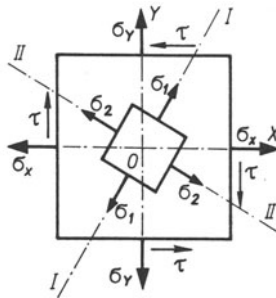
- 2.89 e two-dimensional (state of) stress, biaxial [plane] stress
 d zweiachsiger [ebener] Spannungszustand m
 f état m de contrainte à deux axes [dimensions], état plan de contrainte
 nl tweedimensionale spanningstoestand m
 r двухосное [плоское] напряжённое состояние n



- 2.90 e three-dimensional state of stress, triaxial stress, tri-axial stress state
 d dreiachsiger [räumlicher] Spannungszustand m
 f état m de contrainte à trois axes [dimensions]
 nl driedimensionale spanningstoestand m
 r трёхосное [объёмное] напряжённое состояние n



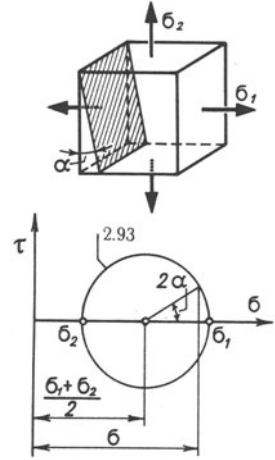
- 2.91 e principal stress (σ_1, σ_2)
 d Hauptspannung f (σ_1, σ_2)
 f contrainte f principale (σ_1, σ_2)
 nl hoofdspanning f (σ_1, σ_2)
 r главное напряжение n (σ_1, σ_2)



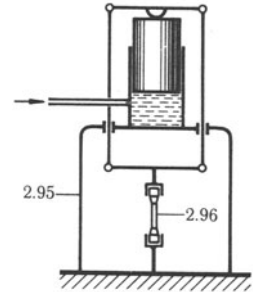
- 2.92 e principal axis (I – I, II – II)
 d Hauptachse f (I – I, II – II)
 f axe m principal (I – I, II – II)
 nl hoofdas f(m) (I – I, II – II)
 r главная ось f (I – I, II – II) (→ 2.91)

- 2.93 e Mohr's circle
 d Mohrscher Kreis m
 f cercle m de Mohr [des contraintes]

- nl cirkel m van Mohr
 r круг m Мора



- 2.94 e tensile [tension] test
 d Zugversuch m
 f essai m à la [dc] traction
 nl trekproef f(m)
 r испытание n на растяжение



- 2.95 e direct stress testing machine
 d Zerreißmaschine f
 f machine f d'essais à la traction
 nl trekbank f (m)
 r машина f для испытаний на растяжение (→ 2.94)

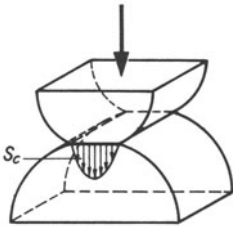
- 2.96 e tensile test specimen
 d Probestab m
 f échantillon m pour essais, éprouvette f
 nl proefstaaf f (m), proefstaaf voor trekproef
 r образец m для испытаний, испытательный образец (→ 2.94)

- 2.97 e allowable stress
 d zulässige Spannung f [Beanspruchung f]
 f contrainte f admissible
 nl toelaatbare spanning f
 r допускаемое напряжение n

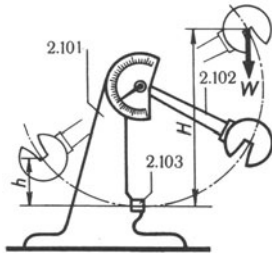
$$S_w = \frac{S_m}{f_s}$$

- 2.98 e safety factor, factor of safety (f_s)
 d Sicherheitszahl f (f_s)
 f coefficient m de sécurité (f_s)
 nl veiligheidsfactor m (f_s)
 r запас m прочности (f_s) (→ 2.97)

- 2.99 e contact stress (S_c)
 d Kontaktspannung f (S_c)
 f contrainte f de contact (S_c)
 nl contactspanning f (S_c)
 r контактное напряжение n (S_c)

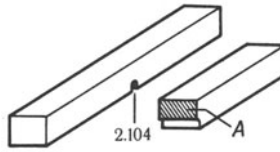


- 2.100 e impact test
 d Schlagversuch m
 f essai m au choc
 nl slagproef f(m)
 r испытание n на удар



- 2.101 e pendulum impact testing machine
 d Pendelschlagwerk n
 f mouton-pendule m
 nl torsieslingerproefbank f(m)
 r маятниковый копёр m (→ 2.100)

- 2.102 e pendulum
 d Pendel n
 f pendule m
 nl slinger m
 r маятник m (→ 2.100)
- 2.103 e notched specimen
 d gekerbter Probestab m, Kerbschlagprobe f
 f éprouvette f entaillée
 nl proefstaaf f (m)
 r надрезанный образец m

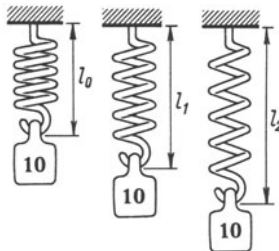


- 2.104 e notch
 d Kerbe f
 f entaille f
 nl kerf f(m)
 r надрез m (→ 2.103)
- 2.105 e impact strength, toughness
 d Kerbschlagzähigkeit f
 f résilience f, résistance f au choc
 nl kerfslagwaarde f
 r ударная вязкость f

$$a_k = \frac{W(H-h)}{A}$$

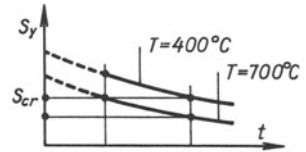
(→ 2.100, 2.103)

- 2.106 e creep
 d Kriechen n
 f fluage m
 nl kruip m, kruipen n
 r ползучесть f

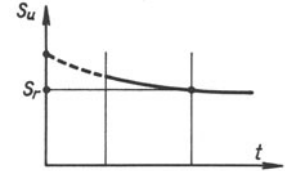


$$l_2 > l_1 > l_0$$

- 2.107 e creep limit (S_{cr})
 d Zeitstandkriechgrenze f (S_{cr})
 f limite f de fluage (S_{cr})
 nl kruipgrens f (m) (S_{cr})
 r предел m ползучести (S_{cr})

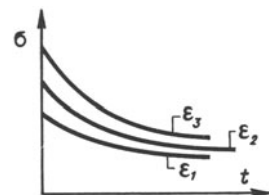


- 2.108 e strength rupture (S_r)
 d Zeitstandfestigkeit f, Zeitbruchgrenze f (S_r)
 f charge f de rupture à temps, limite f d'endurance (S_r)
 nl kruipsterkte f (S_r)
 r предел m длительной прочности (S_r)

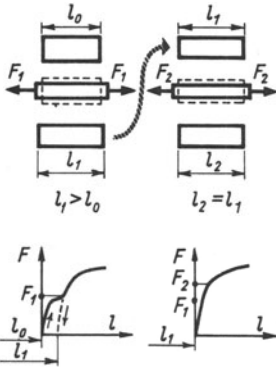


- 2.109 e stress relaxation
 d Relaxation f
 f relaxation f des contraintes
 nl relaxatie f, spanningsafname f
 r релаксация f напряжений (→ 2.110)

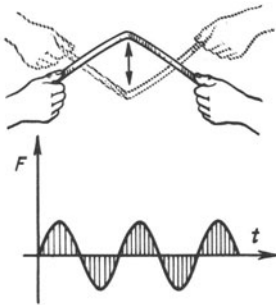
- 2.110 e relaxation curve
 d Entspannungskurve f, Relaxationskurve
 f courbe f de relaxation des contraintes
 nl relaxatiekromme f
 r кривая f релаксации напряжений



2.111 e strain [work] hardening
 d Kaltverfestigung f
 f durcissement m (par écrouissage)
 nl vervormingsharding f
 r деформационное упрочнение n, наклёп m, нагартовка f



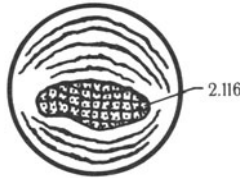
2.112 e cyclic loading
 d periodisch wechselnde Beanspruchung f
 f alternance f, charge f périodique [alternative]
 nl wisselbelasting f
 r циклическое [периодическое] нагружение n



2.113 e fatigue
 d Ermüdung f
 f fatigue f
 nl vermoeïing f
 r усталость f
 (→ 2.112)

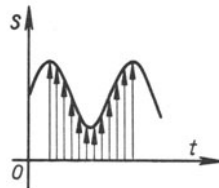
2.114 e fatigue strength
 d Dauer(schwing)festigkeit f
 f résistance f aux efforts alternés
 nl wisselsterkte f, vermoeïingssterkte
 r сопротивление усталости

2.115 e fatigue fracture
 d Dauerbruch m
 f cassure f par fatigue [d'endurance]
 nl vermoeïingsbreuk f (m)
 r усталостный излом m



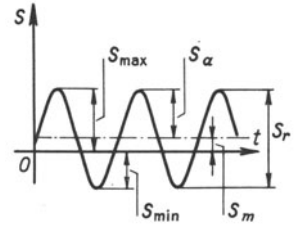
2.116 e rupture area
 d Restbruchfläche f
 f cassure f à gros grains
 nl breukvlak n
 r долом m
 (→ 2.115)

2.117 e stress cycle
 d Lastspiel n
 f alternance f des contraintes, contrainte f périodiquement variable
 nl spanningscyclus m
 r цикл m напряжений [нагружения]



2.118 e stress amplitude (S_a)
 d Spannungsaussschlag m (S_a)
 f amplitude f de la contrainte oscillante [des contraintes alternatives] (S_a)

nl spanningsamplitude f (S_a)
 r амплитуда f напряжений цикла (S_a)



2.119 e maximum stress (S_{max})
 d Oberspannung f (S_{max})
 f limite f supérieure d'effort (S_{max})
 nl bovengrens f (m) van de wisselspanning, sprongspanning, f (S_{max})
 r максимальное напряжение n цикла (S_{max})
 (→ 2.118)

2.120 e minimum stress (S_{min})
 d Unterspannung f (S_{min})
 f limite f inférieure d'effort (S_{min})
 nl ondergrens f (m) van de wisselspanning (S_{min})
 r минимальное напряжение n цикла (S_{min})
 (→ 2.118)

2.121 e mean stress (S_m)
 d Mittelspannung f (S_m)
 f tension f moyenne (S_m)
 nl gemiddelde spanning f (S_m)
 r среднее напряжение n цикла (S_m)
 (→ 2.118)

2.122 e range of stress (S_r)
 d Schwingbreite f der Spannung (S_r)
 f amplitude f crête à crête des contraintes alternatives (S_r)
 nl spanningstraject n (S_r)
 r размах m напряжений цикла (S_r)
 (→ 2.118)

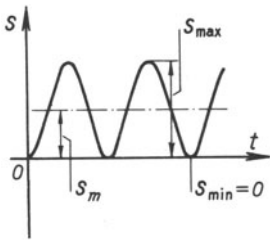
2.123 e stress ratio
 d Spannungsverhältniss n
 f coefficient m d'asymétrie de l'alternance
 nl spanningsverhouding f

r коэффициент асимметрии цикла напряжений

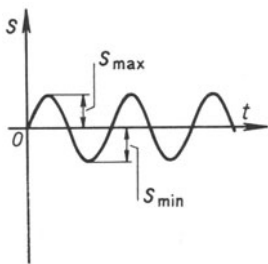
$$R = \frac{S_{min}}{S_{max}}$$

(→ 2.118)

- 2.124 e repeating-stress cycle
 d Lastspiel n im Schwellbereich
 f condition f de charge répétée
 nl cyclus m van pulserende belasting
 r отнулевой цикл m напряжений

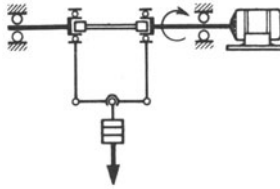


- 2.125 e reversed [alternating] stress cycle
 d Lastspiel n im Wechselbereich
 f charge f alternative (périodique), alternance f symétrique
 nl cyclus m van wisselende spanning
 r знакопеременный цикл m напряжений

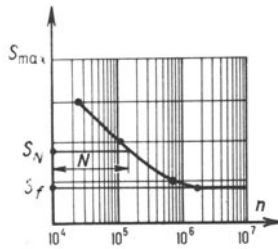


- 2.126 e fatigue test
 d Dauer(schwing)versuch m
 f essai m de fatigue

nl vermoeingsproef f(m)
 r испытание n на усталость



- 2.127 e S-N curve, SN-diagram, Wöhler curve
 d Wöhler-Kurve f, Wöhler-Schaubild n
 f courbe f de fatigue
 nl Wöhler-kromme f (*kromme voor bepaling van het vermoeingsgedrag van materialen bij wisselende belasting*)
 r кривая f усталости



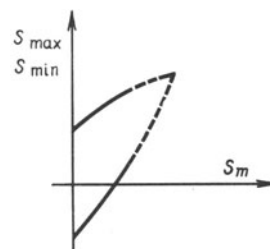
- 2.128 e number of (stress) cycles (n)
 d Lastspielzahl f (n)
 f nombre m d'alternance (n)
 nl aantal belastingvariëties
 r текущее число n циклов нагружения (n)
 (→ 2.127)

- 2.129 e endurance limit (S_f)
 d Wechselfestigkeit f (S_f)
 f limite f d'endurance, résistance f à la fatigue, charge f limite de fatigue (S_f)
 nl wisselsterkte f, vermoeingssterkte bij groot aantal cyclussen
 r предел m выносливости (S_f)
 (→ 2.127)

- 2.130 e fatigue strength at specified number of cycles (S_N)
 d Zeitschwingfestigkeit f (S_N)
 f limite f d'endurance bornée, charge f limite de fatigue (S_N)
 nl vermoeingssterkte f bij grensaantal belastingscyclussen (S_N)
 r предел m ограниченной выносливости (S_N)
 (→ 2.127)

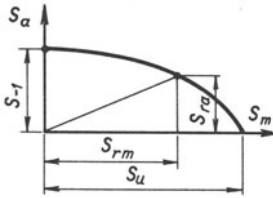
- 2.131 e endurance, life to failure (N)
 d Grenzlastspielzahl f (N)
 f durabilité f de fatigue (N)
 nl vermoeingssterkte f bij beperkt aantal cyclussen
 r циклическая долговечность f (N)
 (→ 2.127)

- 2.132 e mean stress diagram, Smith diagram
 d Dauerfestigkeitsschaubild n nach Smith
 f diagramme m de résistance à la fatigue, diagramme des contraintes limites du cycle
 nl wisselspanningdiagram n volgens Smith
 r диаграмма f предельных напряжений цикла

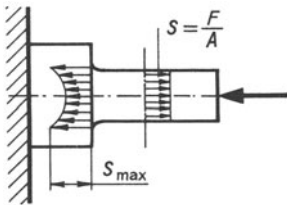


2.133

- 2.133 e Haigh diagram
 d Dauerfestigkeitsschaubild
 n nach Haigh
 f diagramme m des amplitudes limites du cycle
 nl diagram n volgens Haigh
 r диаграмма f предельных амплитуд цикла



- 2.134 e stress concentration
 d Kerbwirkung f, Spannungskonzentration f
 f concentration f des contraintes
 nl kerfwerking f, spanningsconcentratie f t. g. v. kerfwerking
 r концентрация f напряжений



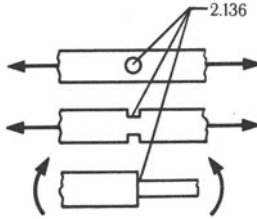
- 2.135 e theoretical stress concentration factor
 d Formzahl f, Formziffer f
 f coefficient m théorique de la concentration des contraintes
 nl kerffactor m, theoretische kerffactor
 r теоретический коэффициент m концентрации напряжений

$$k_t = \frac{S_{max}}{S}$$

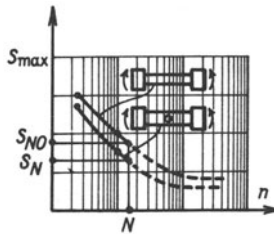
(→ 2.134)

- 2.136 e stress concentrator [raiser]
 d Kerbe f
 f amplificateur m de tensions, entaille f, incision f

- nl kerf f(m)
 r концентратор m напряжений, надрез m



- 2.137 e stress concentration factor, fatigue notch factor
 d Kerbwirkungszahl f
 f coefficient m effectif de la concentration des contraintes
 nl kerfinvloedsfactor m
 r эффективный коэффициент m концентрации напряжений



$$k_f = \frac{S_{NO}}{S_N}$$

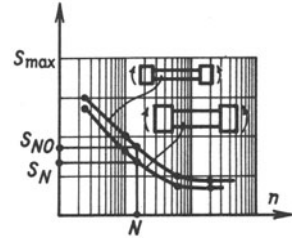
- 2.138 e fatigue notch sensitivity
 d Kerbempfindlichkeitszahl f
 f coefficient m de sensibilité de la concentration des contraintes
 nl afmetingsfactor m
 r коэффициент m чувствительности к концентрации напряжений

$$q = \frac{k_f - 1}{k_t - 1}$$

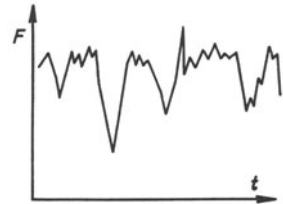
(→ 2.134, 2.135, 2.137)

- 2.139 e size factor
 d Grössenbeiwert m, Grössen(einfluss)factor m
 f coefficient m d'échelle

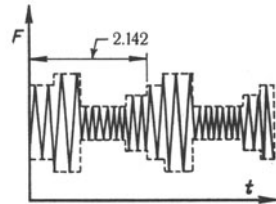
- nl afmetingsfactor m
 r коэффициент m влияния абсолютных размеров поперечного сечения, масштабный коэффициент



- 2.140 e random loading
 d regellose Beanspruchung f
 f charge f aléatoire
 nl willekeurige belasting f
 r случайное нагружение n



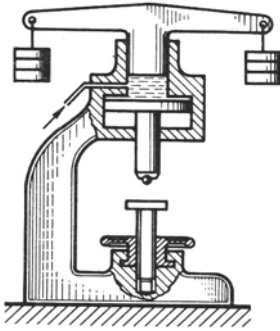
- 2.141 e block loading
 d Blockbeanspruchung f
 f charge f au bloc
 nl bloksgewijze belasting f
 r блочное нагружение n



- 2.142 e load block
 d Teilfolge f, Beanspruchungsblock m
 f bloc m de charge
 nl belastingsblok n
 r блок m нагружения
 (→ 2.141)

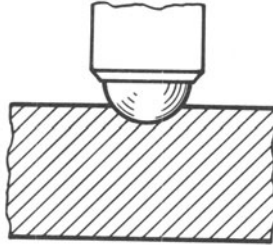
2.143 e hardness
 d Härte f
 f dureté f
 nl hardheid f
 r твёрдость f
 (→ 2.145 – 2.148)

2.144 e hardness tester
 d Härteprüfgerät n
 f duromètre m
 nl hardheidsmeter m
 r твердомер m

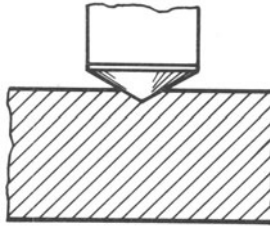


2.145 e Brinell hardness
 d Brinellhärte f

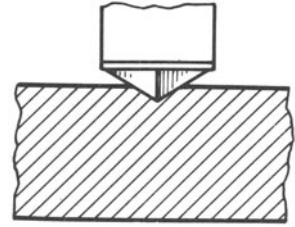
f dureté f Brinell, dureté f
 à la bille
 nl Brinell-hardheid f
 r твёрдость f по Бринеллю



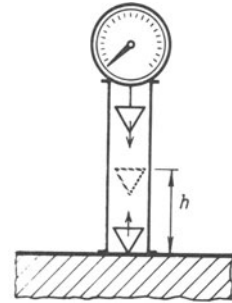
2.146 e Rockwell hardness
 d Rockwellhärte f
 f dureté f Rockwell
 nl Rockwell-hardheid f
 r твёрдость f по Роквеллу



2.147 e Vickers hardness
 d Vickershärte f
 f dureté f Vickers
 nl Vickers-hardheid f
 r твёрдость f по Виккерсу



2.148 e Shore hardness
 d Shore-Härte f
 f dureté f Shore
 nl Shore-hardheid f
 r твёрдость f по Шору



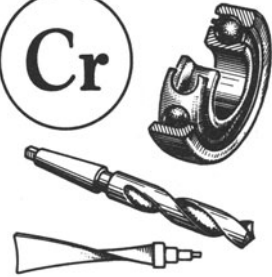
**3. ENGINEERING MATERIALS
 TECHNISCHE MATERIALIEN
 MATÉRIAUX TECHNIQUES
 TECHNISCHE MATERIALEN
 ТЕХНИЧЕСКИЕ МАТЕРИАЛЫ**

3.1 e chemical element
 d chemisches Element n,
 Grundstoff m
 f élément m (chimique),
 corps m élémentaire [sim-
 ple]
 nl (chemisch) element n
 r химический элемент m
 (→ 3.2 – 3.26)

nl beryllium n
 r бериллий m

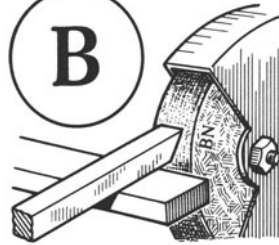


3.7 e chromium
 d Chrom n
 f chrome m
 nl chroom n
 r хром m



3.2 e aluminium
 d Aluminium n
 f aluminium m
 nl aluminium n
 r алюминий m

3.5 e boron
 d Bor n
 f bore m
 nl borium n
 r бор m

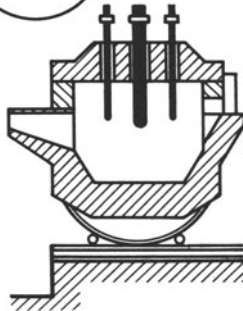


3.8 e cobalt
 d Kobalt m
 f cobalt m
 nl kobalt n
 r кобальт m



3.3 e antimony
 d Antimon n
 f antimoine m
 nl antimoon n
 r сурьма f

3.6 e carbon
 d Kohlenstoff m
 f carbone m
 nl koolstof f(m)
 r углерод m

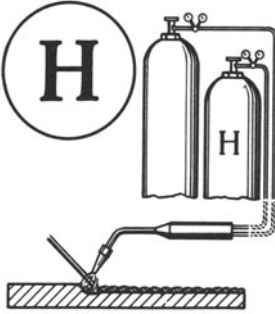


3.9 e copper
 d Kupfer n
 f cuivre m
 nl koper n
 r медь f



3.4 e beryllium
 d Beryllium n
 f beryllium m

3.10 e hydrogen
 d Wasserstoff m
 f hydrogène m
 nl waterstof f(m)
 r водород m



3.13 e magnesium
 d Magnesium n
 f magnésium m
 nl magnesium n
 r магний m

Mg

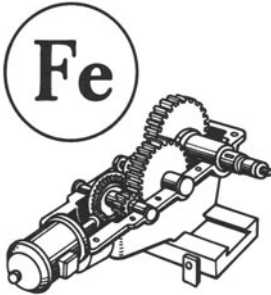


3.16 e nickel
 d Nickel n
 f nickel m
 nl nikkel n
 r никель m

Ni



3.11 e iron
 d Eisen n
 f fer m
 nl ijzer n
 r железо n

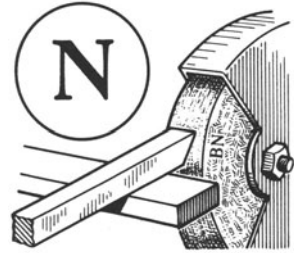


3.14 e manganese
 d Mangan n
 f manganèse m
 nl mangaan n
 r марганец m

Mn

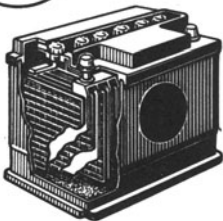


3.17 e nitrogen
 d Stickstoff m
 f azote m
 nl stikstof f(m)
 r азот m



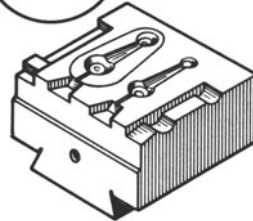
3.12 e lead
 d Blei n
 f plomb m
 nl lood n
 r свинец m

Pb

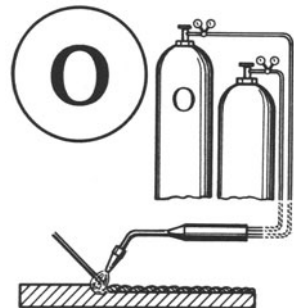


3.15 e molybdenum
 d Molybdän n
 f molybdène m
 nl molybdeen n
 r молибден m

Mo



3.18 e oxygen
 d Sauerstoff m
 f oxygène m
 nl zuurstof f(m)
 r кислород m



3.19

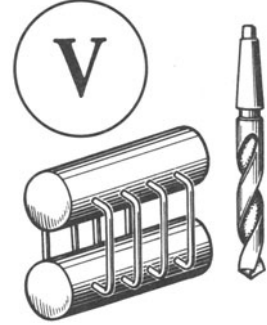
- 3.19 e silicon
 d Silizium n
 f silicium m
 nl silicium n
 r кремний m



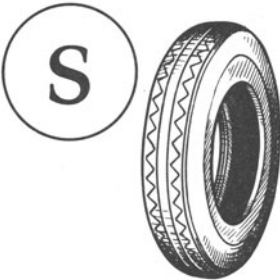
- 3.22 e titanium
 d Titan n
 f titane m
 nl titaan n
 r титан m



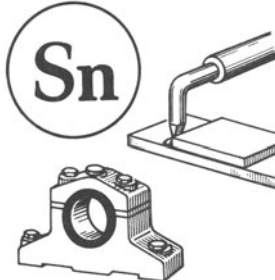
- 3.25 e vanadium
 d Vanadin n, Vanadium n
 f vanadium m
 nl vanadium n
 r ванадий m



- 3.20 e sulphur
 d Schwefel m
 f soufre m
 nl zwavel m
 r сера f



- 3.23 e tin
 d Zinn n
 f étain m
 nl tin n
 r олово n



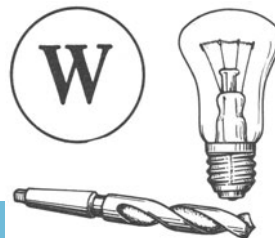
- 3.26 e zinc
 d Zink n
 f zinc m
 nl zink n
 r цинк m



- 3.21 e tantalum
 d Tantal n
 f tantale m
 nl tantalium n
 r тантал m



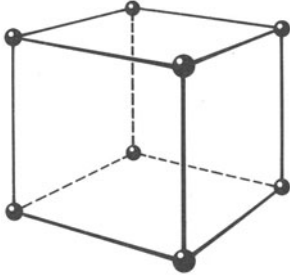
- 3.24 e tungsten
 d Wolfram m
 f tungstène m
 nl wolfram n
 r вольфрам m



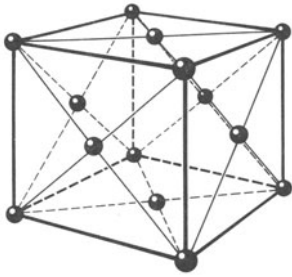
- 3.27 e metal
 d Metall n
 f métal m
 nl metaal n
 r металл m
 (→ 3.2, 3.4, 3.7 – 3.9,
 3.11 – 3.13, 3.15, 3.16,
 3.21 – 3.26)

- 3.28 e space [crystal] lattice
 d Kristallgitter n, Raumgitter
 f réseau m cristallin
 nl kristalrooster m, n
 r кристаллическая [пространственная] решётка f
 (→ 3.29 – 3.32)

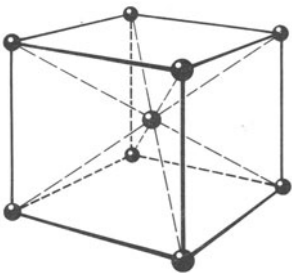
- 3.29 e simple cubic lattice
 d einfaches kubisches Gitter n
 f réseau m cubique primitif
 nl eenvoudig kubisch rooster m, n
 r простая кубическая решётка f



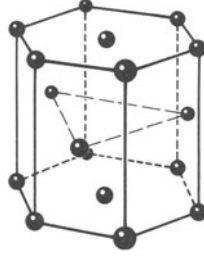
- 3.30 e face-centered cubic lattice
 d kubisch flächenzentriertes Gitter n
 f réseau m cubique à faces centrées
 nl vlak-gecentreerd kubisch rooster m, n
 r гранецентрированная кубическая решётка f



- 3.31 e body-centered cubic lattice
 d kubisch raumzentriertes Gitter n
 f réseau m cubique centré
 nl ruimtelijk gecentreerd kubisch rooster m, n
 r объёмноцентрированная кубическая решётка f



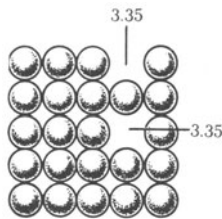
- 3.32 e hexagonal lattice
 d hexagonales Gitter n
 f réseau m hexagonal
 nl hexagonaal rooster m, n
 r гексагональная решётка f



- 3.33 e lattice defect, crystal imperfection
 d Gitterfehler m, Gitterdefekt m, Kristallbaufehler
 f défaut m [imperfection f] du réseau cristallin
 nl roosterdefect n
 r дефект m кристаллической решётки
 (→ 3.34 – 3.40)

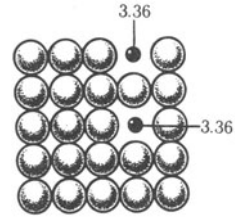
- 3.34 e point defect
 d Punktfehlstelle f
 f défaut m ponctuel
 nl puntdefect n
 r точечный дефект m
 (→ 3.35 – 3.37)

- 3.35 e vacancy
 d Leerstelle f, Gitterleerstelle
 f vacance f
 nl vacature f
 r вакансия f

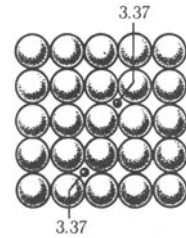


- 3.36 e substitutional defect [atom], substitution
 d Substitutionsatom m
 f atome m d'impureté

- nl vreemd element n
 r атом m примеси [за-мещения]

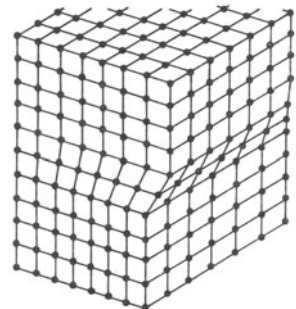


- 3.37 e interstitial defect [atom], interstitialcy
 d Zwischengitteratom m, Einlagerungsatom
 f atome m interstitiel
 nl interstitieel atom n
 r межузельный атом m



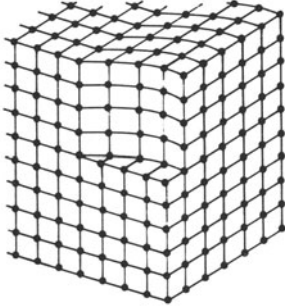
- 3.38 e dislocation
 d Versetzung f
 f dislocation f
 nl dislocatie f, lijn defect n
 r дислокация f
 (→ 3.39, 3.40)

- 3.39 e edge dislocation
 d Kantenversetzung f
 f dislocation f coin [en arête]
 nl randdislocatie f
 r краевая дислокация f

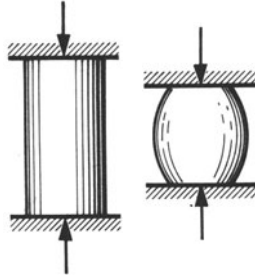


3.40

- 3.40 e screw dislocation
 d Schraubenversetzung f
 f dislocation f en hélice
 nl **dislocatie met schroefkarakter**
 r винтовая дислокация f



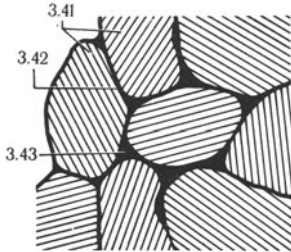
- nl rekbaar [taai] materiaal n
 r вязкий материал m



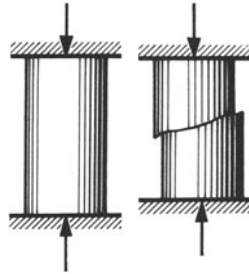
- 3.49 e ferrous metal
 d Eisenwerkstoff m
 f métal m ferrugineux [ferreux]
 nl **ferrometaal n**
 r чёрный металл m
 (→ 3.63, 3.107)

- 3.50 e allotrope of iron
 d allotropische Modifikation f des Eisens
 f allotropie f du fer
 nl **allotrope ijzermodificatie f**
 r аллотропия f [аллотропическая модификация f] железа
 (→ 3.51, 3.52)

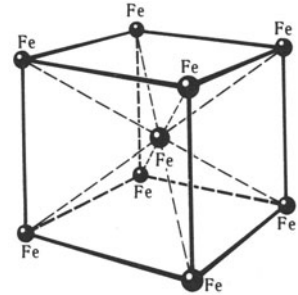
- 3.41 e grain
 d Korn n
 f grain m, granule m, cristallite f
 nl korrel m, kristalliet m
 r зерно n, кристаллит m



- 3.45 e brittle material
 d spröder Werkstoff m
 f matière f fragile
 nl **bros materiaal n**
 r хрупкий материал m



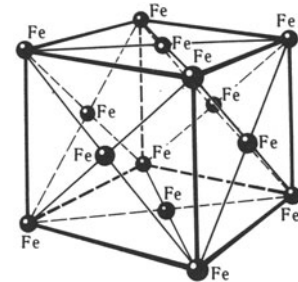
- 3.51 e alpha iron, α-iron
 d Alpha-Eisen n, α-Eisen n
 f fer-alpha
 nl alfa-ijzer n
 r альфа-железо n, α-железо



- 3.42 e grain boundary
 d Korngrenze f
 f limite f des grains, limite intergranulaire
 nl korrelgrens f(m)
 r граница f зерна
 (→ 3.41)

- 3.46 e alloy
 d Legierung f
 f alliage m
 nl legering f
 r сплав m
 (→ 3.63, 3.107, 3.119, 3.123, 3.124, 3.127)

- 3.52 e gamma iron, γ-iron
 d Gamma-Eisen n, γ-Eisen n
 f fer-gamma
 nl gamma-ijzer n
 r гамма-железо n, γ-железо



- 3.43 e impurity
 d Verunreinigung f
 f impureté f
 nl verontreiniging f, onzuiverheid f
 r загрязнение n
 (→ 3.41)

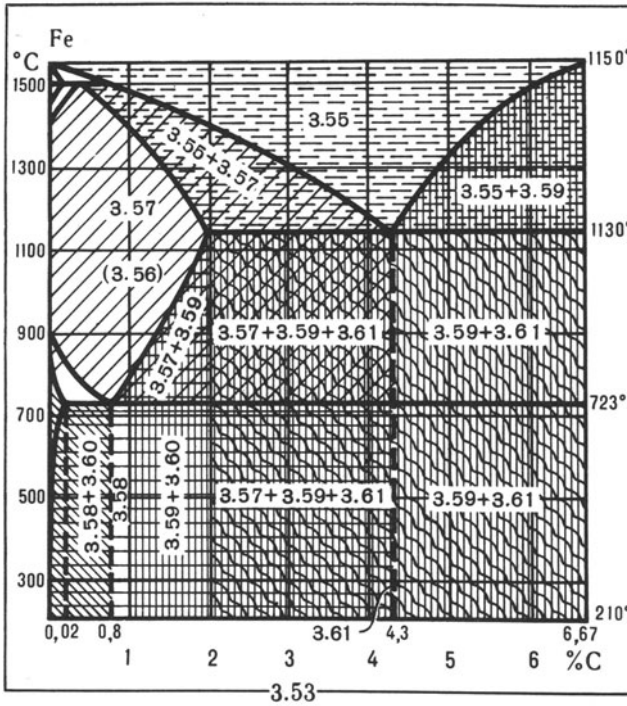
- 3.47 e alloy grade
 d Legierungsmarke f, Legierungssorte f
 f nuance f d'alliage
 nl **legeringsklasse f**
 r марка f сплава
 SAE 1045 C45 XC48 Ст45

- 3.48 e chemical composition
 d chemische Zusammensetzung f
 f composition f chimique
 nl chemische samenstelling f
 r химический состав m
 SAE 1045:

99,2 – 99,6 % Fe
 0,13 – 0,18 % C
 0,30 – 0,60 % Mn

- 3.53 e iron-carbon diagram
 d Eisen-Kohlenstoff-Schaubild n
 f diagramme m fer-carbon

nl ijzer-koolstof-diagram n
 r диаграмма f состояния
 железо – углерод

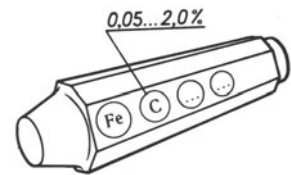


r перлит m
 ($\alpha = \text{Fe} + \text{C}$) + Fe_3C
 ($\rightarrow 3.53$)

3.61 e ledeburite
 d Ledeburit m
 f lédéburite f
 nl ledeburiet n
 r ледебурит m
 ($\gamma = \text{Fe} + \text{C}$) + Fe_3C
 ($\rightarrow 3.53$)

3.62 e martensite
 d Martensit m
 f martenicite f
 nl martensiet n
 r мартенсит m
 $\alpha = \text{Fe} + \text{C}$ (HRC 50...
 ... 65)

3.63 e steel
 d Stahl m
 f acier m
 nl staal n
 r сталь f



3.54 e phase
 d Phase f
 f phase f
 nl fase f
 r фаза f

3.55 e liquid solution of carbon
 in iron
 d flüssige Lösung f von
 Kohlenstoff im Eisen
 f solution f liquide fer-carbon
 nl vloeibare oplossing f van
 koolstof in ijzer
 r жидкий раствор m угле-
 рода в железе
 ($\rightarrow 3.53$)

3.56 e solid solution of carbon
 in iron
 d feste Lösung f von
 Kohlenstoff im Eisen
 f solution f solide fer-carbon
 nl vaste oplossing f van kool-
 stof in ijzer
 r твёрдый раствор m угле-
 рода в железе
 ($\rightarrow 3.53$)

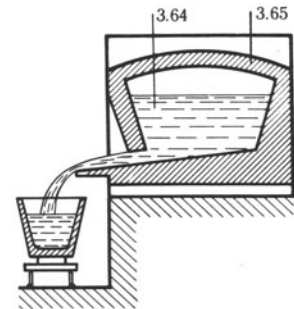
3.57 e austenite
 d Austenit m
 f austénite f
 nl austeniet n
 r аустенит m
 ($\gamma = \text{Fe} + \text{C}$)
 ($\rightarrow 3.53$)

3.58 e ferrite
 d Ferrit m
 f ferrite f
 nl ferriet n
 r феррит m
 ($\alpha = \text{Fe} + \text{C}$)
 ($\rightarrow 3.58$)

3.59 e cementite
 d Zementit m
 f cémentite f
 nl cementiet n
 r цементит m
 Fe_3C
 ($\rightarrow 3.53$)

3.60 e pe(a)rlite
 d Perlit m
 f perlite f
 nl perliet n

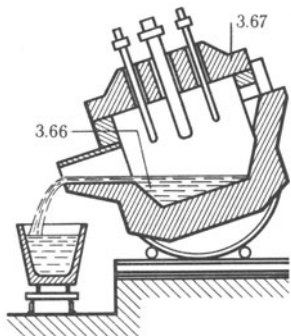
3.64 e open-hearth steel
 d Siemens-Martin-Stahl m
 f acier m Martin
 nl martinstaal n, SM-staal
 r мартеновская сталь f



3.65 e open-hearth furnace
 d Siemens-Martin-Ofen m
 f four m Siemens-Martin
 nl Siemens-Martinoven
 r мартеновская печь f
 ($\rightarrow 3.64$)

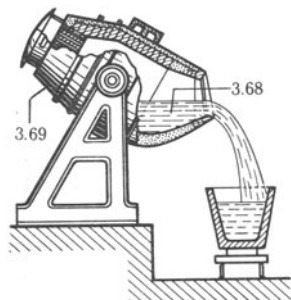
3.66

- 3.66 e electric furnace steel
 d Elektrostahl m
 f acier m électrique
 nl elektrostaal n
 r электросталь f



- 3.67 e electric furnace
 d Elektroofen m
 f four m électrique
 nl elektrooven m
 r электропечь f
 (→ 3.66)

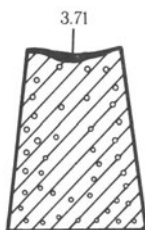
- 3.68 e converter steel
 d Windfrischstahl m
 f acier m de convertissage
 nl convertorstaal n, bessemer-
 staal
 r конвертерная сталь f



- 3.69 e converter furnace
 d Stahlwerkkonverter m,
 Konverter
 f convertisseur m
 nl convertor m
 r конвертер m, конвертор
 (→ 3. 68)

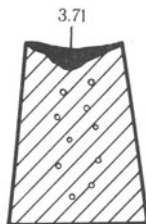
- 3.70 e rimming steel
 d unberuhigter Stahl m
 f acier m effervescent
 [mousseux]

- nl onrustig staal n
 r кипящая сталь f

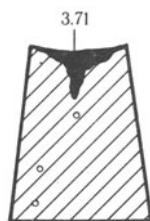


- 3.71 e pipe, shrinkage cavity
 d Lunker m
 f retassure f, cavité f de
 retrait
 nl krimpholte f
 r усадочная раковина f
 (→ 3.70, 3.72, 3.73)

- 3.72 e semi-killed steel
 d halbberuhigter Stahl m
 f acier m semi-calmé
 nl half-rustig staal n
 r полуспокойная сталь f



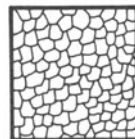
- 3.73 e killed steel
 d beruhigter Stahl m
 f acier m calme
 nl rustig staal n
 r спокойная сталь f



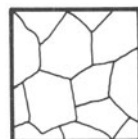
- 3.74 e grain size of steel
 d Korngröße f von Stahl
 f grosseur f des grains
 d'acier

- nl korrelgrootte f van het
 staal n

- r зернистость f стали



3.75

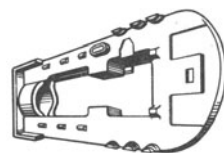


3.76

- 3.75 e fine-grained steel
 d Feinkornstahl m
 f acier m à grains fins
 nl fijnkorrelig staal n
 r мелкозернистая сталь f
 (→ 3.74)

- 3.76 e coarse-grained steel
 d Grobkornstahl m
 f acier m à gros grains
 nl grofkorrelig staal n
 r крупнозернистая сталь f
 (→ 3.74)

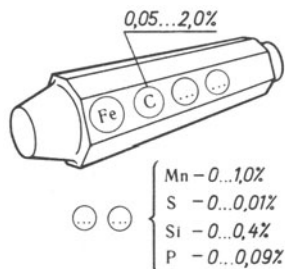
- 3.77 e casting [cast] steel
 d Stahlguss m
 f acier m coulé [fondu,
 moulé]
 nl gietstaal n, gegoten staal
 r сталь f для отливок



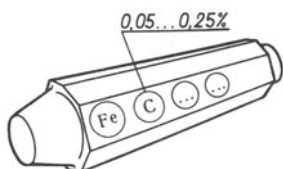
- 3.78 e structural steel
 d Baustahl m
 f acier m de construction
 nl constructiestaal n
 r конструкционная сталь f



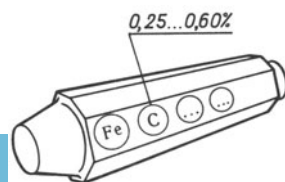
- 3.79 e carbon steel
 d Kohlenstoffstahl m
 f acier m au carbone
 nl koolstofstaal n
 r углеродистая сталь f



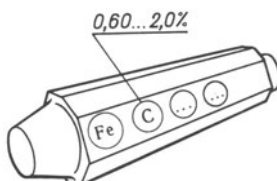
- 3.80 e low-carbon steel
 d niedriggekohltter Stahl m
 f acier m au carbone doux
 nl laag-koolstofstaal n
 r низкоуглеродистая сталь f
 SAE 1015 (AISI C1015):
 0,13 - 0,18 % C
 0,30 - 0,60 % Mn



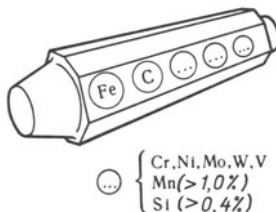
- 3.81 e medium-carbon steel
 d mittelgekohltter Stahl m
 f acier m à carbone moyen
 nl middelhoog-koolstofstaal n
 r среднеуглеродистая сталь f
 SAE 1045 (AISI C1045):
 0,43 - 0,50 % C
 0,60 - 0,90 % Mn



- 3.82 e high-carbon steel
 d hochgekohltter Stahl m
 f acier m à carbone élevé,
 acier à haut carbone
 nl staal n met hoog koolstofgehalte, hooggekoold staal
 r высокоуглеродистая сталь f
 SAE 1060 (AISI C1060):
 0,55 - 0,60 % C
 0,60 - 0,90 % Mn



- 3.83 e alloy steel
 d legierter Stahl m
 f acier m allié
 nl hoog-koolstofstaal n
 r легированная сталь f



- 3.84 e molybdenum steel
 d Molybdänstahl m
 f acier m au molybdène
 nl molybdeenstaal n
 r молибденовая сталь f
 SAE 4024:
 0,20 - 0,25 % C
 0,70 - 0,90 % Mn
 0,20 - 0,30 % Mo

- 3.85 e chromium-molybdenum steel
 d Chrommolybdänstahl m
 f acier m au chrome-molybdène
 nl chroommolybdeenstaal n
 r хромомолибденовая сталь f
 SAE 4730:
 0,28 - 0,33 % C
 0,40 - 0,60 % Mn
 0,80 - 1,10 % Cr
 0,15 - 0,25 % Mo


- 3.86 e nickel-chromium-molybdenum steel
 d Nickelchrommolybdänstahl m
 f acier m au chrome-nickel-molybdène
 nl chroom-nikkel-molybdeenstaal n
 r хромоникельмолибденовая сталь f
 SAE 4720:
 0,17 - 0,22 % C
 0,50 - 0,70 % Mn
 0,90 - 1,20 % Ni
 0,35 - 0,55 % Cr
 0,15 - 0,25 % Mo

- 3.87 e stainless chromium steel
 d nichtrostender Chromstahl m
 f acier m au chrome inoxydable
 nl roestvrij chroomstaal n
 r нержавеющей хромистая сталь f
 SAE 51403:
 0,15 % C
 1,00 % Mn
 0,5 % Si
 11,5 - 13 % Cr

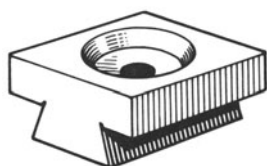
- 3.88 e chromium-vanadium steel
 d Chromvanadinestahl m
 f acier m au chrome-vanadium
 nl chroomvanadiumstaal n
 r хромованадиевая сталь f
 SAE 6120:
 0,17 - 0,22 % C
 0,70 - 0,90 % Mn
 0,70 - 0,90 % Cr
 0,10 % V

- 3.89 e silicon-manganese steel
 d Mangansiliciumstahl m
 f acier m au silicium-manganèse
 nl mangaan-siliciumstaal n
 r кремнемарганцевая сталь f
 SAE 92 60:
 0,55 - 0,65 % C
 0,70 - 1,00 % Mn
 1,80 - 2,20 % Si

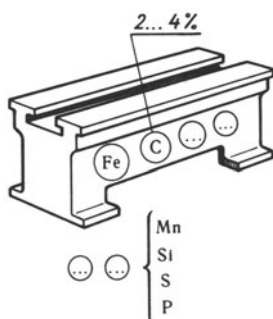
3.90

- 3.90 e corrosion resisting chromium-nickel steel
 d korrosionsbeständiger Chromnickelstahl m
 f acier m au chrome-nickel inattaquable
 nl corrosiebestendig chroom-nikkelstaal n
 r коррозионнoстойкая хромоникелевая сталь f
 SAE 303 03:
 0,15 % C
 2,00 % Mn
 1,00 % Si
 17- 19 % Cr
 8 - 10 % Ni
- 3.91 e bearing chromium steel
 d Wälzlagerstahl m
 f acier m à rouleaux
 nl chroomhoudend kogellaagerstaal n
 r шарикоподшипниковая хромистая сталь f
 SAE 51100:
 0,95 - 1,10 % C
 0,25 - 0,45 % Mn
 0,90 - 1,15 % Cr
- 3.92 e nickel-molybdenum steel
 d Nickelmolybdänstahl m
 f acier m au nickel-molybdène
 nl nikkell-molybdeenstaal n
 r никельмолибденовая сталь f
 SAE 4620:
 0,17 - 0,22 % C
 0,45 - 0,65 % Mn
 1,65 - 2,00 % Ni
 0,20 - 0,30 % Mo
- 3.93 e chromium steel
 d Chromstahl m
 f acier m au chrome
 nl chroomstaal n
 r хромистая сталь f
 SAE 5015:
 0,12 - 0,17 % C
 0,30 - 0,50 % Mn
 0,30 - 0,50 % Cr
- 3.94 e manganese steel
 d Manganstahl m
 f acier m à manganese
 nl mangaanstaal n
 r марганцовистая сталь f
 SAE 1345:
 0,43 - 0,48 % C
 1,60 - 1,90 % Mn
 0,20 - 0,35 % Si
- 3.95 e nickel steel
 d Nickelstahl m
 f acier m au nickel
 nl nikkelstaal n
 r никелевая сталь f
 SAE 2517:
 0,15 - 0,20 % C
 0,45 - 0,60 % Mn
 0,20 - 0,35 % Si
 4,75 - 5,25 % Ni
- 3.96 e free cutting steel
 d Automatenstahl m
 f acier m de décolletage
 nl automatenstaal n
 r автоматная сталь f
 SAE 1114:
 0,10 - 0,16 % C
 1,00 - 1,30 % Mn
 0,08 - 0,13 % Si
- 3.97 e nickel-chromium steel
 d Chromnickelstahl m
 f acier m au chrome-nickel
 nl chroom-nikkelstaal n
 r хромоникелевая сталь f
 SAE 3110:
 0,08 - 0,13 % C
 0,45 - 0,60 % Mn
 3,25 - 3,75 % Ni
 1,40 - 1,75 % Cr
- 3.98 e tool steel
 d Werkzeugstahl m
 f acier m à outils
 nl gereedschapsstaal n, werktuigstaal
 r инструментальная сталь f
 (→ 3.99, 3.102)
- 3.99 e high speed tool steel
 d Schnellarbeitsstahl m
 f acier m à coupe rapide
- nl snelstaal n
 r быстрорежущая сталь f
- 
- 3.100 e molybdenum (type) high-speed tool steel
 d molybdänhaltiger Schnellarbeitsstahl m
 f acier m au molybdène à coupe rapide
 nl molybdeenhoudend snelstaal n
 r молибденовая быстрорежущая сталь f
 AISI M1:
 0,80 % C
 1,50 % W
 8,00 % Mo
 4,00 % Cr
 1,00 % V
 (→ 3.99)
- 3.101 e tungsten type high speed tool steel
 d wolframhaltiger Schnellarbeitsstahl m
 f acier m au tungstène à coupe rapide
 nl wolframhoudend snelstaal n
 r вольфрамовая быстрорежущая сталь f
 AISI T1:
 0,75 % C
 18,00 % W
 4,00 % Cr
 1,00 % V
 (→ 3.99)
- 3.102 e hot work tool steel
 d Warmarbeitsstahl m
 f acier m résistant à la chaleur pour bouterolles et étampes
 nl warmmatrijzenstaal n
 r теплоустойкая штамповая сталь f
 AISI H11:
 0,35 % C
 1,50 % Mo
 5,00 % Cr
 0,40 % V

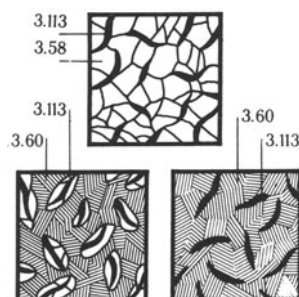
- 3.103 e cold work tool steel
 d Kaltarbeitsstahl m
 f acier m pour bouterolles
 et étampes
 nl stempelstaal n
 r нетеплостойкая штамповая сталь f
 AISI D3:
 2,25 % C
 12 % Cr



- nl gietijzer n
 r чугуn m

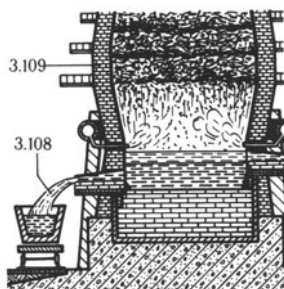


- nl grijs gietijzer n
 r серый чугуn m



- 3.104 e shock resisting tool steel
 d kaltzäher Werkzeugstahl m
 f acier m très résilient à
 outillage
 nl slagvast gereedschapsstaal
 n
 r ударостойкая инструментальная сталь f
 AISI S2:
 0,50 % C
 1,00 % Si
 0,50 % Mo

- 3.108 e pig iron
 d Roheisen n
 f fonte f de moulage
 nl ruwijzer n
 r доменный чугуn m



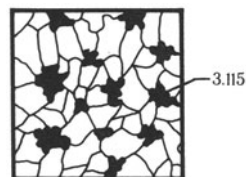
- 3.112 e graphite
 d Graphit m
 f graphite m
 nl grafiet n
 r графит m
 (→ 3.111, 3.114, 3.116)

- 3.113 e flake graphite
 d Lamellengraphit m
 f graphite m lamellaire
 nl lamellair grafiet n
 r пластинчатый графит m
 (→ 3.111)

- 3.105 e special purpose tool steel
 d niedriglegierter Werkzeugstahl m
 f acier m peu allié à outillage
 nl laaggelegeerd gereedschapsstaal n
 r инструментальная низколегированная сталь f
 AISI L6:
 0,70 % C
 0,25 % Mo
 0,75 % Cr

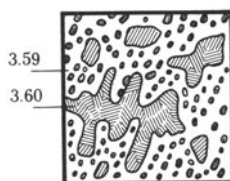
- 3.109 e blast furnace
 d Hochofen m
 f haut fourneau m
 nl hoogoven m
 r доменная печь f
 (→ 3.108)

- 3.114 e malleable cast iron
 d Temperguss m
 f fonte f malléable, malléable f
 nl smeedbaar gietijzer n, tempergietijzer
 r ковкий чугуn m



- 3.106 e water hardening tool steel
 d unlegierter Werkzeugstahl m
 f acier m à outil à carbone
 nl ongelegeerd staal n
 r углеродистая инструментальная сталь f
 AISI W1:
 0,60 – 1,40 % C

- 3.110 e white cast iron
 d weisses Gusseisen n
 f fonte f blanche
 nl wit gietijzer n
 r белый чугуn m



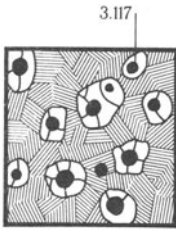
- 3.115 e temper carbon
 d Temperkohle f
 f carbone m de recuit
 nl temperkool f(m)
 r углерод m отжига
 (→ 3.114)

- 3.116 e nodular cast iron
 d Kugelgraphit-Gusseisen n
 f fonte f à haute résistance [à graphite globulaire]
 nl nodulair gietijzer n

- 3.107 e cast iron
 d Gusseisen n
 f fonte f (de fer)
- 3.111 e grey iron
 d graucs Gusseisen n
 f fonte f grise [graphitique]

3.116

г высокопрочный чугу́н м, 3.120
чугу́н с шаровидным гра-
фитом

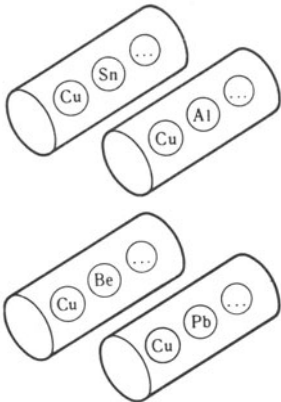


3.117 e spherical graphite
d Kugelgraphit m
f graphite m globulaire
[sphéroïdal]
nl globulair grafiet n
r шаровидный графит м
(→ 3.116)

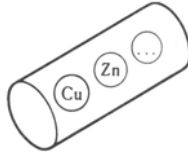
3.118 e nonferrous metal
d Nichteisenmetall n
f métal m non ferreux
nl nonferrometaal n
r цветной металл м
(→ 3.119 – 3.121, 3.123,
3.124)

3.119 e bronze
d Bronze f
f bronze m
nl brons n
r бронза f
SAE N64:
78,5 – 81,5 % Cu
9 – 11 % Sn
9 – 11 % Pb
0,05 – 0,25 % P

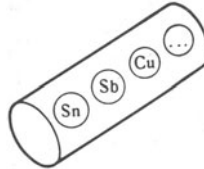
ASTM N3:
83 % Sn
9 % Sb
8 % Cu



e brass
d Messing n
f laiton m
nl messing n
r лату́нь f
SAE N 40:
84 – 86 % Cu
4 – 6 % Sn
4 – 6 % Pb
4 – 6 % Zn

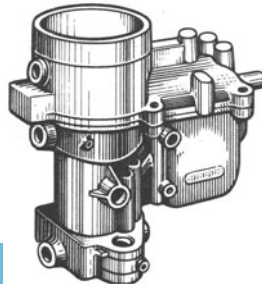


3.121 e babbitt, white metal
d Weissmetall n
f régule m, babbitt m
nl witmetaal n, babbittmetaal
r баббит м

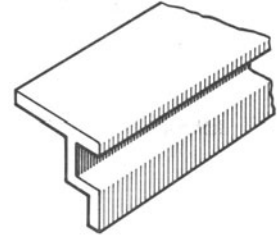


3.122 e aluminium alloy
d Aluminiumlegierung f
f alliage m d'aluminium
nl aluminiumlegering f
r алюми́ниевый сплав м
(→ 3.123, 3.124)

3.123 e aluminium casting alloy
d Aluminiumgusslegierung f
f alliage m d'aluminium de
fonderie [de moulage]
nl aluminiumgietslegering f
r литейный алюми́ниевый
сплав м



3.124 e wrought aluminium alloy
d Aluminiumknetlegierung f
f alliage m d'aluminium de
corroyage [de laminage, de
forge]
nl pletbare aluminiumlege-
ring f
r деформируемый алюми́-
ниевый сплав м
SAE 4032:
85,8 % Al
12,2 % Si
1,1 % Mg
0,9 % Cu

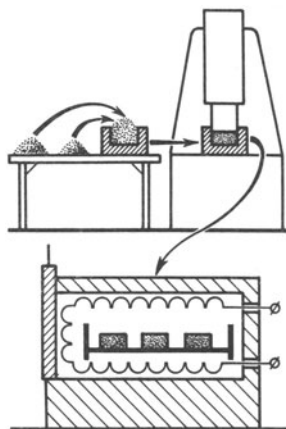


3.125 e duralumin
d Duralumin n
f duralumin m
nl dural(umium) n
r дуралю́мин м
SAE 2024:
93,4 % Al
4,5 % Cu
1,5 % Mg
0,6 % Mn

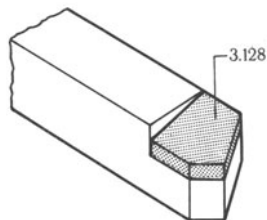
3.126 e magnesium alloy
d Magnesiumlegierung f
f alliage m de magnésium
nl magnesiumlegering f
r магни́евый сплав м
Dow-metal C:
88,9 % Mg
9,0 % Al
2,0 % Zn
0,1 % Mn

3.127 e sintered alloy
d Sintermetall n
f métal m fritté
nl gesinterde legering f,
pseudolegering

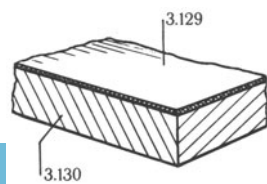
г металллокерамический
сплав м



3.128 e sintered hard alloy, cemen-
ted-carbide composition
d Sinterhartmetall n, Hart-
metall
f alliage m (métallocérami-
que) dur
nl gecementeerd carbide n,
hardmetaal n
г спечённый твёрдый
сплав м



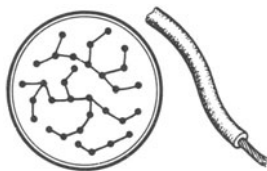
3.129 e coating
d Belag m
f recouvrement m, revête-
ment m
nl bekleding f
г покрытие н



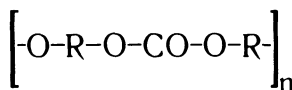
3.130 e basis metal
d Grundmetall n
f métal m de base
nl dragend metaal n
г основной металл м
(→ 3.129)

3.131 e plastic
d Kunststoff m
f matière f plastique,
plastique m
nl plastic n, kunststof f(m)
г пластмасса ф, пластик м
(→ 3.132, 3.140)

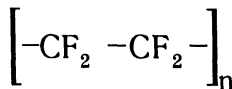
3.132 e thermoplast
d Thermoplast m
f thermoplaste m
nl thermoplast m
г термопласт м
(→ 3.133 – 3.139)



3.133 e polycarbonate
d Polykarbonat n
f polycarbonate m
nl polycarbonaat n
г поликарбонат м

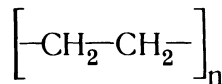


3.134 e polytetrafluorethylene,
PTFE, teflon
d Polytetrafluoräthylen n
f polytétrafluoréthylène m
nl polytetrafluorethyleen n,
PTFE, teflon
г политетрафторэтилен м,
фторопласт-4 м

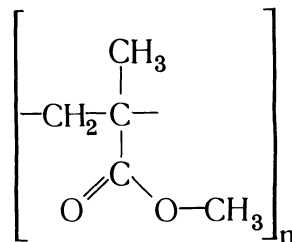


3.135 e polyamide
d Polyamid n
f polyamide m
nl polyamide n
г полиамид м

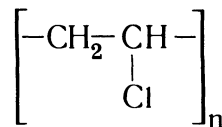
3.136 e polyethylene
d Polyäthylen n
f polyéthylène m
nl polyetheen n
г полиэтилен м



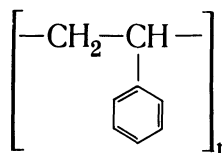
3.137 e polymethylmethacrylate
d Polymethacrylat n
f polyméthacrylate m de
méthyle, plexiglas m
nl polymethylmethacrylaat
n, PMMA
г полиметилметакрилат м,
плексиглас м



3.138 e polyvinylchloride
d Polyvinylchlorid n
f polyvinylchlorure m, chlo-
rure de polyvinyle
nl polyvinylchloride n, PVC
г поливинилхлорид м

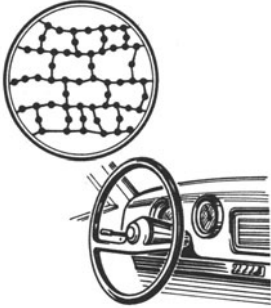


3.139 e polystyrene
d Polystyrol n
f polystyr(ol)ène m
nl polystyreen n
г полистирол м



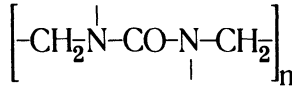
3.140

- 3.140 e thermosetting plastic
 d Duroplast m
 f matière f thermodurcissable
 nl thermohardende kunststof f(m), duroplast m
 r реактопласт m

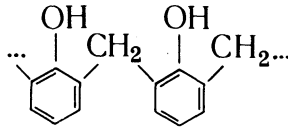


- 3.141 e carbamide plastic
 d Aminoplast m
 f aminoplaste m, plastique m de carbamide
 nl aminoplast m

г аминопласт m, карбамидная пластмасса f

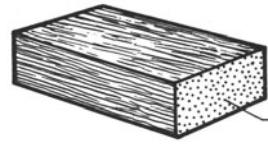


- 3.142 e phenolic plastic
 d Phenoplast m
 f phénoplaste m
 nl fenolformaldehydehars n, m, fenolhars
 r фенопласт m, фенолформальдегидная пластмасса f



- 3.143 e fibrous composite material
 d Faserverbundstoff m
 f tissu m non tissé
 nl textielvlies n

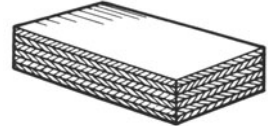
г волокнистый композиционный [комбинированный] материал m



3.144

- 3.144 e fibre
 d Faser f
 f fibre f
 nl vezel f(m)
 r волокно n

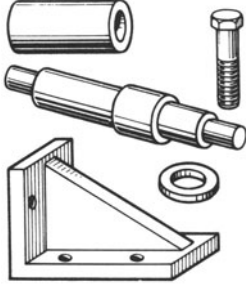
- 3.145 e laminate
 d Schichtstoff m
 f produit m stratifié
 nl gelaagd materiaal n
 r слоистый материал m



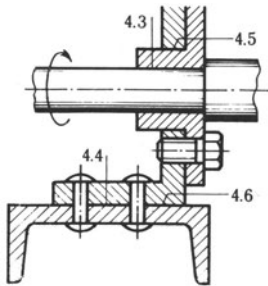
4. MACHINE ELEMENTS MASCHINENELEMENTE ÉLÉMENTS DE MACHINES MACHINEONDERDELEN ДЕТАЛИ МАШИН

General Terms Allgemeine Begriffe Termes généraux Algemene begrippen Общие термины

- 4.1 e part, detail
d Teil m
f pièce f, détail m
nl onderdeel n
r деталь f



- 4.2 e joint
d Verbindung f
f assemblage m, joint m
nl verbinding f
r соединение n



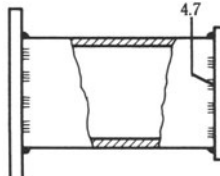
- 4.3 e movable joint
d bewegliche Verbindung f
f assemblage m mobile
nl draaibare verbinding f
r подвижное соединение n
(→ 4.2)

- 4.4 e fixed joint
d unbewegliche Verbindung f
f assemblage m fixe
nl vaste verbinding f
r неподвижное соединение n

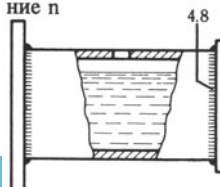
- 4.5 e detachable joint
d lösbare Verbindung f
f assemblage m démontable
nl losneembare verbinding f
r разъёмное соединение n
(→ 4.2)

- 4.6 e permanent joint
d unlösbare Verbindung f
f assemblage m non démontable
nl permanente verbinding f
r неразъёмное соединение n
(→ 4.2)

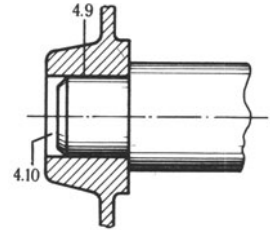
- 4.7 e firm joint
d feste Verbindung f
f assemblage m résistant
nl hechte [stijve] verbinding f
r прочное соединение n



- 4.8 e firm-and-impervious joint
d feste und dichte Verbindung f
f assemblage m résistant étanche
nl stijve en dichte verbinding f
r прочноплотное соединение n

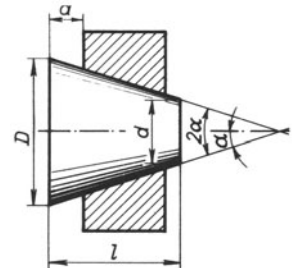


- 4.9 e cylindrical joint
d zylindrische Verbindung f
f assemblage m cylindrique
nl cilinderverbinding f
r цилиндрическое соединение n



- 4.10 e hole, bore
d Bohrung f, Loch n
f orifice m, trou m
nl gat n, opening f
r отверстие n
(→ 4.9)

- 4.11 e conical joint
d Kegelverbindung f
f assemblage m conique
nl konische [tapse] verbinding f
r коническое соединение n



- 4.12 e cone angle (2α)
d Kegelwinkel m (2α)
f angle m du cône (2α)
nl kegelhoek m (2α)
r угол м конуса (2α)
(→ 4.11)

4.13

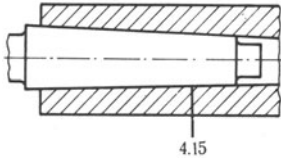
- 4.13 e taper angle (α)
 d Neigungswinkel m (α)
 f angle m de conicité (α)
 nl tapsheidshoek m, hellings-
 hoek (α)
 r угол м уклона (α)
 (→ 4.11)

- 4.14 e taper
 d Kegel m
 f conicité f
 nl tapsheid f, koniciteit f
 r конусность f

$$K = \frac{D - d}{l}$$

(→ 4.11)

- 4.15 e self-holding taper
 d selbsthemmender Kegel m
 f cône m d'autofreinage
 nl zelfklemmende conische
 pen f (m)
 r самотормозящий конус м



- 4.16 e Morse taper
 d Morsekegel m
 f cône m Morse
 nl morse-kegel m
 r конус м Морзе

№	D	K
0	9,045	0,05205
1	12,065	0,04988
2	17,780	0,04995
3	23,825	0,05020
4	31,267	0,05194
5	44,399	0,05263
6	63,348	0,05214

(→ 4.11, 4.14, 4.15)

- 4.17 e metric taper
 d metrischer Kegel m
 f cône m metrique

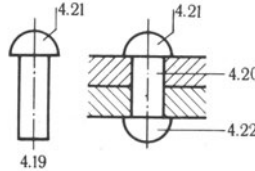
- nl metrische conus m
 r метрический конус м

№	D	K
4	4	0,05
6	6	0,05
80	80	0,05
100	100	0,05
120	120	0,05

(→ 4.11, 4.14, 4.15)

Riveted Joints
Nietverbindungen
Assemblages à rivets
Klinkverbindingen
Заклёпочные соединения

- 4.18 e riveted joint
 d Nietverbindung f
 f assemblage m à rivets, ri-
 vetage m
 nl klinkverbinding f
 r заклёпочное соедине-
 ние n



- 4.19 e rivet
 d Niet m
 f rivet m
 nl klinknagel m
 r заклёпка f
 (→ 4.18)
- 4.20 e rivet shank
 d Nietschaft f
 f tige f du rivet
 nl klinknagelsteel n
 r стержень м заклёпки
 (→ 4.18)
- 4.21 e primary head
 d Setzkopf m
 f tête f première
 nl zetkop m
 r закладная головка f
 (→ 4.18)

- 4.22 e snap head
 d Schliesskopf m
 f tête f de fermeture
 nl sluitkop m
 r замыкающая головка f
 (→ 4.18)



- 4.23 e round [button] head rivet
 d Halbrundniet m
 f rivet m à tête ronde
 nl klinknagel m met ronde
 kop [met snapkop]
 r заклёпка f с полукруг-
 лой головкой

- 4.24 e cone head rivet
 d Kegelstumpfniet m
 f rivet m à tête plate
 nl klinknagel m met vlakke
 [kegelvormige] kop
 r заклёпка f с плоской го-
 ловкой



- 4.25 e oval countersunk head rivet
 d Linsenniet m
 f rivet m à tête fraisée
 bombe
 nl klinknagel m met halfver-
 zonken kop
 r заклёпка f с полупотай-
 ной головкой



- 4.26 e explosive rivet
 d Sprengniet m
 f rivet m explosé
 nl plofnagel m
 r взрывная заклёпка f



- 4.27 e flanged tubular rivet
 d Rohrniet m
 f rivet m creux à tête plate
 nl felsnagel m met door-
 lopend gat

r пустотелая заклёпка f с плоской головкой, пистон m



4.28 e round-flange tubular rivet
d Hohlriet m
f rivet m creux à tête ronde à bavure
nl felsnagel m met ronde kop

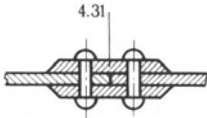
r пустотелая заклёпка f со скруглённой головкой



4.29 e lap (riveted) joint
d Überlappungsniertung f, überlappte Nietung
f rivure f à recouvrement
nl lapnaad m
r соединение n внахлёстку, нахлёсточное (заклёпочное) соединение



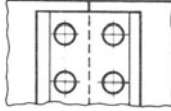
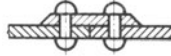
4.30 e butt (riveted) joint
d Laschennietung f
f rivure f à couvre-joint
nl stompe naad m
r (заклёпочное) соединение n встык



4.31 e cover plate
d Lasche f
f couvre-joint m
nl dekplaat f(m)
r накладка f (→ 4.30)

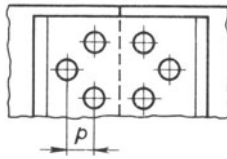
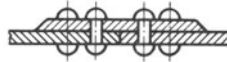
4.32 e single-riveted joint
d einreihige Nietverbindung f [Nietnaht f, Nietung f]
f rivure f à une rangée
nl enkel klinknagelverband n

r однорядное заклёпочное соединение f, однорядный заклёпочный шов m



4.33 e double-riveted joint
d zweireihige Nietverbindung f [Nietnaht f, Nietung f]
f rivure f à double rangée
nl dubbel klinknagelverband n

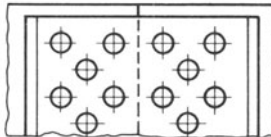
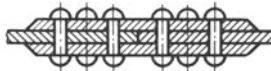
r двухрядное заклёпочное соединение n, двухрядный заклёпочный шов m



4.34 e pitch of a joint (p)
d Nietabstand m, Nietteilung f (p)
f pas m des rivets (p)
nl klinknagelsteek m (p)
r шаг m шва (p) (→ 4.33)

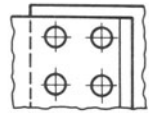
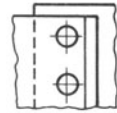
4.35 e triple-riveted joint
d dreireihige Nietverbindung f [Nietnaht f, Nietung f]
f rivure f à triple rangée

nl drievoudig klinknagelverband n
r трёхрядное заклёпочное соединение n, трёхрядный заклёпочный шов m



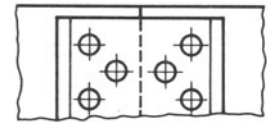
4.36 e single shear (riveted) joint
d einschnittige Nietverbindung f [Nietnaht f, Nietung f]
f rivure f à une coupe

nl enkelsnedig klinknagelverband n, klinknaad m met enkelsnedig belaste klinknagels
r односрезное (заклёпочное) соединение n односрезный (заклёпочный) шов m



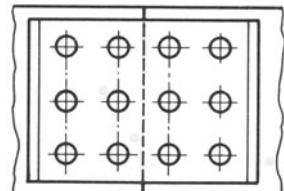
4.37 e double shear (riveted) joint
d zweischnittige Nietverbindung f [Nietnaht f, Nietung f]
f rivure f à deux coupes

nl dubbelsnedig klinknagelverband n
r двухсрезное (заклёпочное) соединение n, двухсрезный (заклёпочный) шов m



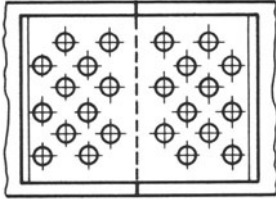
4.38 e parallel-row (riveted) joint
d Kettennietung f, parallele Nietung

f rivure f en parallèle
nl kettingnaad m
r рядовое (заклёпочное) соединение n

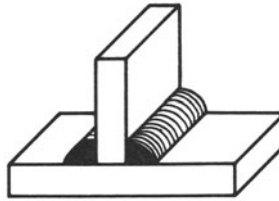


4.39

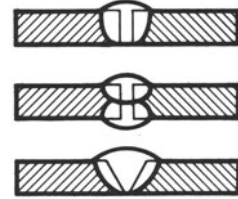
- 4.39 e staggered (riveted) joint
 d Zickzacknietung f, versetzte Nietung
 f rivure f en quinconce
 nl zigzagnaad m
 r шахматное (заклёпочное) соединение n



- 4.43 e T-joint
 d T-Stoss m
 f assemblage m en T
 nl T-naad m
 r тавровое соединение n, соединении втавр



- 4.47 e butt weld
 d Stumpfnahf f
 f soudure f bout à bout
 nl stompe naad m
 r стыковой (сварной) шов m



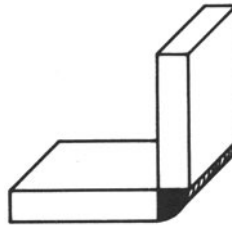
Welded Joints
Schweisverbindungen
Assemblages soudés
Lasverbindingen
Сварные соединения

- 4.40 e welded joint
 d Schweissverbindung f
 f assemblage m soudé, soudure f
 nl lasverbinding f
 r сварное соединение n
 (→ 4.41–4.45)

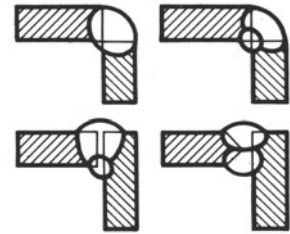
- 4.41 e butt welded joint
 d Stumpfstoss m
 f soudure f bord à bord
 nl stomplas n
 r стыковое сварное соединение n, сварное соединение встык



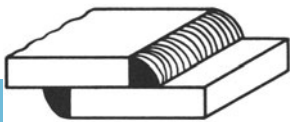
- 4.44 e corner joint
 d Eckstoss m
 f assemblage m en angle
 nl hoeknaad m, buitenhoeknaad
 r угловое соединение n



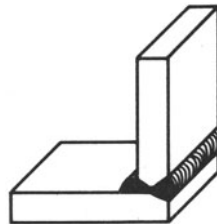
- 4.48 e corner [fillet] weld
 d Kehlnahf f
 f soudure f d'angle
 nl hoeklas f(m)
 r угловой (сварной) шов m



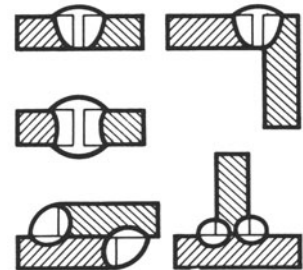
- 4.42 e lap welded joint
 d Überlappstoss m
 f soudure f à clin
 nl overlapas f (m)
 r нахлесточное сварное соединение n



- 4.45 e butt corner joint
 d Eck-Stumpfstoss m
 f assemblage m d'angle en about
 nl stompe hoeknaad m
 r угловое соединение n впритык, угловое стыковое соединение



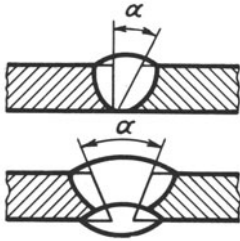
- 4.49 e square-face weld
 d I-Nahf f
 f soudure f sans chanfrein
 nl I-naad m
 r бескосный (сварной) шов m



- 4.46 e weld
 d Schweissnaht f
 f soudure f
 nl las f (m), lasplaats f(m)
 r сварной шов m

- 4.50 e bevel weld
 d Gehrungsnahf f
 f soudure f à chanfrein

nl versteklas f (m)
r (сварной) шов m со ско-
сом кромок



4.51 e bevel angle (α)
d Öffnungswinkel m (α)
f angle m du chanfrein (α)
nl openingshoek m (α)
r угол m разделки кро-
мок, угол раскрытия
шва (α)
(→ 4.50)

4.52 e single-V weld
d V-Naht f
f soudure f à V
nl open V-naad m
r V-образный (сварной)
шов m



4.53 e single-bevel weld
d Halb-V-Naht f, HV-Naht
f soudure f à V asymétrique
nl halve V-naad m
r V-образный несиммет-
ричный (сварной) шов m



4.54 e double-bevel groove weld
d K-Naht f
f soudure f à K
nl K-las f(m)
r K-образный (сварной)
шов m



4.55 e double-V weld
d X-Naht f
f soudure f à X
nl X-las f(m)
r X-образный (сварной)
шов m



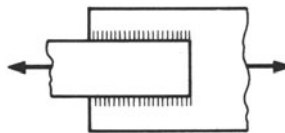
4.56 e single-U weld
d U-Naht f
f soudure f à U
nl kelknaad m
r U-образный (сварной)
шов m



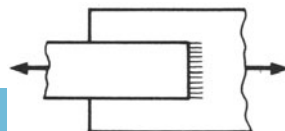
4.57 e double-U butt weld
d Doppel-U-Naht f
f soudure f frontale à U
double
nl dubbele kelknaad m
r U-образный двусторон-
ний стыковой (сварной)
шов m



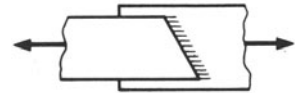
4.58 e side lap [parallel fillet] weld
d Flankenkehlnaht f
f soudure f latérale
nl flanklas f(m)
r фланговый (сварной)
шов m



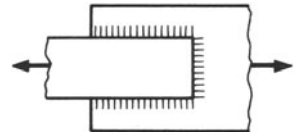
4.59 e end lap [normal fillet] weld
d Stirnkehlnaht f
f soudure f frontale
nl eindlaplas f(m), eindnaad m
r лобовой (сварной) шов m



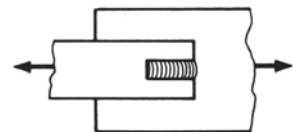
4.60 e oblique lap weld
d Schiefnaht f
f soudure f inclinée
nl schuine las f(m)
r косой (сварной) шов m



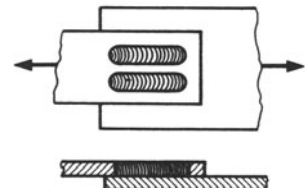
4.61 e end-and-side lap weld
d Stirn- und Flankenkehlnaht f
f soudure f combinée
nl volle laplas f(m)
r комбинированный (свар-
ной) шов m



4.62 e slot lap weld
d Langlochnaht f
f soudure f à entaille
nl sleuflas f(m)
r прорезной (сварной)
шов m

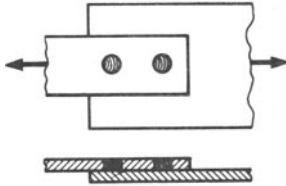


4.63 e transfusion weld
d Durchschmelzungsnaht f
f soudure f à fusion
nl doordruklas f(m)
r проплавной шов m

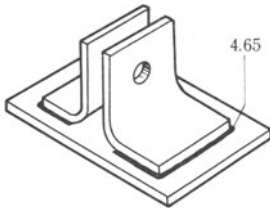


4.64

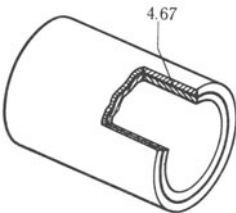
- 4.64 e plug lap weld
 d Lochnaht f
 f soudure f en bouchon
 nl proplas f (m)
 r пробочный (сварной) шов m



- 4.65 e soldered joint
 d Lötverbindung f
 f joint m brasé
 nl soldeerverbinding f
 r паяное соединение n



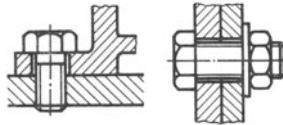
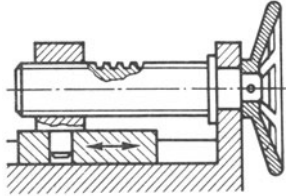
- 4.66 e glued [adhesive] joint
 d Klebverbindung f
 f assemblage m collé
 nl lijmverbinding f, kitverbinding
 r клевое.соединение n



- 4.67 e adhesive
 d Klebstoff m
 f colle f, adhésif m
 nl lijm m, kit f (m)
 r клей m

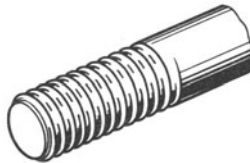
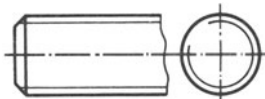
Threaded Joints
Schraubenverbindungen
Assemblages par filets
Schroefverbindingen
Резьбовые соединения

- 4.68 e threaded joint
 d Schraubenverbindung f
 f assemblage m par filet
 nl schroefverbinding f
 r резьбовое соединение n



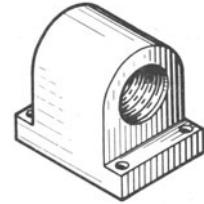
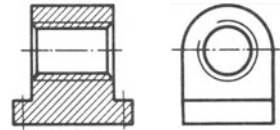
- 4.69 e thread
 d Gewinde n
 f filet m
 nl schroefdraad m
 r резьба f
 (→ 4.70 – 4.75)

- 4.70 e external thread
 d Aussengewinde n
 f filet m extérieur
 nl buitenschroefdraad m
 r наружная резьба f

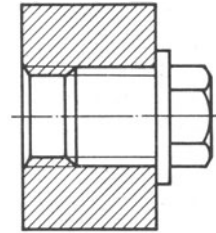


- 4.71 e internal thread
 d Innengewinde n
 f filet m intérieur

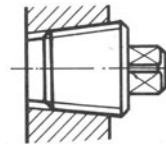
- nl binnenschroefdraad m
 r внутренняя резьба f



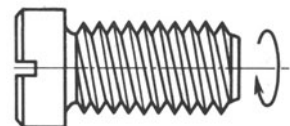
- 4.72 e cylindrical thread
 d zylindrisches Gewinde n
 f filet m cylindrique
 nl cilindrische schroefdraad m
 r цилиндрическая резьба f



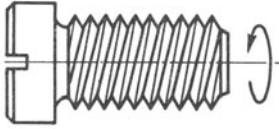
- 4.73 e taper thread
 d kegeliges Gewinde n
 f filet m conique
 nl tapse [konische] schroefdraad m
 r коническая резьба f



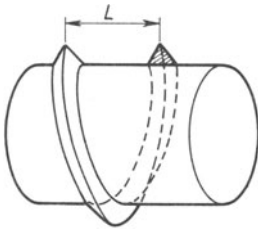
- 4.74 e right-hand thread
 d Rechtsgewinde n
 f filet m à droite
 nl rechtse schroefdraad m
 r правая резьба f



- 4.75 e left-hand thread
 d Linksgewinde n
 f filet m à gauche
 nl linkse schroefdraad m
 r левая резьба f

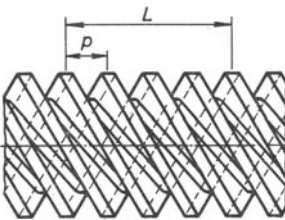


- 4.76 e turn of thread
 d Gewindegang m
 f spire f de filet [de vis]
 nl gang m
 r виток m резьбы



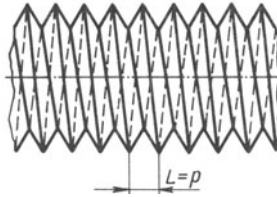
- 4.77 e lead of thread (L)
 d Gewindesteigung f (L)
 f pas m du filet, course f de filetage (L)
 nl spoed m (L)
 r ход m резьбы (L)
 (→ 4.76)

- 4.78 e multiple-start thread
 d mehrgängiges Gewinde n
 f filet m multiple
 nl meervoudige schroefdraad m
 r многозаходная резьба f

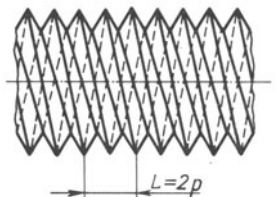


- 4.79 e pitch of thread (p)
 d Gewindeteilung f (p)
 f pas m du filet (p)
 nl steek m
 r шаг m резьбы (p)
 (→ 4.78)

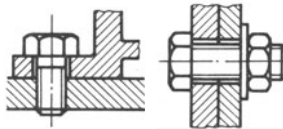
- 4.80 e single-start thread
 d eingängiges Gewinde n
 f filet m au pas unique
 nl enkelvoudige schroefdraad m
 r однозаходная [одноходовая] резьба f



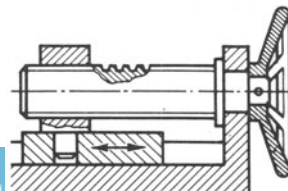
- 4.81 e double-start thread
 d zweigängiges Gewinde n
 f filet m à deux pas
 nl dubbele schroefdraad m
 r двухзаходная резьба f



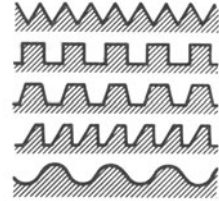
- 4.82 e fastener thread
 d Befestigungsgewinde n
 f filet m de fixation
 nl bevestigingsschroefdraad m
 r крепёжная резьба f



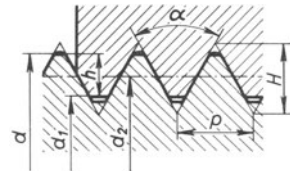
- 4.83 e translation (screw) thread, power screw thread
 d Bewegungsgewinde n
 f filet m du mouvement
 nl bewegingsschroefdraad m
 r ходовая резьба f



- 4.84 e thread profile
 d Gewindepprofil n
 f profil m du filet
 nl schroefdraadprofiel n
 r профиль m резьбы



- 4.85 e triangular thread, V-thread
 d Spitzgewinde n
 f filet m triangulaire
 nl driehoekige schroefdraad m
 r треугольная резьба f



- 4.86 e major diameter of thread (d)
 d Gewindeaussendurchmesser m (d)
 f diamètre m extérieur du filet (d)
 nl buitenmiddellijn $f(m)$ [uitwendige middellijn] van een schroefdraad (d)
 r наружный диаметр m резьбы (d)
 (→ 4.85)

- 4.87 e minor diameter of thread (d_1)
 d Gewindekerndurchmesser m , Kerndurchmesser (d_1)
 f diamètre m intérieur du filet (d_1)
 nl kernmiddellijn $f(m)$ (d_1)
 r внутренний диаметр m резьбы (d_1)
 (→ 4.85)

- 4.88 e pitch diameter of thread (d_2)
 d Gewindeflankendurchmesser m , Flankendurchmesser (d_2)
 f diamètre m à flanc de filet (d_2)

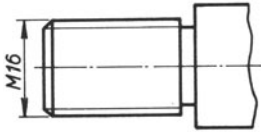
nl flankmiddellijn *f* (m)
 r средний диаметр *m* резьбы (d_2)
 (→ 4.85)

4.89 e depth of basic profile (*H*)
 d Gewindetiefe *f* (*H*)
 f creux *m* du filet initial (*H*)
 nl nominale profieldiepte *f* (*H*)
 r высота *f* исходного профиля (*H*)
 (→ 4.85)

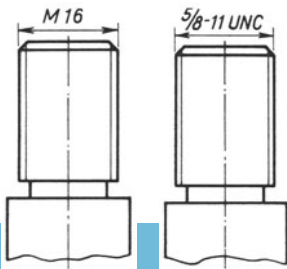
4.90 e depth of thread (*h*)
 d Gewindetragtiefe *f* (*h*)
 f creux *m* du filet (*h*)
 nl effectieve profieldiepte *f* (*h*)
 r рабочая высота *f* профиля (*h*)
 (→ 4.85)

4.91 e angle of thread (α)
 d Flankenwinkel *m* (α)
 f angle *m* du filet (α)
 nl flankhoek *m* (α)
 r угол *m* профиля (α)
 (→ 4.85)

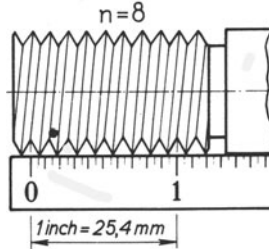
4.92 e metric thread
 d metrisches Gewinde *n*
 f filet *m* métrique
 nl metrische schroefdraad *m*
 r метрическая резьба *f*
 $d = \dots \text{ mm}, p = \dots \text{ mm}$
 (→ 4.85)



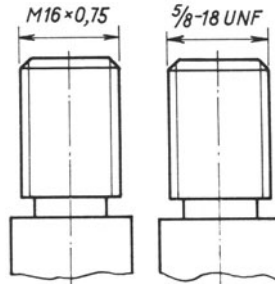
4.93 e coarse (pitch) thread
 d Regelgewinde *n*
 f filet *m* à long pas
 nl grove schroefdraad *m*
 r крупная резьба *f*, резьба с крупным шагом



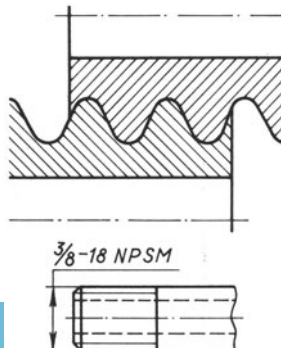
4.94 e number of threads per inch (*n*)
 d Gangzahl *f* auf 1 Zoll (*n*)
 f nombre *m* de filets par pouce (*n*)
 nl aantal *n* gangen per inch
 r число *n* ниток на дюйм (*n*)



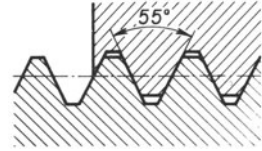
4.95 e fine (pitch) thread
 d Feingewinde *n*
 f filet *m* fin
 nl fijne schroefdraad *m*
 r мелкая резьба *f*, резьба с мелким шагом



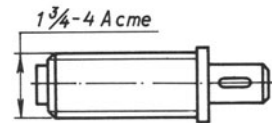
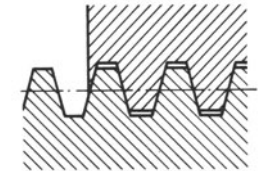
4.96 e pipe thread
 d Rohrgewinde *n*
 f filet *m* au pas du gaz
 nl pijpschroefdraad *m*
 r трубная резьба *f*



4.97 e Whitworth thread
 d Whitworth-Gewinde *n*
 f filet *m* Whitworth
 nl Whitworth-(schroef)draad *m*
 r (дюймовая) резьба *f* Витворта

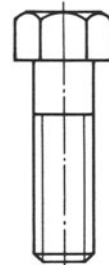


4.98 e Acme thread
 d Trapezgewinde *n*
 f filet *m* trapézoïdal
 nl trapeziumdraad *m*
 r трапецидальная резьба *f*

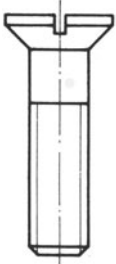


4.99 e screw
 d Schraube *f*
 f vis *f*
 nl schroef *m*, bout *m*
 r винт *m*
 (→ 4.100–4.108, 4.117)

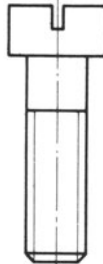
4.100 e hexagonal head screw
 d Sechskantschraube *f*
 f vis *f* à tête hexagonale
 nl zeskantbout *m*, zeskantschroef *f*(m)
 r винт *m* с шестигранной головкой



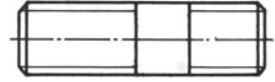
- 4.101 e countersunk-head screw
 d Senkschraube f
 f vis f à tête noyée
 nl schroef f(m) [bout m] met
 verzonken kop
 r винт m с потайной го-
 ловкой



- 4.104 e cheese-head screw
 d Zylinderschraube f
 f vis f à tête cylindrique
 nl schroef f(m) met brede
 cilindervormige kop
 r винт m с цилиндрической
 головкой



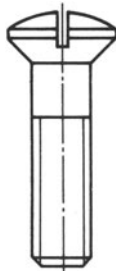
- 4.107 e stud, stud-bolt
 d Stiftschraube f
 f goujon m
 nl tapeind n
 r шпилька f



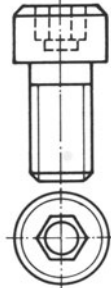
- 4.108 e eye-bolt
 d Ringschraube f
 f vis f à œil
 nl oogbout m
 r рым-болт m



- 4.102 e oval-head screw
 d Linsensensschraube f
 f vis f à tête semi-noyée
 nl schroef m met lenskop
 r винт m с полупотайной
 головкой

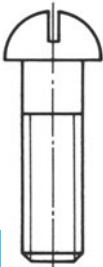


- 4.105 e hexagon-socket head screw
 d Zylinderschraube f mit
 Innensechskant
 f vis f a six pans creuse
 nl imbusbout m
 r винт m с шестигранным
 углублением под ключ
 [с внутренним шестигран-
 ником]

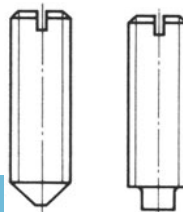


- 4.109 e nut
 d Mutter f
 f écrou m
 nl moer f(m)
 r гайка f
 (→ 4.110–4.112)

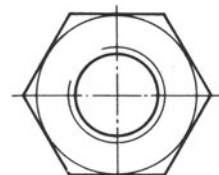
- 4.103 e round-head screw
 d Halbrundschrabe f
 f vis f à tête bombée
 nl schroef f(m) met ronde kop
 r винт m с полукруглой
 головкой



- 4.106 e set screw
 d Gewindestift m
 f vis f d'ajustage
 nl stelschroef f(m)
 r установочный винт m

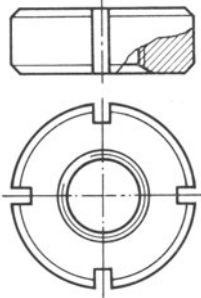


- 4.110 e hexagonal nut
 d Sechskantmutter f
 f écrou m hexagonal
 nl zeskantmoer f(m)
 r шестигранная гайка f

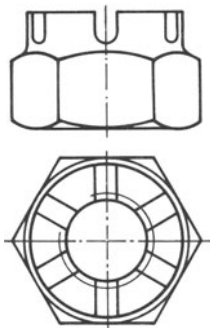


4.111

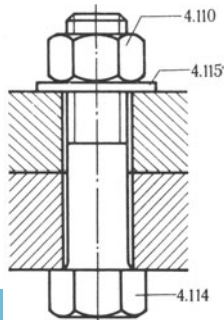
- 4.111 e round nut
 d Rundmutter f
 f écrou m rond
 nl ronde moer f(m)
 r круглая гайка f



- 4.112 e castle nut
 d Kronenmutter f
 f écrou m à créneaux
 nl kroonmoer f(m)
 r корончатая гайка f



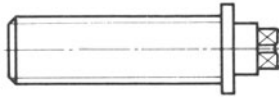
- 4.113 e bolt joint
 d Durchsteckschraubenver-
 bindung f
 f assemblage m boulonné
 nl boutverbinding f
 r болтовое соединение n



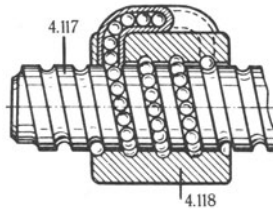
- 4.114 e bolt
 d Durchsteckschraube f
 f boulon m
 nl bout m, schroef f(m)
 r болт m
 (→ 4.113)

- 4.115 e washer
 d Unterlegscheibe f, Scheibe
 f rondelle f
 nl onderlegplaat f(m), sluit-
 ring m, onderlegging
 r шайба f
 (→ 4.113)

- 4.116 e translation [power] screw
 d Bewegungsschraube f, Spin-
 del f
 f vis f de mouvement
 nl bewegingsschroef f(m)
 r ходовой винт m



- 4.117 e ball circulating screw
 d Kugelumlaufspindel f
 f vis f à billes
 nl kogelomloopspil f(m)
 r шариковый ходовой
 винт m

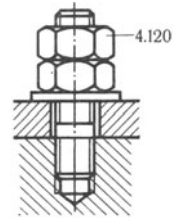


- 4.118 e ball circulating nut
 d Kugelumlaufmutter f
 f écrou m à billes
 nl kogelomloopmoer f(m)
 r шариковая гайка f
 (→ 4.117)

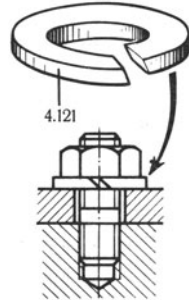
- 4.119 e locking
 d Sicherung f
 f blocage m, verrouillage m
 nl borging f
 r стопорение n
 (→ 4.120–4.123)

- 4.120 e locknut
 d Gegenmutter f
 f contre-écrou m

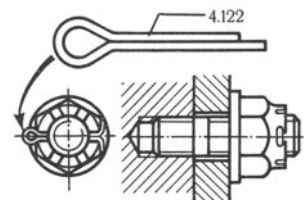
- nl contraoer f (m), borg-
 moer
 r контргайка f



- 4.121 e spring lock washer
 d Federring m
 f rondelle f à ressort
 nl verende onderlegging m,
 veerring
 r пружинная шайба f

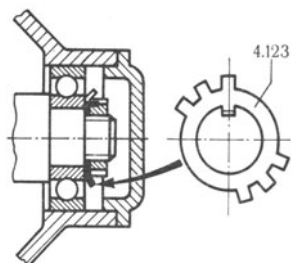


- 4.122 e cotter pin
 d Splint m
 f goupille f fendue
 nl splitpen f (m)
 r шплинт m

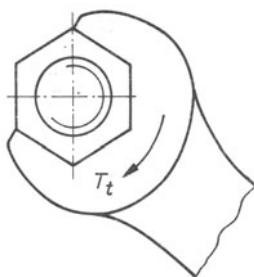


- 4.123 e toothed [castle] washer
 d Zahnscheibe f
 f rondelle f découpée
 nl getande onderlegging m

г стопорная многолапчатая шайба f



4.124 e tightening
d Anziehen n
f serrage m
nl aantrekken n, aandraaien n
г затяжка f

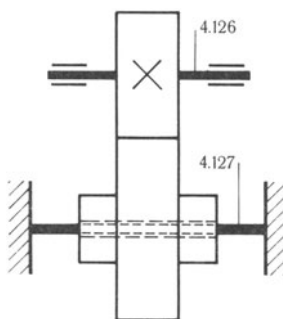


4.125 e tightening torque (T_t)
d Anziehungsmoment n, Anzugsmoment (T_t)
f couple m de serrage (T_t)
nl aandraaimoment n, vastzetmoment (T_t)
г вращающий момент m затяжки (T_t)
(→ 4.124)

Shafts and Axles Wellen und Achsen Arbres et axes Assen Валы и оси

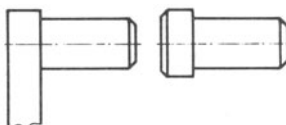
4.126 e shaft
d Welle f
f arbre m

nl as f(m)
г вал m



4.127 e axle
d Achse f
f axe m
nl as f(m)
г ось f
(→ 4.126)

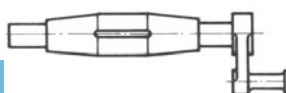
4.128 e pin, collar pin
d Bolzen m
f doigt m
nl pen f(m), tap m
г палец m



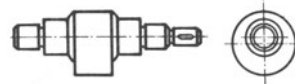
4.129 e crankshaft
d Kurbelwelle f
f vilebrequin m
nl kruk f(m)
г коленчатый вал m



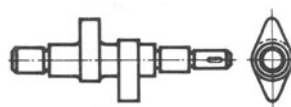
4.130 e single-throw crankshaft
d einfach gekröpfte Kurbelwelle f
f arbre m coudé
nl kruk f (m) met één kruk
г кривошипный вал m



4.131 e eccentric shaft
d Exzenterwelle f
f arbre m à excentrique
nl excentriekas f(m)
г эксцентриковый вал m



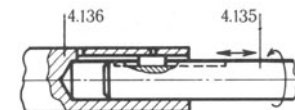
4.132 e camshaft
d Nockenwelle f
f arbre m à cames
nl nokkenas f(m)
г кулачковый вал m



4.133 e flexible shaft
d biegsame Welle f
f arbre m flexible
nl buigbare [flexibele] as f(m)
г гибкий вал m



4.134 e telescope shaft
d Teleskopwelle f
f arbre m télescopique
nl telescopische [uitschuifbare] as f(m)
г телескопический вал m



4.135 e solid shaft
d Vollwelle f
f arbre m plein
nl massieve as f(m)
г сплошной вал m
(→ 4.134)

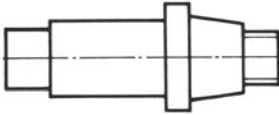
4.136 e hollow shaft
d Hohlwelle f
f arbre m creux
nl holle as f(m)
г полый вал m
(→ 4.134)

4.137

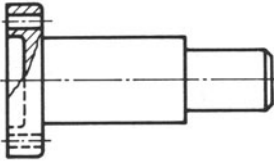
- 4.137 e cardan shaft
 d Gelenkwelle f, Kardanwelle
 f arbre m à cardan
 nl cardanas f
 r карданный [шарнирный] вал m



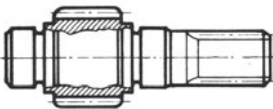
- 4.138 e stepped shaft
 d Absatzwelle f
 f arbre m à gradins
 nl faconas f(m)
 r ступенчатый вал m



- 4.139 e flanged shaft
 d Flanschwelle f
 f arbre m à brides
 nl flensas f(m)
 r фланцевый вал m

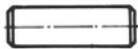


- 4.140 e pinion-shaft
 d Ritzelwelle f
 f arbre-pignon m
 nl rondselas f(m)
 r вал-шестерня m



- 4.141 e pin
 d Stift m
 f goupille f
 nl pen f(m), stift f(m)
 r штифт m
 (→ 4.142, 4.143)

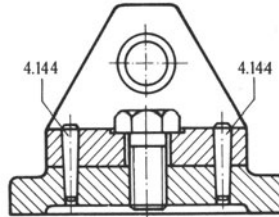
- 4.142 e dowel pin
 d Zylinderstift f
 f goupille f cylindrique
 nl montagepen f(m)
 r цилиндрический штифт m



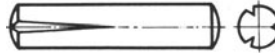
- 4.143 e taper pin
 d Kegelstift m
 f goupille f conique
 nl tapse pen f(m)
 r конический штифт m



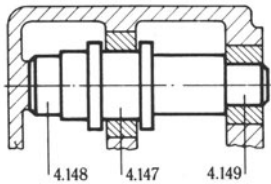
- 4.144 e alignment pin
 d Zentrierstift m
 f goupille f de fixation
 nl centreerpen f(m), centreertap m
 r установочный штифт m



- 4.145 e grooved straight pin
 d Kerbstift m
 f goupille f cannelée
 nl kerfstift f(m)
 r насечной штифт m



- 4.146 e (shaft)journal
 d Zapfen m
 f tourillon m, tourillon à collets
 nl astap f(m)
 r шейка f (вала), цапфа f

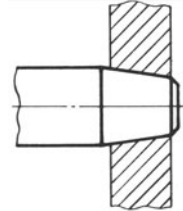


- 4.147 e neck journal
 d Halszapfen m
 f tourillon m intermédiaire
 nl halstap f(m)
 r промежуточная шейка f
 (→ 4.146)

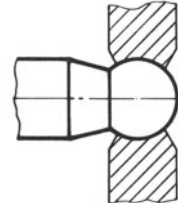
- 4.148 e thrust journal
 d Spurzapfen m
 f tourillon m de butée
 nl kraagtap f(m)
 r пята f
 (→ 4.146)

- 4.149 e end journal
 d Stirnzapfen m
 f tourillon m fini
 nl eindtap f(m)
 r концевая шейка f
 (→ 4.146)

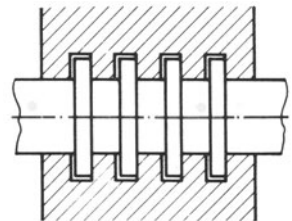
- 4.150 e taper journal
 d Kegelzapfen m
 f tourillon m conique
 nl kegelvormige [tapse] tap f(m)
 r коническая цапфа f



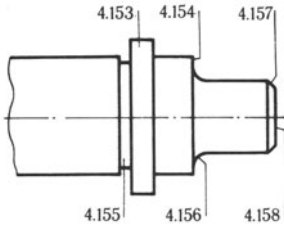
- 4.151 e spherical journal
 d Kugelzapfen m
 f tourillon m sphérique
 nl kogeltap f(m)
 r шаровая цапфа f



- 4.152 e collar journal
 d Kammzapfen m
 f tourillon m cannelé
 nl kraagtap f(m), kamtap
 r гребенчатая цапфа f



- 4.153 e collar
 d Bund m
 f bourrelet m
 nl kraag m
 r буртик m



- 4.154 e shoulder
 d Schulter f, Absatz m
 f épaulement m
 nl borst f (m)
 r заплечик m, уступ m
 (→ 4.153)

- 4.155 e groove
 d Nut f, Rille f
 f rainure f
 nl groef f(m)
 r канавка f, выточка f, проточка f
 (→ 4.153)

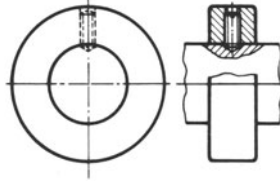
- 4.156 e fillet
 d Kehle f
 f congé m
 nl keel f(m)
 r галтель f
 (→ 4.153)

- 4.157 e chamfer
 d Fase f
 f chanfrein m
 nl afschuining f, schuine kant m
 r фаска f
 (→ 4.153)

- 4.158 e face
 d Stirnfläche f
 f about m
 nl korse vlak n
 r торец m
 (→ 4.153)

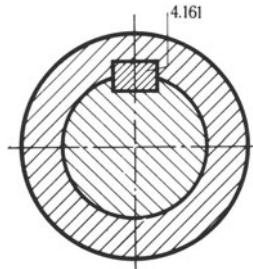
- 4.159 e setting ring
 d Stelling m
 f bague f de calage

- nl stelring m
 r установочное кольцо n



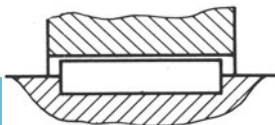
Key and Spline Joints
Keil-Passfeder- und Keilwellen-
verbindungen
Clavetages et cannelures
Spieverbindingen en -vertan-
dingen
Шпоночные и шлицевые
соединения

- 4.160 e key joint
 d Passfederverbindung f, Längskeilverbinding f
 f assemblage m a clavette, clavetage m
 nl spieverbinding f
 r шпоночное соединение n

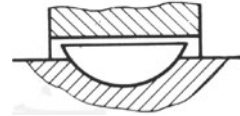


- 4.161 e key
 d Passfeder f, Längskeil m
 f clavette f
 nl spie f(m), wig f(m)
 r шпонка f
 (→ 4.160)

- 4.162 e straight sunk key, parallel key
 d Passfeder f
 f clavette f parallèle
 nl prismaspie f(m), passpie
 r призматическая шпонка f

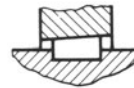


- 4.163 e Woodruff key
 d Scheibenfeder f
 f clavette f disque
 nl schijfspie f (m), Woodruffspie
 r сегментная шпонка f

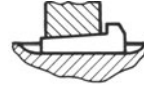


- 4.164 e taper key
 d Längskeil m
 f clavette f inclinée
 nl tapse spie f(m)
 r клиновья шпонка f
 (→ 4.165 – 4.168)

- 4.165 e taper sunk key
 d Einlegekeil m
 f clavette f inclinée encastree
 nl tapse inlegspie f(m), verzonken tapse spie
 r врезная клиновья шпонка f



- 4.166 e gib head taper key
 d Nasenskeil m
 f clavette f inclinée à talon
 nl kopspie f(m)
 r клиновья шпонка f с головкой



- 4.167 e flat key
 d Nasenflachkeil m
 f clavette f inclinée plate
 nl platte kopspie f (m)
 r клиновья шпонка f на лыске

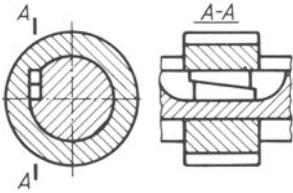


- 4.168 e saddle key
 d Nasenhohlkeil m
 f clavette f évidée [creuse]
 nl holle spie f(m)
 r фрикционная шпонка f

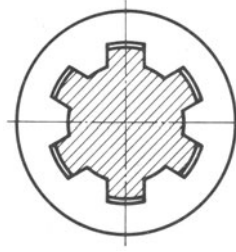


4.169

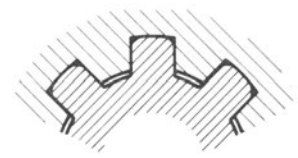
- 4.169 e tangential key
 d Tangentkeil m
 f clavette f tangente
 nl tangentialaalspie f (m)
 r тангенциальная шпонка f



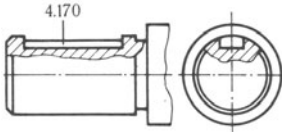
- г прямоугольное шлицевое
 соединение n



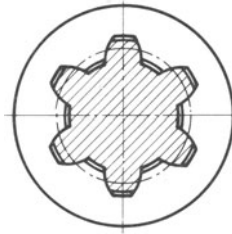
- г центрирование n по на-
 ружному диаметру



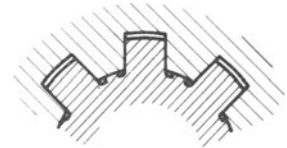
- 4.170 e keyway, keyseat
 d Federnut f, Keilnut
 f rainure f de clavetage
 nl spiesleuf f(m), spiebaan
 f(m)
 r шпоночный паз m, шпо-
 ночная канавка f



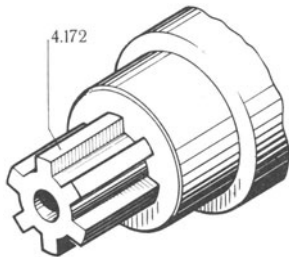
- 4.174 e involute spline joint
 d Zahnwellenverbindung f
 mit Evolventenflanken
 f cannelures f *pl* à flancs en
 développante
 nl evolvente spieverbinding f
 r эвольвентное шлицевое
 соединение n



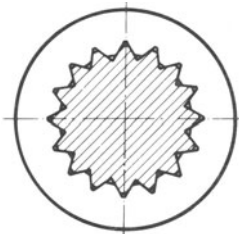
- 4.177 e minor-diameter fit
 d Innenzentrierung f
 f centrage m intérieur
 nl binnencentring f
 r центрирование n по внут-
 реннему диаметру



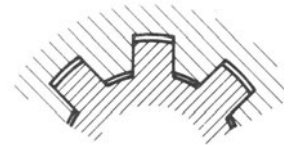
- 4.171 e spline joint
 d Keilwellenverbindung f
 f joint m à cannelures, can-
 nelures f *pl*
 nl spieverbinding f
 r шлицевое соединение n



- 4.175 e serrated joint
 d Zahnwellenverbindung f
 mit Kerbzahnprofil
 f cannelures f *pl* à flancs
 triangulaires
 nl getande spieverbinding f
 r треугольное шлицевое
 соединение n



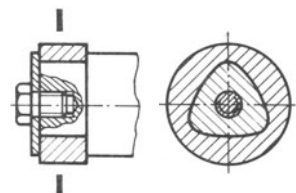
- 4.178 e side-bearing fit
 d Flankenzentrierung f
 f centrage m sur flancs
 nl flankcentring f
 r центрирование n по бо-
 ковым сторонам



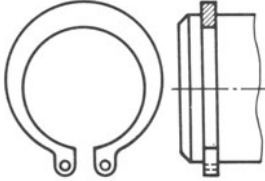
- 4.172 e spline shaft
 d Keilwelle f
 f arbre m cannelé
 nl spieas f (m)
 r шлицевый вал m
 (→ 4.171)

- 4.173 e straight spline joint
 d Keilwellenverbindung f mit
 geraden Flanken
 f cannelures f *pl* à flancs pa-
 rallèles
 nl vlakke spieverbinding f

- 4.176 e major-diameter fit
 d Aussenzentrierung f
 f centrage m extérieur
 nl buitencentring f

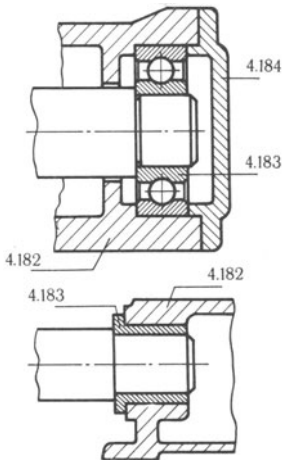


- 4.180 e retaining ring
 d Sicherungsring m
 f bague f d'arrêt ressort
 nl opsluitring m
 r пружинное стопорное кольцо n



Supports and Bearings
Lagerungen und Lager
Appuis et paliers
Lagersteunen en lagers
Опоры и подшипники

- 4.181 e support
 d Lagerung f
 f appui m
 nl lagerblok n, lagersteun m
 r подшипниковый узел m



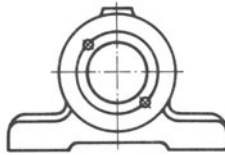
- 4.182 e housing
 d Gehäuse n, Körper m
 f corps m
 nl huis n, lagerhuis
 r корпус m
 (→ 4.181)

- 4.183 e (journal) bearing
 d Lager n
 f palier m

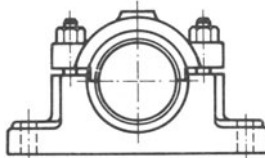
- nl lager n, kussenblok m
 r подшипник m
 (→ 4.181)

- 4.184 e cover
 d Deckel m
 f couvercle m
 nl (lager)kap f(m)
 r крышка f
 (→ 4.181)

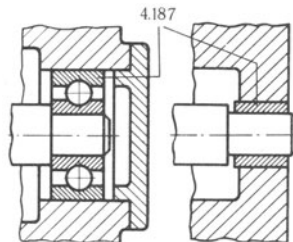
- 4.185 e solid housing
 d Augenlager n
 f corps m tout d'une pièce
 nl lagerhuis n uit één stuk
 r неразъёмный корпус m



- 4.186 e split housing
 d geteïltes Gehäuse n
 f corps m en plusieurs pièces
 nl gedeeld (lager)huis n
 r разъёмный корпус m

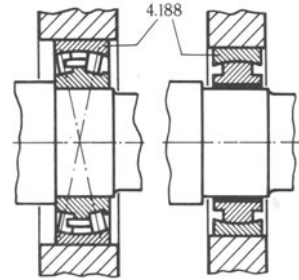


- 4.187 e radial bearing
 d Traglager n, Querlager, Radiallager
 f palier m radial
 nl radiaallager n
 r радиальный подшипник m

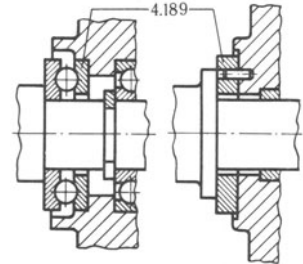


- 4.188 e self-aligning bearing
 d einstellbares Lager n
 f palier m à réglage automatique
 nl zelfinstellend lager n

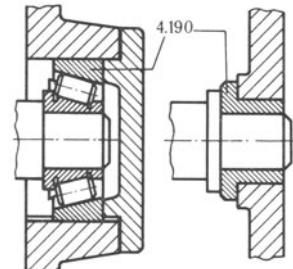
- г самоустанавливающийся подшипник m



- 4.189 e thrust bearing
 d Stützlager n, Längslager, Axiallager
 f palier m de butée
 nl axiaallager n, druklager
 r упорный подшипник m

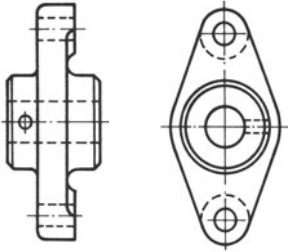


- 4.190 e radial and thrust bearing
 d Trag- und Stützlager n, Quer- und Längslager, Radial- und Axiallager
 f palier m radial de butée
 nl dwarsdrukager n
 r радиально-упорный подшипник m

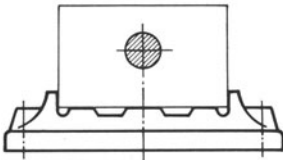


4.191

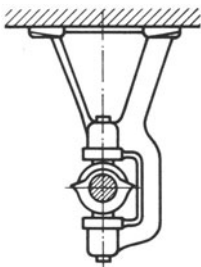
- 4.191 e flange bearing
 d Flanschlager n
 f palier m à flasque
 nl flenslager n, kraaglager
 r фланцевый подшипник
 m, фланцевая опора f



- 4.192 e base plate
 d Sohlplatte f
 f plaque f d'appui
 nl oplegplaat f(m), steun-
 plaat, draagplaat
 r опорная плита f

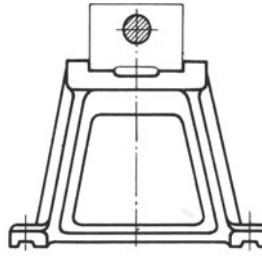


- 4.193 e hanger
 d Hängelager n
 f suspension f
 nl hangende drager n, op-
 hanging f
 r подвесная опора f, под-
 веска f

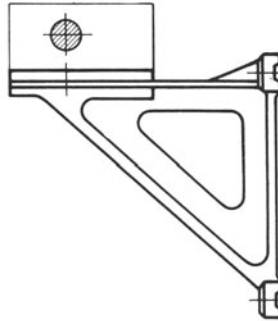


- 4.194 e bearing base
 d Lagerbock m
 f poteau m d'appui

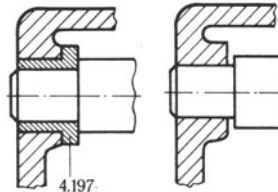
- nl lagerstoel m
 r (опорная) стойка f



- 4.195 e bracket
 d Kragstütze f, Wandarm m
 f console f
 nl console f, oplegsteun m
 r кронштейн m

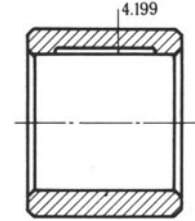


- 4.196 e sliding [plain] bearing
 d Gleitlager n
 f palier m lisse
 nl glijlager n
 r подшипник n скольжения

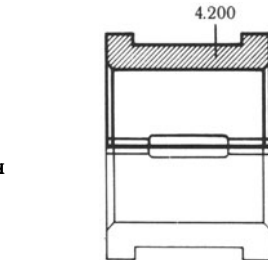


- 4.197 e bearing shell [liner]
 d Lagerbuchse f
 f coquille f de palier, cou-
 sinet m
 nl lagerschaal f(m), kussen n,
 lagervoering f
 r вкладыш m подшипника
 (скольжения)
 (→ 4.196)

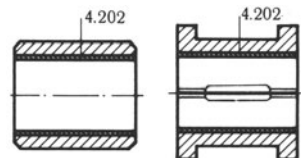
- 4.198 e bearing bush(ing)
 d ungeteilte Lagerbuchse f
 f bague f de palier
 nl lagerbus f(m)
 r втулка f подшипника
 (скольжения), подшип-
 никова втулка



- 4.199 e oil groove
 d Schmiernut f
 f rainure f de graissage
 nl oliegroef f(m)
 r смазочная канавка f
 (→ 4.198)
 4.200 e split bearing shell, bearing
 half-liner
 d Lagerschale f
 f demi-coussinet m
 nl gedeelde lagerschaal f(m),
 gedeeld kussen n
 r полувакладыш m подшип-
 ника (скольжения)

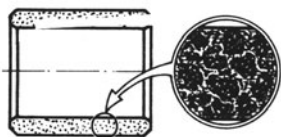


- 4.201 e bimetal shell
 d Verbundbuchse f, Verbund-
 schale f
 f coussinet m bimétal
 nl lagerschaal n van bimetaal
 r биметаллический вкла-
 дыш m

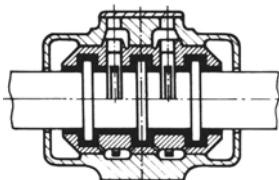


4.202 e antifriction lining
 d Laufschrift f
 f couche f antifriction
 nl antifrictievoering f, antifrictielaag f(m)
 r антифрикционный слой m
 (→ 4.201)

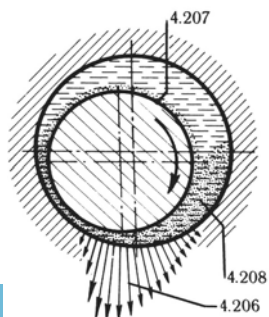
4.203 e self-lubricating [oilless] bearing
 d selbstschmierendes Lager n
 f palier m autolubrifiant
 nl zelfsmierend lager n
 r самосмазывающийся подшипник m



4.204 e collar thrust bearing
 d Kammlager n
 f palier m à cannelures
 nl kraaglager n
 r гребенчатый подшипник m



4.205 e hydrodynamic bearing
 d hydrodynamisches Lager m
 f palier m hydrodynamique
 nl hydrodynamisch lager n
 r гидродинамический подшипник m

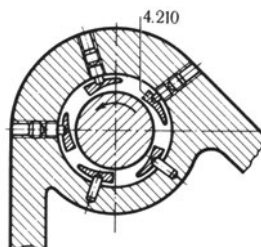


4.206 e pressure diagram
 d Flächenpressungsverlauf m, Druckverlauf
 f diagramme m des pressions
 nl drukdiagram n
 r эпюра f давления
 (→ 4.205)

4.207 e oil film
 d Ölfilm m, Schmierfilm
 f film m d'huile
 nl oliefilm m
 r масляная плёнка f
 (→ 4.205)

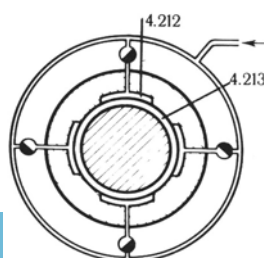
4.208 e oil-film wedge
 d Keilspalt m, Schmierkeil m, Ölkeil
 f coin m d'huile
 nl oliewig f(m)
 r масляный клин m
 (→ 4.205)

4.209 e segment shoe [tilting-pad] bearing
 d Segmentlager n
 f palier m à coussinet
 nl segmentlager n, segmentkussenblok m
 r сегментный [многоклиновый] подшипник m



4.210 e bearing shoe, tilting pad
 d Gleitsegment n
 f coussinet m
 nl lagersegment n
 r подушка f
 (→ 4.209)

4.211 e hydrostatic bearing
 d hydrostatisches Lager n

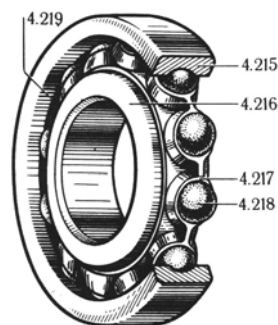


f palier m hydrostatique
 nl hydrostatisch lager n
 r гидростатический подшипник m

4.212 e oil pocket
 d Öltasche f, Lagertasche
 f poche f à huile
 nl oliekamer f(m)
 r масляный карман m
 (→ 4.211, 4.282)

4.213 e oil clearance
 d Ölspalt m
 f jeu m pour l'huile
 nl smeerspeling f
 r масляный зазор f
 (→ 4.211)

4.214 e antifriction bearing, rolling(-element) bearing
 d Wälzlager n
 f palier m à roulements, roulement m
 nl wentellager n
 r подшипник m качения



4.215 e outer ring
 d Aussenring m
 f bague f extérieure
 nl buitenring m
 r наружное кольцо m
 (→ 4.214)

4.216 e inner ring
 d Innenring m
 f bague f intérieure
 nl binnenring m
 r внутреннее кольцо n
 (→ 4.214)

4.217 e separator, cage
 d Käfig m
 f séparateur m
 nl kooi f(m)
 r сепаратор m
 (→ 4.214)

4.218

4.218 e rolling element
 d Walzkörper m
 f roulement m de palier
 nl wentellichaam n
 r тело м качения
 (→ 4.214)

4.219 e race
 d Laufbahn f, Wälzbahn, Rollbahn
 f chemin m de roulement
 nl loopring m
 r дорожка f качения
 (→ 4.214)

4.220 e ball
 d Kugel f
 f bille f
 nl kogel m
 r шарик м



4.221 e roller
 d Rolle f
 f rouleau m
 nl rol f(m)
 r ролик м
 (→ 4.222 – 4.226)

4.222 e cylindrical [plain, straight] roller
 d Zylinderrolle f
 f rouleau m cylindrique
 nl cilindervormige rol f(m)
 r цилиндрический ролик м



4.223 e taper roller
 d Kegelrolle f
 f rouleau m conique
 nl tapse rol f(m)
 r конический ролик м



4.224 e barrel-shaped roller
 d Tonnenrolle f
 f rouleau-tonneau m
 nl tonvormige rol f(m), tonrol
 r бочкообразный ролик м



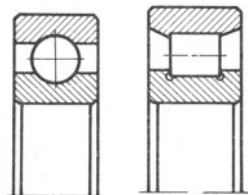
4.225 e helical roller
 d Federrolle f
 f rouleau m en hélice
 nl schroefrol f(m), spiraalvormige [schroeflijnvormige] rol
 r витой ролик м



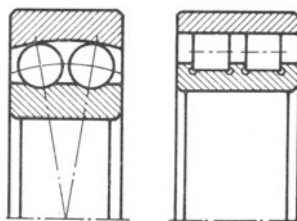
4.226 e needle roller, needle
 d Nadelrolle f
 f rouleau m aiguille, aiguille f
 nl naald f (m)
 r игольчатый ролик м, игла f



4.227 e single-row bearing
 d einreihiges Wälzlager n
 f roulement m à une rangée
 nl eenrijig wentellager n
 r однорядный подшипник м
 (качения)

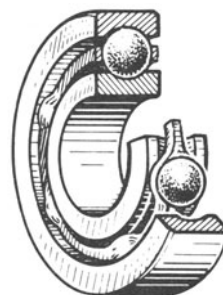


4.228 e double-row bearing
 d zweireihiges Wälzlager n
 f roulement m à double rangée
 nl dubbelrijig wentellager n
 r двухрядный подшипник м
 (качения)

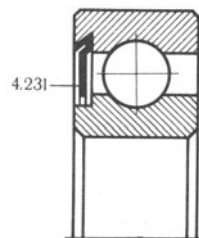


4.229 e ball bearing
 d Kugellager n
 f roulement m à billes

nl kogellager n
 r шариковый подшипник м, шарикоподшипник
 (→ 4.230, 4.233 – 4.235)



4.230 e annular ball bearing
 d Rillenkugellager n
 f roulement m radial à billes
 nl groefkogellager n
 r радиальный шарикоподшипник м

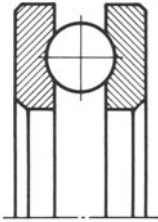


4.231 e shield
 d Deckscheibe f
 f rondelle f de protection
 nl dekkring m
 r защитная шайба f
 (→ 4.230)

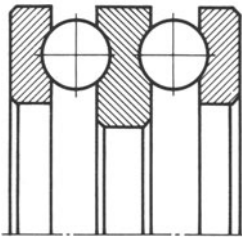
4.232 e ball thrust bearing
 d Axial-Rillenkugellager n
 f roulement m de butée à billes
 nl drukkogellager n, taatskogellager
 r упорный шарикоподшипник м
 (→ 4.233, 4.235)

4.233 e single-direction ball thrust bearing
 d einseitig wirkendes Axial-Rillenkugellager n
 f roulement m de butée à une rangée de billes

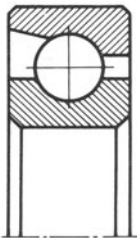
nl enkelwerkend drukkogella-
ger n
r одинарный упорный ша-
рикоподшипник m



4.234 e double-direction ball thrust
bearing
d zweiseitig wirkendes Axial-
Rillenkugellager n
f roulement m de butée à
double rangée de billes
nl dubbelwerkend drukkogel-
lager n
r двойной упорный шари-
коподшипник m



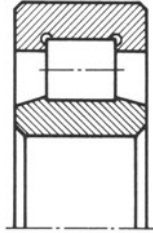
4.235 e angular-contact ball bearing
d Schrägkugellager n
f roulement m radial de butée
à billes
nl hoekcontactlager n
r радиально-упорный шари-
коподшипник m



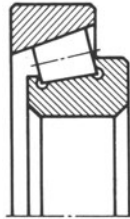
4.236 e roller bearing
d Rollenlager n
f roulement m à rouleaux

nl rollenlager n
r роликовый подшипник m,
роликоподшипник
(→ 4.237 – 4.240)

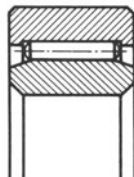
4.237 e plain roller bearing
d Zylinderrollenlager n
f roulement m à rouleaux
cylindriques
nl rollager n met cilindervor-
mige rollen
r цилиндрический ролико-
подшипник m



4.238 e tapered roller bearing
d Kegelrollenlager n
f roulement m à rouleaux
coniques
nl rollager n met kegelrollen
[met tapse rollen]
r конический роликопод-
шипник m

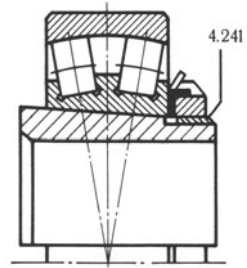


4.239 e needle roller bearing
d Nadellager n
f roulement f à aiguilles
nl naaldlager n
r игольчатый роликопод-
шипник m



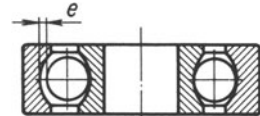
4.240 e sph
d Tonnenlager n
f roulement m sphérique à
rouleaux
nl tonrollager n

r сферический роликопод-
шипник m

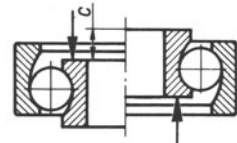


4.241 e adapter sleeve
d Spannhülse f
f douille f de serrage
nl stelling m
r закрепительная втулка f
(→ 4.240)

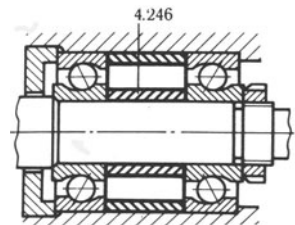
4.242 e radial clearance (e)
d Radialspiel n (e)
f jeu m radial (e)
nl radiale speling f (e)
r радиальный зазор m (e)



4.243 e axial play (c)
d Axialspiel n (c)
f jeu m axial (c)
nl axiale speling f (c)
r осевая игра f (c)

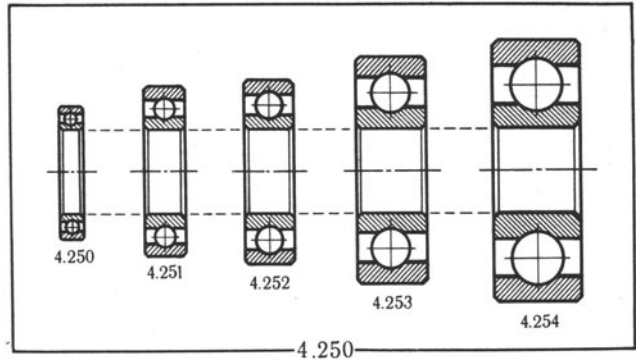


4.244 e preloaded bearing
d vorgespanntes Lager n
f roulement m à serrage pré-
liminaire
nl voorgespannen lager n
r подшипник m с предва-
рительным натягом



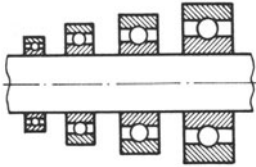
4.245

- 4.245 e preloading (of antifriction bearings)
 d Vorspannung f (der Wälzlager)
 f serrage m préliminaire
 nl voorspanning f
 r предварительный натяг m (подшипников качения) (→ 4.244)



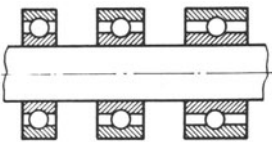
- 4.246 e distance sleeve
 d Abstandshülse f
 f douille f d'écartement
 nl afstandsbuis f(m)
 r распорная втулка f (→ 4.244)

- 4.247 e size series (of bearings)
 d Massreihe f (von Lagern)
 f série f (des roulements)
 nl maatreeks f(m) (van lagers)
 r размерный ряд m (подшипников) (→ 4.248, 4.249)



- 4.248 e diameter series (of bearings)
 d Diameterreihe f (von Lagern)
 f serie f des diamètres (des roulements)
 nl diameterreeks f(m) (van lagers)
 r ряд m диаметров (подшипников)

- 4.249 e width series (of bearings)
 d Breitenreihe f (von Lagern)
 f série f des largeurs (des roulements)
 nl breedtereeks f(m) (van lagers)
 r ряд m ширин (подшипников)



- 4.250 e extra light series
 d extraleichte Reihe f
 f série f extra-légère
 nl extra-lichte reeks f(m)
 r особо лёгкая серия f

- 4.251 e super light series
 d ganz leichte Reihe f
 f série f superlégère
 nl uiterst lichte reeks f(m)
 r сверхлёгкая серия f (→ 4.250)

- 4.252 e light series
 d leichte Reihe f
 f série f légère
 nl lichte reeks f(m)
 r лёгкая серия f (→ 4.250)

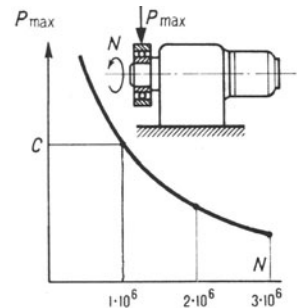
- 4.253 e medium series
 d mittelschwere Reihe f
 f série f moyenne
 nl middelzware reeks f(m)
 r средняя серия f (→ 4.250)

- 4.254 e heavy series
 d schwere Reihe f
 f série f forte
 nl zware reeks f(m)
 r тяжёлая серия f (→ 4.250)

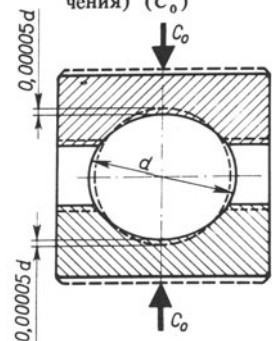
- 4.255 e load rating of antifriction bearing
 d Tragfähigkeit f des Wälzlagers
 f capacité f de roulement
 nl draagvermogen n van een wentellager
 r грузоподъёмность f подшипника качения (→ 4.256, 4.257)

- 4.256 e basic [dynamic] load rating (C)
 d dynamische Tragzahl f (C)

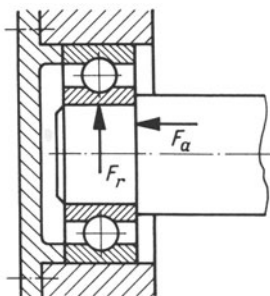
- f capacité f dynamique (de roulement) (C)
 nl dynamisch draagvermogen n, dynamische belastbaarheid f (van een wentellager) (C)
 r динамическая грузоподъёмность f (подшипника качения) (C)



- 4.257 e static load rating (C₀)
 d statische Tragzahl f (C₀)
 f capacité f statique (de roulement) (C₀)
 nl statisch draagvermogen n, statische belastbaarheid f (van een wentellager) (C₀)
 r статическая грузоподъёмность f (подшипника качения) (C₀)



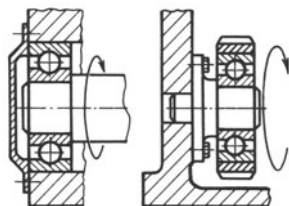
- 4.258 e radial load (F_r)
 d Radialbelastungskraft f (F_r)
 f charge f radiale (F_r)
 nl radiale belasting f (F_r)
 r радиальная нагрузка f (F_r)



- 4.259 e axial load (F_a)
 d Axialbelastungskraft f (F_a)
 f charge f axiale (F_a)
 nl axiale belasting f (F_a)
 r осевая нагрузка f (F_a)
 (→ 4.258)

- 4.260 e equivalent radial load
 d dynamisch äquivalente Belastungskraft f
 f charge f équivalente radiale
 nl equivalente radiale [dynamische] belasting f
 r эквивалентная динамическая нагрузка f
 $P = (VX F_r + Y F_a) K_f$
 (→ 4.258, 4.261)

- 4.261 e rotation factor (V)
 d Umlauffaktor m (V)
 f facteur m de rotation (V)
 nl omwentelingsfactor m , draaifactor (V)
 r коэффициент m вращения (V)



V=1

V=1,2

- 4.262 e radial factor (X)
 d Radialfaktor m (X)
 f facteur m de charge radiale (X)

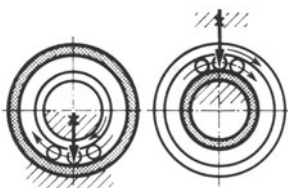
- nl radiale belastingsfactor m (X)
 r коэффициент m радиальной нагрузки (X)
 (→ 4.260)

- 4.263 e thrust factor (Y)
 d Axialfaktor m (Y)
 f facteur m de charge axiale (Y)
 nl axiale belastingsfactor m (Y)
 r коэффициент m осевой нагрузки (Y)
 (→ 4.260)

- 4.264 e temperature factor (K_f)
 d Temperaturfaktor m (K_f)
 f facteur m de température (K_f)
 nl temperatuurcoëfficiënt m (K_f)
 r температурный коэффициент m (K_f)
 (→ 4.260)

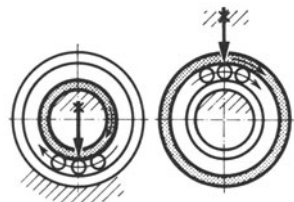
- 4.265 e rating life (of a bearing) (L)
 d nominelle Lebensdauer f des Wälzlagers (L)
 f longévité f nominale (de roulement) (L)
 nl nominale levensduur m (van een wentellager) (L)
 r номинальная долговечность f (подшипника) (L)
 $L = 10^6 \left(\frac{C}{P}\right)^m [\text{rev}]$

- 4.266 e local loading (of a ring)
 d Punktbelastung f (des Ringes)
 f charge f locale (de bague)
 nl plaatselijke belasting f (van een ring)
 r местное нагружение n (кольца)

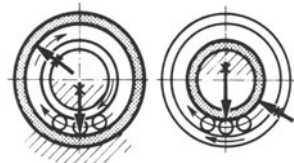


- 4.267 e circulation loading (of a ring)
 d Umfangsbelastung f (des Ringes)
 f charge f circulaire (de bague)
 nl omtreksbelasting f (van een ring)

- г циркуляционное нагружение n (кольца)

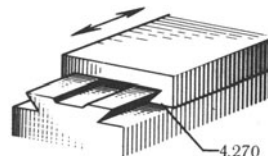


- 4.268 e oscillation loading (of a ring)
 d Pendelbelastung f (des Ringes)
 f charge f oscillatoire (de bague)
 nl pendelbelasting f , trilbelasting (van een ring)
 r колебательное нагружение n (кольца)



Guideways Geradföhrungen Glissières Geleidingen Направляющие

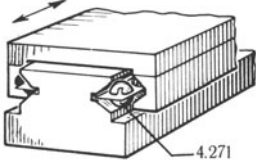
- 4.269 e guideway, guide
 d Geradföhrung f , Längsföhrung, Föhrung
 f glissière f guidage m , guide m
 nl geleiding f , leibaan $f(m)$
 r направляющая f
 (→ 4.270, 4.271)
- 4.270 e sliding guideway
 d Gleitföhrung f
 f glissière f du glissement
 nl glijdende geleiding f
 r направляющая f скольжения



4.270

4.271

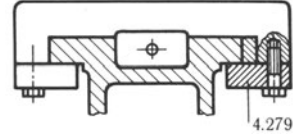
- 4.271 e linear-motion antifriction bearing
 d Wälzführung f
 f glissière f de roulement
 nl rollende geleiding f
 r направляющая f качения



- г призматическая направляющая f



- nl drukplaat f(m), klemplaat
 r прижимная планка f

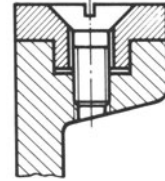


4.279

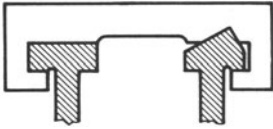
- 4.276 e dovetail guideway
 d Schwalbenschwanzführung f
 f glissière f en queue d'aronde
 nl zwaluwstaartvormige geleiding f
 r направляющая f в форме ласточкина хвоста



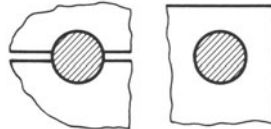
- 4.280 e built-up guideway
 d Anbauführung f
 f guide m amovible
 nl aanbouweleiding f
 r накладная направляющая f



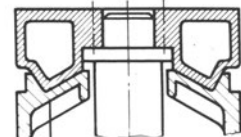
- 4.272 e closed guideways
 d geschlossene Führungen f pl
 f glissières f pl fermees
 nl gesloten geleidingen f pl
 r закрытые направляющие f pl



- 4.277 e cylindrical guideway
 d Rundführung f
 f glissière f ronde
 nl cilindrische geleiding f
 r цилиндрическая [штанговая] направляющая f, скалка f

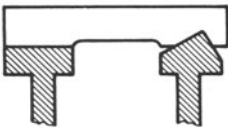


- 4.281 e circular guideway
 d ringförmige Führung f
 f glissière f circulaire
 nl ringgeleiding f, omloopgeleiding
 r круговая направляющая f

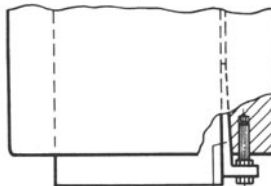


4.281

- 4.273 e open guideways
 d offene Führungen f pl
 f glissières f pl ouvertes
 nl open geleidingen f pl
 r открытые направляющие f pl

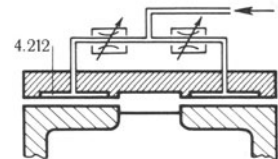


- 4.278 e taper gib
 d Einstellkeil m, Keilleiste f
 f clavette f de réglage
 nl tapse stelspie f(m) [stelwig f(m)]
 r регулировочный клин m



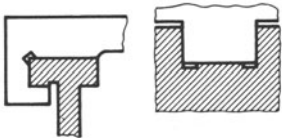
4.278

- 4.282 e hydrostatic guideway
 d hydrostatische Führung f
 f glissière f hydrostatique
 nl hydrostatische geleiding f
 r гидростатическая направляющая f



4.212

- 4.274 e flat guideway
 d Flachführung f
 f guidage m plan
 nl vlakke geleiding f
 r плоская направляющая f

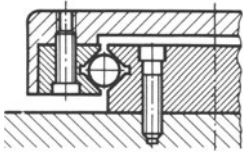


- 4.275 e V-guideway
 d Dreieckführung f, Prismenführung, Dachführung, V-Führung
 f guidage m en V
 nl prismageleiding f, driehoeksgeleiding

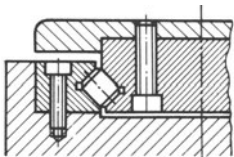
- 4.279 e clamping strip
 d Druckleiste f
 f éclipse f de serrage

- 4.283 e ball-bearing guideway
 d Kugelführung f
 f glissière f sur billes
 nl kogelgeleiding f

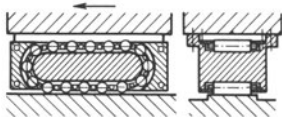
г шариковая направляющая f



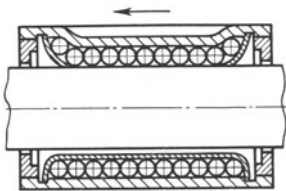
4.284 e roller-bearing guideway
d Rollenführung f
f glissière f sur rouleaux
nl rollengeleiding f
г роликовая направляющая f качения



4.285 e linear-motion roller bearing
d Rollenumlaufschuh m
f support m à rouleaux
nl geleiding f met rollen f
г роликовая опора f



4.286 e ball-bearing bushing
d Kugelbüchse f
f douille f à billes
nl rechtgeleiding f op kogelbaan
г шариковая втулка f



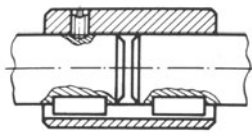
Clutches and Couplings Kupplungen Assemblages et embrayages Koppelungen Муфты

4.287 e permanent (shaft) coupling
d nichtschaltbare Kupplung f
f accouplement m

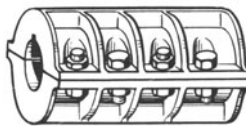
nl continu-koppeling f
г (постоянная) соединительная муфта f
(→ 4.288 – 4.295, 4.298 – 4.301)

4.288 e rigid [fixed] coupling
d starre Kupplung f
f accouplement m fixe
nl vaste koppeling f
г глухая [жёсткая] муфта f
(→ 4.289 – 4.291)

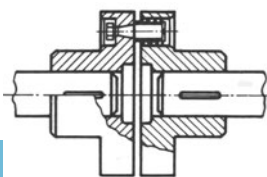
4.289 e sleeve coupling
d Hulsenkupplung f
f accouplement m à manchon
nl koppeling f met koppelbus
г втулочная муфта f



4.290 e split muff coupling
d Schalenkupplung f
f accouplement m à coquilles
nl deelbare koppelingsbus f (m)
г продольно-свертная муфта f



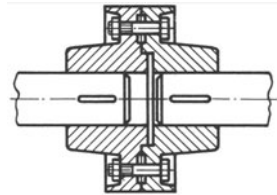
4.291 e flange coupling
d Flanschenkupplung f
f accouplement m à plateaux
nl flens koppeling f
г фланцевая муфта f



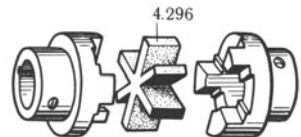
4.292 e flexible [compensating] coupling
d Ausgleichskupplung f
f accouplement m extensible
nl flexibele expansiekoppeling f
г подвижная [компенсирующая] муфта f
(→ 4.293 – 4.295, 4.298 – 4.301)

4.293 e resilient-material coupling
d elastische Kupplung f
f accouplement m élastique
nl elastische koppeling f
г упругая муфта f
(→ 4.294, 4.295, 4.298)

4.294 e pin-and-bushing flexible coupling
d elastische Bolzenkupplung f
f accouplement m à douille et doigts
nl tap-en-buskoppeling f
г втулочно-пальцевая муфта f



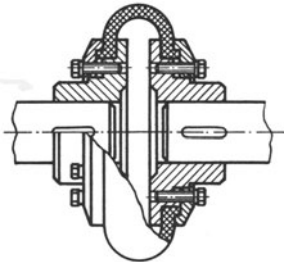
4.295 e rubber spider coupling
d Gummi-Zahnkupplung f
f accouplement m à noix caoutchouteuse
nl rubberen sterkoppeling f
г муфта f с резиновой звёздочкой



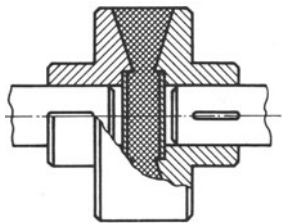
4.296 e rubber spider
d Gummizahnring m
f noix f caoutchouteuse
nl rubberen koppelingsster f (m)
г резиновая звёздочка f
(→ 4.295)

4.297

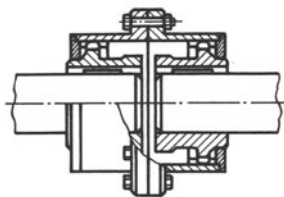
- 4.297 e rubber tyre coupling
 d Gummireifkupplung f
 f accouplement m à entoile en caoutchouc, flector m
 nl koppeling f met rubberslang
 r муфта f с резиновой оболочкой



- 4.298 e rubber annulus coupling
 d Gummi-Metall-Kupplung f
 f accouplement m caoutchouteux-métallique
 nl koppeling f met rubberschijf
 r резинометаллическая муфта f



- 4.299 e gear coupling
 d Bogenzahnkupplung f
 f accouplement m à denture
 nl tandkoppeling f
 r зубчатая муфта f



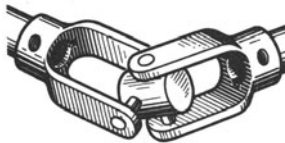
- 4.300 e Oldham [slider] coupling
 d Kreuzscheibenkupplung f
 f accouplement m à glissières croisées

- nl kruisschijfkoppeling f
 r крестовая [плавающая] муфта f



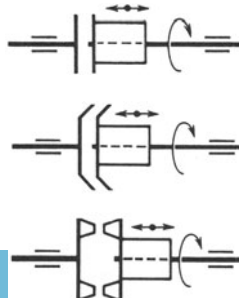
- 4.301 e universal joint, Hooke's coupling
 d Kreuzgelenkkupplung f
 f accouplement m à cardan, cardan m

- nl kruiskoppeling f
 r шарнирная муфта f, универсальный шарнир m, муфта f Кардана, кардан m

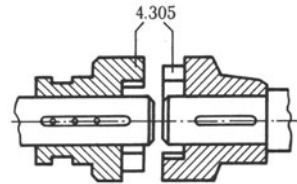


- 4.302 e clutch
 d schaltbare Kupplung f
 f embrayage m
 nl schakelbare koppeling f, mechanische koppeling
 r сцепная муфта f
 (→ 4.304, 4.306, 4.307, 4.310, 4.312, 4.317, 4.319, 4.320, 4.322, 4.325)

- 4.303 e externally actuated clutch
 d fremdgeschaltete Kupplung f
 f embrayage m réglable
 nl van buitenaf bediende koppeling f
 r управляемая сцепная муфта f
 (→ 4.304, 4.306, 4.307, 4.310, 4.312, 4.317)

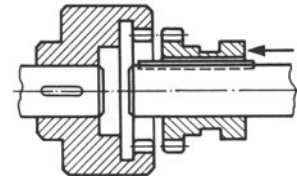


- 4.304 e positive-contact clutch, jaw clutch
 d (schaltbare) Klauenkupplung f
 f accouplement m à crabots
 nl klauwkoppeling f
 r кулачковая муфта f

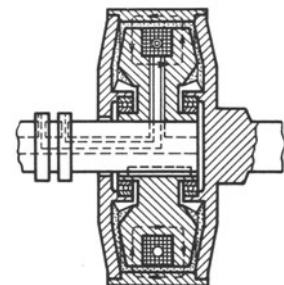


- 4.305 e jaw
 d Klaue f
 f crabot m
 nl klauw m
 r торцовый кулачок m
 (→ 4.304)

- 4.306 e gear clutch
 d schaltbare Zahnkupplung f
 f embrayage m à denture
 nl tandkoppeling f
 r зубчатая сцепная муфта f



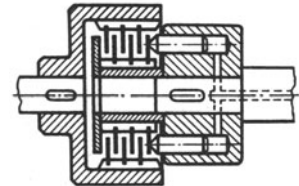
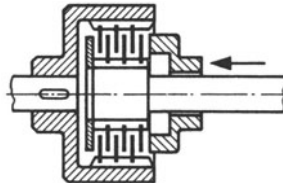
- 4.307 e magnetic particle clutch
 d Magnetpulverkupplung f
 f embrayage m magnétique à poudre métallique
 nl elektromagnetische vloeistofkoppeling f
 r электромагнитная порошковая муфта f



- 4.308 e friction clutch
 d Reibungskupplung f
 f embrayage m à friction
 nl frictiekoppeling f, wrijvingskoppeling
 r фрикционная муфта f
 (→ 4.310, 4.312, 4.317)

г многодисковая фрикционная муфта f

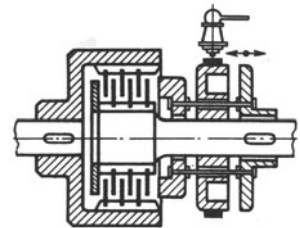
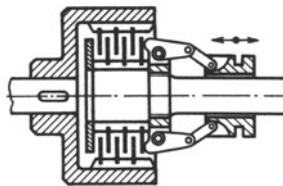
г гидравлическая фрикционная муфта f



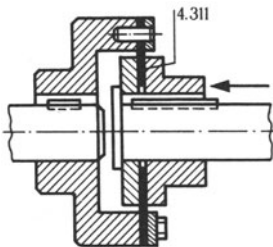
- 4.309 e disk clutch
 d Reibscheibenkupplung f
 f embrayage m à friction à disque
 nl schijvenkoppeling f
 r дисковая (фрикционная) муфта f
 (→ 4.310, 4.312)

- 4.313 e lever-actuated friction clutch
 d handschaltbare Reibungskupplung f
 f embrayage m à friction à levier
 nl hefboomkoppeling f met hefboombediening
 r рычажная фрикционная муфта f

- 4.316 e electromagnetic friction clutch
 d elektromagnetische Reibungskupplung f
 f embrayage m à friction à commande électromagnétique
 nl elektromagnetisch bediende frictiekoppeling f
 r электромагнитная фрикционная муфта f

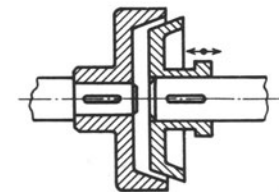
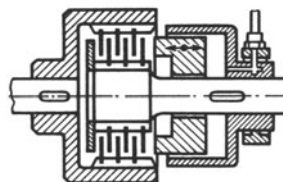


- 4.310 e single-disk clutch
 d Einflächen(-Reibscheiben)kupplung f
 f embrayage m à friction à seul disque
 nl enkelschijfs-wrijvingskoppeling f
 r однодисковая (фрикционная) муфта f



- 4.314 e air-actuated friction clutch
 d pneumatische Reibungskupplung f
 f embrayage m à friction à commande pneumatique
 nl pneumatisch bediende frictiekoppeling f
 r пневматическая фрикционная муфта f

- 4.317 e cone clutch
 d Kegel(reibungs)kupplung f
 f embrayage m à cône
 nl konische wrijvingskoppeling f
 r конусная муфта f



- 4.311 e friction disk
 d Reibscheibe f, Lamelle f
 f disque m de friction
 nl frictieschijf f (m), koppelingschijf
 r фрикционный диск m
 (→ 4.310)

- 4.312 e multiple-disk clutch
 d Vielflächen-Reibscheibenkupplung f, Mehrscheiben-Reibungskupplung, Lamellenkupplung
 f embrayage m à friction à plusieurs disques
 nl lamellenkoppeling f, meerschijvenkoppeling

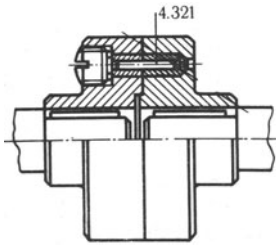
- 4.315 e oil-actuated friction clutch
 d hydraulische Reibungskupplung f
 f embrayage m à friction à commande hydraulique
 nl hydraulisch bediende frictiekoppeling f

- 4.318 e self-acting clutch
 d selbstschaltende Kupplung f
 f embrayage m autocontrôle
 nl automatisch werkende koppeling f
 r самоуправляемая сцепная муфта f
 (→ 4.319, 4.320, 4.322 – 4.325)

4.319

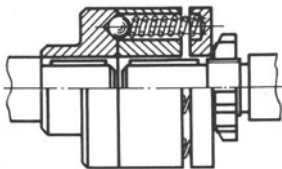
- 4.319 e safety [overload release] clutch
 d Sicherheitskupplung f
 f accouplement m de sécurité
 nl veiligheidskoppeling f, slipkoppeling
 r предохранительная муфта f (→ 4.320, 4.322, 4.323)

- 4.320 e overload shearing clutch
 d Scherbolzenkupplung f, Scherstiftkupplung
 f accouplement m à goupille de cisaillement
 nl overbelastingskoppeling f
 r ломающаяся предохранительная муфта f, срезная муфта



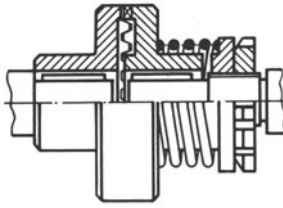
- 4.321 e shear pin
 d Scherbolzen m, Scherstift m
 f goupille f de cisaillement
 nl breeken f(m)
 r срезной штифт m (→ 4.320)

- 4.322 e ball-spring overload-release clutch
 d Kugelrutschkupplung f
 f accouplement m de sécurité à billes
 nl borgende kogelkoppeling f, borgkogelkoppeling
 r шариковая предохранительная муфта f

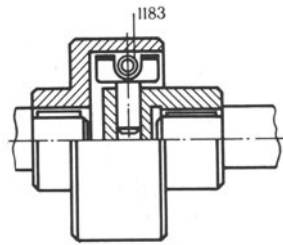


- 4.323 e jaw-spring overload-release clutch
 d Klauenrutschkupplung f
 f accouplement m de sécurité à crabots

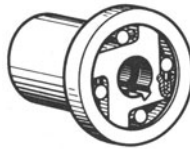
- nl borgende klauwkoppeling f, 4.327 e block brake
 borgklauwkoppeling
 r кулачковая предохранительная муфта f



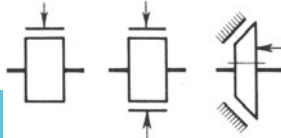
- 4.324 e centrifugal clutch
 d Fliehkörperkupplung f, Fliehkraftkupplung
 f accouplement m centrifuge
 nl centrifugaalkoppeling f
 r центробежная муфта f



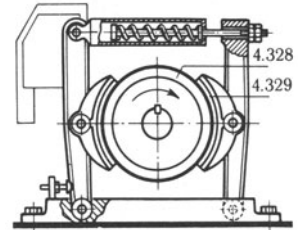
- 4.325 e overruning clutch
 d Freilaufkupplung f, Überholkupplung, Rollensperrkupplung
 f accouplement m de roue libre
 nl vrijloopkoppeling f
 r обгонная муфта f, муфта свободного хода (→ 4.327, 4.330, 4.332)



- 4.326 e brake
 d Bremse f
 f frein m
 nl rem f(m)
 r тормоз m



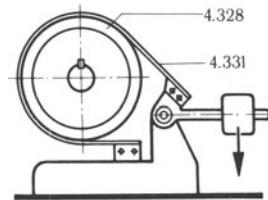
- 4.327 e block brake
 d Backenbremse f
 f frein m à sabot
 nl blokrem f(m), rem met remblok
 r колодочный тормоз m



- 4.328 e brake drum
 d Bremstrommel f
 f tambour m de frein
 nl remtrommel f(m)
 r тормозной барабан m (→ 4.327, 4.330)

- 4.329 e brake block
 d Bremsbacke f, Bremsklotz m
 f sabot m
 nl remblok m, remschoen m
 r (тормозная) колодка f (→ 4.327)

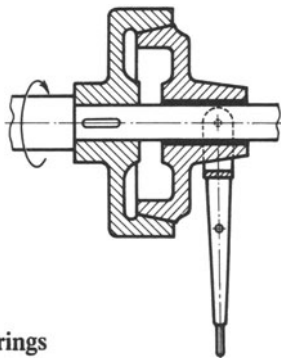
- 4.330 e band brake
 d Bandbremse f
 f frein m à bande [à ruban]
 nl bandrem f(m), rem met wrijvingsband
 r ленточный тормоз m



- 4.331 e brake band
 d Bremsband n
 f bande f de frein
 nl remband m
 r тормозная лента f (→ 4.330)

- 4.332 e cone brake
 d Kegelmremse f

f frein m à cône
nl kegelrem f(m)
r конусный тормоз m



Springs
Federn
Ressorts
Veers
Пружины

4.333 e spring
d Feder f
f ressort m
nl veer f(m)
r пружина f
(→ 4.334, 4.347, 4.349 –
4.354)

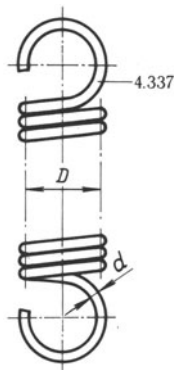
4.334 e helical spring
d Schraubenfeder f
f ressort m hélicoïdal
nl schroefvormig gewikkel-
de veer f (m)
r витая [винтовая] пружи-
на f



4.335 e spring coil [turn]
d Federwindung f
f spire f de ressort
nl veerwinding f
r виток m пружины



4.336 e cylindrical extension spring
d zylindrische Zugfeder f
f ressort m cylindrique de
traction
nl cilindrische veer f(m)
r цилиндрическая пружина
f растяжения



4.337 e hook end
d Öse f
f griffe f
nl aangebogen oog n
r зацеп m
(→ 4.336)

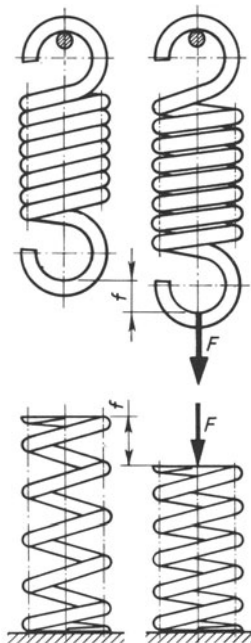
4.338 e mean spring diameter (D)
d mittlerer Windungsdurch-
messer m (D)
f diamètre m moyen du
ressort (D)
nl gemiddelde veerdiameter
m (D)
r средний диаметр m пружины (D)
(→ 4.336)

4.339 e wire diameter (d)
d Drahtdurchmesser m (d)
f diamètre m d'enroulement
(d)
nl draaddiameter m (d)
r диаметр m проволоки (d)
(→ 4.336)

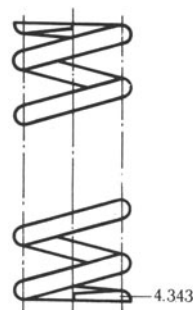
4.340 e spring index
d Wickelverhältnis n
f indice m du ressort
nl veerindex m, diameterver-
houding f voor een veer

r индекс пружины
 $c = \frac{D}{d}$
(→ 4.336)

4.341 e spring rate
d Federrate f
f rigidité f du ressort
nl stijfheid f van een veer
r жёсткость f пружины
 $S = \frac{F}{f}$



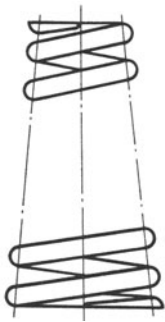
4.342 e cylindrical compression
spring
d zylindrische Druckfeder f
f ressort m cylindrique
nl cilindrische drukveer f(m)
r цилиндрическая пружина
f сжатия



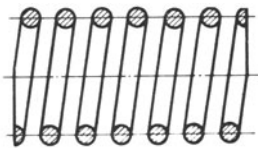
4.343

4.343 e squared [closed] end turn
 d angelegte Endwindung f
 f spire f fermée de ressort
 nl vlakgewikkeld veereinde
 n
 r поджатый виток m
 (→ 4.342)

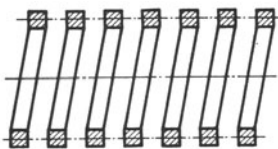
4.344 e conical spring
 d Kegelfeder f
 f ressort m conique à compression
 nl kegelveer f (m)
 r коническая пружина f
 (сжатия)



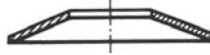
4.345 e spring of round wire
 d Feder f mit Kreisquerschnitt
 f ressort m à fil rond
 nl veer f (m) uit verenstaal-
 draad
 r пружина f (с витками)
 круглого сечения



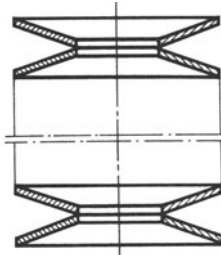
4.346 e spring of rectangular wire
 d Feder f mit Rechteckquer-
 schnitt
 f ressort m à fil rectan-
 gulaire
 nl veer f (m) uit verenstaal-
 band
 r пружина f (с витками)
 прямоугольного сечения



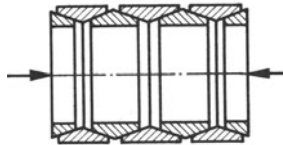
4.347 e Belleville spring
 d Tellerfeder f
 f ressort m de Belleville
 nl schotelveer f(m)
 r тарельчатая пружина f



4.348 e set of Belleville springs
 d Tellersäule f
 f paquet m des ressorts de
 Belleville
 nl schotelveerpakket n
 r пакет m тарельчатых пружин



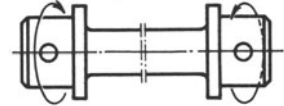
3.349 e ring spring
 d Ringfeder f
 f ressort m en anneau
 nl ringveer f(m)
 r кольцевая пружина f



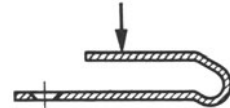
4.350 e spiral spring
 d Spiralfeder f
 f ressort m en spirale
 nl spiraalveer f(m)
 r спиральная (плоская)
 пружина f



4.351 e torsion bar spring
 d Drehstabfeder f
 f barre f de torsion
 nl torsiestaaf f(m), torsiestang
 f(m)
 r стержневая пружина f
 кручения, торсионный
 вал m, торсион m



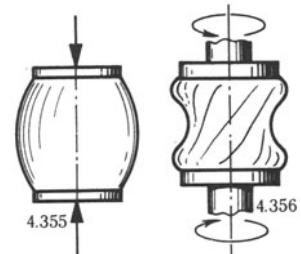
4.352 e leaf spring
 d Blattfeder f
 f ressort m à lame plate
 nl bladveer f(m)
 r плоская пружина f, пластинчатая пружина изгиба



4.353 e multiple-leaf spring
 d Mehrschicht(-Blatt)feder f,
 geschichtete Blattfeder
 f ressort m à lames super-
 posées
 nl bladveerpakket n
 r рессора f, пластинчатая
 многослойная пружина f
 изгиба



4.354 e block spring
 d Gummifeder f
 f ressort m en caoutchouc
 nl blokveer f(m)
 r блочная пружина f



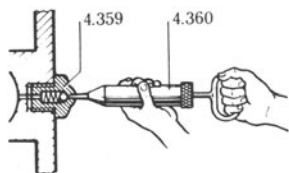
4.355 e rubber-block compression spring
 d Gummidruckfeder f
 f ressort m à compression en caoutchouc
 nl rubberen drukveer f (m)
 r блочная пружина f сжатия
 (→ 4.354)

4.356 e rubber-block torsion spring
 d Gummi-Drehschubfeder f
 f ressort m de torsion en caoutchouc
 nl rubberen torsieveer f (m)
 r блочная пружина f кручения
 (→ 4.354)

Lubrication
Schmierung
Lubrification
Smearing
Смазывание

4.357 e lubrication
 d Schmierung f
 f graissage m, lubrification f
 nl smering f
 r смазывание n
 (→ 4.358, 4.366, 4.368)

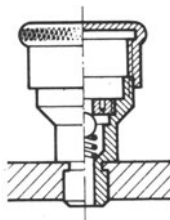
4.358 e manual lubrication
 d Handschmierung f
 f lubrification f manuelle
 nl smering f met de hand
 r ручное смазывание n



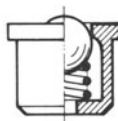
4.359 e grease fitting
 d Schmiernippel m
 f graisseur m à graisse
 nl smeernippel m
 r пресс-маслёнка f (для пластичных смазочных материалов)

4.360 e lubricating gun
 d Schmierpresse f
 f pistolet m à graisse
 nl smeerspuit f(m), vetspuit
 r смазочный шприц m

4.361 e grease cup
 d Staufferbuchse f
 f chapeau-graisseur m
 nl smeerpot m
 r колпачковая маслёнка f



4.362 e oil cup
 d Einschlag-Kugelöler m
 f graisseur m à huile
 nl oliepot m
 r пресс-маслёнка (для смазочных масел)



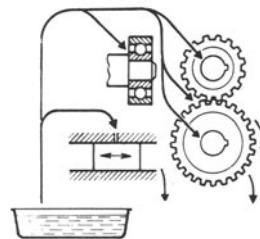
4.363 e centralized lubrication
 d Zentralschmierung f
 f graissage m centralisé
 nl centrale smering f
 r централизованное смазывание n
 (→ 4.366, 4.368)

4.364 e lubrication point
 d Schmierstelle f
 f point m à graisser
 nl smeerpunt f (m)
 r смазочная точка m
 (→ 4.366, 4.368)

4.365 e total-loss lubrication
 d Durchlaufschmierung f
 f graissage m à huile perdue
 nl doorstroomsmering f
 r проточное смазывание n
 (→ 4.366)

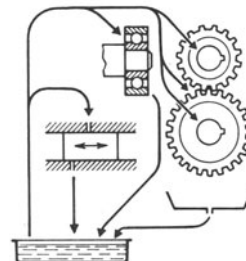
4.366 e total-loss lubrication system
 d Durchlaufschmieranlage f
 f système m de lubrification à huile perdue
 nl doorstroomsmeersysteem n

г проточная смазочная система f

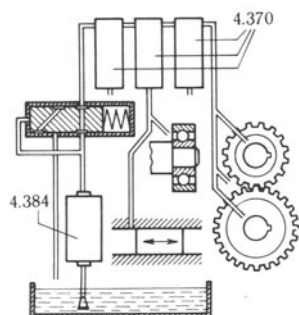


4.367 e circulating lubrication
 d Umlaufschmierung f
 f graissage m à circulation
 nl omloopsmering f
 r циркуляционное смазывание n
 (→ 4.368)

4.368 e circulating lubrication system
 d Umlaufschmieranlage f
 f système m de lubrification à circulation
 nl omloopsmeersysteem n
 r циркуляционная смазочная система f

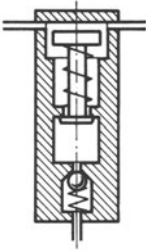


4.369 e single-line lubrication system
 d Einleitungsschmieranlage f
 f système m de lubrification à une conduite
 nl smeersysteem n met één olietoevoerleiding
 r одномагистральная смазочная система

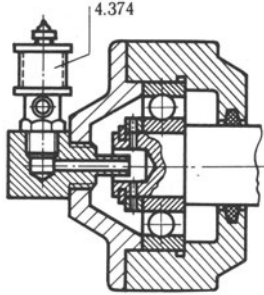


4.370

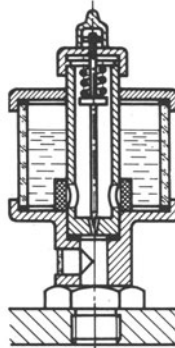
- 4.370 e oil feeder
 d Dosiereinheit f, Verteiler m
 f douiseur m d'huile
 nl oliedoseerapparaat n,
 oliedoseringsvoorziening f
 r смазочный питатель m
 (→ 4.369, 4.371)



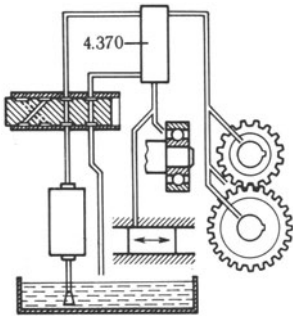
- 4.373 e drip-feed lubrication
 d Tropfschmierung f
 f lubrification f par gouttes
 nl druppelsmering f
 r капельное смазывание n



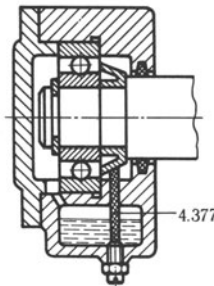
- 4.374 e needle-valve drip-feed oiler
 d Tropföler m
 f graisseur m à aiguille
 nl naaldsmeerpot m
 r игольчатая маслёнка f



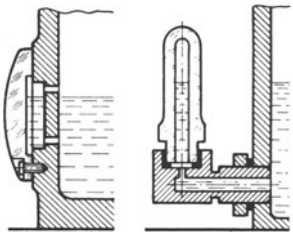
- 4.371 e two-line lubrication system
 d Zweileitungsschmieranlage f
 f système f de lubrification à
 deux conduites
 nl smeersysteem n met twee
 olietoevoerleidingen
 r двухмагистральная сма-
 зочная система f



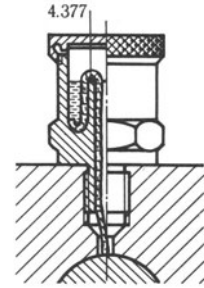
- 4.375 e wick lubrication
 d Dochtschmierung f
 f lubrification f à mèche
 nl smering f met katoentje
 r фитильное смазывание n



- 4.376 e wick-feed oiler
 d Dochtöler m
 f graisseur m à mèche

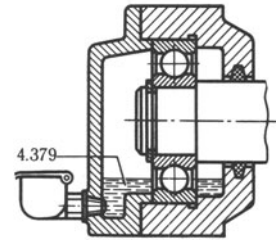


- nl oliepot m met katoentje
 r фитильная маслёнка f



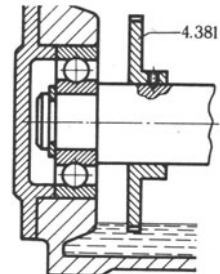
- 4.377 e (oil) wick
 d Öldocht m
 f mèche f de graissage
 nl smeerkatoentje n
 r (смазочный) фитиль n
 (→ 4.375, 4.376)

- 4.378 e bath [dip feed] lubrication
 d Tauchschmierung f
 f graissage m par immersion
 nl dōmpelsmering f
 r смазывание n погруже-
 нием



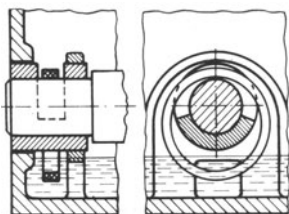
- 4.379 e oil bath
 d Ölbad n
 f bain m d'huile
 nl oliebad n
 r масляная ванна
 (→ 4.378)

- 4.380 e splash lubrication
 d Spritzschmierung f
 f lubrification f par barbotage
 nl spatmering f
 r смазывание n разбрызги-
 ванием



4.381 e splash ring, dipper
d Ölschleuder(ring) m
f bague f de projection d'huile
nl olielsingerring m
r брызговое кольцо n, брыз-
говик m
(→ 4.380)

4.382 e ring lubrication
d Ringschmierung f
f lubrification f à bague
nl ringsmering f
r смазывание n кольцом



4.386 e oil distributor
d Ölverteiler m
f distributeur m d'huile
nl olieverdeler m, olieverdeelin-
richting f
r маслораспределитель m
(→ 4.383)

4.387 e oiling pipe
d Ölrohr n
f tube m de graissage
nl olietoevoerleiding f
r смазочная трубка f
(→ 4.383)

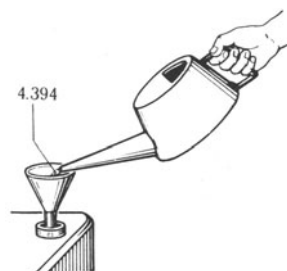
4.388 e oil-feed adjustment
d Einstellung f der Ölzufüh-
rung
f réglage m de lubrification
nl afstelling f van de olietoe-
voer
r регулировка f подачи
масла
(→ 4.383)

4.389 e oil-mist lubrication
d Ölnebelschmierung f
f lubrification f par brouil-
lard d'huile
nl olienevelsmering f
r смазывание n масляным
туманом

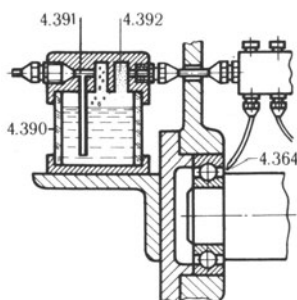
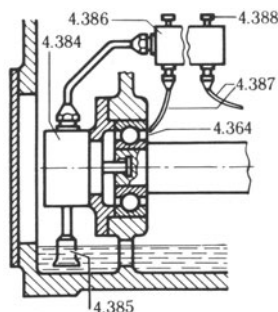
4.392 e oil mist
d Ölnebel m
f brouillard m d'huile
nl olienevel m
r масляный туман m
(→ 4.389)

4.393 e lubricant
d Schmiermittel n, Schmier-
stoff m
f lubrifiant m
nl smeermiddel n
r смазочный материал n
(→ 4.394, 4.395)

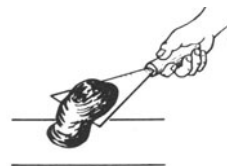
4.394 e lubricating oil
d Schmieröl n
f huile f lubrificante
nl smerolie f(m)
r смазочное масло n



4.383 e force-feed [pressure] lubri-
cation
d Druckumlaufschmierung f
f lubrification f sous pres-
sion
nl druksmering f
r смазывание n под давле-
нием



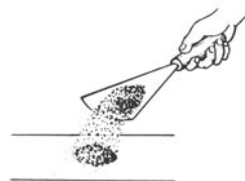
4.395 e grease
d Schmierfett n
f graisse f, lubrifiant m plas-
tique
nl smeervet n
r пластичный смазочный
материал m



4.384 e lubrication pump
d Schmierpumpe f
f pompe f d'huile
nl oliecirculatiepomp f (m)
r смазочный насос m
(→ 4.383)

4.390 e oil atomizer, air-oil lubri-
cator
d Ölzerstäuber m, Nebelöler m
f atomiseur m d'huile
nl olieverstuiver m
r (масло) распылитель m
(→ 4.389)

4.396 e solid [dry] lubricant
d fester Schmierstoff m
f lubrifiant m à l'état solide
nl vast smeermiddel n
r твёрдый смазочный мате-
риал m



4.385 e oil strainer
d Ölfilter n
f filtre m d'huile
nl oliefilter m, n
r масляный фильтр m
(→ 4.383)

4.391 e lubricating nozzle
d Schmierspühdüse f
f injecteur m d'huile
nl olieverstuiver m
r смазочное сопло n
(→ 4.389)

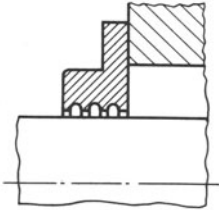
4.397

- 4.397 e sealing
 d Abdichtung f
 f étanchéité f
 nl afdichting f
 r уплотнение п, герметизация f
 (→ 4.400, 4.401, 4.403, 4.405, 4.409, 4.410)

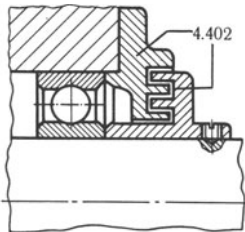
- 4.398 e seal
 d Dichtung f
 f garniture f d'étanchéité
 nl afdichting f
 r уплотнение п
 (→ 4.400, 4.401, 4.403, 4.405, 4.409)

- 4.399 e non-contact seal
 d berührungsfreie Dichtung f
 f garniture f ouverte
 nl contactvrije afdichting f
 r бесконтактное уплотнение п
 (→ 4.400, 4.401, 4.403)

- 4.400 e groove seal
 d Spaltdichtung f
 f joint m gorge
 nl groefafdichting f
 r щелевое [канавочное] уплотнение п

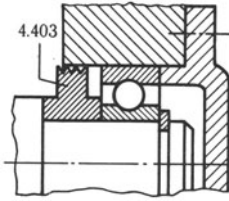


- 4.401 e labyrinth seal
 d Labyrinthdichtung f
 f joint-labyrinthe m
 nl labirintafdichting f
 r лабиринтное уплотнение п



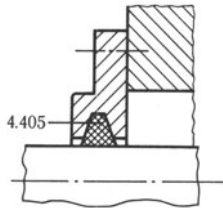
- 4.402 e labyrinth ring
 d Labyrinthring m
 f bague f à labyrinthe
 nl labirintring m
 r лабиринтное кольцо п
 (→ 4.401)

- 4.403 e grease-retaining ring
 d Fetthaltering m
 f bague f collectrice d'huile
 nl oliekeerring m
 r мазедерживающее кольцо п

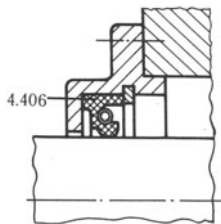


- 4.404 e contact seal
 d Berührungsdichtung f
 f garniture f fermée
 nl contactafdichting f
 r контактное уплотнение п
 (→ 4.405, 4.406, 4.409)

- 4.405 e sealing ring
 d Dichtring m
 f bague f d'étanchéité
 nl afdichtingsring m
 r уплотнительное кольцо п

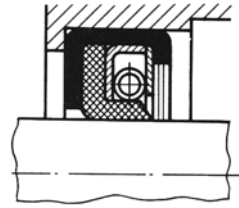


- 4.406 e lip-type [packing] seal
 d Manschette f
 f manchette f d'étanchéité
 nl manchet f(m)
 r уплотнительная манжета f

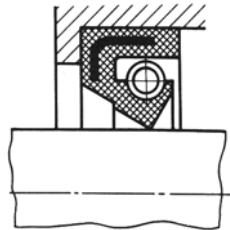


- 4.407 e press-fit seal
 d Wellendichtring m
 f presse-étoupe m

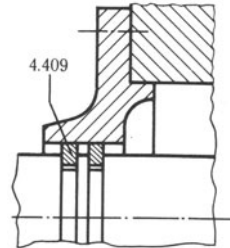
- nl perspakking f
 r кассетная манжета f



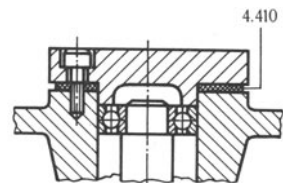
- 4.408 e reinforced lip-type seal
 d versterkte Manschette f
 f manchette f renforcée
 nl versterkte manchet f(m)
 r армированная манжета f



- 4.409 e split ring
 d Federring m
 f bague f fendue
 nl veerring m
 r разрезное кольцо п



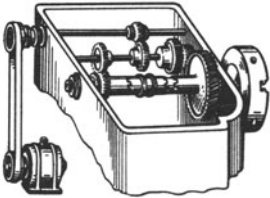
- 4.410 e (sealing) gasket
 d Flachdichtung f
 f joint m d'étanchéité
 nl pakking f
 r уплотнительная прокладка f



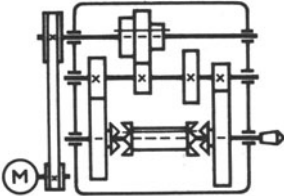
5. POWER TRANSMISSIONS AND MECHANISMS GETRIEBE TRANSMISSIONS ET MÈ- CHANISMES KRACHTOVERBRENGIN- GEN EN MECHANISMEN ПЕРЕДАЧИ И МЕХАНИЗМЫ

General Terms Allgemeine Begriffe Termes généraux Algemene begrippen Общие термины

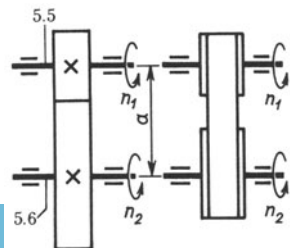
- 5.1 e mechanical drive
d mechanischer Antrieb m
f commande f, entraînement m
nl mechanische aandrijving f
r привод m



- 5.2 e kinematic diagram
d Getriebepplan n, Getrie-
beschema n, Antriebsschema
f schéma m cinématique
nl aandrijfschema n
r кинематическая схема f



- 5.3 e (power) transmission
d Getriebe n
f transmission f
nl drijfwerk n, overbrenging f
r передача f

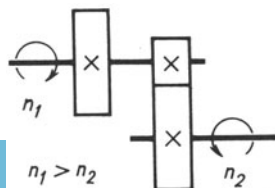


- 5.4 e centre distance (a)
d Achsabstand m (a)
f entr'axe m (a)
nl hartafstand m (a)
r межосевое расстояние
n (a)
(→ 5.3)
- 5.5 e driving shaft
d Antriebswelle f, treibende
Welle
f arbre m d'entraînement [de
commande]
nl aandrijfas f(m)
r ведущий [приводной]
вал m
(→ 5.3)

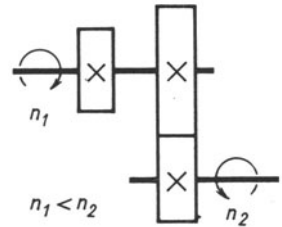
- 5.6 e driven shaft
d Abtriebswelle f, getriebene
Welle
f arbre m mené [commandé]
nl aangedreven as f (m)
r ведомый вал m
(→ 5.3)
- 5.7 e velocity [speed] ratio
d Übersetzungsverhältnis n,
Übersetzung f
f rapport m de vitesses
nl overbrengingsverhouding
f, transmissieverhouding
r передаточное отношение n
$$i = \frac{n_1}{n_2}$$

(→ 5.3)

- 5.8 e underdrive [reducing]
transmission
d Getriebe n mit Überset-
zung ins Langsame
f démultiplicateur m
nl reductieoverbrenging f, ver-
tragingsoverbrenging
r понижающая передача f



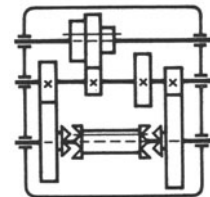
- 5.9 e overdrive [step-up] trans-
mission
d Getriebe n mit Übersetzung
ins Schnelle
f multiplicateur m
nl versnellingsoverbrenging f
r повышающая передача f



- 5.10 e stepped speed variation
d Stufendrehzahländerung f
f réglage m de la vitesse pas
à pas
nl trapsgewijze regeling f
van het toerental
r ступенчатое регулирова-
ние n скорости



- 5.11 e transmission box
d Getriebekasten m
f boîte f de vitesses
nl tandwielkast f(m), ver-
snellingsbak m
r коробка f передач



5.12

- 5.12 e series of speeds
 d Drehzahlreihe f
 f rangée f de vitesses
 nl reeks f(m) van toerentallen
 r ряд m частот вращения
 $n_1; n_2; n_3 \dots n_{max}$

- 5.13 e range of speeds
 d Drehzahlbereich m
 f gamme f de vitesses
 nl toerentalbereik n
 r диапазон m частот вращения
 $n_{min} \dots n_{max}$

$$R = \frac{n_{max}}{n_{min}}$$

- 5.14 e stepless speed variation
 d stufenlose Drehzahländerung f
 f réglage m de la vitesse continue
 nl traploze toerenregeling f
 r бесступенчатое регулирование n частоты вращения

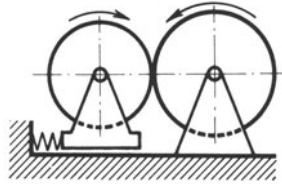


Friction Gearings Reibradgetriebe Transmissions à friction Wrijvingsdrijfwerken Фрикционные передачи

- 5.15 e friction gearing
 d Reib(rad)getriebe n, Reibradtrieb m
 f transmission f à friction
 nl frictieoverbrenging f
 r фрикционная передача f
 (→ 5.16 – 5.20)

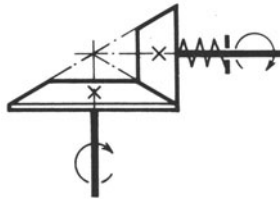
- 5.16 e spur friction gearing
 d Reibradtrieb m mit Zylinderscheiben
 f transmission f cylindrique à friction

- nl frictieoverbrenging f met cilindrische rollen
 r цилиндрическая фрикционная передача f

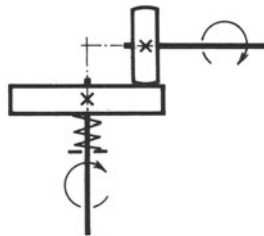


- 5.17 e cone friction gearing
 d Reibradtrieb m mit Kegelscheiben, Kegelseibradgetriebe n
 f transmission f conique à friction

- nl frictieoverbrenging f met kegelvormige wielen
 r коническая фрикционная передача f

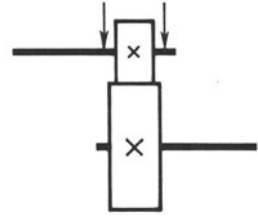


- 5.18 e frontal friction gearing
 d Reibradtrieb m mit Planrad, Planscheiben-Reibradgetriebe n
 f transmission f avec axes perpendiculaires
 nl haakse frictieoverbrenging f
 r лобовая фрикционная передача f



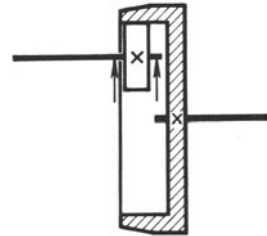
- 5.19 e external-contact friction gearing
 d Aussenreibradgetriebe n
 f transmission f à friction avec contact extérieur

- nl frictieoverbrenging f met uitwendige aandrijving
 r фрикционная передача f внешнего касания

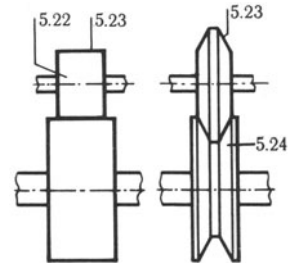


- 5.20 e internal-contact friction gearing
 d Innenreibradgetriebe n
 f transmission f à friction avec contact intérieur

- nl frictieoverbrenging f met inwendige aandrijving
 r фрикционная передача f внутреннего касания



- 5.21 e friction wheel [disk]
 d Reibrad n, Reibkörper m
 f roue f de friction
 nl wrijvingswiel n
 r фрикционное колесо n, фрикционный ролик m



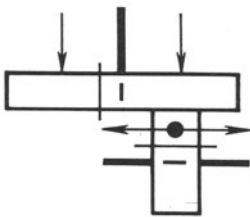
- 5.22 e flat-faced-rim friction wheel
 d gerade gedrehtes Reibrad n
 f roue f de friction cylindrique
 nl wrijvingswiel n met vlakke velg
 r фрикционное колесо n с гладким ободом
 (→ 5.21)

- 5.23 e rim
d Kranz m
f jante f
nl loopvlak n
r обод m
(→ 5.21)

- 5.24 e grooved friction wheel
d Reibrad n mit keilförmigen
Rillen
f roue f à talon
nl frictiewiel n met V-groef
r фрикционное колесо n с
клинчатый ободом, клин-
чатое колесо
(→ 5.21)

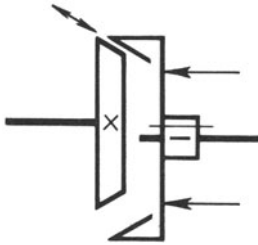
- 5.25 e variable-speed friction
drive unit
d stufenlos regelbares Reibrad-
getriebe n, Regel-Reib(rad)-
getriebe, Reibradvariator m
f variateur m à friction
nl traploos regelbare fric-
tieoverbrenging f
r фрикционный вариатор m
(→ 5.26 – 5.29)

- 5.26 e frontal variable-speed fricti-
on drive unit
d Planrad-Regelreibgetriebe n
f variateur m à friction avec
axes perpendiculaires
nl regelbare haakse fric-
tieoverbrenging f
r лобовой фрикционный
вариатор m

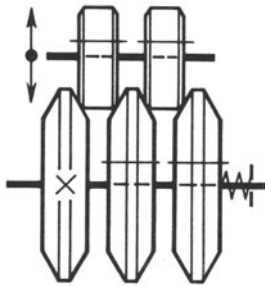


- 5.27 e cone variable-speed friction
drive unit
d Kegelrad-Regelreibgetriebe n
f variateur m à friction à
cônes
nl regelbare frictieoverbren-
ging f met kegelvormige
wielen

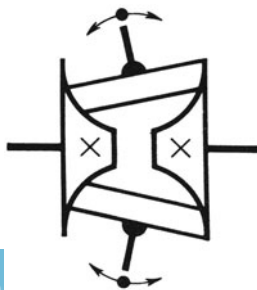
- r конусный фрикционный
вариатор m



- 5.28 e disk-type variable-speed
friction drive unit
d Mehrscheiben-Regelreibge-
triebe n
f variateur m à friction à
disques
nl regelbare frictieoverbren-
ging f op schijven
r дисковый фрикционный
вариатор m



- 5.29 e toroidal variable-speed fric-
tion drive unit
d Globoid-Regelreibgetriebe n
f variateur m à friction à tore
nl regelbare frictieoverbren-
ging f met torusvormige
uitholling
r торовый фрикционный
вариатор m



Belt Drives

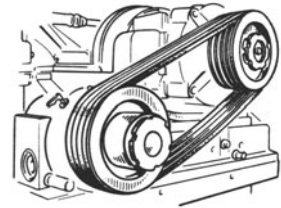
Riemetrieb

Transmissions par courroies

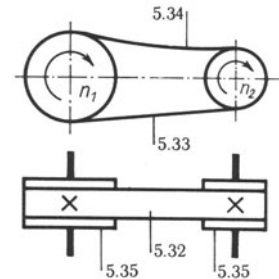
Riemaandrijvingen

Ремённые передачи

- 5.30 e belt drive
d Riemetrieb m, Riemenge-
triebe n
f transmission f par courroie
nl riemoverbrenging f
r ремённая передача f



- 5.31 e open-belt drive
d offener Riemetrieb m
f transmission f par courroie
ouverte
nl open riemoverbrenging f
r открытая ремённая пере-
дача f



- 5.32 e belt
d Riemen m
f courroie f
nl riem m, trekorgaan n
r (приводной) ремёнь m
(→ 5.31)

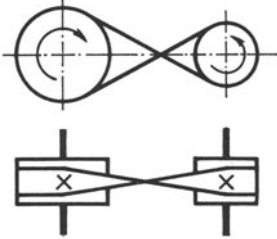
- 5.33 e driving side of belt
d Lasttrum m
f brin m menant de courroie
nl trekkend part n
r ведущая ветвь f ремня
(→ 5.31)

5.34

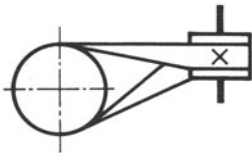
- 5.34 e slack side of belt
 d Leertrum m
 f brin m mené de courroie
 nl teruggaande part n
 r ведомая ветвь f ремня
 (→ 5.31)

- 5.35 e pulley
 d Riemenscheibe f
 f poulie f
 nl poelie f(m), riemschijf f(m)
 r шкив m
 (→ 5.31, 5.45)

- 5.36 e crossed-belt drive
 d gekreuzter Riementrieb m
 f transmission f par courroie
 croisée
 nl gekruiste riemoverbren-
 ging f
 r перекрёстная ремённая
 передача f

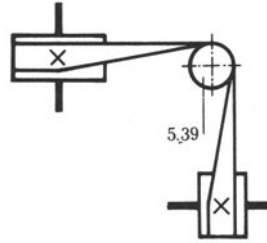


- 5.37 e quarter-turn belt drive
 d halbgekreuzter Riementrieb m
 f transmission f par courroie
 semi-croisée
 nl halfgekruiste riemoverbren-
 ging f
 r полуперекрёстная ремённая
 передача f



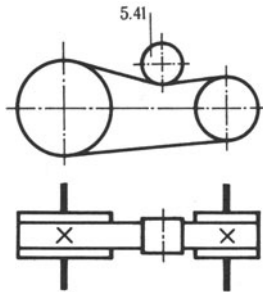
- 5.38 e angular belt drive
 d Winkelriementrieb m
 f transmission f par courroie
 d'angle

- nl hoekriemoverbrenging f
 r угловая ремённая переда-
 ча f



- 5.39 e guiding idler pulley
 d Leitrolle f
 f galet m de guidage
 nl leirol f(m)
 r направляющий ролик m
 (→ 5.38)

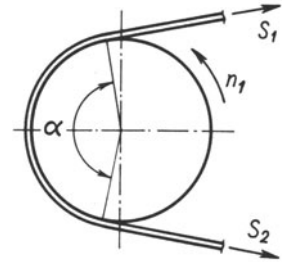
- 5.40 e belt drive with a tensioner
 d Spannrollentrieb m
 f transmission f par courroie
 en tension
 nl riemoverbrenging f met
 spanrol
 r ремённая передача f с на-
 тяжным роликом



- 5.41 e tensioner, tensioning idler
 pulley
 d Spannrolle f
 f galet m de tension
 nl spanrol f(m)
 r натяжной ролик m
 (→ 5.40)

- 5.42 e belt tensioning
 d Riemenspanning f
 f tension f de courroie

- nl riemspanning f
 r натяжение n ремня

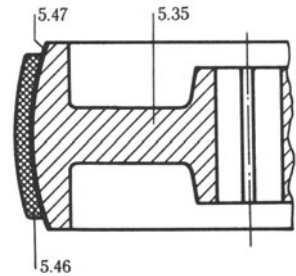


- 5.43 e arc of contact (α)
 d Umschlingungswinkel m (α)
 f angle m d'appui de cour-
 roie (α)
 nl omspannen hoek m (α)
 r угол m обхвата (α)
 (→ 5.42)

- 5.44 e pull factor
 d Durchzugsgrad m
 f coefficient m de traction
 nl trekfactor m
 r коэффициент m тяги

$$\varphi = \frac{S_1 - S_2}{S_1 + S_2}$$
 (→ 5.42)

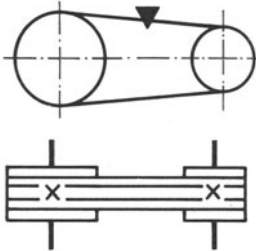
- 5.45 e flat-belt drive
 d Flachriementrieb m
 f transmission f par courroie
 plate
 nl vlakke-riemoverbrenging f
 r плоскоремённая переда-
 ча f



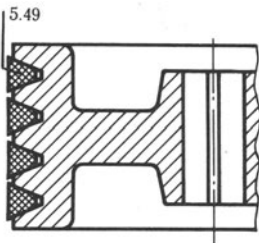
- 5.46 e flat belt
 d Flachriemen m
 f courroie f plate
 nl vlakke riem m
 r плоский ремень m
 (→ 5.45)

- 5.47 e crowned rim
 d ballige Riemenscheibe f
 f jante f bombée

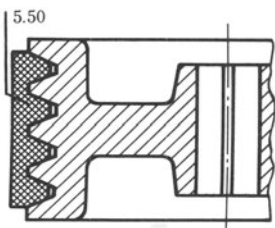
- nl bolle riemschijf f(m)
 r бомбированный обод m
 (→ 5.45)
 5.48 e V-belt drive
 d Keilriementrieb m
 f transmission f par courroie
 trapezoïdale
 nl V-snaaroverbrenging f
 r клиноремённая передача f



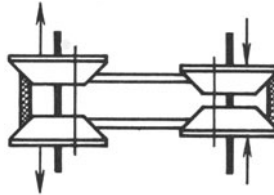
- 5.49 e V-belt, vee-belt
 d Keilriemen m
 f courroie f trapezoïdale
 nl V-snaar f (m)
 r клиновой ремень m



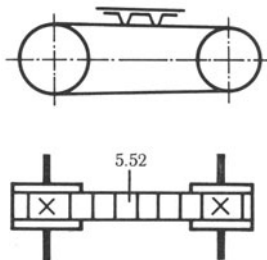
- 5.50 e multiple [banded-together]
 V-belt
 d Verbundkeilriemen m, Poly-V-Riemen
 f courroie f polytrapezoïdale
 nl V-riem m, meervoudige
 V-snaar f (m)
 r поликлиновой ремень m



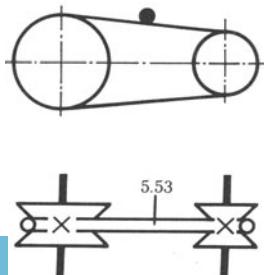
- 5.51 e V-belt variable-speed drive
 unit
 d Breitkeilriemen-Variator m
 f variateur m à courroie tra-
 pezoïdale
 nl regelbare overbrenging f
 met V-snaar
 r клиноремённый вариатор m



- 5.52 e timing belt
 d Zahnriemen m
 f courroie f crantée
 nl getande riem m
 r зубчатый ремень m



- 5.53 e round belt
 d Rundriemen m
 f courroie f ronde
 nl ronde snaar f (m)
 r круглый ремень m



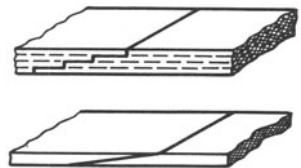
- 5.54 e leather belt
 d Lederriemen m
 f courroie f en cuir
 nl leren riem m
 r кожаный ремень m

- 5.55 e woven fabric belt
 d Geweberiemen m, Textil-
 riemen
 f courroie f tissée
 nl geweven riem m
 r цельнотканый ремень m

- 5.56 e rubber-impregnated belt
 d Gummi-Geweberiemen m
 f courroie f imprégnée de
 caoutchouc
 nl met rubber geïmpreg-
 neerde geweven riem m
 r прорезиненный ремень m

- 5.57 e belt joint
 d Riemenendverbinding f
 f jonction f de courroie
 nl riemlas f (m)
 r соединение n ремня
 (→ 5.58, 5.59)

- 5.58 e cemented joint
 d Kittendverbinding f
 f joint m collé
 nl gelijmde las f (m)
 r клеёвое соединение n



- 5.59 e laced joint
 d Drahtverbinding f
 f jonction f par couture
 nl gestikte las f (m)
 r шивное соединение n



Chain Drives

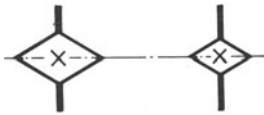
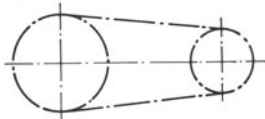
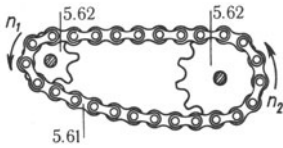
Kettentriebe

Transmissions par chaînes

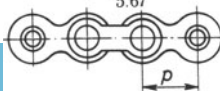
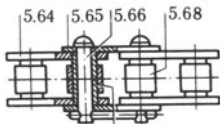
Kettingoverbrengingen

Цепные передачи

- 5.60 e chain drive [transmission]
 d Kettentrieb m, Kettenge-
 triebe n
 f transmission f par chaîne
 nl kettingoverbrenging f
 r цепная передача f



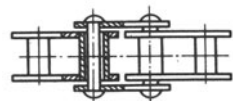
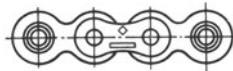
- 5.61 e (power) transmission chain
 d Antriebskette f, Treibkette
 f chaîne f de transmission
 nl aandrijfketting m, f
 r (приводная) цепь f
 (→ 5.60)
- 5.62 e sprocket
 d Kettenrad n
 f pignon m à chaîne
 nl kettingwiel n, kettin-
 tandwiel
 r (цепная) звёздочка f
 (→ 5.60)
- 5.63 e roller chain
 d Rollenkette f
 f chaîne f à rouleaux
 nl rollenketting m, f
 r роликовая цепь f



- 5.64 e roller link plate
 d Innenlasche f
 f maillon m intérieur
 nl binnenschakel m, f
 r внутреннее звено n, внут-
 ренняя пластина f
 (→ 5.63)
- 5.65 e pin-link plate
 d Aussenlasche f
 f maillon m extérieur
 nl buitenschakel m, f
 r внешнее звено n, внеш-
 няя пластина f
 (→ 5.63)
- 5.66 e pin
 d Kettenbolzen m
 f pivot m
 nl kettingbout m
 r валик m
 (→ 5.63)
- 5.67 e bushing
 d Gelenkbuchse f
 f douille f
 nl naaf f (m), draagbus f (m)
 r втулка f
 (→ 5.63)

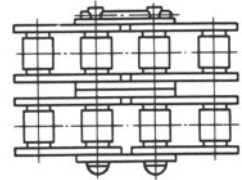
- 5.68 e chain roller
 d Kettenrolle f
 f rouleau m de chaîne
 nl kettingrol f(m)
 r ролик m цепи
 (→ 5.63)
- 5.69 e pitch of chain (p)
 d Kettenteilung f (p)
 f pas m de chaîne (p)
 nl kettingsteek m (p)
 r шаг m цепи (p)
 (→ 5.63)

- 5.70 e bushing chain
 d Hülsenkette f
 f chaîne f tubulaire
 nl busketting m, f
 r втулочная (приводная)
 цепь f

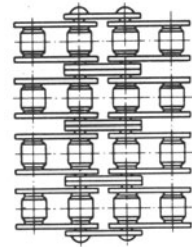


- 5.71 e single-strand chain
 d Einfachkette f
 f chaîne f simple

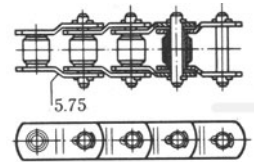
- nl eenrijige ketting m, f
 r однорядная цепь f
 (→ 5.63, 5.70)
- 5.72 e double-strand chain
 d Zweifachkette f
 f chaîne f double
 nl dubbelrijige ketting m, f,
 duplexketting
 r двухрядная цепь f



- 5.73 e multiple-strand chain
 d Mehrfachkette f
 f chaîne f multiple
 nl meervoudige ketting m, f
 r многорядная цепь f

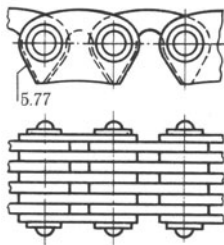


- 5.74 e Ewart chain
 d Rotarykette f
 f chaîne f à maillons
 courbés
 nl ewartketting m, f
 r цепь f с изогнутыми пла-
 стинами



- 5.75 e bent plate
 d gekröpfte Lasche f
 f maillon m courbé
 nl gebogen schakel m, f
 r изогнутая пластина f
 (→ 5.74)

- 5.76 e silent [inverted-tooth] chain
 d Zahnkette f
 f chaîne f dentée
 nl tandketting f
 r зубчатая цепь f

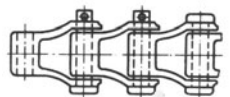


- 5.77 e plate retainer
 d Führungslasche f
 f plaque f de guidage
 nl geleidingsplaat f (m)
 r направляющая пластина f
 (→ 5.76)

- 5.78 e detachable chain
 d zerlegbare Gelenkkette f
 f chaîne f à crochets
 nl haakketting m, f
 r крючковая цепь f



- 5.79 e bushing-stud chain
 d Stahlbolzenkette f
 f chaîne f mouflée
 nl damketting m, f
 r втулочно-штыревая цепь f

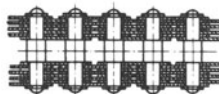


- 5.80 e hoisting chain
 d Lastkette f
 f chaîne f de traction
 nl trekketting m, f
 r тяговая цепь f
 (→ 5.81, 5.82)

- 5.81 e hoisting coil chain,
 straight-link chain
 d Rundstahlkette f
 f chaîne f de traction à
 maillons ronds
 nl schalmketting m, f
 r круглозвенная тяговая
 цепь f

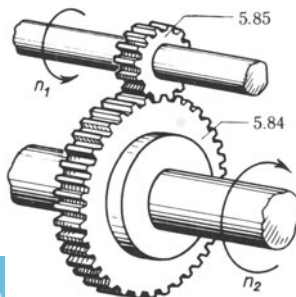


- 5.82 e flat-link hoisting chain
 d Gallkette f
 f chaîne f de traction arti-
 culée
 nl galls ketting m, f
 r шарнирная тяговая цепь f



Gearings Zahnradgetriebe Engrenages Tandwieloverbrengingen Зубчатые передачи

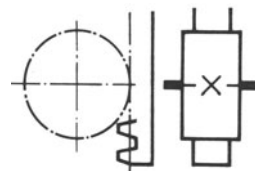
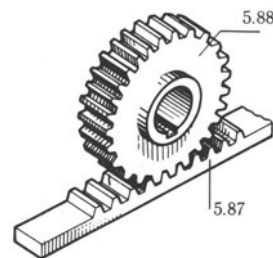
- 5.83 e (toothed) gearing, gear set,
 gear train
 d Zahnradgetriebe n
 f engrenage m, transmission
 f par engrenages
 nl tandwieloverbrenging f
 r зубчатая передача f
 (→ 5.86, 5.91, 5.93, 5.94,
 5.97)



- 5.84 e (toothed) gear
 d Zahnrad n
 f roue f dentée
 nl tandwiel n, tandrad n
 r зубчатое колесо n
 (→ 5.83)

- 5.85 e pinion
 d Ritzel n, Kleinrad n
 f pignon m
 nl rondsel n, klein drijfwi-
 el n
 r шестерня f
 (→ 5.83)

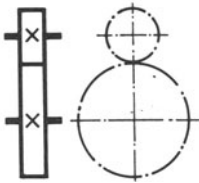
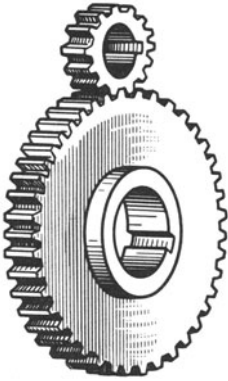
- 5.86 e rack-and-pinion transmissi-
 on [drive]
 d Zahnstangengetriebe n
 f engrenage m à crémaillère
 nl tandstangaandrijving f
 r реечная (зубчатая) ци-
 линдрическая передача f



- 5.87 e (gear) rack
 d Zahnstange f
 f crémaillère f
 nl tandstang f(m), tandheugel m
 r зубчатая рейка f
 (→ 5.86)

- 5.88 e rack pinion
 d Zahnstangenritzel n
 f pignon m de la cré-
 maillère
 nl rondsel n
 r реечная шестерня f
 (→ 5.86)

- 5.89 e spur gearing [gear set, gear train]
 d Geradstirnradgetriebe n
 f engrenage m cylindrique a denture droite
 nl rechte tandwieloverbrenging f
 r прямоугольная цилиндрическая передача f



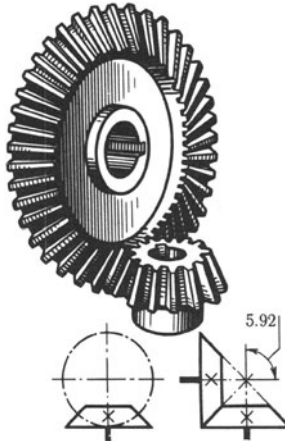
- 5.90 e helical gearing, helical-gear set [train]
 d Schrägstirnradgetriebe n
 f engrenage m cylindrique à denture hélicoïdale
 nl tandwieloverbrenging f met schuine tanden
 r косозубая (цилиндрическая) передача f



- 5.91 e bevel gearing, bevel-gear set [train]
 d Kegelradgetriebe n
 f engrenage m conique

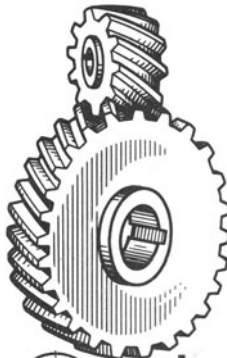


- nl konische tandwieloverbrenging f
 r коническая (зубчатая) передача f

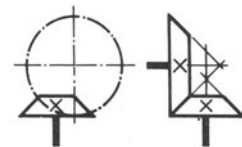
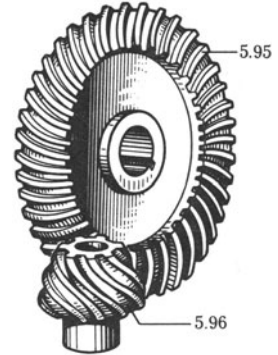


- 5.92 e shaft angle
 d Achsenwinkel m
 f angle m des axes
 nl hoek m tussen de assen
 r межосевой угол m (зубчатой передачи) (→ 5.91)

- 5.93 e crossed-axis helical gearing, crossed helical-gear set [train]
 d Schraubradgetriebe n
 f engrenage m hélicoïdal
 nl haakse tandwieloverbrenging f met schroefvertanding
 r винтовая (зубчатая) передача f



- 5.94 e hypoid gearing, hypoid-gear set [train]
 d Hypoidgetriebe n
 f engrenage m hypoïde
 nl hypoïde overbrenging f
 r гипоидная (зубчатая) передача f (первого рода)

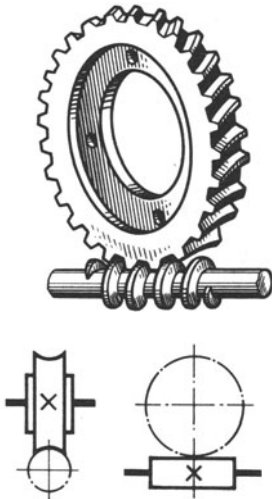


- 5.95 e hypoid gear
 d Hypoidrad n
 f roue f dentée hypoïde
 nl hypoid tandwiel n
 r гипоидное колесо n (→ 5.94)

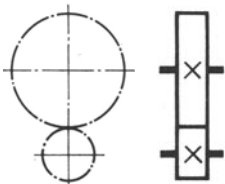
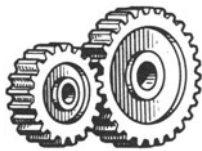
- 5.96 e hypoid pinion
 d Hypoid-Ritzel n
 f pignon m hypoïde
 nl hypoid rondsel n
 r гипоидная шестерня f (→ 5.94)

- 5.97 e worm gearing [gear set]
 d Schneckengetriebe n
 f engrenage m à vis sans fin

nl wormwieloverbrenging d
r червячная передача f

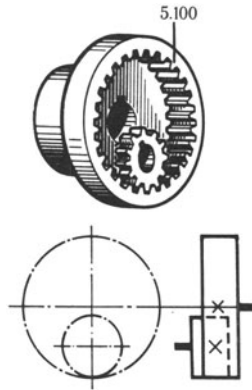


5.98 e external gearing [gear set]
d Aussenzahnradgetriebe n
f engrenage m extérieur
nl tandwieloverbrenging f
met buitenvertdanding
r передача f внешнего за-
цепления } с внешним за-
цеплением }



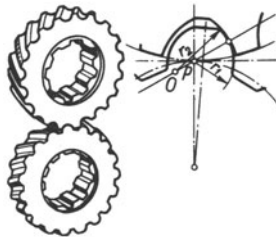
5.99 e internal gearing [gear set]
d Innenzahnradgetriebe n
f engrenage m intérieur
nl tandwieloverbrenging f
met binnenvertdanding

r передача f внутреннего
зацепления [с внутрен-
ним зацеплением]



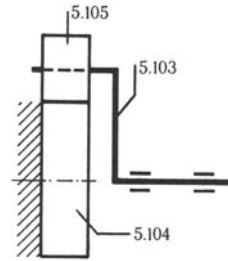
5.100 e internal [ring] gear
d Hohlrads n
f roue f à denture exté-
rieure
nl tandwiel n met binnen-
vertdanding
r зубчатое колесо n с внут-
ренними зубьями
(→ 5.99)

5.101 e Novikoff's gearing, Novi-
koff-Wildhaber's gearing
d Wildhaber-Novikov-Getrie-
be n
f engrenage m de Novikov
nl wildhaber-novikov-tand-
wieldrijfwerk n
r передача f Новикова (с
близким к линейному
контактом)



5.102 e planetary [epicyclic] gear
train
d Planetengetriebe n, Umlauf-
rädergetriebe
f engrenage m planétaire
nl planeetwieloverbrenging f

r планетарный механизм m,
планетарная передача f



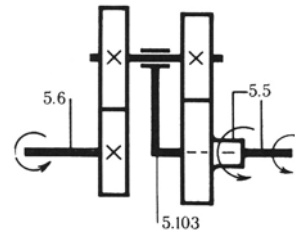
5.103 e planet carrier, arm
d Steg m
f châssis m porte-satellite
nl planeetwieldrager m
r водило n
(→ 5.102, 5.107, 5.239)

5.104 e sun gear
d Mittenrad n, Sonnenrad
f roue f à soleil
nl kroonwiel n
r солнечное колесо n
(→ 5.102, 5.239)

5.105 e planet (gear)
d Planetenrad n, Umlaufrad
f roue f satellite
nl planeetwiel n, satelliet m
r сателлит m
(→ 5.102, 5.239)

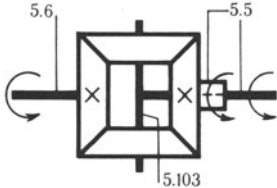
5.106 e differential gear train
d Differentialgetriebe n
f engrenage m différentiel,
différentiel m
nl differentieel n
r дифференциальный меха-
низм m, дифференциаль-
ная передача f, диффе-
ренциал m
(→ 5.107, 5.108)

5.107 e differential spur gear train
d Stirnrad-Differentialgetrie-
be n
f différentiel m cylindrique
nl differentieel n met rechte
tandwielen
r цилиндрический диффе-
ренциал m

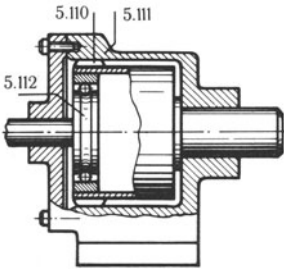


5.108

- 5.108 e differential bevel gear train
 d Kegelrad-Differentialgetriebe n
 f différentiel m conique
 nl differentieel n met conische tandwielen
 r конический дифференциал m



- 5.109 e harmonic drive
 d Wellenzahnradgetriebe n
 f engrenage m harmonique
 nl harmonische tandwieloverbrenging f, 'harmonic drive
 r волновая (зубчатая) передача f

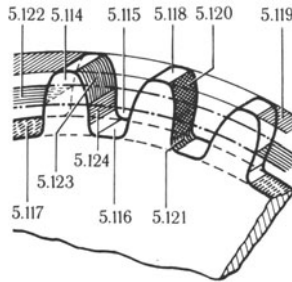


- 5.110 e flexible gear [spline]
 d flexibles Rad n
 f roue f flexible
 nl elastische tandkrans m
 r гибкое колесо n
 (→ 5.109)

- 5.111 e rigid gear, static [circular] spline
 d steifes Rad n
 f roue f rigide
 nl stilstaand huis n
 r жёсткое колесо n
 (→ 5.109)

- 5.112 e wave generator [former]
 d Wellengenerator m
 f générateur m d'ondes
 nl golfvormer m
 r генератор волн m, волнообразователь m
 (→ 5.109)

- 5.113 e tothing
 d Verzahnung f, Zahnkrans m
 f couronne f dentée
 nl vertanding f, tandkrans m
 r зубчатый венец m



- 5.114 e tooth
 d Zahn m
 f dent f
 nl tand m
 r зуб m
 (→ 5.113)

- 5.115 e tooth space
 d Lücke f
 f creux m de dent
 nl kuil m
 r впадина f (между зубьями)
 (→ 5.113)

- 5.116 e root
 d Zahngrund m
 f base f de dent
 nl tandvoet m
 r основание n зуба
 (→ 5.113)

- 5.117 e root surface
 d Zahngrundfläche f, Fussfläche

- f surface f de pied
 nl voetvlak n
 r поверхность f впадин
 (→ 5.113)

- 5.118 e tooth tip
 d Zahnkrone f
 f sommet m de dent
 nl tandtop m
 r вершина f (зуба)
 (→ 5.113)

- 5.119 e tip surface
 d Kopffläche f
 f surface f de tête
 nl top-oppervlak n
 r поверхность f вершин
 (→ 5.113)

- 5.120 e tooth flank [surface]
 d Zahnflanke f
 f flanc m de dent
 nl tandflank f(m)
 r боковая поверхность f зуба
 (→ 5.113)

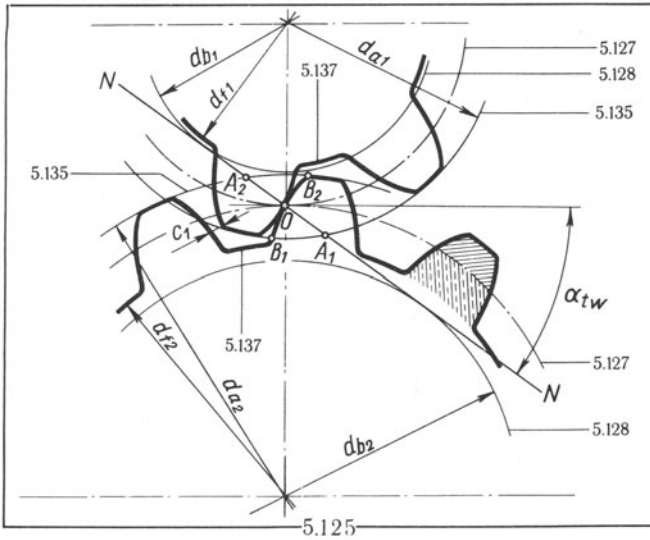
- 5.121 e fillet
 d Fussausrundung f
 f arrondi m
 nl afronding f
 r переходная поверхность f (зуба)
 (→ 5.113)

- 5.122 e reference [pitch] surface
 d Teilfläche f
 f surface f primitive
 nl steekvlak n
 r делительная поверхность f (зубчатого колеса)
 (→ 5.113)

- 5.123 e addendum flank, face of tooth
 d Zahnkopf m
 f tête f de dent
 nl tandkop m
 r (делительная) головка f зуба
 (→ 5.113)

- 5.124 e dedendum flank, flank of tooth
 d Zahnfuss m
 f pied m de dent
 nl tandvoet m
 r (делительная) ножка f зуба
 (→ 5.113)

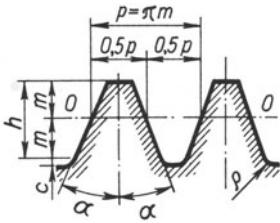
- 5.125 e involute tooth system
 d Evolventenverzahnung f
 f engrenage m à développante de cercle



- nl evolvente vertanding f
r эвольвентное (зубчатое) зацепление n
- 5.126 e pitch point (O)
d Wälzpunkt m (O)
f pointe f de contact (O)
nl ingrijppunt n (O)
r полюс m зацепления (зубчатой передачи) (O)
(→ 5.125)
- 5.127 e (kinematic) pitch circle
d Wälzkreis m
f cercle m primitif
nl steekcirkel m
r начальная окружность f (зубчатого колеса)
(→ 5.125)
- 5.128 e base circle
d Grundkreis m
f cercle m de base
nl grondcirkel m
r основная окружность f (эвольвентного зубчатого колеса)
(→ 5.125)
- 5.129 e base-circle diameter (d_b)
d Grundkreisdurchmesser m (d_b)
f diamètre m du cercle de base (d_b)
nl grondcirkeldiameter m (d_b)
r основной диаметр m (зубчатого колеса) (d_b)
(→ 5.125)
- 5.130 e base pitch
d Eingriffsteilung f
f pas m primitif de denture
nl grondsteek m
r основной нормальный шаг m (зубьев), шаг (эвольвентного) зацепления
- $$p_b = \frac{\pi d_{b1}}{z_1} = \frac{\pi d_{b2}}{z_2}$$
- (→ 5.125)
- 5.131 e line of action, pressure line (NN)
d Eingriffslinie f (NN)
f ligne f de pression (NN)
nl ingrijplijn f(m) (NN)
r линия f зацепления (зубчатой передачи) (NN)
(→ 5.125)
- 5.132 e pressure angle (α_{tw})
d Eingriffswinkel m (α_{tw})
f angle m de pression (α_{tw})
nl ingrijphoek m (α_{tw})
r угол m зацепления (α_{tw})
(→ 5.125)
- 5.133 e contact length
d Eingriffsstrecke f
f longueur f d'action
nl ingrijpweg m
r длина f активной линии зацепления
 $\rho_\alpha = A_1 A_2$
(→ 5.125)
- 5.134 e transverse contact ratio
d Profilüberdeckungsgrad m
- f coefficient m de chevauchement
nl ingrijpquotiënt n
r коэффициент m торцового перекрытия (цилиндрической зубчатой передачи)
- $$\epsilon = \frac{\rho_\alpha}{t_b}$$
- 5.135 e tip [addendum] circle
d Kopfkreis m
f cercle m de tête
nl topcirkel m
r окружность f вершин (зубьев зубчатого колеса)
(→ 5.125)
- 5.136 e tip diameter (d_a)
d Kopfkreisdurchmesser m (d_a)
f diamètre m de tête (d_a)
nl diameter m van de topcirkel (d_a)
r диаметр m вершин (зубьев зубчатого колеса) (d_a)
(→ 5.125)
- 5.137 e root circle
d Fusskreis m
f cercle m de pied
nl voetcirkel m
r окружность f впадин (зубчатого колеса)
(→ 5.125)
- 5.138 e root diameter (d_f)
d Fusskreisdurchmesser m (d_f)
f diamètre m de pied (d_f)
nl voetcirkeldiameter m (d_f)
r диаметр m впадин (зубчатого колеса) (d_f)
(→ 5.125)
- 5.139 e active flank ($B_1 B_2$)
d Eingriffsprofil m ($B_1 B_2$)
f profil m actif de dent ($B_1 B_2$)
nl ingrijpingsprofiel n ($B_1 B_2$)
r активный профиль m (зуба) ($B_1 B_2$)
(→ 5.125)
- 5.140 e circumferential backlash (c_1)
d Eingriffsflankenspiel n (c_1)
f jeu m latéral (c_1)
nl topspeelruimte f (c_1)
r окружной (боковой) зазор m (зубчатой передачи) (c_1)
(→ 5.125)

5.141

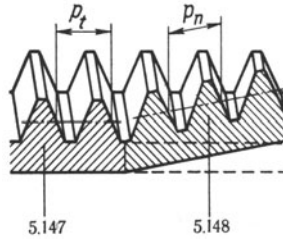
- 5.141 e basic rack
 d Bezugsprofil m
 f profil m de crémaillère
 nl theoretisch heugelprofiel n
 r исходная рейка f, исходный контур m



- f section f transversale de crémaillère
 nl dwarsdoorsnede f(m) van een tandstang
 r торцовое сечение n (зубчатой рейки)

- г нормальный модуль m исходного контура, (расчётный) модуль

$$m_n = \frac{p_n}{\pi} \text{ [mm]}$$



- 5.152 e (normal) diametral pitch
 d Diametralteilung f
 f pas m diamétral
 nl middellijnsteek m
 r литч m, диаметральный шаг m

$$DP_n = \frac{\pi}{p_n} \left[\frac{1}{\text{inch}} \right]$$

$$DP_n = \frac{25,4}{m} \left[\frac{1}{\text{mm}} \right]$$

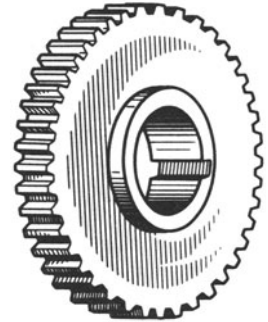
- 5.142 e standard pressure angle (α)
 d Eingriffswinkel m (α)
 f angle m de pression (α)
 nl drukhoek m (α)
 r угол m профиля (зуба рейки) (α) (→ 5.141)

- 5.148 e normal section of rack
 d Normalschnitt m durch Zahnstange
 f section f normale de crémaillère
 nl normaaldoorsnede f(m) van een tandstang
 r нормальное сечение n (зубчатой рейки) (→ 5.147)

- 5.153 e spur gear
 d Geradstirnrad n
 f roue f dentée cylindrique à denture droite
 nl recht tandwiel n
 r прямозубое (цилиндрическое) зубчатое колесо n

- 5.143 e pitch line (OO)
 d Profilmittellinie f (OO)
 f ligne f de base (OO)
 nl steeklijn f(m) (OO)
 r делительная прямая f (исходного контура) (OO) (→ 5.141)

- 5.149 e transverse pitch of rack (p_t)
 d Stirnteilung f der Zahnstange (p_t)
 f pas m transversal de crémaillère (p_t)
 nl dwarssteek m van een tandstang (p_t)
 r торцовый шаг m (зубьев рейки) (p_t) (→ 5.147)



- 5.144 e depth of engagement, working depth (h)
 d gemeinsame Zahnhöhe f (h)
 f profondeur f d'engrenage (h)
 nl tandhoogte f (h)
 r глубина f захода зубьев (исходных реек) (h) (→ 5.141)

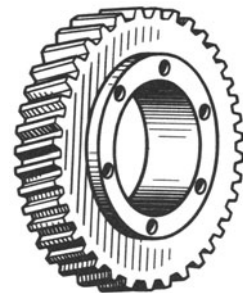
- 5.150 e normal pitch of rack (p_n)
 d Normalteilung f (der Zahnstange) (p_n)
 f pas m normal de crémaillère (p_n)
 nl normaalsteek m van een tandstang (p_n)
 r нормальный шаг m (зубьев рейки) (p_n) (→ 5.147)

- 5.154 e helical gear
 d Schrägstirnrad n
 f roue f dentée cylindrique à denture hélicoïdale
 nl schuin tandwiel n
 r косозубое (цилиндрическое) зубчатое колесо n

- 5.145 e bottom clearance (c)
 d Kopfspiel n (c)
 f jeu m radial (c)
 nl kopspeeling f (c)
 r радиальный зазор m (c) (→ 5.141)

- 5.146 e fillet radius (ρ)
 d Fussrundung f (ρ)
 f rayon m de l'arrondi (ρ)
 nl afrondingsstraal m, f (ρ)
 r радиус m кривизны переходной кривой (зуба) (ρ) (→ 5.141)

- 5.151 e normal module of rack
 d Normalmodul m der Zahnstange
 f module m normal de crémaillère
 nl normaalmodulus m van een tandstang



- 5.147 e transverse section of rack
 d Stirnschnitt m durch Zahnstange

- 5.155 e herringbone gear
 d Pfeilzahnrad n
 f engrenage m à chevrons
 nl pijltandwiel n
 r шевронное (цилиндрическое) зубчатое колесо n



- 5.156 e elements of a helical gear
 d Bestimmungsgrößen f pl
 an Schrägstirnrads
 f éléments m pl de roue hélicoïdale
 nl elementen n pl en grondmaten n pl voor een schuivertand tandwiel
 r элементы m, pl и параметры m pl косозубого зубчатого колеса
 5.157 e number of teeth (z)
 d Zähnezahl f (z)
 f nombre m de dents (z)
 nl aantal n tanden (z)
 r число n зубьев (z) (→ 5.156)
 5.158 e face width (b)
 d Zahnbreite f (b)
 f largeur f de denture (b)
 nl tandbreedte f (b)

- r ширина f венца (цилиндрического зубчатого колеса) (b) (→ 5.156)
 5.159 e tooth trace
 d Flankenlinie f
 f trace f de dent
 nl koplijn f(m), flanklijn f(m)
 r линия f зуба (→ 5.156)
 5.160 e helix angle (β)
 d Schrägungswinkel m (β)
 f angle m d'hélice (β)
 nl stijghoek m (β)
 r угол m наклона (линии зуба) (β) (→ 5.156)
 5.161 e reference [pitch] circle
 d Teilkreis m
 f cercle m primitif
 nl steekcirkel m
 r делительная окружность f (зубчатого колеса) (→ 5.156)
 5.162 e reference [pitch] diameter
 d Teilkreisdurchmesser m
 f diamètre m du cercle primitif
 nl diameter m van de steekcirkel, steekcirkelmiddellijn f(m)
 r делительный диаметр m (зубчатого колеса)
 $d = m \cdot z$ (→ 5.156)
 5.163 e transverse circular pitch
 d Stirnteilung f
 f pas m circonférentiel du primitif

- nl dwarsteek m, omtreksteek
 r окружной делительный шаг m (зубьев)

$$p_t = \frac{\pi \cdot d}{z}$$

(→ 5.156)

- 5.164 e normal circular pitch
 d Normalteilung f
 f pas m normal du primitif
 nl normaalsteek m

- r нормальный делительный шаг m (зубьев)

$$p_n = p_t \cdot \cos \beta$$

(→ 5.156)

- 5.165 e normal module
 d Normalmodul m
 f module m normal
 nl normaalmodulus m
 r нормальный модуль m (зубьев)

$$m_n = \frac{p_n}{\pi}$$

- 5.166 e axial pitch (p_x)
 d Achsteilung f (p_x)
 f pas m axial (p_x)
 nl axiale steek m (p_x)
 r осевой шаг m (зубьев) (p_x) (→ 5.156)

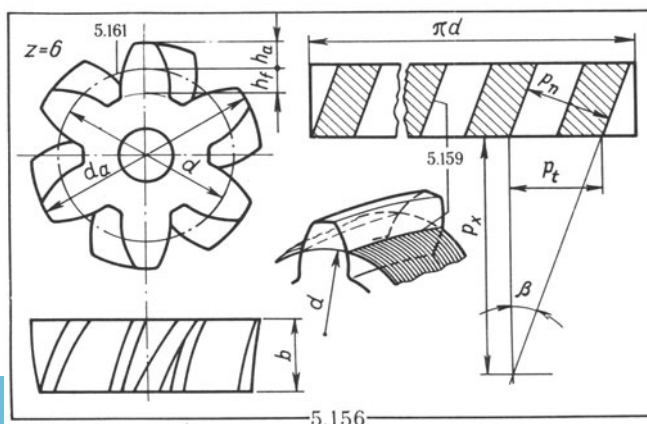
- 5.167 e lead of tooth helix
 d Steigungshöhe f
 f pas m de dent
 nl stijging f, stijghoogte f
 r ход m (зуба)
 $p_z = \pi d \cdot \text{ctg } \beta$

- 5.168 e addendum (h_a)
 d Kopfhöhe f (h_a)
 f hauteur f de saillie de dent (h_a)

- nl kophoogte f (h_a)

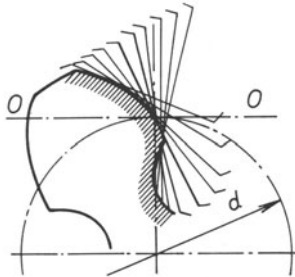
- r высота f (делительной) головки (зуба цилиндрического зубчатого колеса) (h_a) (→ 5.156)

- 5.169 e dedendum (h_f)
 d Fusshöhe f (h_f)
 f hauteur f du creux de dent (h_f)
 nl voethoogte f (h_f)
 r высота f (делительной) ножки (зуба цилиндрического зубчатого колеса) (h_f) (→ 5.156)



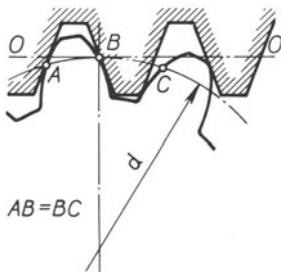
5.170

- 5.170 e tooth undercutting
 d Unterschneidung f (des Zahnes)
 f amincissement m de racine de dent
 nl ondersnijding f (*insnijding in de tandvoet bij vervaardiging van tandwielen*)
 r подрезание n (зуба)



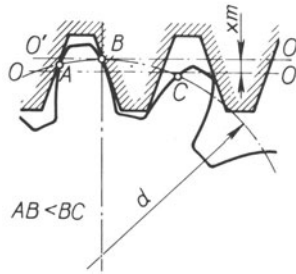
- 5.171 e addendum modification, correction
 d Profilverschiebung f
 f correction f, déplacement m de profil
 nl profielverschuiving f
 r смещение n исходного контура

- 5.172 e X-zero gear
 d Nullrad n
 f roue f normale
 nl nulwiel n
 r зубчатое колесо n без смещения



- 5.173 e X-gear
 d V-Rad n
 f roue f à denture corrigée
 nl V-wiel n, gecorrigeerd tandwiel

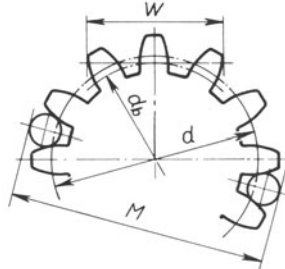
- г зубчатое колесо n со смещением



- 5.174 e addendum modification shift ($x \cdot m$)
 d Profilverschiebung f ($x \cdot m$)
 f correction f ($x \cdot m$)
 nl profielverschuiving f ($x \cdot m$)
 r смещение n (исходного контура) ($x \cdot m$)
 (→ 5.173)

- 5.175 e addendum modification coefficient (x)
 d Profilverschiebungsfaktor m (x)
 f coefficient m de correction (x)
 nl profielverschuivingsfactor m (x)
 r коэффициент m смещения (исходного контура) (x)
 (→ 5.173)

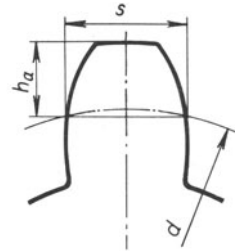
- 5.176 e base tangent length (W)
 d Zahnweitenmass n (W)
 f longueur f de normale commune (W)
 nl tandbreedtemaat f(m) (W)
 r длина f общей нормали (W)



- 5.177 e distance over pins (M)
 d Messgröße f über Rollen (M)
 f longueur f sur galets (M)

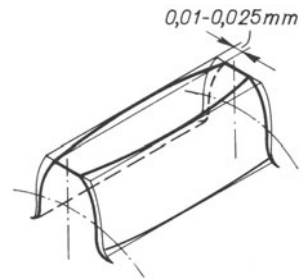
- nl over de rollen gemeten afstand m (M)
 r размер m по роликам (M) (→ 5.176)

- 5.178 e chordal thickness of tooth (\bar{S})
 d Zahndickensehnenmass n (\bar{S})
 f épaisseur f de dent à corde (\bar{S})
 nl over de koorde gemeten tanddikte f (\bar{S})
 r толщина f по хорде (зуба) (\bar{S})



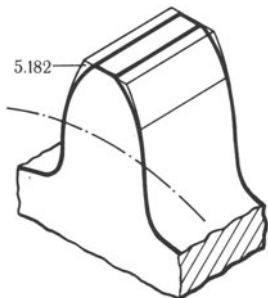
- 5.179 e chordal addendum (\bar{h}_a)
 d Messtiefe f (\bar{h}_a)
 f saillie f à corde (\bar{h}_a)
 nl koordehoogte f (\bar{h}_a)
 r высота f до хорды (\bar{h}_a)
 (→ 5.178)

- 5.180 e barrel-shaped tooth
 d Zahn m mit Breitenballigkeit
 f dent f bombée
 nl tand m met breedtebolheid
 r бочкообразная модификация f зуба



- 5.181 e tip-relieved tooth
 d Zahn m mit Kopfrücknahme
 f modification f de saillie de dent

- nl tand m met gewijzigd tandkopp profiel [met tandkora f name]
 r модификация f (профиля) головки (зуба)



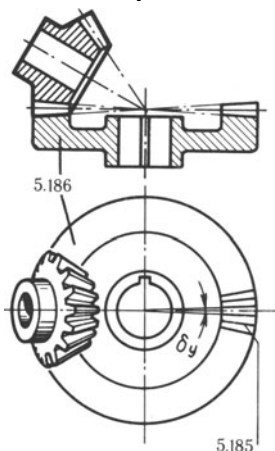
- 5.182 e tip relief
 d Kopfrücknahme f
 f hauteur f de modification de saillie de dent
 nl tandkora f name f(m)
 r глубина f модификации (профиля) головки (→ 5.181)

- 5.183 e bevel gear
 d Kegelrad n
 f roue f [engrenage m] conique
 nl kegelwiel n, conisch tandwiel
 r коническое зубчатое колесо n



- 5.184 e straight-tooth bevel gear
 d geradzahniges Kegelrad n, Geradzahn-Kegelrad
 f engrenage m conique à denture droite
 nl kegelwiel n met rechte tanden
 r коническое зубчатое колесо n с прямыми зубьями

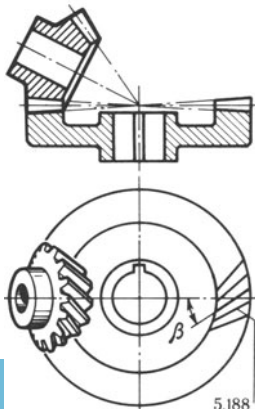
- ями, прямозубое коническое зубчатое колесо



- 5.185 e straight tooth
 d Geradzahn m
 f dent f droite
 nl rechte tand m
 r прямой зуб m (→ 5.184)

- 5.186 e crown wheel
 d Planrad n
 f engrenage m plat
 nl kroonwiel n
 r плоское (зубчатое) колесо n (→ 5.184)

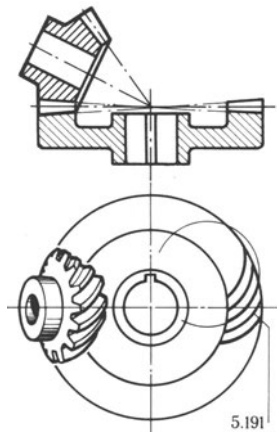
- 5.187 e skew bevel gear
 d Schrägzahn-Kegelrad m, schrägverzahniges Kegelrad
 f engrenage m conique à dents tangentielles
 nl schuinvertand kegelwiel n
 r коническое зубчатое колесо n с тангенциальными зубьями



- 5.188 e skew tooth
 d Schrägzahn m
 f dent f tangentielle
 nl schuine tand m
 r тангенциальный зуб m (→ 5.187)

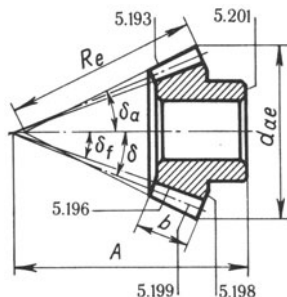
- 5.189 e offset angle (β)
 d Schrägungswinkel m (β)
 f angle m d'inclinaison de dent (β)
 nl hellingshoek m (β)
 r угол m наклона линии зуба (конического зубчатого колеса) (β) (→ 5.187)

- 5.190 e spiral bevel gear
 d Kreisbogen-Kegelrad n, Kreisbogenverzahniges Kegelrad
 f engrenage m conique à denture spirale
 nl conisch schroefwiel n
 r коническое зубчатое колесо n с круговой линией зубьев [с круговыми зубьями]



- 5.191 e circular arc tooth
 d Kreisbogenzahn m
 f dent f spirale
 nl cirkelboogtand m
 r круговой зуб m (→ 5.190)

- 5.192 e elements of a bevel gear
 d Bestimmungsgrößen f
 pl an Kegelrad
 f éléments m pl de roue conique
 nl elementen n pl en grondmaten n pl van een kegelwiel
 r элементы m pl и параметры m pl конического зубчатого колеса



- 5.193 e tip cone
 d Kopfkegel m
 f cône m de tête
 nl kopkegel m
 r конус m вершин (зубьев)
 (→ 5.192)
- 5.194 e tip cone angle (δ_a)
 d Kopfkegelwinkel m (δ_a)
 f angle m de tête (δ_a)
 nl kopkegelhoek m (δ_a)
 r угол m конуса вершин (зубьев) (δ_a)
 (→ 5.192)
- 5.195 e outside diameter (d_{ae})
 d äusserer Kopfkreisdurchmesser m (d_{ae})
 f diamètre m de tête (d_{ae})
 nl uitwendige kopcirkelmiddellijn f(m) (d_{ae})
 r внешний диаметр m вершин зубьев (d_{ae})
 (→ 5.192)
- 5.196 e root cone
 d Fusskegel m
 f cône m de pied
 nl voetkegel m
 r конус m впадин
 (→ 5.192)
- 5.197 e root cone angle (δ_f)
 d Fusskegelwinkel m (δ_f)
 f angle m de pied (δ_f)
 nl voetkegelhoek m (δ_f)

r угол m конуса впадин (δ_f)
 (→ 5.192)

- 5.198 e complementary cone
 d Ergänzungskegel m, Rückenkegel
 f cône m de base complémentaire
 nl complementshoek m
 r внешний (делительный) дополнительный конус m
 (→ 5.192)

- 5.199 e reference cone
 d Teilkegel m
 f cône m primitif
 nl steekkegel m
 r делительный конус m (конического зубчатого колеса)
 (→ 5.192)

- 5.200 e pitch angle (δ)
 d Teilkegelwinkel m (δ)
 f angle m du cône primitif d'engrenage (δ)
 nl steekkegelhoek m (δ)
 r угол m делительного конуса (конического зубчатого колеса) (δ)
 (→ 5.192)

- 5.201 e bearing face
 d Bezugsebene f
 f plan m de base
 nl grondvlak n, draagvlak
 r базовая плоскость f (конического зубчатого колеса)
 (→ 5.192)

- 5.202 e width of face (b)
 d Zahnbreite f (b)
 f largeur f de denture (b)
 nl tandbreedte f (b)
 r ширина f зубчатого венца (конического зубчатого колеса) (b)
 (→ 5.192)

- 5.203 e pitch cone radius (R_e)
 d äussere Spitzenentfernung f (R_e)
 f rayon m primitif du cône (R_e)
 nl steekkegelstraal m, f (R_e)
 r внешнее (делительное) конусное расстояние n (R_e)
 (→ 5.192)

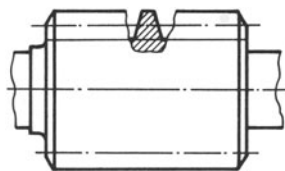
- 5.204 e mounting distance (A)
 d Einbaumass n (A)
 f distance f de montage (A)

nl inbouw lengtemaat f(m) (A)
 r базовое расстояние n (конического зубчатого колеса) (A)
 (→ 5.192)

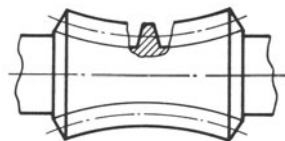
- 5.205 e worm
 d Schnecke f
 f vis f sans fin, vis tangente
 nl worm m
 r червяк m



- 5.206 e cylindrical worm
 d Zylinderschnecke f
 f vis f sans fin cylindrique
 nl cilindervormige worm m, cylinderworm
 r цилиндрический червяк m

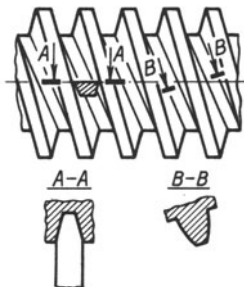


- 5.207 e globoidal [hour-glass] worm
 d Globoidschnecke f
 f vis f globique
 nl globoidworm m
 r глобоидный червяк m



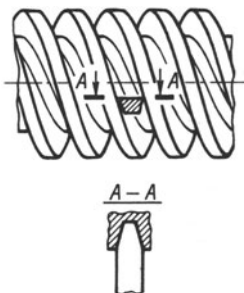
- 5.208 e Archimede's worm
 d Spiralschnecke f, ZA-Schnecke
 f vis f d'Archimède [tangente ZA]
 nl schroef f(m) van Archimedes

г архимедов червяк m ,
червяк ZA



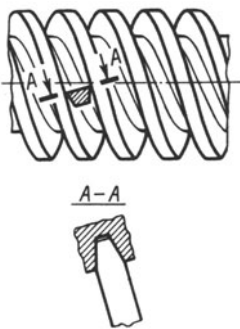
5.209 e involute worm
d Evolventenschnecke f ,
ZE-Schnecke
f vis f sans fin en développante, vis tangente ZE
nl evolvente worm m ,
ZE-worm

г эвольвентный червяк m ,
червяк ZE

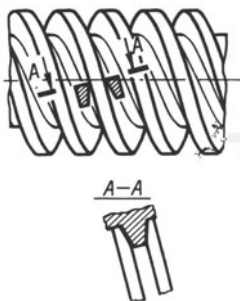


5.210 e thread-convolute worm
d Schnecke f mit trapezförmigem Zahnprofil,
ZN1-Schnecke
f vis f tangente ZN1
nl worm m met trapeziumvormig tandprofiel,
ZN1-worm

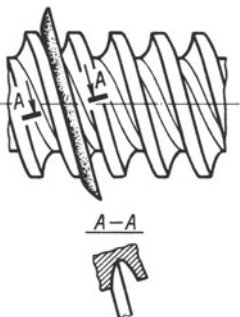
г червяк m с прямолинейным профилем витка,
червяк ZN1



5.211 e thread-space convolute worm
d Schnecke f mit trapezförmigem Lückenprofil,
ZN2-Schnecke
f vis f tangente ZN2
nl worm m met trapeziumvormig tandkuilprofiel,
ZN2-worm
г червяк m с прямолинейным профилем впадины,
червяк ZN2

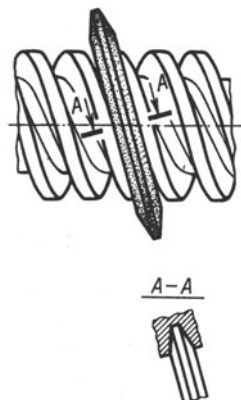


5.212 e worm ground by toroidal wheel
d ZT-Schnecke f
f vis f tangente ZT
nl ZT-worm m , cilindervormige, van een toroïde gevormde worm
г цилиндрический, образованный тором червяк m , червяк ZT

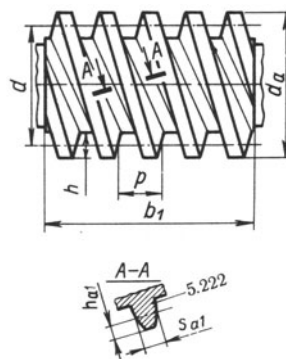


5.213 e worm ground by cone wheel
d ZK-Schnecke f
f vis f tangente ZK
nl ZK-worm m , cilindervormige, van een kegel gevormde worm

г цилиндрический, образованный конусом червяк m , червяк ZK



5.214 e elements of a cylindrical worm
d Bestimmungsgrößen f pl an Zylinderschnecke
f éléments m pl de vis sans fin cylindrique
nl elementen n pl en grondmaten n pl van en cilinder vormige worm
г элементы n pl и параметры m pl цилиндрического червяка



5.215 e tip cylinder diameter (d_a)
d Kopfkreisdurchmesser m (d_a)
f diamètre m de tête (d_a)
nl kopcirkeldiameter m (d_a)
г диаметр m в вершин витков (d_a)
(→ 5.214)

5.216

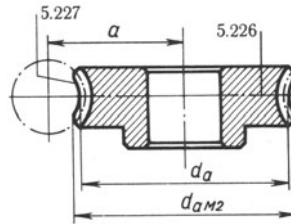
- 5.216 e pitch diameter (d)
 d Teilkreisdurchmesser m (d)
 f diamètre m du cercle primitif (d)
 nl steekcirkeldiameter m (d)
 r делительный диаметр m (d)
 (→ 5.214)
- 5.217 e threaded length (b_1)
 d Schneckenlänge f (b_1)
 f longueur f filetée (b_1)
 nl wormlengte f (b_1)
 r длина f нарезанной части червяка (b_1)
 (→ 5.214)
- 5.218 e axial pitch (p)
 d Achsteilung f (p)
 f pas m axial (p)
 nl axiale steek m (p)
 r (расчётный) шаг m червяка (p)
 (→ 5.214)

- 5.219 e axial module
 d Achsmodul m
 f module m axial
 nl axiale modulus m
 r (расчётный) модуль m (червяка)

$$m = \frac{p}{\pi}$$

- 5.220 e number of threads
 d Zähnezahl f der Schnecke
 f nombre m de filets
 nl aantal n gangen
 r число n витков
- 5.221 e whole depth of thread (h)
 d Zahnhöhe f (h)
 f profondeur f du filet (h)
 nl tandhoogte f (h)
 r высота f витка (h)
 (→ 5.214)
- 5.222 e thread profile in normal section
 d Zahnprofil m im Normalschnitt
 f profil m normal de spire
 nl tandprofiel n in normale doorsnede
 r профиль m витка в нормальном сечении витка
 (→ 5.214)
- 5.223 e chordal thickness of thread (S_{a_1})
 d Zahndickensehnenmass m (S_{a_1})

- f épaisseur f de vis à corde (S_{a_1})
 nl over de koorde gemeten tanddikte f (S_{a_1})
 r толщина f по хорде витка (S_{a_1})
 (→ 5.214)
- 5.224 e chordal height of thread (h_{a_1})
 d Messtiefe f (h_{a_1})
 f hauteur f à corde (h_{a_1})
 nl tandkoordehoogte f (h_{a_1})
 r высота f до хорды витка (h_{a_1})
 (→ 5.214)
- 5.225 e worm wheel
 d Schneckenrad n
 f roue f à vis [tangente]
 nl wormwiel n
 r червячное колесо n

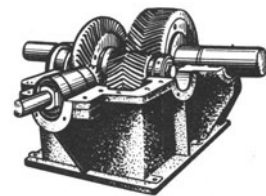


- 5.226 e medium [central] plane of worm-wheel rim
 d Stirnmittelebene f
 f plan m moyen de roue tangente
 nl middelvlak n
 r средняя (торцовая) плоскость f (червячного колеса)
 (→ 5.225)
- 5.227 e throat
 d Kehlfäche f
 f creux m
 nl keelvlak n
 r выемка f (поверхности вершин зубьев колеса)
 (→ 5.225)
- 5.228 e throat diameter (d_a)
 d Kehldurchmesser m (d_a)
 f diamètre m de creux (d_a)
 nl keelmiddellijn $f(m)$ (d_a)
 r средний диаметр m вершин (зубьев червячного колеса) (d_a)
 (→ 5.225)

- 5.229 e outside diameter (of worm-wheel rim) (d_{am_2})
 d Aussendurchmesser m (des Schneckenrades) (d_{am_2})
 f diamètre m extérieur de roue tangente (d_{am_2})
 nl buitendiameter m (d_{am_2}) (червячного колеса) (d_{am_2})
 r наибольший диаметр m (червячного колеса) (d_{am_2})
 (→ 5.225)
- 5.230 e centre distance in cutting (a)
 d Erzeugungsachsabstand m (a)
 f entr'axe m en usinage (a)
 nl hartafstand m , asafstand (a)
 r делительное межосевое расстояние m в станочном зацеплении (a)
 (→ 5.225)

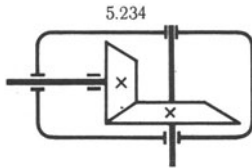
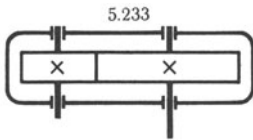
Speed Reducers Getriebeeinheiten Réducteurs Reduktoren Редукторы

- 5.231 e (speed) reducer, reduction gear unit
 d Getriebe(einheit) n (f)
 f réducteur m (de vitesse)
 nl reductiekast f (m)
 r редуктор m



- 5.232 e single-stage (speed) reducer, single-reduction unit
 d einstufiges Getriebe n , einstufige Getriebeeinheit f
 f réducteur m à simple train

nl enkelvoudige reductiekast f (m)
r одноступенчатый редуктор m

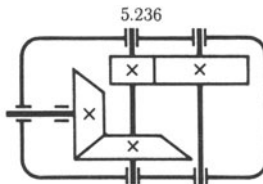
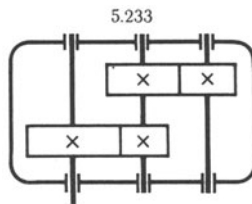


5.233 e parallel-shaft (speed) reducer, parallel-shaft reduction gear unit
d Stirnrädergetriebe(einheit) n (f)
f réducteur m à pignons droits [à engrenages cylindriques]
nl reductiekast f (m) met rechte tandwielen
r цилиндрический редуктор m (→ 5.232, 5.235)

5.234 e right-angle (speed) reducer, right-angle reduction gear unit
d Kegelrädergetriebe(einheit) n (f)
f réducteur m à engrenages coniques
nl haakse reductiekast f (m)
r конический редуктор m (→ 5.232)

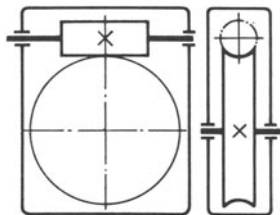
5.235 e two-stage (speed) reducer, double-reduction gear unit
d zweistufiges Getriebe n, zweistufige Getriebeeinheit f
f réducteur m à double train
nl reductiekast f(m) [vertragskast] met twee tandwieltrappen

г двухступенчатый редуктор m



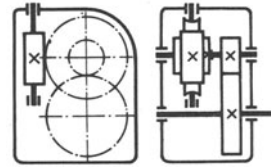
5.236 e two-stage right-angle (speed) reducer, double-reduction right-angle reduction gear unit
d Stirn- und Kegelrädergetriebe(einheit) n (f)
f réducteur m à double train d'engrenages coniques et cylindriques
nl reductiekast f(m) met twee tandwieltrappen in haakse uitvoering
r коническо-цилиндрический редуктор m

5.237 e worm-gear speed reducer, worm reduction unit
d Schneckengetriebe(einheit) n (f)
f réducteur m à vis sans fin
nl wormwielreductiekast f(m)
r червячный редуктор m



5.238 e two-stage worm (speed) reducer, double-reduction wormgear unit
d Stirnräder- und Schneckengetriebe(einheit) n (f)
f réducteur m à vis sans fin d'engrenages cylindriques

nl dubbele wormwielreductiekast f (m)
r червячно-цилиндрический редуктор m

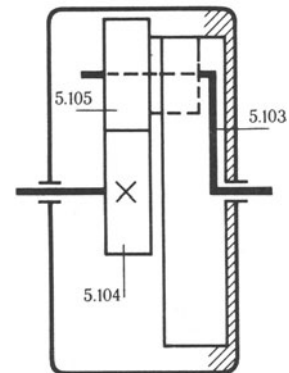


5.239 e epicyclic-gear-train (speed) reducer, planetary gear unit

d Planetengetriebe(einheit) n (f), Umlaufgetriebe(einheit)

f réducteur m planétaire [epicycloïdal]

nl planeetwielreductiekast f(m)
r планетарный редуктор m



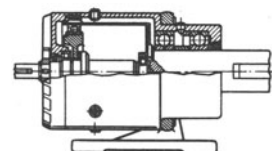
5.240 e harmonic drive unit, wave form gear reduction unit

d Wellenzahnradgetriebe(einheit) n (f)

f réducteur m d'ondes

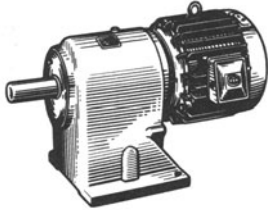
nl harmonische tandwielreductiekast f(m)

r волновой редуктор m



5.241

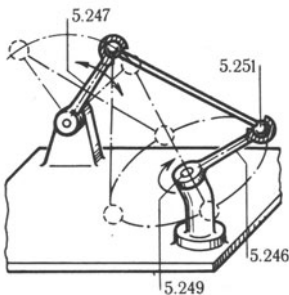
- 5.241 e gearmotor, geared motor
 d Getriebemotor m
 f motoréducteur m
 nl reductormotor m
 r мотор-редуктор m



Mechanisms
Getriebe
Mécanismes
Mechanismen
Механизмы

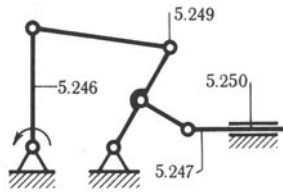
- 5.242 e mechanism
 d Getriebe n, Mechanismus m
 f mécanisme m
 nl mechanisme n, drijfwerk n
 r механизм m
 (→ 5.243, 5.244)

- 5.243 e spatial mechanism
 d Raumgetriebe n, räumliches Getriebe
 f mécanisme m d'espace
 nl driedimensionaal drijfwerk n
 r пространственный механизм m



- 5.244 e planar mechanism
 d ebenes Getriebe n
 f mécanisme m plan

- nl vlak [tweedimensionaal] drijfwerk n
 r плоский механизм m



- 5.245 e link
 d Glied n
 f élément m
 nl schakel m, element n
 r звено n
 (→ 5.243, 5.244)

- 5.246 e input [driving] link
 d Antriebsglied n
 f élément m menant
 nl aandrijvend element n
 r ведущее звено n
 (→ 5.243, 5.244)

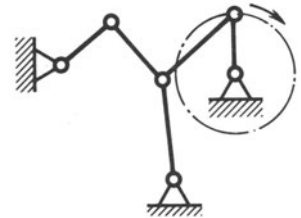
- 5.247 e output [driven] link
 d Abtriebsglied n
 f élément m mené
 nl aangedreven element n
 r ведомое звено n
 (→ 5.243, 5.244)

- 5.248 e kinematic pair
 d Elementenpaar n
 f couple m cinématique
 nl paar n kinematische elementen
 r кинематическая пара f
 (→ 5.243, 5.244)

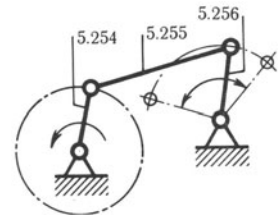
- 5.249 e turning pair, hinge
 d Drehgelenk m, Drehpaar n
 f couple m de rotation, charnière f
 nl scharnier n, draaiend paar n elementen
 r вращательная пара f, шарнир m
 (→ 5.243, 5.244)

- 5.250 e rectilinear sliding pair
 d Schubgelenk n, Schiebepaar n
 f couple m de glissement
 nl rechtlijnig glijdend paar n elementen
 r поступательная пара f
 (→ 5.244)

- 5.251 e spheric pair
 d Kugelgelenk n, Kugel-paar n
 f charnière f universelle
 nl kogelscharnier n
 r сферическая пара f
 (→ 5.243)
- 5.252 e articulated mechanism
 d Drehgelenkgetriebe n
 f mécanisme m articulé
 nl scharnierkoppeling f
 r шарнирный механизм m

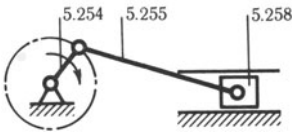


- 5.253 e crank-and-rocker mechanism
 d Kurbelschwinge f
 f mécanisme m levier-manivelle
 nl kruk- en zwenkdrijfwerk n
 r кривошипно-коромысловый механизм m



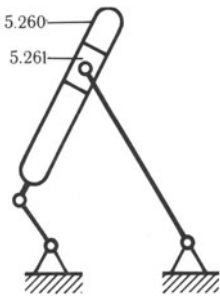
- 5.254 e crank
 d Kurbel f
 f manivelle f
 nl kruk f(m)
 r кривошип m
 (→ 5.253, 5.257)
- 5.255 e connecting rod
 d Koppel f, Schubstange f, Pleuelstange, Treibstange f bielle f
 nl krukstang f (m)
 r шатун m
 (→ 5.253, 5.257)
- 5.256 e rocker
 d Schwinge f, Schwengel m
 f levier m (oscillant)
 nl tuimelaar m
 r коромысло n
 (→ 5.253)

- 5.257 e slider-crank mechanism
 d Schubkurbel(getriebe) f(n)
 f mécanisme m manivelle
 nl schuif- en krukdrifwerk n
 r кривошипно-ползунный механизм m



- 5.258 e ram, slider, slide block
 d Gleitstein m
 f crosse f, glissière f
 nl schaarblok n, leiblok
 r ползун m
 (→ 5.257)

- 5.259 e slotted link mechanism, linkage with moving slide
 d Kurbelschleife f
 f mécanisme m à coulisse
 nl schaarbeweging f, coulissebeweging
 r кулисный механизм m

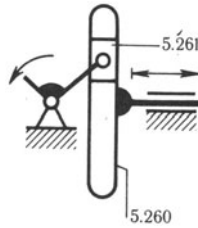


- 5.260 e slotted link, moving slide
 d Schleifenhebel m
 f coulisse f
 nl schaar f(m), coulisse f
 r кулиса f
 (→ 5.259, 5.262, 5.263, 5.264)

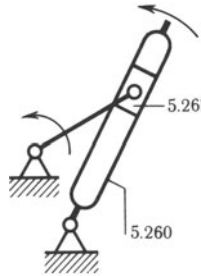
- 5.261 e slide block
 d Gleitstein m
 f coulisseau m, patin m
 nl schaarblok n, schaarblok m
 r кулисный камень m
 (→ 5.259, 5.262, 5.263, 5.264)

- 5.262 e sliding slotted link
 d Kreuzschleife f
 f coulisse f progressive
 nl voortgaande schaar f(m)

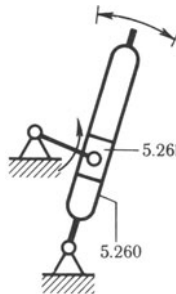
- г поступательно-движущаяся кулиса f



- 5.263 e rotating slotted link
 d umlaufender Schleifenhebel m
 f coulisse f rotative
 nl roterende schaar f(m)
 r вращающаяся кулиса f

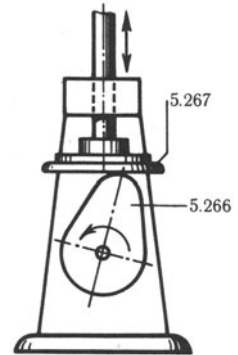


- 5.264 e oscillating slotted link
 d schwingender Schleifenhebel m
 f coulisse f oscillante
 nl oscillerende schaar f(m)
 r качающаяся кулиса f



- 5.265 e cam mechanism
 d Kurvengetriebe n
 f mécanisme m à came

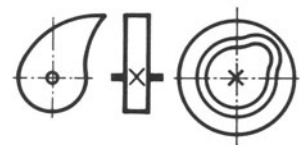
- nl nokkenoverbrenging f, nokkenmechanisme n
 r кулачковый механизм m



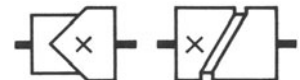
- 5.266 e cam
 d Kurventräger m, Kurve f
 f came f
 nl nok f(m)
 r кулачок m
 (→ 5.265)

- 5.267 e follower
 d Stößel m
 f poussoir m
 nl stoter m
 r толкатель m
 (→ 5.265)

- 5.268 e radial [plate] cam
 d Kurvenscheibe f
 f came f plate
 nl radiale nok f(m)
 r (плоский) дисковый кулачок m

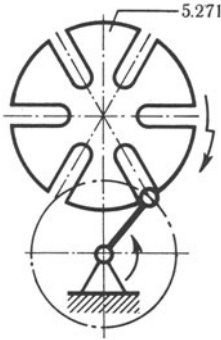


- 5.269 e drum [cylinder] cam
 d Zylinderkurve f
 f came f cylindrique
 nl cilinder nok f(m)
 r барабанный кулачок m



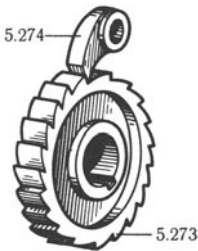
5.270

- 5.270 e Geneva mechanism
 d Malteserkreuzgetriebe n
 f système m à croix de Malte
 nl maltezerkruisdrijfwerk n
 r мальтийский механизм m



- 5.271 e Geneva wheel
 d Stern m des Malteserkreuzes
 f croix f de Malte
 nl maltezerkruis n
 r мальтийский крест m (→ 5.270)

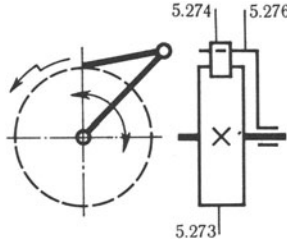
- 5.272 e ratchet gearing
 d Klinkenschaftwerk n
 f mécanisme m par rochet et cliquet, mécanisme d'engrenage
 nl palwerk n
 r храповой механизм m



- 5.273 e ratchet wheel
 d Sperrad n
 f roue f à rochet
 nl palwiel n
 r храповое колесо n (→ 5.272, 5.275; 5.277)

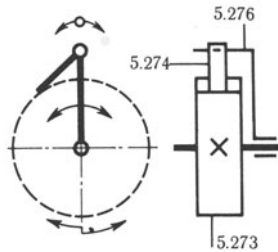
- 5.274 e pawl, detent
 d Schaltklinke f
 f cliquet m
 nl pal m
 r (храповая) собачка f (→ 5.272, 5.275, 5.277)

- 5.275 e one-way ratchet gearing
 d einseitiges Klinkenschaftwerk n
 f mécanisme m unilatéral par rochet et cliquet
 nl enkelwerkend palwerk n
 r односторонний храповой механизм m

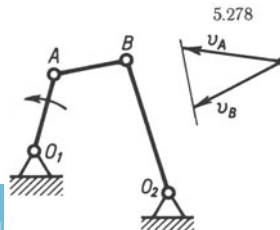


- 5.276 e carrier
 d Steg m
 f chassis m porte-satellite
 nl meenemer n
 r водило n (→ 5.275, 5.277)

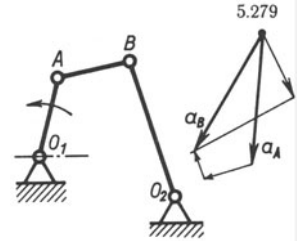
- 5.277 e two-way ratchet gearing
 d zweiseitiges Klinkenschaftwerk n
 f mécanisme m bilatéral par rochet et cliquet
 nl dubbelwerkend palwerk n
 r двусторонний храповой механизм m



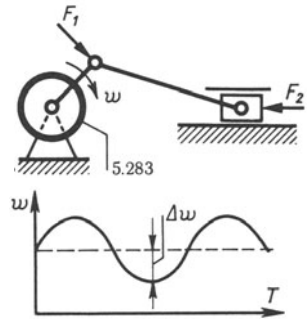
- 5.278 e velocity vector diagram
 d Geschwindigkeitsplan m
 f plan m de vitesses
 nl snelheidsdiagram n
 r план m скоростей механизма



- 5.279 e acceleration vector diagram
 d Beschleunigungsplan m
 f plan m d'accélération
 nl versnellingsdiagram n
 r план m ускорений механизма



- 5.280 e motive force (F_1)
 d Triebkraft f (F_1)
 f force f mouvante (F_1)
 nl drijfkracht f(m) (F_1)
 r движущая сила f (F_1)



- 5.281 e resistance force (F_2)
 d Widerstandskraft f (F_2)
 f force f résistante (F_2)
 nl weerstandskracht f(m) (F_2)
 r сила f сопротивления (F_2) (→ 5.280)

- 5.282 e velocity fluctuation ($\Delta\omega$)
 d Ungleichförmigkeitsgrad m ($\Delta\omega$)
 f irrégularité f du mouvement ($\Delta\omega$)
 nl snelheidsschommeling f ($\Delta\omega$)
 r неравномерность f хода ($\Delta\omega$) (→ 5.280)

- 5.283 e flywheel
 d Schwungrad m
 f volant m
 nl vliegwiel n
 r маховик m (→ 5.280)

6. MACHINE DRIVE
 MASCHINENANTRIEB
 COMMANDE DES MACHINES
 MACHINEAANDRIJVING
 ПРИВОД МАШИН

Heat Engines

Wärmekraftmaschinen

Machines thermiques

Warmtemotoren

Тепловые двигатели

6.1 e heat

d Wärme f

f chaleur f

nl warmte f

r теплота f



6.2 e quantity of heat (Q)

d Wärmemenge f (Q)

f quantité f de chaleur (Q)

nl warmtehoeveelheid f (Q)

r количество тепла (Q)

$$1 \text{ B.T.U.} = \frac{5}{9} \text{ C.H.U.} = 0,25 \text{ kcal} = 1,055 \text{ kJ}$$

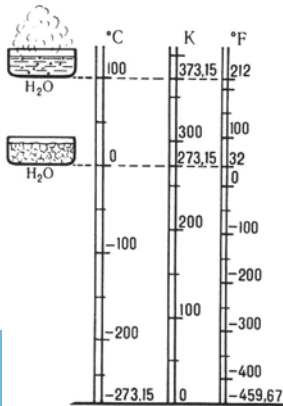
6.3 e temperature (T)

d Temperatur f (T)

f température f (T)

nl temperatuur f (T)

r температура f (T)



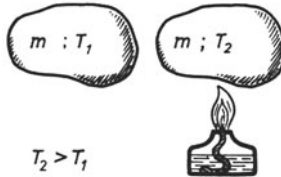
6.4 e specific heat

d spezifische Wärme f

f chaleur f spécifique

nl soortelijke warmte f

r удельная теплоёмкость f



$$C = \frac{Q}{(T_2 - T_1) \cdot m} \text{ J/kg} \cdot \text{K}$$

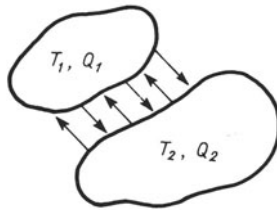
6.5 e transfer of heat, heat transmission

d Wärmeübertragung f

f échange m calorifique [de chaleur]

nl warmteoverdracht f(m),
 warmtetransport n

r теплообмен m



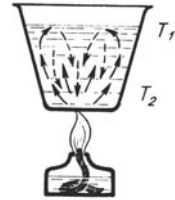
6.6 e convection (of heat)

d Konvektion f

f échange m convectif de chaleur

nl convectie f

г конвективный теплообмен m



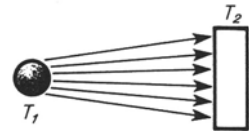
6.7 e radiation

d Strahlung f

f échange m de chaleur rayonnante

nl straling f

г лучистый теплообмен m



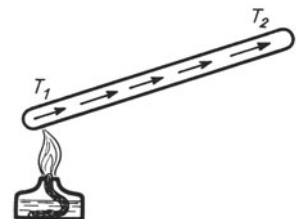
6.8 e conduction (of heat)

d Wärmeleitung f

f conductibilité f calorifique

nl warmtegeleiding f

г теплопроводность f

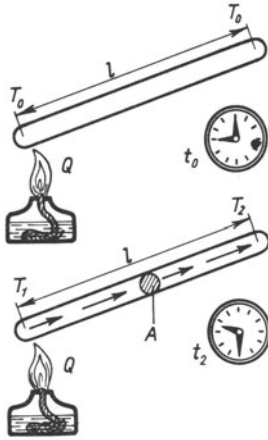


6.9 e thermal conductivity, heat transfer coefficient

d Wärmeleitzaahl f

f coefficient m d'échange de chaleur

nl warmtegeleidingscoëfficiënt m
 r коэффициент теплопроводности

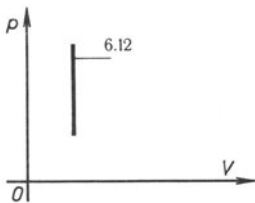


$$\lambda = \frac{Q}{(t_1 - t_0) A} \cdot \frac{l}{(T_2 - T_1)}$$

$J/m^2 \cdot s \cdot K$

6.10 e thermodynamic process
 d Zustandsänderung f
 f processus m thermodynamique
 nl thermodynamisch proces n, thermodynamische toestandsverandering f
 r термодинамический процесс m
 (→ 6.11, 6.13, 6.15, 6.17)

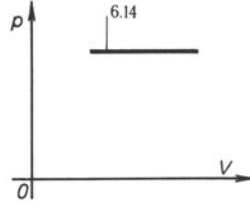
6.11 e isovolumic process
 d isochore Zustandsänderung f
 f transformation f isochore
 nl proces n bij constant volume
 r изохорический процесс m



6.12 e isochore
 d Isochore f
 f isochore f

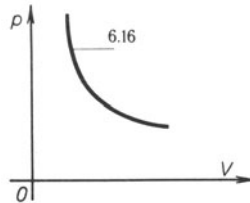
nl isochoor m
 r изохора f
 (→ 6.11)

6.13 e constant-pressure process
 d isobare Zustandsänderung f
 f processus m isobarique
 nl proces n bij constante druk
 r изобарический процесс m



6.14 e constant-pressure line
 d Isobare f
 f isobare f
 nl isobaar m
 r изобара f
 (→ 6.13)

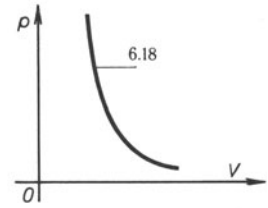
6.15 e isothermic process
 d isotherm(isch)e Zustandsänderung f
 f transformation f isothermique
 nl isotherme toestandsverandering f, isotherm proces n
 r изотермический процесс m



6.16 e isothermal line
 d Isotherme f
 f isotherme f
 nl isotherm m
 r изотерма f
 (→ 6.15)

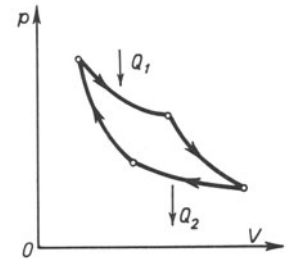
6.17 e adiabatic process
 d adiabatische Zustandsänderung f
 f transformation f adiabatique

nl adiabatisch proces n, adiabatische toestandsverandering f
 r адиабатический процесс m

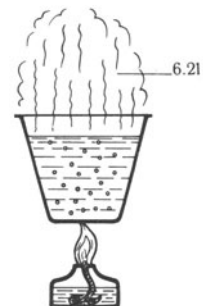


6.18 e adiabatic line
 d Adiabate f
 f adiabatique f
 nl adiabaat m
 r адиабата f
 (→ 6.17)

6.19 e Carnot cycle
 d Carnotscher Kreisprozess m, Carnotprozess
 f cycle m de Carnot
 nl kringproces n van Carnot
 r цикл м Карно



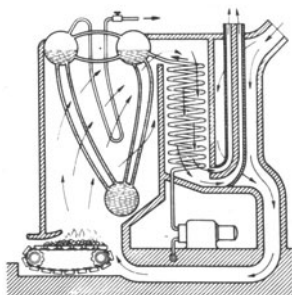
6.20 e evaporation
 d Verdampfung f
 f évaporation f, vaporisation f
 nl verdamping f
 r испарение n



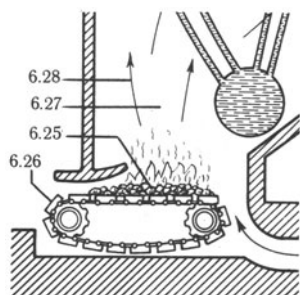
6.21 e vapo(u)r
d Dampf m
f vapeur f
nl damp m, stoom m
r пар m
(→ 6.20)

6.22 e saturated vapo(u)r
d Sattedampf m
f vapeur f saturée
nl verzadigde damp m
r насыщенный пар m

6.23 e steam generating unit,
(steam) boiler
d Dampfkessel m
f groupe m de chaudières
nl stoomketel m
r котельный агрегат m



6.24 e furnace
d Feuerung f
f boîte f à feu, foyer m
nl vuurgang m
r топка f



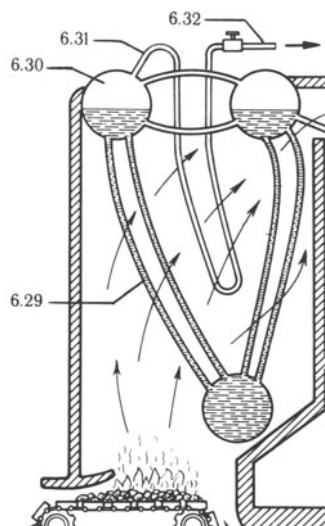
6.25 e fuel
d Brennstoff m
f combustible m, carburant m
nl brandstof m
r топливо n
(→ 6.24)

6.26 e chain-grate stoker
d Wanderrost m
f grille f mécanique
nl kettingrooster m
r движущаяся колоснико-
вая решётка f
(→ 6.24)

6.27 e combustion chamber
d Feuerraum m
f chambre f de chauffe
nl vlakast f (m)
r топочная камера f
(→ 6.24)

6.28 e flue gases
d Rauchgase n pl
f gaz m de gueulard
nl rookgassen n pl
r топочные газы m pl
(→ 6.24)

6.29 e water tube
d Siederohr n
f tuyau m d'eau
nl vlakpijp f (m)
r кипяtilная труба f

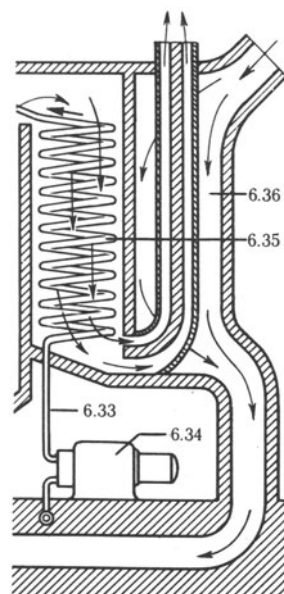


6.30 e steam [water] drum
d Trommel f
f virole f de chaudière à
vapeur
nl stoomkast f (m)
r барабан m (парового
котла)
(→ 6.29)

6.31 e superheater
d Überhitzer m
f surchauffeur m de vapeur
nl oververhitter m
r пароперегреватель m
(→ 6.29)

6.32 e steam tube
d Dampfrohr n
f tuyau m de vapeur
d'échappement
nl stoompijp f (m)
r паропроводящая труба f
(→ 6.29)

6.33 e feed water
d Speiswasser n
f eau f d'alimentation
nl voedingswater n
r питательная вода f

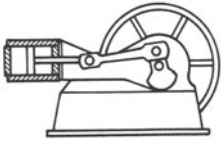


6.34 e feed pump
d Speisepumpe f
f pompe f d'alimentation
nl voedingspomp f (m),
aanvoerpomp
r питательный насос m
(→ 6.33)

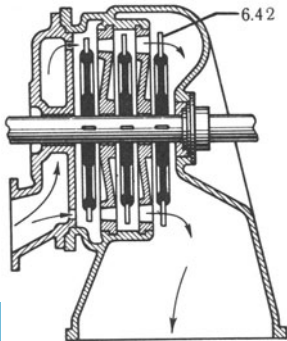
6.35 e economizer
d Wasservorwärmer m
f économiseur m, enrichis-
seur m de puissance
nl voorverwarmer m, eco-
nomiser m
r (водяной) экономайзер m
(→ 6.33)

6.36

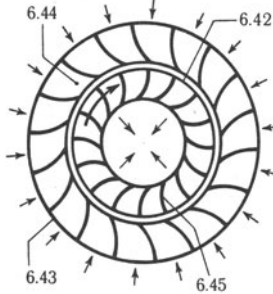
- 6.36 e air pre-heater
 d Luftvorwärmer m
 f réchauffeur m d'air
 nl luchtverwarmer m, luchtverhitter m
 r воздухоподогреватель m (→ 6.33)
- 6.37 e heat engine
 d Wärmekraftmaschine f
 f machine f thermique
 nl warmtemachine f, warmtemotor m
 r тепловой двигатель m (→ 6.38, 6.41, 6.55, 6.62)
- 6.38 e steam engine
 d Kolbendampfmaschine f
 f machine f à vapeur
 nl stoommachine f
 r паровая машина f



- 6.39 e turbine
 d Turbine f
 f turbine f
 nl turbine f
 r турбина f (→ 6.41, 6.47, 6.55)
- 6.40 e steam turbine
 d Dampfturbine f
 f turbine f à vapeur
 nl stoomturbine f
 r паровая турбина f
- 6.41 e impulse (type) turbine
 d Gleichdruckturbine f
 f turbine f à action
 nl gelijkdrukturbine f
 r активная турбина f



- 6.42 e impulse [rotor] wheel
 d Laufrad n
 f disque m de turbine
 nl loopwiel n
 r рабочее колесо n, диск m (турбины) (→ 6.41, 6.43)
- 6.43 e set of nozzles
 d Düsenkranz m
 f appareil m en buses
 nl straalbuizenkranz f (m)
 r сопловой аппарат m

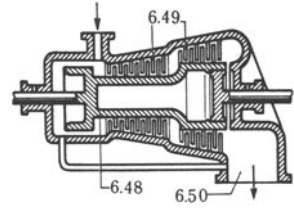


- 6.44 e nozzle
 d Düse f
 f tuyère f, buse f
 nl straalbuis f(m), mondstuk n
 r сопло n (→ 6.43)
- 6.45 e set of blades, blade row
 d Schaufelkranz m
 f distributeur m d'aubes
 nl schoepenkrans f(m)
 r лопаточный аппарат m (→ 6.43)
- 6.46 e (turbine) blade [bucket]
 d Laufschaufel f
 f aube f mobile
 nl turbineschoep f (m)
 r (турбинная) лопатка f

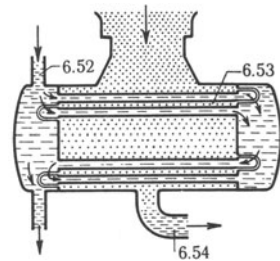


- 6.47 e reaction (type) turbine
 d Überdruckturbine f
 f turbine f à réaction

- nl overdrukturbine f, reactieturbine
 r реактивная турбина f



- 6.48 e rotor drum
 d Trommelläufer m
 f tambour m
 nl turbinetrommel f (m)
 r барабан m ротора (→ 6.47)
- 6.49 e guide blade
 d Leitschaufel f
 f aube f directrice
 nl leischoep f(m)
 r направляющая лопатка f (→ 6.47)
- 6.50 e exhaust hood
 d Abdampfstutzen m
 f raccord m de sortie
 nl uitlaatpijp f(m)
 r выпускной патрубок m (→ 6.47)
- 6.51 e (vapor) condenser
 d Kondensator m
 f condenseur m
 nl condens(at)or m, verdichter m
 r конденсатор m

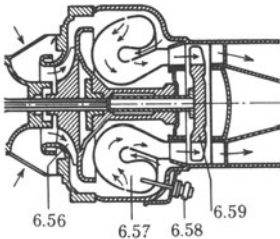


- 6.52 e cooling water
 d Kühlwasser n
 f eau f réfrigérante
 nl koelwater n
 r охлаждающая вода f (→ 6.51)

6.53 e condenser tube
 d Kondensatorrohr n, Kühlrohr
 f tube m de condenseur
 nl condensorpijp f(m)
 r конденсаторная трубка f
 (→ 6.51)

6.54 e condensate
 d Kondensat n
 f condensat m
 nl condensaat n
 r конденсат m
 (→ 6.51)

6.55 e gas turbine plant
 d Gasturbinenanlage f
 f moteur m à gaz à turbine
 nl gasturbinemotor m
 r газотурбинный двигатель m



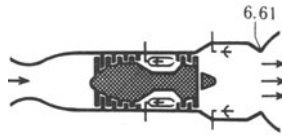
6.56 e axial compressor
 d Axialverdichter m, Axialkompressor m
 f compresseur m axial
 nl axiale compressor m
 r осевой компрессор m
 (→ 6.55)

6.57 e combustor, combustion chamber
 d Brennkammer f
 f chambre f de combustion
 nl verbrandingskamer f(m)
 r камера f сгорания
 (→ 6.55)

6.58 e fuel nozzle
 d Einspritzdüse f
 f injecteur m, brûleur m
 nl brandstofverstuiver m
 r форсунка f
 (→ 6.55)

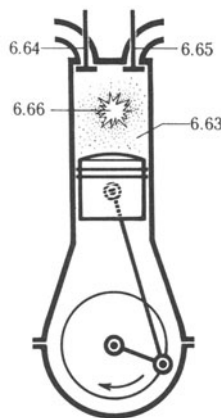
6.59 e gas turbine
 d Gasturbine f
 f turbine f à gaz
 nl gasturbine f
 r газовая турбина f
 (→ 6.55)

6.60 e turbojet
 d Strahltriebwerk n
 f turboréacteur m
 nl turbinestraalmotor m
 r турбореактивный двигатель m



6.61 e jet nozzle
 d Vortriebsdüse f
 f tuyère f à réaction
 nl straalpijp f (m)
 r реактивное сопло n
 (→ 6.60)

6.62 e internal combustion engine
 d Verbrennungsmotor m
 f moteur m à combustion interne
 nl verbrandingsmotor m
 r двигатель m внутреннего сгорания



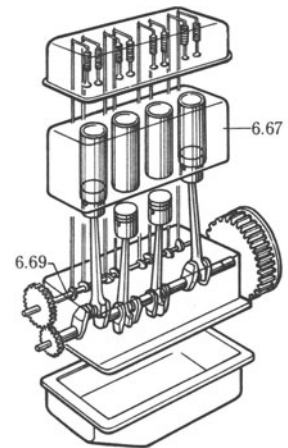
6.63 e air-fuel mixture
 d Kraftstoff-Luftgemisch n
 f mélange m air-combustible
 nl brandstofmengsel n
 r топливно-воздушная [рабочая, горючая] смесь f
 (→ 6.62)

6.64 e inlet valve
 d Einlassventil n
 f soupape f d'admission
 nl inlaatklep f(m)
 r впускной клапан m
 (→ 6.62)

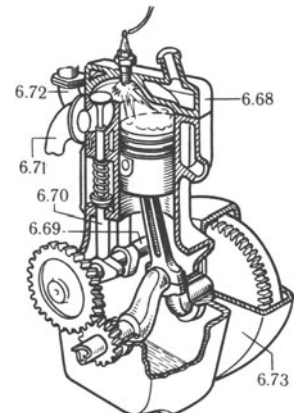
6.65 e exhaust valve
 d Auslassventil n
 f soupape f d'échappement
 nl uitlaatklep f(m)
 r выпускной клапан m
 (→ 6.62)

6.66 e combustion
 d Verbrennung f
 f combustion f
 nl verbranding f
 r сгорание n
 (→ 6.62)

6.67 e cylinder block
 d Zylinderblock m
 f bloc m de cylindres
 nl cilinderblok n
 r блок m цилиндров



6.68 e cylinder head
 d Zylinderkopf m
 f culasse f
 nl cilinderkop m
 r головка f цилиндра



6.69

6.69 e camshaft
 d Steuerwelle f
 f arbre m de distribution
 nl nokkenas f(m)
 r распределительный вал m
 (→ 6.67, 6.68)

6.70 e valve tappet
 d Stoss-Stange f
 f poussoir m de soupape
 nl klepstoter m
 r толкатель m (клапана)
 (→ 6.68)

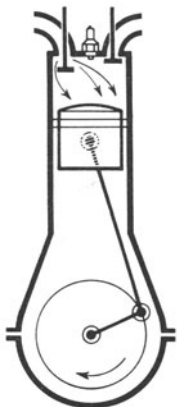
6.71 e exhaust manifold
 d Auspuffleitung f
 f tuyau m de sortie
 nl uitlaatspruitstuk n
 r выпускная труба f
 (→ 6.68)

6.72 e inlet manifold
 d Einlassleitung f
 f tube m d'admission
 nl inlaatspruitstuk n
 r впускная труба f, впускной клапан m
 (→ 6.68)

6.73 e crankcase
 d Kurbelgehäuse n
 f carter m
 nl carter n
 r картер m
 (→ 6.68)

6.74 e four-stroke cycle
 d Viertaktverfahren n
 f cycle m à quatre temps
 nl viertactcyclus m, vierslagcyclus
 r четырёхтактный цикл m
 (→ 6.75 – 6.78)

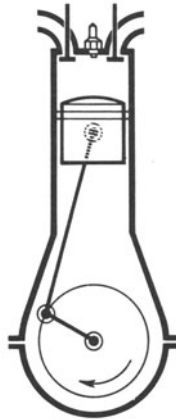
6.75 e intake [suction] stroke
 d Ladetakt m, Ansaugtakt



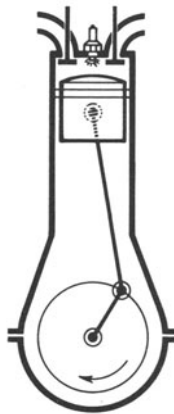
6.78 e exhaust stroke
 d Ausschietbetakt m
 f temps m d'échappement

f temps m d'admission
 nl inlaatslag m
 r такт m впуска

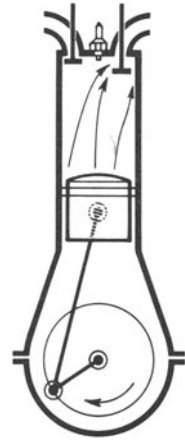
6.76 e compression stroke
 d Verdichtungstakt m
 f temps m de compression
 nl compressieslag m
 r такт m сжатия



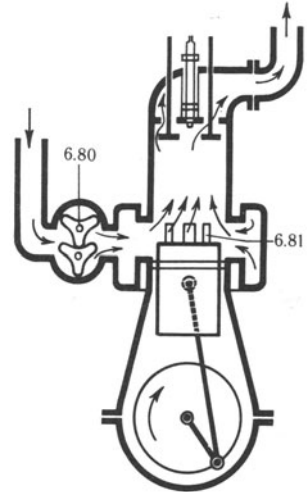
6.77 e expansion stroke
 d Arbeitstakt m
 f temps m de détente
 nl arbeidsslag m
 r такт m расширения



nl uitlaatslag m
 r такт m выпуска



6.79 e two-stroke engine
 d Zweitaktmotor m
 f moteur m à deux temps
 nl tweetaktmotor m
 r двухтактный двигатель m



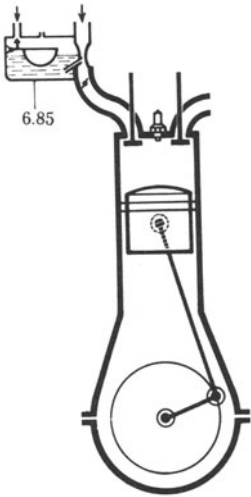
6.80 e scavenge pump
 d Spülpumpe f
 f pompe f de balayage
 nl spoelpomp f(m)
 r продувочный насос m
 (→ 6.79)

6.81 e inlet port
 d Einlass-Schlitz m
 f lumière f d'admission
 nl inlaatpoort f(m)
 r впускное окно n
 (→ 6.79)

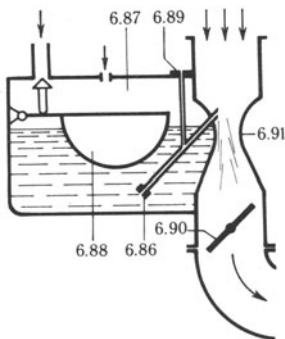
6.82 e scavenging
d Spülen n
f soufflage m, balayage m
nl spoeling f
r продувка f

6.83 e petrol engine
d Benzinmotor m
f moteur m à essence
nl benzinemotor m
r бензиновый двигатель m
(→ 6.84)

6.84 e spark ignition [mixture]
engine, Otto engine
d Vergaser(-Otto)motor m
f moteur m à carburateur
nl vergasermotor m
r карбюраторный двигатель m



6.85 e carburet(t)or
d Vergaser m
f carburateur m
nl carburateur m
r карбюратор m



6.86 e main jet, main metering
orifice
d Hauptdüse f
f gicleur m d'alimentation
nl hoofdsproeier m
r топливный жиклёр m
(→ 6.85)

6.87 e float chamber
d Schwimmergehäuse n
f chambre f de flotteur
nl vlotterkamer f(m)
r топливная камера f
(→ 6.85)

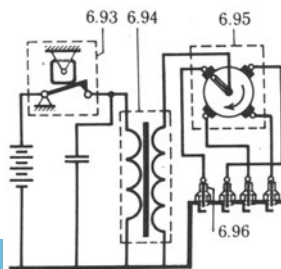
6.88 e float
d Schwimmer m
f flotteur m
nl vlotter m
r поплавок m
(→ 6.85)

6.89 e main air bleed
d Luftkorrekturdüse f
f gicleur m d'air de compensa-
tion
nl compensatiesproeier m
r компенсационный [воз-
душный] жиклёр m
(→ 6.85)

6.90 e air throttle
d Drosselklappe f
f papillon m, volet m de gaz
nl smoorklep f(m)
r дроссельная заслонка f
(→ 6.85)

6.91 e venturi throat, choke tube
d Lufttrichter m
f diffuseur m
nl luchttrechter m
r диффузор m
(→ 6.85)

6.92 e spark ignition
d Fremdzündung f
f allumage m par étincelle
nl vonkontsteking f
r искровое зажигание n



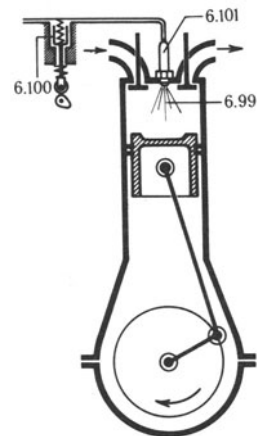
6.93 e breaker
d Unterbrecher m
f rupteur m
nl onderbreker m
r прерыватель m (зажи-
гания)
(→ 6.92)

6.94 e ignition coil
d Zündspule f
f bobine f d'allumage
nl bobine f
r катушка f зажигания
(→ 6.92)

6.95 e distributor
d Verteiler m
f distributeur m
nl (stroom)verdelers m
r распределитель m
(→ 6.92)

6.96 e spark plug
d Zündkerze f
f bougie f
nl bougie f
r свеча f зажигания
(→ 6.92)

6.97 e diesel engine, compression-
ignition engine
d Dieselmotor m
f diesel m
nl dieselmotor m
r дизель m



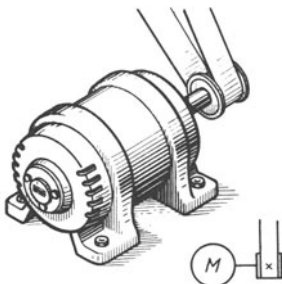
6.98 e compression ignition
d Selbstzündung f
f allumage m par compres-
sion
nl compressieontsteking f
r воспламенение от сжатия

6.99

- 6.99 e fuel injection
 d Kraftstoffeinspritzung f
 f injection f de combustible
 nl brandstofinspuiting f
 r **вспрыскивание п топлива**
 (→ 6.97)
- 6.100 e fuel pump
 d Kraftstoff-Förderpumpe f
 f pompe f à combustible
 nl brandstofpomp f(m)
 r **топливный насос м**
 (→ 6.97)
- 6.101 e fuel injection nozzle, fuel injector
 d Einspritzdüse f
 f injecteur m
 nl brandstofverstuiver m
 r **форсунка f**

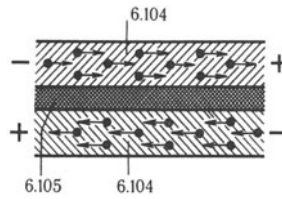
Electric Drive
Elektrischer Antrieb
Commande électrique
Elektrische aandrijving
Электропривод

- 6.102 e electric drive
 d elektrischer Antrieb m
 f commande f électrique
 nl elektrische aandrijving f
 r **электропривод м**

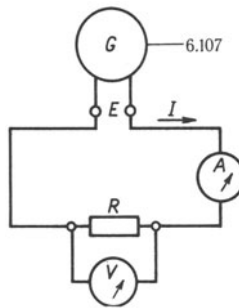


- 6.103 e electricity
 d Elektrizität f
 f électricité f
 nl elektriciteit f
 r **электричество н**
- 6.104 e conductor
 d (elektrischer) Leiter m
 f conducteur m

- nl geleider m
 r **проводник м**

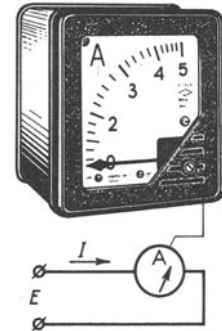


- 6.105 e dielectric, insulant
 d Nichtleiter m, Isolator m
 f isolateur m
 nl isolator m
 r **изолятор м**
 (→ 6.104)
- 6.106 e electric circuit
 d Stromkreis m
 f circuit m électrique
 nl stroomkring m
 r **электрическая цепь f**

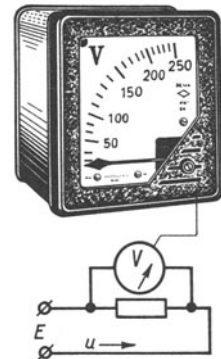


- 6.107 e source of electric power
 d Stromquelle f
 f source f de courant
 nl stroombron f(m)
 r **источник м тока**
 (→ 6.106)
- 6.108 e electromotive force (E)
 d elektromotorische Kraft f (E)
 f force f électromotrice (E)
 nl elektromotorische kracht f(m) (E)
 r **электродвижущая сила f (E)**
 (→ 6.106)
- 6.109 e (electric) current
 d (elektrischer) Strom m
 f courant m (électrique)
 nl (elektrische) stroom m
 r **(электрический) ток м**

- 6.110 e current strength (I)
 d Stromstärke f (I)
 f intensité f de courant (I)
 nl stroomsterkte f (I)
 r **сила f тока, ток м (I)**



- 6.111 e ammeter
 d Amperemeter n
 f ampèremètre m
 nl ampèremeter m
 r **амперметр м**
 (→ 6.110)
- 6.112 e voltage (U)
 d (elektrische) Spannung f (U)
 f tension f électrique (U)
 nl spanning f (U)
 r **(электрическое) напряжение н (U)**



- 6.113 e voltmeter
 d Voltmeter n, Spannungsmesser m
 f voltmètre m
 nl voltmeter m
 r **вольтметр м**
 (→ 6.112)
- 6.114 e (electric) resistance
 d (elektrischer) Widerstand m
 f résistance f électrique

nl (elektrische) weerstand m
r (электрическое) сопротивление n

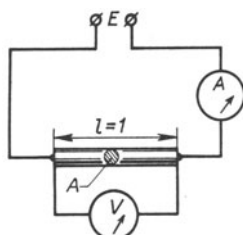
$$R = \frac{U}{I}$$

6.115 e specific resistance, resistivity

d spezifischer (elektrischer) Widerstand m

f résistance f spécifique, résistivité f

nl soortelijke weerstand m
r удельное электрическое сопротивление n



$$\rho = \frac{U}{I} (l=1, A=1)$$

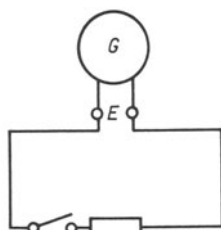
6.116 e open circuit

d offener Stromkreis m

f circuit m ouvert

nl geopende stroomkring m

r разомкнутая цепь f



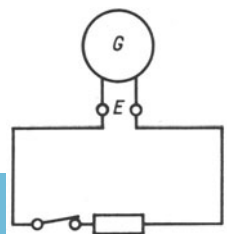
6.117 e closed circuit

d geschlossener Stromkreis m

f circuit m bouclé

nl gesloten stroomkring m

r замкнутая цепь f



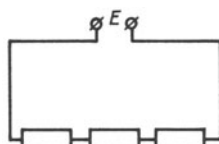
6.118 e series connection

d Reihenschaltung f

f connexion f en série

nl serieschakeling f

r последовательное соединение n



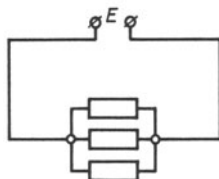
6.119 e parallel connection

d Parallelschaltung f

f connexion f en parallèle

nl parallelschakeling f

r параллельное соединение n



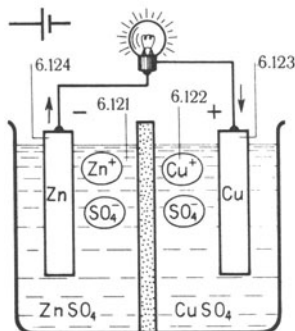
6.120 e electrochemical cell

d galvanisches Element n

f élément m galvanique

nl galvanisch element n

r гальванический элемент m



6.121 e electrolyte

d Elektrolyt m

f électrolyte m

nl elektrolyt m

r электролит m
(→ 6.120)

6.122 e ion

d Ion n

f ion m

nl ion n

r ион m

(→ 6.120)

6.123 e anode

d Pluspol m

f anode f

nl anode f

r анод m

(→ 6.120)

6.124 e cathode

d Minuspol m

f cathode f

nl kathode f

r катод m

(→ 6.120)

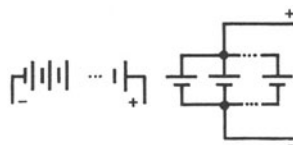
6.125 e battery

d Batterie f

f batterie f

nl batterij f

r батарея f



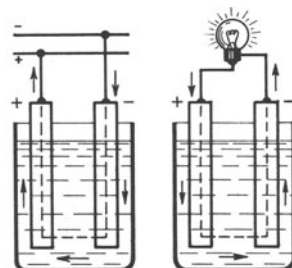
6.126 e storage cell, accumulator

d Akkumulator m

f accumulateur m

nl accu m

r (электрический) аккумулятор m



6.127 e charging the accumulator

d Ladung f des Akkumulators

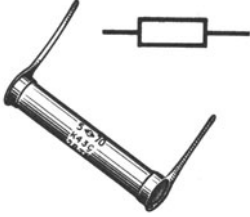
f charge f d'accumulateur

nl opladen n van de accu

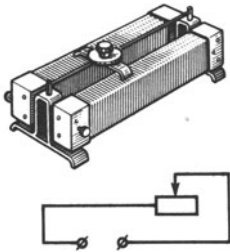
r заряд (ка) m (f) аккумулятора

(→ 6.126)

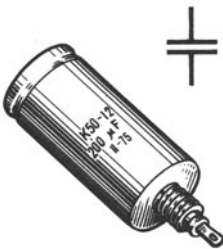
- 6.128 e resistor
 d Festwiderstand m
 f résistance f
 nl weerstand m
 r резистор m



- 6.129 e rheostat
 d Schiebewiderstand m
 f rhéostat m
 nl regelbare weerstand m
 r реостат m

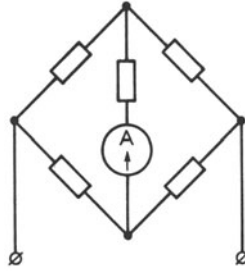


- 6.130 e capacitor
 d Kondensator m
 f condensateur m
 nl condensator m
 r (электрический) конденсатор m

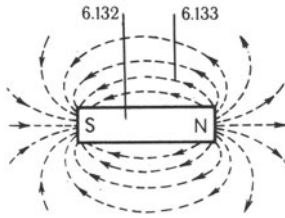


- 6.131 e bridge network
 d Brückenschaltung f
 f pont m de résistances

- nl brugschakeling f
 r электрический мост m

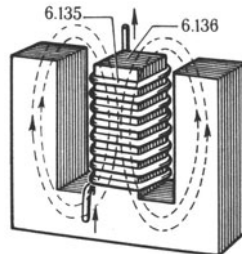


- 6.132 e permanent magnet
 d Dauermagnet m
 f aimant m permanent
 nl permanente magneet m
 r постоянный магнит m



- 6.133 e magnetic field
 d Magnetfeld n
 f champ m magnétique
 nl magnetisch veld n, magneetveld
 r магнитное поле n
 (→ 6.132)

- 6.134 e electromagnet
 d Elektromagnet m
 f électro-aimant m
 nl elektromagneet m
 r электромагнит m



- 6.135 e coil
 d Spule f
 f bobine f
 nl spoel f(m)
 r катушка f
 (→ 6.134)

- 6.136 e core
 d Kern m
 f noyau m
 nl kern f(m)
 r сердечник m
 (→ 6.134)

- 6.137 e magnetic field strength (*H*)
 d magnetische Feldstärke f (*H*)
 f intensité f de champ magnétique (*H*)
 nl magnetische veldsterkte f
 r напряжённость f магнитного поля (*H*)

- 6.138 e magnetic flux density, magnetic induction
 d magnetische Induktion f [Flussdichte f]
 f induction f magnétique
 nl magnetische inductie f [fluxdichtheid f]
 r магнитная индукция f
 $B = \mu \cdot H$

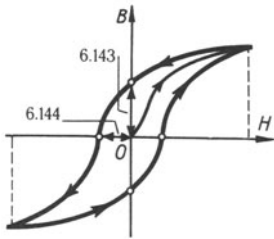
- 6.139 e absolute permeability (μ)
 d Permeabilität f (μ)
 f perméabilité f absolue magnétique (μ)
 nl permeabiliteit f (μ)
 r абсолютная магнитная проницаемость f (μ)
 (→ 6.138)

- 6.140 e magnetic flux
 d magnetischer Fluss m
 f flux m magnétique
 nl magnetische flux m
 r магнитный поток m
 $\Phi = B \cdot A$

- 6.141 e magnetization
 d Magnetisierung f
 f magnétisation f
 nl magnetisering f, magnetiseren n
 r намагничивание n

- 6.142 e hysteresis loop
 d Hysteresisschleife f
 f boucle f d'hystérésis

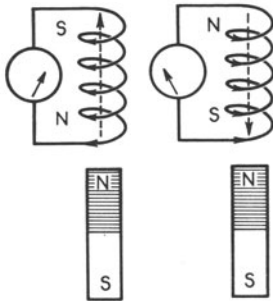
nl hysteresislus f(m), hysteresiskromme f
r петля f гистерезиса



6.143 e residual induction
d Remanenz(induktion) f
f induction f rémanente
nl remanente inductie f
r остаточная индукция f
(→ 6.142)

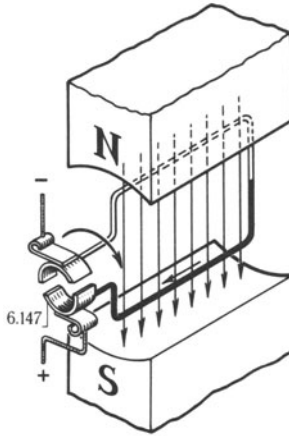
6.144 e coercive electric field
(intensity)
d Koerzitivfeldstärke f
f force f coercitive
nl соërcitiefkracht f (m)
r коэрцитивная сила f
(→ 6.142)

6.145 e electromagnetic induction
d elektromagnetische Induktion f
f induction f électromagnétique
nl elektromagnetische inductie f
r электромагнитная индукция f



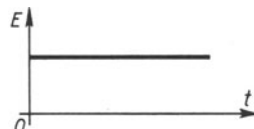
6.146 e electric generator
d elektrischer Generator m,
Stromerzeuger m
f génératrice f électrique
nl dynamo m, generator m,
stroomgenerator

г электромашинный
[электрический] генера-
тор m



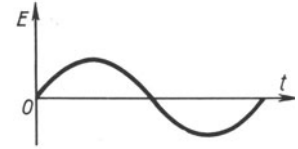
6.147 e collector
d Kollektor m, Stromwen-
dler m, Kommutator m
f collecteur m
nl collector m
r коллектор m
(→ 6.146)

6.148 e direct current
d Gleichstrom m
f courant m continu
nl gelijkstroom m
r постоянный (электри-
ческий) ток m

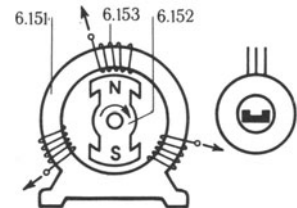


6.149 e alternating current
d Wechselstrom m
f courant m alternatif

nl wisselstroom m
r переменный (электри-
ческий) ток m



6.150 e three-phase generator
d Drehstromgenerator m
f générateur m triphasé
nl draaistroomdynamo m,
drie-fasengenerator m
r генератор m трёхфазно-
го тока

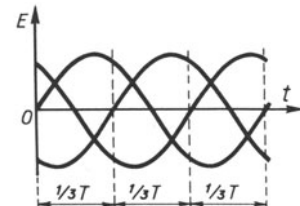


6.151 e stator
d Stator m, Ständer m
f stator m
nl stator m
r статор m
(→ 6.150)

6.152 e rotor
d Läufer m
f rotor m
nl rotor m
r ротор m
(→ 6.150)

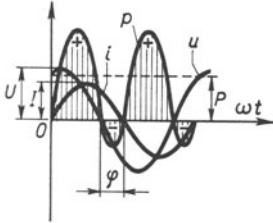
6.153 e winding
d Wicklung f
f enroulement m
nl wikkeling f
r обмотка f
(→ 6.150)

6.154 e three-phase current
d Drehstrom m, Dreiphasen-
Wechselstrom m
f courant m triphasé
nl draaistroom m
r трёхфазный ток m



6.155

- 6.155 e electric power
 d elektrische Leistung f
 f puissance f électrique
 nl elektrisch vermogen n
 r электрическая мощность f



$$p = u \cdot i$$

- 6.156 e active power
 d Wirkleistung f
 f puissance f active
 nl werkzaam vermogen n
 r активная мощность f
 $P = U \cdot I \cdot \cos \varphi$
 (→ 6.155)

- 6.157 e apparent power
 d Scheinleistung f
 f puissance f apparente
 nl schijnbaar vermogen n
 r полная мощность f
 $P_{ap} = UI$
 (→ 6.155)

- 6.158 e power factor
 d Leistungsfaktor m
 f coefficient m de puissance
 nl vermogensfactor m
 r коэффициент m мощности

$$\cos \varphi = \frac{P}{P_{ap}}$$

(→ 6.155)

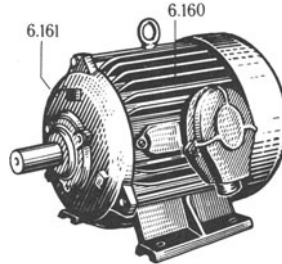
- 6.159 e electric motor
 d Elektromotor m
 f électromoteur m
 nl elektromotor m
 r электрический двигатель m, электродвигатель (→ 6.162, 6.163)

- 6.160 e stator frame
 d Statorgehäuse n
 f corps m de stator
 nl statorhuis n
 r корпус m статора
 (→ 6.162)

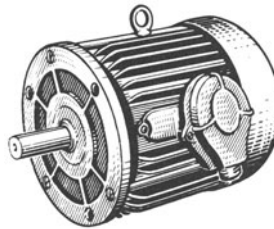
- 6.161 e end shield
 d Lagerschild n

- f flasque m
 nl lagerafdekking f, lagerschild n
 r подшипниковый щит m
 (→ 6.162)

- 6.162 e foot-mounted (electric) motor
 d Fussmotor m
 f électromoteur m à pieds
 nl motor m met montagevoet, voetmotor
 r электродвигатель m на лапках



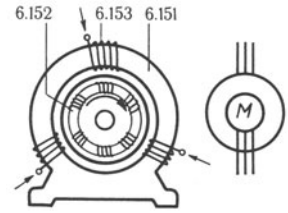
- 6.163 e flange-mounted (electric) motor
 d Flanschmotor m
 f électromoteur m à bride
 nl motor m met montageflens, flensmotor
 r фланцевый электродвигатель m



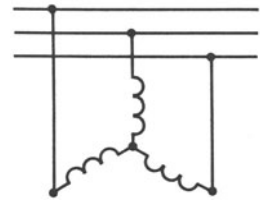
- 6.164 e alternating current motor
 d Wechselstrommotor m
 f électromoteur m à courant alternatif
 nl wisselstroommotor m
 r электродвигатель m переменного тока
 (→ 6.165, 6.168, 6.176)

- 6.165 e induction motor
 d Asynchromotor m
 f électromoteur m asynchrone

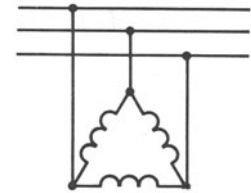
- nl asynchrone motor m
 r асинхронный электродвигатель m



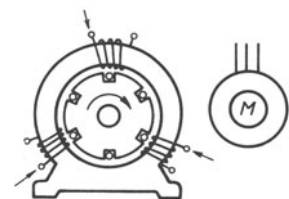
- 6.166 e star connection
 d Sternschaltung f
 f couplage m en étoile
 nl sterschakeling f
 r соединение n звездой



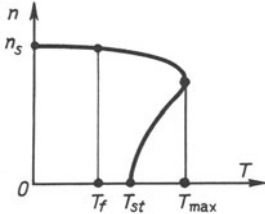
- 6.167 e delta connection
 d Dreieckschaltung f
 f couplage m en triangle
 nl driehoeksschakeling f
 r соединение n треугольником



- 6.168 e squirrel-cage induction motor
 d Käfigankermotor m, Kurzschlussläufermotor
 f électromoteur m à cage
 nl kooiankermotor m
 r короткозамкнутый электродвигатель m



- 6.169 e speed-torque characteristic
 d Drehzahl-Drehmoment-Kennlinie f
 f caractéristique f mécanique
 nl snelheid-koppelkromme f
 r механическая характеристика f (электродвигателя)



- 6.170 e rated(-load) [full-load] torque (T_f)
 d Nennmoment n (T_f)
 f couple ni normal (T_f)
 nl vollast-koppel n, vollast-draaimoment n, nominaal koppel (T_f)
 r номинальный момент m (T_f)
 (→ 6.169)

- 6.171 e starting torque (T_{st})
 d Anlauf(dreh)moment n (T_{st})
 f couple m de démarrage (T_{st})
 nl aanloopkoppel n (T_{st})
 r пусковой момент m (T_{st})
 (→ 6.169)

- 6.172 e breakdown torque (T_{max})
 d Kippmoment n (T_{max})
 f couple m de décrochage (T_{max})
 nl overbelastingskoppel n (T_{max})
 r опрокидывающий момент m (T_{max})
 (→ 6.169)

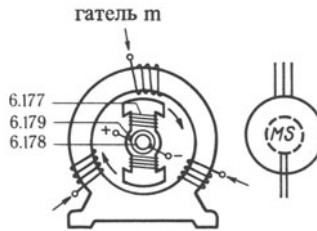
- 6.173 e (percentage) slip
 d Schlupf m
 f glissement m
 nl slip m
 r скольжение n

$$S = \frac{n_s - n}{n_s} \cdot 100\%$$

- 6.174 e synchronous speed (n_s)
 d Synchrodrehzahl f (n_s)
 f vitesse f synchrone (n_s)
 nl synchroon toerental n, synchrone draaisnelheid f (n_s)
 r синхронная частота f вращения (n_s)
 (→ 6.169)

- 6.175 e multispeed motor
 d polumschaltbarer Motor m
 f électromoteur m à commutation des pôles
 nl motor m met poolomschakeling
 r электродвигатель m с переключением полюсов

- 6.176 e synchronous motor
 d Synchronmotor m
 f électromoteur m synchrone
 nl synchroonmotor m
 r синхронный электродвигатель m



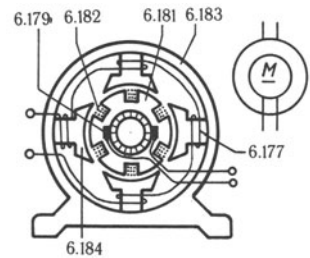
- 6.177 e field [excitation] winding
 d Erregerwicklung f
 f enroulement m d'excitation
 nl veldwickeling f
 r обмотка f возбуждения
 (→ 6.176)

- 6.178 e slip ring
 d Schleifring m
 f anneau m collecteur
 nl sleeping m
 r контактное кольцо n
 (→ 6.176)

- 6.179 e (contact) brush
 d Bürste f
 f balai m
 nl borstel m
 r щётка f
 (→ 6.176, 6.180)

- 6.180 e direct current motor
 d Gleichstrommotor m
 f électromoteur m à courant continu

- nl gelijkstroommotor m
 r электродвигатель m постоянного тока



- 6.181 e armature
 d Anker m
 f armature f, induit m
 nl anker n
 r якорь m
 (→ 6.180)

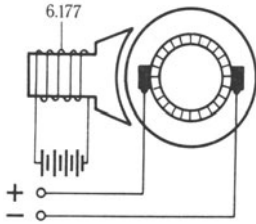
- 6.182 e armature winding
 d Ankerwicklung f
 f enroulement m d'induit
 nl ankerwickeling f
 r обмотка f якоря
 (→ 6.180)

- 6.183 e (magnetic) yoke
 d Joch n
 f culasse f, joug m
 nl juk n
 r ярмо n
 (→ 6.180)

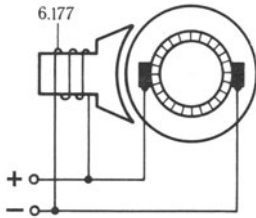
- 6.184 e pole shoe
 d Polschuh m
 f épanouissement m
 nl poolschoen m
 r полюсный наконечник m
 (→ 6.180)

- 6.185 e separately excited (direct current) motor
 d fremderregter Gleichstrommotor m
 f électromoteur m à courant continu en excitation séparée
 nl gelijkstroommotor m met onafhankelijke bekrachtiging

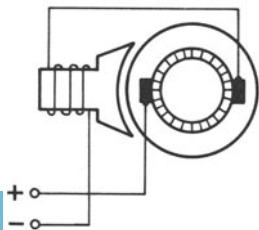
r (электро)двигатель m (постоянного тока) с независимым возбуждением



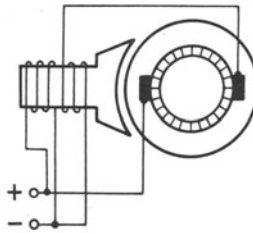
6.186 e (self-excited) shunt-wound motor
 d nebenschlusserregter Gleichstrommotor m, Nebenschlussmotor
 f électromoteur m shunt
 nl shuntmotor m
 r (электро)двигатель m с параллельным возбуждением, шунтовой (электро)двигатель



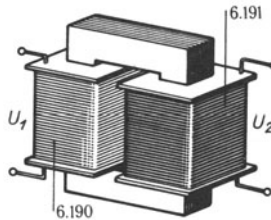
6.187 e (self-excited) series wound (direct-current) motor
 d reihenschlusserregter Gleichstrommotor m, Reihenschlussmotor
 f électromoteur m série
 nl seriemotor m
 r (электро)двигатель m с последовательным возбуждением, серийный (электро)двигатель



6.188 e (self-excited) compound-wound (direct current) motor
 d doppelschlusserregter Gleichstrommotor m, Doppelschlussmotor, Compoundmotor
 f électromoteur m compound
 nl compoundmotor m
 r (электро)двигатель m со смешанным возбуждением, компаундный (электро)двигатель



6.189 e (electric) transformer
 d Transformator m, Umspanner m
 f transformateur m
 nl transformator m
 r (электрический) трансформатор m

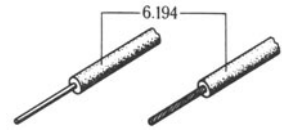


6.190 e primary winding
 d Primärwicklung f
 f enroulement m primaire
 nl primaire wikkeling f
 r первичная обмотка f (→ 6.189)

6.191 e secondary winding
 d Sekundärwicklung f
 f enroulement m secondaire
 nl secondaire wikkeling f
 r вторичная обмотка f (→ 6.189)

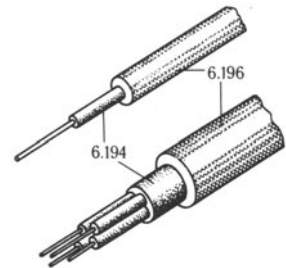
6.192 e transformation ratio (U_1/U_2)
 d Übersetzungsverhältnis n
 f rapport m de transformation (U_1/U_2)
 nl transformatieverhouding f (U_1/U_2)
 r коэффициент m трансформации (U_1/U_2) (→ 6.189)

6.193 e (insulated) wire
 d (elektrische) Leitung f
 f fil m, conducteur m
 nl leiding f, draad m
 r (электрический) провод n



6.194 e insulation
 d Isolation f
 f isolation f
 nl isolatie f
 r изоляция f (→ 6.193)

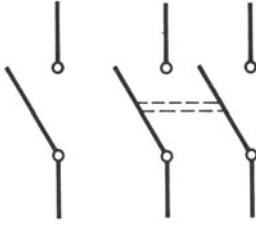
6.195 e (wiring) cable
 d Kabel m
 f câble m
 nl kabel m
 r (электрический) кабель m



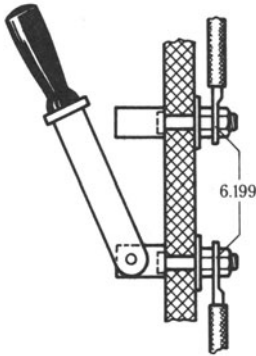
6.196 e sheath, jacket
 d Mantel m
 f gaine f, enveloppe f
 nl (kabel)mantel m
 r оболочка f (→ 6.195)

6.197 e switch
 d Schalter m, Schaltgerät n
 f disjoncteur m

nl schakelaar m
r выключатель m

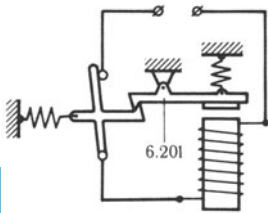


6.198 e knife switch
d Messerschalter m
f interrupteur m à couteaux
nl messchakelaar m
r рубильник m



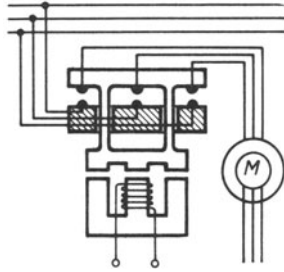
6.199 e terminal
d Klemme f
f borne f
nl klem f(m)
r вывод m
(→ 6.198)

6.200 e circuit breaker
d Selbstschalter m
f disjoncteur m automatique
nl (stroom)onderbreker m
r (автоматический) выключатель m



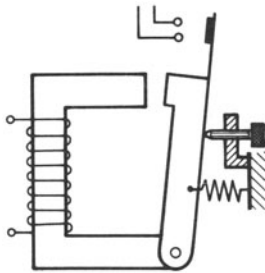
6.201 e latch
d Klinke f
f loquet m
nl klink f(m)
r защёлка f
(→ 6.200)

6.202 e contactor
d Schaltschütz n, Schütz
f contacteur m
nl contactgever m, schakelinrichting f
r контактор m



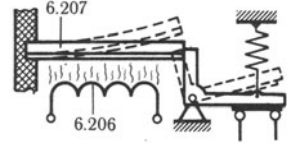
6.203 e relay
d Relais n
f relais m
nl relais n
r (электрическое) реле n
(→ 6.204, 6.205)

6.204 e electromagnetic relay
d elektromagnetisches Relais n
f relais m électromagnétique
nl elektromagnetisch relais n
r электромагнитное реле n



6.205 e thermal relay
d thermisches Relais n
f relais m thermique

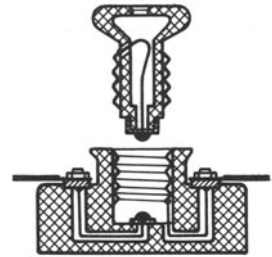
nl thermisch relais n
r тепловое реле n



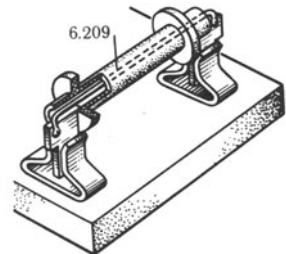
6.206 e heating element
d Heizelement n
f élément m chauffant
nl verwarmingselement n
r нагревательный элемент m
(→ 6.205)

6.207 e bimetal
d Bimetall n
f bimétal m
nl bimetaal n
r биметалл m
(→ 6.205)

6.208 e fuse
d Schmelzsicherung f
f fusible m
nl smeltveiligheid f, stop m
r плавкий предохранитель m

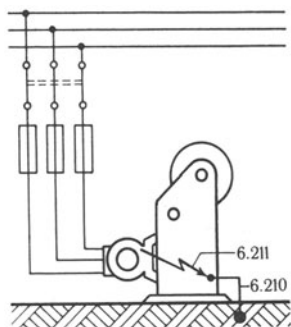


6.209 e cartridge fuse
d Sicherungspatrone f
f fusible m tubulaire
nl smeltzekering f
r трубчатый предохранитель m



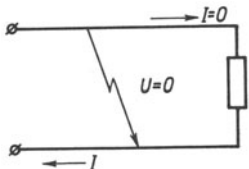
6.210

- 6.210 e grounding, earthing
 d Erdung f
 f mise f à la terre
 nl aarding f
 r заземление n

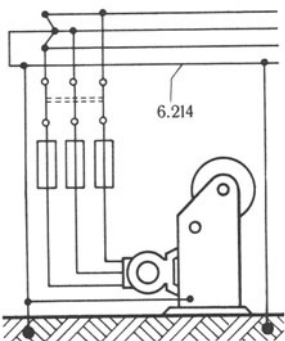


- 6.211 e breakdown
 d Durchschlag m
 f perforation f électrique
 nl doorslag m
 r пробой m
 (→ 6.210)

- 6.212 e short circuit (fault), fault
 d Kurzschluss m
 f court-circuit m
 nl kortsluiting f
 r короткое замыкание n

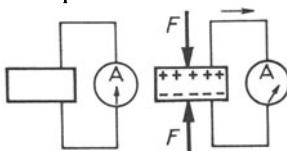


- 6.213 e neutral grounding [earthing]
 d Nullung f, Nullpunkterdung f
 f mise f au neutre
 nl aarding f van de nul-leiding
 r зануление n

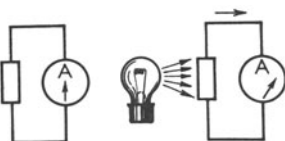


- 6.214 e neutral conductor
 d Mittelpunktleiter m, Nullpunkt-leiter
 f conducteur m neutre
 nl nulleiding f
 r нулевой провод m
 (→ 6.213)

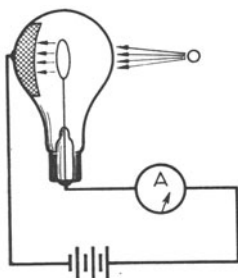
- 6.215 e piezoelectric effect
 d Piezoeffekt m
 f effet m piézo-électrique
 nl piézo-elektrisch effect n
 r пьезоэлектрический эффект m



- 6.216 e photoelectric effect
 d Photoeffekt m
 f effet m photo-électrique
 nl foto-elektrisch effect n
 r фотоэлектрический эффект m, фотоэффект

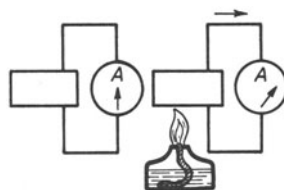


- 6.217 e photocell, photoelectric cell
 d Photoelement n
 f photocellule f
 nl fotocel f(m)
 r фотоэлемент m

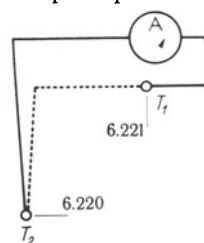


- 6.218 e thermoelectric effect
 d thermoelektrischer Effekt m
 f effet m thermo-électrique
 nl thermo-elektrisch effect n

- r термоэлектрический эффект m



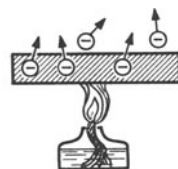
- 6.219 e thermocouple
 d Thermoelement n, Thermo-paar n
 f thermocouple m
 nl thermo-element n, thermo-koppel n(m)
 r термопара f



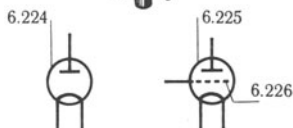
- 6.220 e measuring junction
 d Mess-Stelle f (eines Thermo-paares)
 f soudure f chaude
 nl meetlas f(m)
 r горячий спай m
 (→ 6.219)

- 6.221 e reference junction
 d Vergleichsstelle f (eines Thermo-paares)
 f soudure f froide
 nl koude las f(m)
 r холодный спай m
 (→ 6.219)

- 6.222 e thermionic emission, Richard-son [Edison] effect
 d Glühemission f
 f émission f thermoélectroni-que
 nl elektronenemissie f
 r термоэлектронная эмиссия f



- 6.223 e electron tube
 d Elektronenrohr n
 f tube m électronique
 nl elektronenbuis f(m)
 r электронная лампа f



- 6.224 e diode
 d Diode f
 f diode f
 nl diode f
 r диод m
 (→ 6.223)

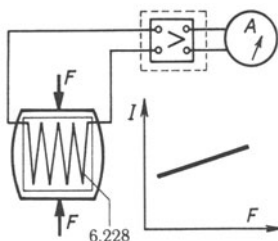
- 6.225 e triode
 d Triode f
 f triode f
 nl triode f
 r триод m
 (→ 6.223)

- 6.226 e control grid
 d Steuergitter n
 f grille f de commande
 nl stuurrooster m, n
 r управляющая сетка f
 (→ 6.223)

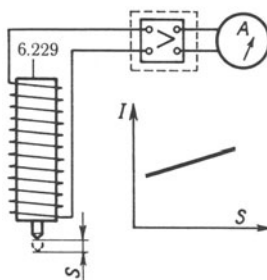
- 6.227 e transducer, pickup
 d Geber m, Mess(wert)geber, Sensor m
 f capteur m, transducteur m
 nl opnemer m, gever m
 r датчик m, измерительный преобразователь m
 (→ 6.228, 6.229, 6.239)

- 6.228 e (wire) strain ga(u)ge
 d Dehnungsmess-Streifen m
 f capteur m extensométrique

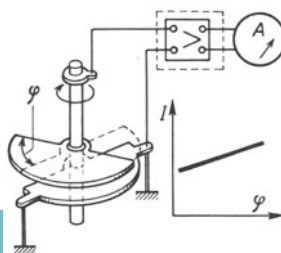
- nl rekstrookopnemer m
 r тензодатчик m сопротивления



- 6.229 e inductive (displacement) pickup
 d induktiver Weggeber m
 f capteur m à induction (de déplacement)
 nl inductieve verplaatsingsopnemer m
 r индуктивный датчик m (перемещения)



- 6.230 e capacitive (displacement) pickup
 d kapazitiver Weggeber m
 f capteur m capacitif (de déplacement)
 nl capacitieve verplaatsingsopnemer m
 r ёмкостный датчик m (перемещения)

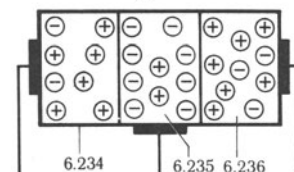


- 6.231 e semiconductor
 d Halbleiter m
 f semi-conducteur m
 nl halfgeleider m
 r полупроводник m

5	6		
B	C		
14	15	16	
Si	P	S	
32	33	34	
Ge	As	Se	
50	51	52	53
Sn	Sb	Te	I

- 6.232 e semiconductor device
 d Halbleiterbauelement n
 f dispositif m à semi-conducteurs
 nl halfgeleiderapparaat m, halfgeleiderbouwsteen n
 r полупроводниковый прибор m
 (→ 6.233, 6.237)

- 6.233 e transistor
 d Transistor m
 f transistor m
 nl transistor m
 r транзистор m



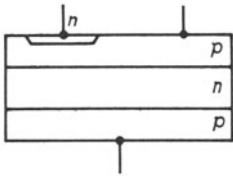
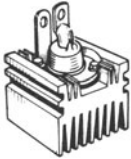
- 6.234 e emitter
 d Emitter m
 f émetteur m
 nl emitter m
 r ЭМИТТЕР m
 (→ 6.233)

- 6.235 e base
 d Basis f
 f base f
 nl basis f
 r база f
 (→ 6.233)

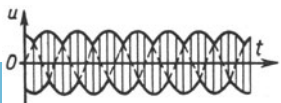
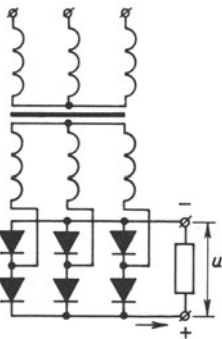
6.236

- 6.236 e collector
 d Kollektor m
 f collecteur m
 nl collector m
 r коллектор m
 (→6.233)

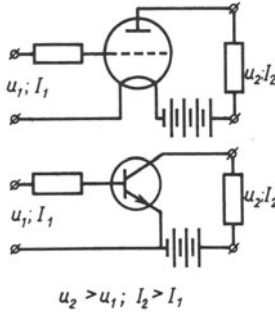
- 6.237 e thyristor
 d Thyristor m
 f thyristor m
 nl thyristor m
 r тиристор m



- 6.238 e rectifier
 d Gleichrichter m, Stromrichter
 f redresseur m
 nl gelijkrichter m
 r выпрямитель m (тока)



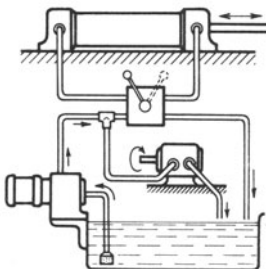
- 6.239 e amplifier
 d Verstärker m
 f amplificateur m
 nl versterker m
 r усилитель m



Fluid Power Drive
Hydraulischer und pneumatischer Antrieb
Commande hydraulique et pneumatique
Hydraulische en pneumatische aandrijving
Гидравлический и пневматический привод

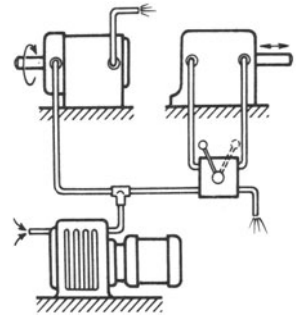
- 6.240 e fluid power drive
 d hydraulischer und pneumatischer Antrieb m [Trieb]
 f commande f hydraulique et pneumatique
 nl hydraulische en pneumatische aandrijving f
 r гидравлический и пневматический привод m
 (→6.241, 6.242)

- 6.241 e hydraulic power drive
 d hydraulischer Antrieb m, Hydraulik-Antrieb

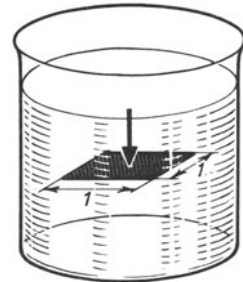


- f commande f hydraulique
 nl hydraulische aandrijving f
 r гидравлический привод m, гидропривод

- 6.242 e pneumatic power drive
 d pneumatischer Antrieb m, Pneumatik-Antrieb
 f commande f pneumatique
 nl pneumatische aandrijving f, aandrijving met perslucht
 r пневматический привод m, пневмопривод



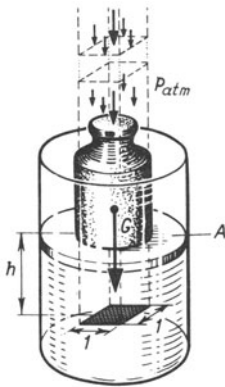
- 6.243 e pressure
 d Druck m
 f pression f
 nl druk m
 r давление n



1 psi = 6895 N/m² = 6,9 kPa

- 6.244 e absolute pressure
 d absoluter Druck m
 f pression f absolue
 nl absolute druk m

r абсолютное давление n



$$P_{abs} = \frac{G}{A} + \rho \cdot g \cdot h + p_{atm}$$

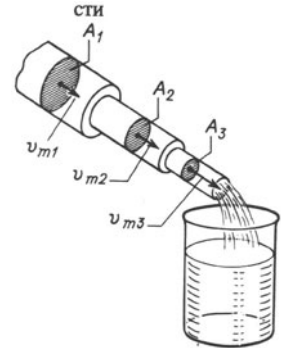
nl manometer m
r манометр m



6.248 e flow
d Strömung f
f écoulement m
nl stroming f
r поток m
(→ 6.249, 6.250)

nl gemiddelde stroomsnelheid f (v_m)
r средняя скорость f потока (v_m)
1 fpm = 0,3 m/min
(→ 6.249, 6.250)

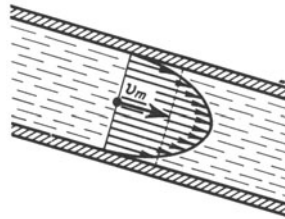
6.252 e continuity equation
d Kontinuitätsgleichung f
f équation f de continuité
nl continuïteitsvergelijking f
r уравнение n неразрывности



$$A_1 v_{m1} = A_2 v_{m2} = A_3 v_{m3} = Q$$

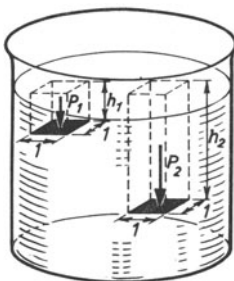
6.245 e atmospheric pressure (p_{atm})
d atmosphärischer Druck m (p_{atm})
f pression f atmosphérique (p_{atm})
nl atmosferische druk m (p_{atm})
r атмосферное давление n (p_{atm})
(→ 6.244)

6.249 e laminar [streamline] flow
d laminare Strömung f
f écoulement m laminaire
nl laminaire stroming f
r ламинарный поток m



6.246 e differential pressure, pressure drop
d Druckunterschied m, Druckabfall m
f différence f de pression
nl drukverschil n
r разность f [перепад m] давлений

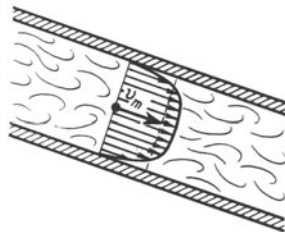
6.253 e (volumetric) flow rate (Q)
d Volumenstrom m, Volumendurchfluss m (Q)
f consommation f (Q)
nl doorstromingshoeveelheid f, doorstroomcapaciteit f (Q)
r расход m (Q)
1 gpm = 0,63 l/min
(→ 6.252)



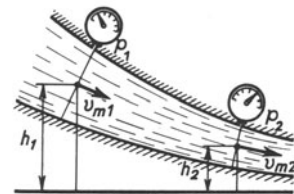
$$h_1 < h_2; P_1 < P_2$$

$$\Delta p = p_2 - p_1$$

6.250 e turbulent flow
d turbulente Strömung f
f écoulement m turbulent
nl turbulente stroming f
r турбулентный [вихревой] поток m



6.254 e Bernoulli's law
d Bernoullische Gleichung f
f théorème m de Bernoulli
nl wet f(m) van Bernoulli
r уравнение n Бернулли



$$h_1 + \frac{p_1}{\gamma} + \frac{v_{m1}^2}{2g} = h_2 + \frac{p_2}{\gamma} + \frac{v_{m2}^2}{2g}$$

6.247 e pressure ga(u)ge, manometer
d Manometer n
f manomètre m

6.251 e mean velocity of flow (v_m)
d durchschnittliche Strömungsgeschwindigkeit f (v_m)
f vitesse f moyenne d'écoulement (v_m)

6.255

6.255 e head
 d Höhe f (von Flüssigkeitssäule)
 f charge f
 nl arbeidsvermogen n van een vloeistofkolom
 r напор m
 $(h, \frac{p}{\gamma}, \frac{v^2}{2g})$
 1 ft = 0,3 m
 (→ 6.254)

6.256 e static head (h)
 d Lagenhöhe f, geodätische Höhe (h)
 f hauteur f (h)
 nl hydrostatische stijghoogte f (h)
 r высота f положения (h)
 (→ 6.254)

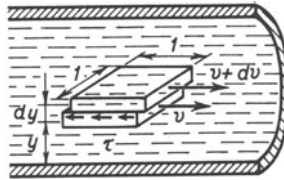
6.257 e pressure head ($\frac{p}{\gamma}$)
 d Drückhohe f ($\frac{p}{\gamma}$)
 f hauteur f représentative ($\frac{p}{\gamma}$)
 nl drukhoogte f ($\frac{p}{\gamma}$)
 r приведённая высота f ($\frac{p}{\gamma}$)
 (→ 6.254)

6.258 e specific gravity (γ)
 d spezifisches Gewicht n (γ)
 f poids m spécifique (γ)
 nl soortelijke massa f, soortelijk gewicht n, dichtheid f (γ)
 r удельный вес m (γ)
 1 lbf/ft³ = 157 N/m³
 (→ 6.254)

6.259 e velocity head ($\frac{v^2}{2g}$)
 d Geschwindigkeitshöhe f
 $(\frac{v^2}{2g})$
 f pression f cinétique ($\frac{v^2}{2g}$)
 nl kinetische energie van een gewichtseenheid vloeistof ($\frac{v^2}{2g}$)
 r скоростной напор m, скоростная высота f ($\frac{v^2}{2g}$)
 (→ 6.254)

6.260 e free fall acceleration
 d Fallbeschleunigung f
 f accélération f de pesanteur
 nl versnelling f bij vrije val

r ускорение n силы тяжести
 $g = 9,81 \text{ m/c}^2$
 (→ 6.254)
 6.261 e viscosity
 d Zähigkeit f, Viskosität f
 f viscosité f
 nl viscositeit f
 r вязкость f



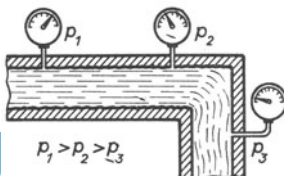
$$\tau = \eta \cdot \frac{dv}{dy}$$

6.262 e absolute viscosity (η)
 d dynamische [absolute] Zähigkeit f (η)
 f viscosité f dynamique (η)
 nl dynamische [absolute] viscositeit f (η)
 r динамическая вязкость f (η)
 1 reyn = 6900 N · s/m² (Pa · s)
 (→ 6.261)

6.263 e kinematic viscosity
 d kinematische Zähigkeit f
 f viscosité f cinématique
 nl kinematische viscositeit f
 r кинематическая вязкость f
 $\nu = \frac{\eta}{\rho} \quad 1 \text{ ft}^2/\text{s} = 0,093 \text{ m}^2/\text{c}$

6.264 e density (ρ)
 d Dichte f (ρ)
 f densité f (ρ)
 nl dichtheid f (ρ)
 r плотность f (ρ)
 1 lb/ft³ = 16 kg/m³
 (→ 6.263)

6.265 e hydraulic resistance
 d hydraulischer Widerstand m
 f résistance f hydraulique
 nl stromingsweerstand m
 r гидравлическое сопротивление n

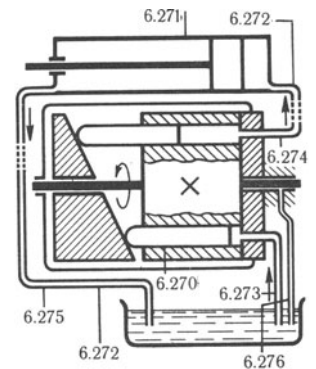


6.266 e pressure loss (Δp)
 d Druckverlust m (Δp)
 f perte f de pression (Δp)
 nl drukverlies n (Δp)
 r потеря f давления (Δp)
 (→ 6.267, 6.268)

6.267 e friction losses
 d Reibungsverluste m pl
 f pertes f pl par frottement
 nl wrijvingsverlies n
 r потери f pl на трение [по длине]
 $\Delta p = p_1 - p_2$
 (→ 6.265)

6.268 e local losses
 d örtliche Druckverluste m pl
 f pertes f pl locales
 nl plaatselijke drukverliezen n pl
 r местные потери f pl
 $\Delta p = p_3 - p_2$
 (→ 6.265)

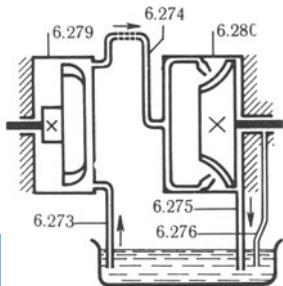
6.269 e hydrostatic power drive
 d hydrostatischer Antrieb m
 f commande f hydraulique volumétrique
 nl hydrostatische aandrijving f
 r объёмный гидропривод m



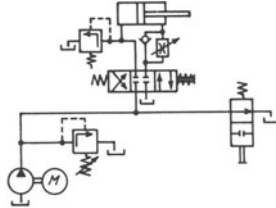
6.270 e positive-displacement pump
 d hydrostatische Pumpe f, Verdrängerpumpe
 f pompe f hydraulique
 nl verdringerpompe f(m)
 r объёмный насос
 (→ 6.269)

6.271 e positive-displacement hydraulic motor
 d hydrostatischer Motor m, Verdrängermotor
 f moteur m hydraulique

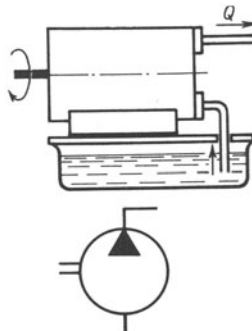
- nl hydrostatische motor m, verdringer motor
 r объёмный гидромотор m (→ 6.269)
- 6.272 e hydraulic [flow] line, line
 d Hydroleitung f
 f ligne f hydraulique
 nl hydraulische leiding f
 r гидрولي́ния f (→ 6.269)
- 6.273 e suction line
 d Saugleitung f
 f ligne f aspirée
 nl zuigleiding f
 r всасывающая гидрولي́ния f (→ 6.269, 6.278)
- 6.274 e working (hydraulic) line
 d Druckleitung f
 f ligne f chargée
 nl (hydraulische) drukleiding f
 r напорная гидрولي́ния f (→ 6.269, 6.278)
- 6.275 e exhaust (hydraulic) line
 d Rücklaufleitung f
 f ligne f vidangée
 nl terugstroomleiding f
 r сливная гидрولي́ния f (→ 6.269, 6.278)
- 6.276 e drain line
 d Leckleitung f
 f ligne f drainée
 nl leiding f voor lekvloeistof
 r дренажная гидрولي́ния f (→ 6.269, 6.278)
- 6.277 e pilot line
 d Steuerleitung f
 f ligne f hydraulique commandée
 nl hydraulische aanstuurleiding f
 r гидрولي́ния f управления
- 5.278 e hydrodynamic power drive
 d hydrodynamischer Antrieb m
 f commande f hydrodynamique



- nl hydrodynamische overbrenging f
 r гидродинамический привод m
- 6.279 e rotodynamic pump
 d Strömungs-Arbeitsmaschine f
 f pompe f dynamique
 nl stromingswerk pomp f(m)
 r динамический насос m (→ 6.278)
- 6.280 e rotodynamic hydraulic motor
 d Strömungs-Kraftmaschine f
 f moteur m hydraulique dynamique
 nl stromingswerkmachine f
 r динамический гидромотор m (→ 6.278)
- 6.281 e hydraulic circuit
 d hydraulisches Schaltbild n
 f circuit m hydraulique
 nl hydraulisch circuit n
 r гидравлическая схема f



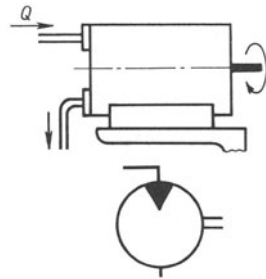
- 6.282 e pump
 d Pumpe f
 f pompe f
 nl pomp f(m)
 r насос m



- 6.283 e pump capacity (Q)
 d Förderstrom m (Q)
 f débit m de la pompe (Q)
 nl pompvermogen n (Q)

r (объёмная) подача f насоса (Q)
 $1 \text{ gpm} = 0,063 \text{ l/s}$
 (→ 6.282, 6.284)

- 6.284 e hydraulic motor
 d Hydromotor m
 f moteur m hydraulique
 nl hydromotor m, vloeistofmotor
 r гидромотор m



- 6.285 e fixed displacement pump
 d Konstantpumpe f, feste [nicht regelbare] Pumpe
 f pompe f à débit constant
 nl pomp f(m) met constant vermogen
 r насос m с постоянной подачей
 $Q = \text{const}$

- 6.286 e fixed displacement hydraulic motor
 d fester [nicht regelbarer] Hydromotor m, Konstantmotor
 f moteur m hydraulique à vitesse constante
 nl niet-regelbare vloeistofmotor m
 r нерегулируемый гидромотор m
 $n = \text{const}$

- 6.287 e variable displacement pump
 d Verstellpumpe f, verstellbare [regelbare] Pumpe
 f pompe f à débit variable
 nl pomp f(m) met regelbaar vermogen
 r регулируемый насос m



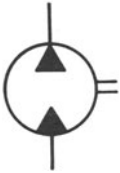
$Q = \text{var}$

6.288

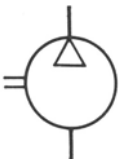
- 6.288 e variable displacement hydraulic motor
 d verstellbarer [regelbarer] Hydromotor m
 f moteur m hydraulique à vitesse variable
 nl regelbare vloeistofmotor m
 r регулируемый гидромотор m



- 6.289 e pump-motor unit
 d Pump-Motor m
 f pompe f à moteur
 nl pomp-motoreenheid f, pomp-motorcombinatie f
 op een as
 r насос-мотор m



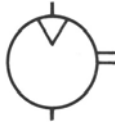
- 6.290 e (air) compressor
 d Verdichter m
 f compresseur m
 nl compressor m
 r компрессор m



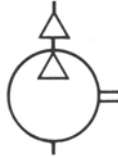
- 6.291 e compressed air
 d Druckluft f
 f air m comprimé
 nl samengeperste lucht f(m)
 r сжатый воздух m

- 6.292 e pneumatic motor
 d pneumatischer Motor m
 f moteur m pneumatique

- nl persluchtmotor m, pneumatische motor
 r пневмомотор m



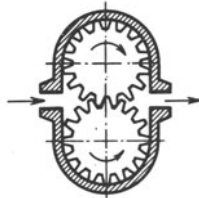
- 6.293 e vacuum pump
 d Vakuumpumpe f
 f pompe f à dépression
 nl vacuumpomp f(m)
 r вакуум-насос m



- 6.294 e fan
 d Lüfter m
 f ventilateur m
 nl ventilator m
 r вентилятор m



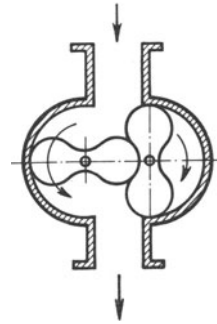
- 6.295 e gear pump
 d Zahnradpumpe f
 f pompe f à engrenage
 nl tandradpomp f (m)
 r шестерённый насос m



- 6.296 e gear-type hydraulic motor
 d Zahnradmotor m
 f moteur m à engrenage
 nl tandradmotor m
 r шестерённый гидромотор m
 (→ 6.295)

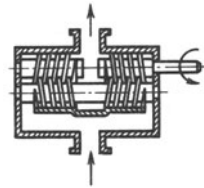
- 6.297 e rotary-piston lobe type pump
 d Kreiskolbenpumpe f
 f pompe f rotative

- nl rotatiepomp f(m)
 r коловратный насос m

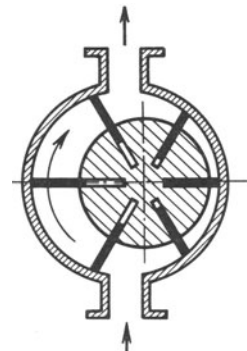


- 6.298 e rotary abutment motor
 d Kreiskolbenmotor m
 f moteur m Wankel [à pistons rotatifs]
 nl rotatiemotor m
 r коловратный гидромотор m
 (→ 6.297)

- 6.299 e screw pump
 d Schraubpumpe f
 f pompe-hélice f
 nl schroefpomp f(m)
 r винтовой насос m

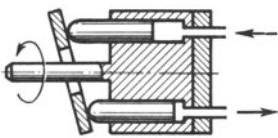


- 6.300 e vane pump
 d Flügelzellenpumpe f, Treibschieberpumpe
 f pompe f à palettes
 nl vleugelpomp f(m)
 r пластинчатый насос m



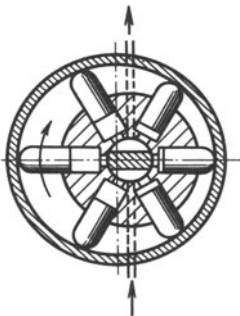
6.301 e vane motor
 d Flügelzellenmotor m, Treib-
 schiebermotor
 f moteur m hydraulique à
 palettes
 nl vleugelmotor m
 r пластинчатый гидромо-
 тор m
 (→ 6.300)

6.302 e axial-piston pump
 d Axialkolbenpumpe f
 f pompe f à piston axial
 nl axiale zuigerpomp f (m)
 r аксиально-поршневой
 насос m



6.303 e axial-piston motor
 d Axialkolbenmotor m
 f moteur m hydraulique à
 piston axial
 nl axiale hydraulische zui-
 germotor m
 r аксиально-поршневой
 гидромотор m
 (→ 6.302)

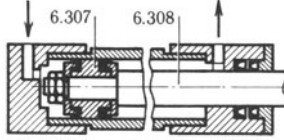
6.304 e radial-piston pump
 d Radialkolbenpumpe f
 f pompe f à piston radial
 nl radiale zuigerpomp f (m)
 r радиально-поршневой на-
 сос m



6.305 e radial-piston motor
 d Radialkolbenmotor m
 f moteur m hydraulique à
 piston radial
 nl radiale hydraulische zui-
 germotor m

r радиально-поршневой
 мотор m
 (→ 6.304)

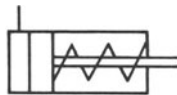
6.306 e hydraulic cylinder
 d Hydrozylinder m
 f cylindre m hydraulique
 nl hydraulische cilinder m, f
 r гидроцилиндр m



6.307 e piston
 d Kolben m
 f piston m
 nl zuiger m
 r поршень m
 (→ 6.306)

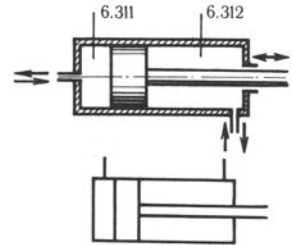
6.308 e piston rod
 d Kolbenstange f
 f tige f
 nl zuigerstang f(m)
 r шток m
 (→ 6.306)

6.309 e single-acting hydraulic cy-
 linder
 d einfachwirkender Hydrozy-
 linder m
 f cylindre m hydraulique à
 simple effet
 nl enkelwerkende hydraulische
 cilinder m, f
 r гидроцилиндр m односто-
 роннего действия



6.310 e double-acting hydraulic cy-
 linder
 d doppeltwirkender Hydrozy-
 linder m

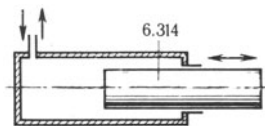
f cylindre m hydraulique à
 double effet
 nl dubbelwerkende hydrauli-
 sche cilinder m, f
 r гидроцилиндр m двойно-
 го действия



6.311 e head end (of cylinder)
 d bodenseitiger Raum m
 f chambre f à piston
 nl cilindereinde n bij de
 zuigerkop
 r поршневая полость f
 (→ 6.310)

6.312 e rod end (of cylinder)
 d stangenseitiger Raum m
 f chambre m à tige
 nl cilindereinde n bij de
 zuigerstang
 r штоковая полость f
 (→ 6.310)

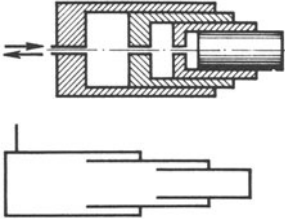
6.313 e plunger (ram) hydraulic cy-
 linder
 d Plungerzylinder m
 f cylindre m hydraulique à
 plongeur
 nl plunjercilinder m
 r плунжерный гидроци-
 линдр m



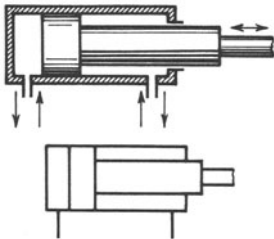
6.314 e plunger (ram)
 d Plunger m
 f plongeur m
 nl plunjer m
 r плунжер m
 (→ 6.313)

6.315

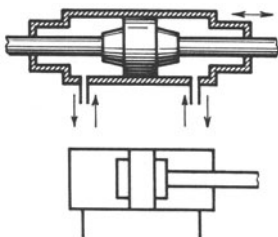
- 6.315 e telescoping hydraulic cylinder
 d Teleskopzylinder m
 f cylindre m hydraulique télescopique
 nl telescoopcilinder m, f
 r телескопический гидроцилиндр m



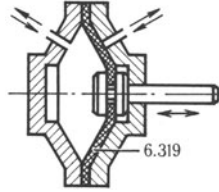
- 6.316 e differential hydraulic cylinder
 d Differentialzylinder m
 f cylindre m hydraulique différentiel
 nl differentiaalcilinder m, f
 r дифференциальный гидроцилиндр m



- 6.317 e cushioned hydraulic cylinder
 d Hydrozylinder m mit Dämpfung
 f cylindre m hydraulique de frein
 nl gedempte hydraulische cilinder m, f
 r гидроцилиндр m с торможением



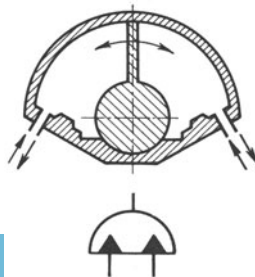
- 6.318 e diaphragm-type hydraulic actuator
 d Membranzyylinder m
 f cylindre m hydraulique en membrane
 nl membraancilinder m, f
 r мембранный гидроцилиндр m



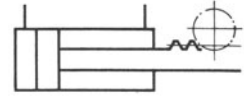
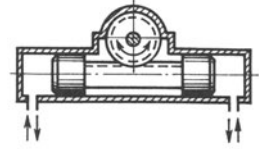
- 6.319 e diaphragm
 d Membran n
 f membrane f, diaphragme m
 nl membraan n, f(m)
 r мембрана f
 (→ 6.318)

- 6.320 e limited rotary hydraulic motor
 d Schwenkmotor m
 f moteur m hydraulique orientable
 nl hydraulische zwenkmotor m
 r поворотный гидродвигатель m
 (→ 6.321, 6.322)

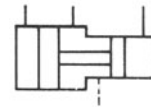
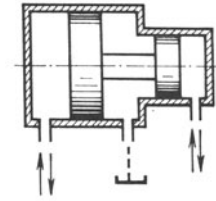
- 6.321 e vane-type limited rotary hydraulic motor
 d Drehflügelzwenkmotor m
 f moteur m hydraulique à palettes
 nl vleugelzwenkmotor m
 r пластинчатый поворотный гидродвигатель m



- 6.322 e piston-type limited rotary hydraulic motor
 d Kolbenschwenkmotor m
 f moteur m hydraulique à piston
 nl zwenkzuigermotor m
 r поршневой поворотный гидродвигатель m



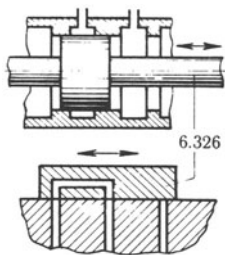
- 6.323 e hydraulic transformer
 d Druckübersetzer m
 f transformateur m hydraulique
 nl hydraulische drukomzetter m
 r гидропреобразователь m



- 6.324 e valve
 d Steuerventil n, Hydroventil
 f groupe m hydraulique
 nl klep f(m), afsluiter m
 r гидроаппарат m
 (→ 6.325, 6.327, 6.329)

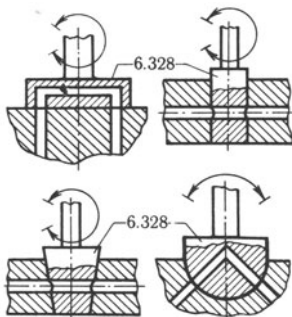
- 6.325 e spool [slide] valve
 d Längsschieberventil n
 f tiroir m

nl schuifklep f(m), schuifafsluiter m
r золотниковый гидроаппарат m



6.326 e spool
d Schieberkolben m
f piston-valve m
nl schuif f(m)
r золотник m
(→ 6.325)

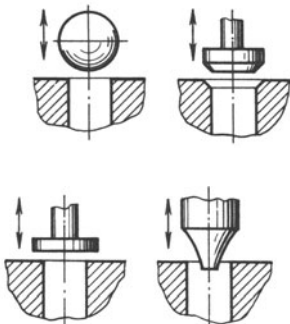
6.327 e rotary valve
d Drehschieberventil n
f distributeur m
nl draaiende afsluiter m, draaischuif f(m)
r крановый гидроаппарат m



6.328 e cock
d Drehschieber m, Hahn m
f robinet m
nl afsluitkraan f(m), afsluiter m
r кран m
(→ 6.327)

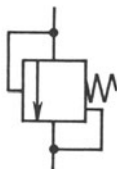
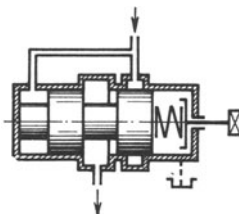
6.329 e seat valve
d Sitzventil n
f clapet m, soupape f
nl afsluitorgaan n, afsluiter m

г клапанный гидроаппарат m, клапан m



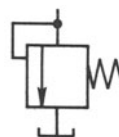
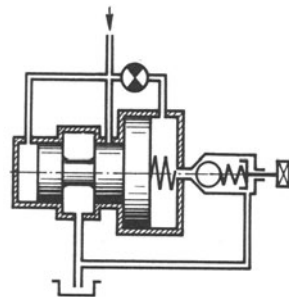
6.330 e pressure control valve
d Druckventil n
f soupape f de pression
nl drukklep f(m), drukafsluiter m
r клапан m давления
(→ 6.331 – 6.333)

6.331 e (pressure) relief valve
d Druckbegrenzungsventil n
f clapet m de refoulement
nl drukventiel n
r напорный клапан m

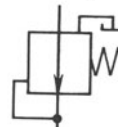
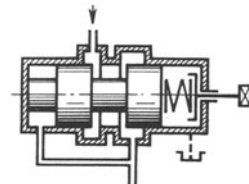


6.332 e safety valve
d Sicherheitsventil n
f soupape f limiteur de pression

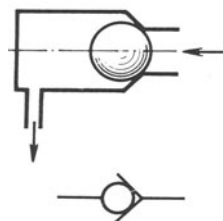
nl veiligheidsklep f(m)
r предохранительный клапан m



6.333 e pressure reducing valve, pressure regulator
d Druckminderventil n
f soupape f de réduction
nl reduceerafsluiter m, reduceerklep f(m)
r редукционный клапан m

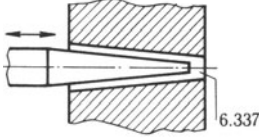


6.334 e check valve
d Sperrventil n, Rückschlagventil
f clapet m antiretour
nl terugslagklep f(m)
r обратный клапан m



6.335

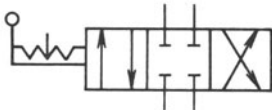
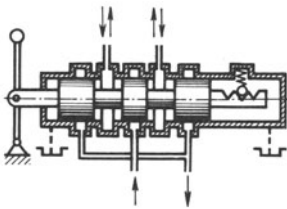
- 6.335 e throttle valve
 d Drossel f
 f soupape f d'étranglement
 nl smookklep f(m)
 r дроссель m



- 6.336 e throttling
 d Drosselung f
 f étranglement m
 nl smoren n, knijpen n
 r дросселирование n
 (→ 6.335)

- 6.337 e orifice
 d Blende f
 f porte f de travail
 nl opening f
 r рабочее окно n
 (→ 6.335)

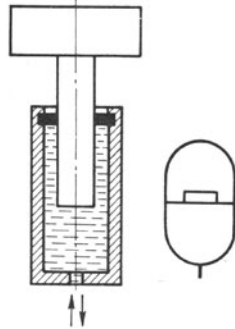
- 6.338 e directional control valve
 d Wegeventil n
 f tiroir m de distribution
 nl grondschiuf f(m), verdeelschiuf
 r направляющий распределитель m



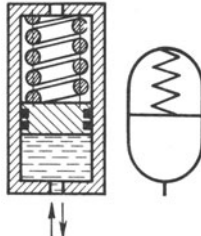
- 6.339 e (hydraulic) accumulator
 d Hydrospeicher m, Druckflüssigkeitsspeicher m
 f accumulateur m hydraulique
 nl hydraulische accumulator m
 r гидроаккумулятор m
 (→ 6.340, 6.341)

- 6.340 e weighted (hydraulic) accumulator

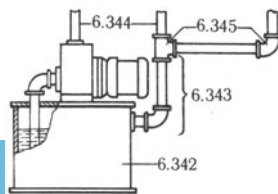
- d gewichtsbelasteter Hydrospeicher m, Gewichtsspeicher
 f accumulateur m hydraulique de pression
 nl met zwaartekracht op druk gebrachte hydraulische accumulator m
 r грузовой гидроаккумулятор m



- 6.341 e spring-loaded (hydraulic) accumulator
 d federbelasteter Hydrospeicher m, Federspeicher
 f accumulateur m hydraulique à ressort
 nl met drukveer op druk gebrachte hydraulische accumulator m
 r пружинный гидроаккумулятор m



- 6.342 e hydraulic reservoir
 d Hydraulikbehälter m, Flüssigkeitsbehälter
 f réservoir m hydraulique
 nl vloeistoftank m
 r гидробак m



- 6.343 e pipeline
 d Rohrleitung f
 f conduite f
 nl pijpleiding f
 r трубопровод m
 (→ 6.342)

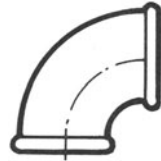
- 6.344 e pipe
 d Rohr n
 f tuyau m
 nl buis f(m), pijp f(m)
 r труба f
 (→ 6.342)

- 6.345 e pipe fitting
 d Rohrformstück n, Fitting n
 f raccord m
 nl verbindingsstuk n, appendage f, hulpstuk
 r фитинг m, соединительная часть f (для трубопровода)
 (→ 6.346 – 6.354)

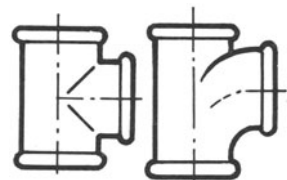
- 6.346 e pipe coupling
 d Muffe f
 f raccord m de tubes
 nl sok f(m), mof f(m)
 r (трубная) муфта f



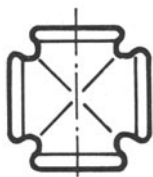
- 6.347 e elbow fitting
 d Winkelstück n
 f raccord m coudé
 nl knie(verbindings)stuk n
 r угольник m



- 6.348 e tee fitting
 d T-Stück n
 f raccord m à trois voies
 nl T-stuk n
 r тройник m



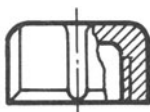
- 6.349 e cross fitting
 d Kreuzstück n
 f raccord m en croix
 nl kruisstuk n
 r крест m



- 6.350 e plug fitting
 d Stopfen m
 f bouchon m d'obturation
 nl plug f(m), stop m
 r пробка f, заглушка f



- 6.351 e cap fitting
 d Kappe f
 f chapeau m
 nl kap f(m)
 r колпак m

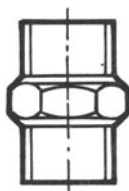


- 6.352 e nipple
 d Nippel m
 f raccord m fileté
 nl nippel m
 r ниппель m

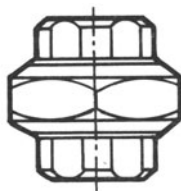


- 6.353 e shoulder nipple
 d Doppelnippel m
 f raccord m à double filetage

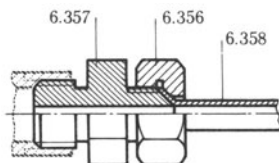
- nl dubbelnippel m
 r двойной ниппель m



- 6.354 e flange fitting, collar nut
 d Muffe f mit Sechskant
 f écrou-raccord m
 nl verbindingsmoer f(m), verbindingsmof f(m)
 r соединительная гайка f



- 6.355 e union fitting
 d Rohrverschraubung f
 f raccord m de séparation
 nl pijpverbinding f met wartel
 r штуцерное (при)соединение (тонкостенных труб) с развальцовкой



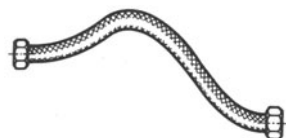
- 6.356 e coupling nut
 d Überwurfmutter f
 f écrou m à raccord
 nl wartel m
 r накидная гайка (→ 6.355)

- 6.357 e union nipple
 d Stutzen m
 f raccord m
 nl pijpverbindingstuk n
 r штуцер m (→ 6.355)

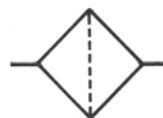
- 6.358 e tube
 d dünnwandiges Rohr n
 f tube m

- nl buis f(m), pijp f(m)
 r трубка f, (тонкостенная) труба f (→ 6.355)

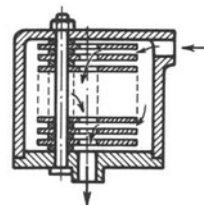
- 6.359 e hose
 d Schlauch m
 f boyau m
 nl slang f(m)
 f(m)
 r шланг m



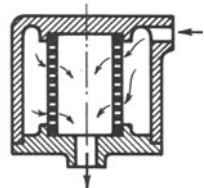
- 6.360 e filter
 d Filter n, m
 f filtre m
 nl filter n, m
 r фильтр m



- 6.361 e edge filter
 d Spaltfilter n, m
 f filtre m à lamelles
 nl spleetfilter n, m
 r щелевой фильтр m

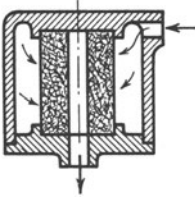


- 6.362 e strainer, woven filter
 d Siebfilter n, m
 f crépine f, filtre m à tamis
 nl zeefilter n, m
 r сетчатый фильтр m



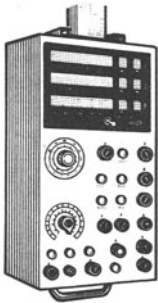
6.363

- 6.363 e depth filter
 d Porenfilter n, m, Tieffilter
 f filtre m cellulaire
 nl poriënfilter n, m diepfilter
 r пористый фильтр m



Control Devices
Steuerorgane
Organes des commandes
Stuurinrichtingen
Органы управления

- 6.364 e control panel
 d Bedientafel f
 f tableau m de commande
 nl bedieningspaneel n
 r панель f управления



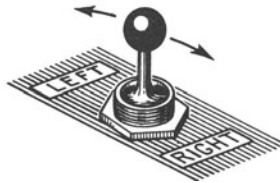
- 6.365 e push button
 d Druckknopf m
 f bouton m
 nl drukknop m
 r кнопка f



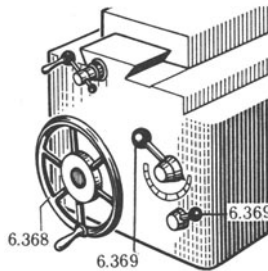
- 6.366 e key
 d Taste f
 f touche f
 nl toets m
 r клавиша f



- 6.367 e toggle switch
 d Tumblerschalter m
 f tumbler m
 nl tuimelschakelaar m
 r тумблер m

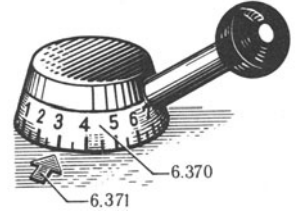


- 6.368 e handwheel
 d Handrad n
 f volant m
 nl handwiel n
 r маховичок m



- 6.369 e handle
 d Steuerhebel m
 f levier m

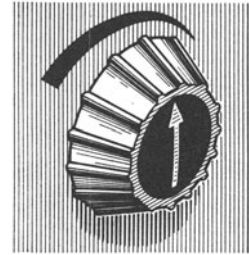
- nl bedieningshefboom m
 r рукоятка f



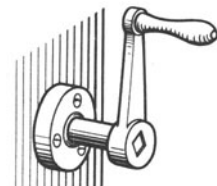
- 6.370 e dial
 d Teilring m
 f limbé m
 nl schaal f (m)
 r лимб m
 (→ 6.369)

- 6.371 e index
 d Zeiger m
 f indicateur m
 nl wijzer m
 r указатель m
 (→ 6.369)

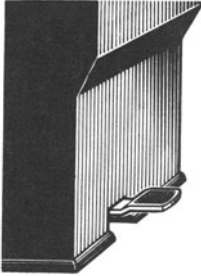
- 6.372 e knob
 d Drehgriff m, Griffrad n, Griffknopf m, Knopf
 f manette f de commande
 nl draaiknop m
 r поворотная ручка m, грибок m



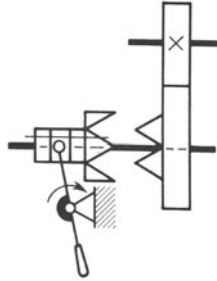
- 6.373 e crank handle
 d Handkurbel f
 f poignée f de manivelle
 nl slinger m
 r кривошипная рукоятка f



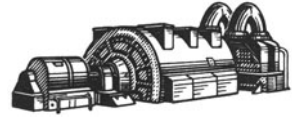
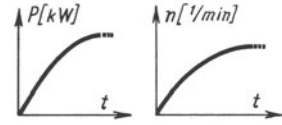
6.374 e treadle
 d Fusshebel m
 f pédale f
 nl pedaal n, m
 r педаль f



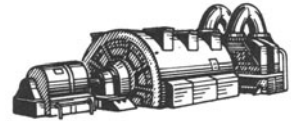
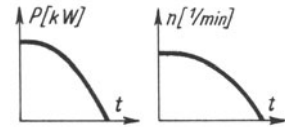
6.377 e engagement
 d Einrücken n
 f connexion f mécanique
 nl koppelen n
 r (механическое) включение n



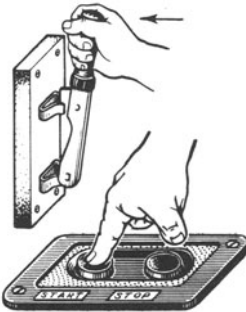
nl aanzetten n
 r пуск m



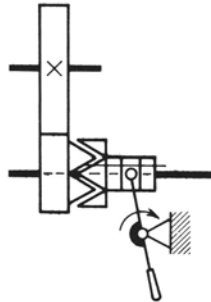
6.381 e stop(ping)
 d Anhalten n
 f arrêt m
 nl stoppen n
 r останов m



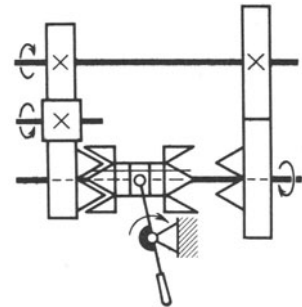
6.375 e switching on
 d Einschaltung f, Einschalten n
 f connexion f électrique
 nl inschakeling f, inschakelen n
 r (электрическое) включение n



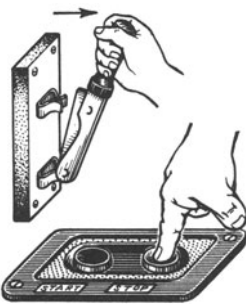
6.378 e disengagement
 d Ausrücken n, Auslösen n
 f déconnexion f mécanique
 nl ontkoppelen n
 r (механическое) выключение n



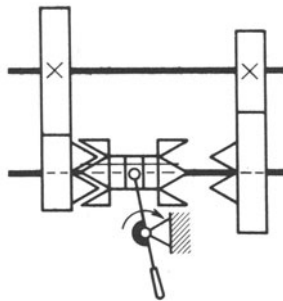
6.382 e reverse, reversing
 d Umsteuern n
 f renversement m
 nl omkeren n, omkering f
 r реверсирование n



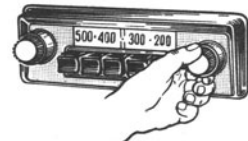
6.376 e switching out
 d Ausschaltung f, Ausschalten n
 f déconnexion f électrique
 nl uitschakeling f, uitschakelen n
 r (электрическое) выключение n



6.379 e shifting
 d Umschalten n
 f changement m
 nl overschakelen n
 r переключение n



6.383 e adjustment
 d Einstellung f
 f réglage m
 nl regeling f, afstelling f
 r регулирование n

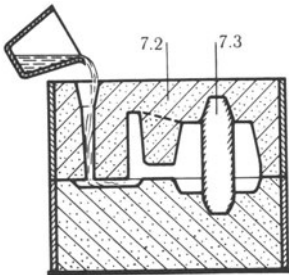


6.380 e start(ing)
 d Anlassen n
 f démarrage m

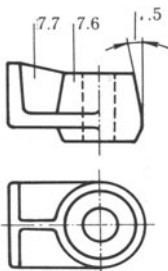
7. FOUNDRY ENGINEERING
 GIESSEREITECHNIK
 FONDERIE
 GIETTECHNIEK
 ЛИТЕЙНОЕ ПРОИЗВОДСТВО

Moulds and Moulding
Giessformen und Formherstellung
Formes et moulage
Gietvormen en vormen
Формы и формовка

- 7.1 e casting (process)
 d Giessen n, Guss m
 f coulée f
 nl gieten n
 r литьё n

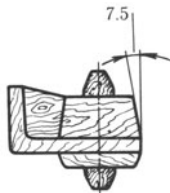


- 7.2 e mould
 d Giessform f, Form
 f moule m (à couler)
 nl (giet)vorm f(m)
 r (литейная) форма f
 (→ 7.1)
- 7.3 e (mould) core
 d Kern m
 f noyau m (de fonderie)
 nl (giet)kern f(m)
 r (литейный) стержень m
 (→ 7.1)
- 7.4 e casting
 d Guss-Stück n

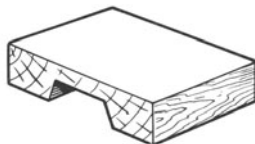


- f pièce f coulée, coulée f
 nl gietstuk n
 r отливка f
- 7.5 e draft, taper
 d Schräge f, Modellschräge
 f dépouille f
 nl lossingsschuinte f
 r формовочный уклон m
 (→ 7.4, 7.8)
- 7.6 e boss
 d Nabe f
 f bossage m
 nl aangegoten verdikking f
 r бобышка f
 (→ 7.4)

- 7.7 e rib
 d Rippe f
 f nervure f
 nl verstevigingsribbe f
 r ребро n
 (→ 7.4)
- 7.8 e pattern
 d Modell n
 f modèle m (de fonderie)
 nl (giet)model n
 r (литейная) модель f



- 7.9 e solid pattern
 d ungeteiltes Modell n
 f modèle m fixe
 nl ongedeelde [vast] model n
 r неразъёмная модель f



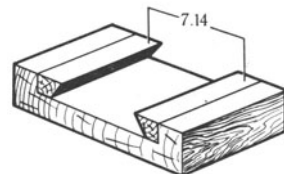
- 7.10 e split pattern
 d geteiltes Modell n
 f modèle m en deux parties
 nl gedeeld model n
 r разъёмная модель f



- 7.11 e parting plane
 d Trennungsfläche f
 f plan m de démontage
 nl scheidingsvlak n
 r плоскость f разъёма
 (→ 7.10)

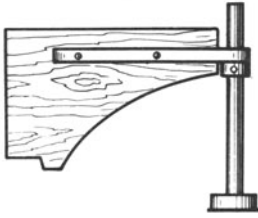
- 7.12 e core print
 d Kernmarke f
 f marque f du noyau
 nl kernleger n
 r стержневой знак m
 (→ 7.10)

- 7.13 e loose(-piece) pattern
 d mehrteiliges [zerlegbares] Modell n
 f modèle m démontable
 nl model n met losse delen
 r модель f с отъёмной частью

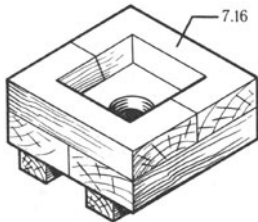
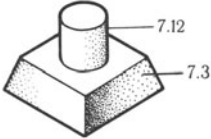


- 7.14 e loose piece
 d Ansteckteil m, Losteil
 f partie f démontable
 nl onderdeel n van het model
 r отъёмная часть f
 (→ 7.13)

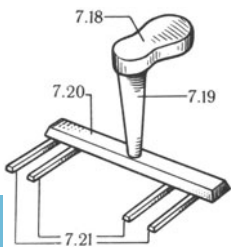
- 7.15 e sweep pattern
 d Schablonierbrett n, Schablone f
 f trousseau m (de fonderie)
 nl vormmal m
 r литейный шаблон m



- 7.16 e core box
 d Kernkasten m
 f boîte f à noyaux
 nl kernbak m, kerndoos f(m)
 r стержневой ящик m



- 7.17 e running [gating] system
 d Anschnittssystem n, Giess-System
 f système m d'alimentation, coulées f pl
 nl gietloopmodel n
 r литниковая система f



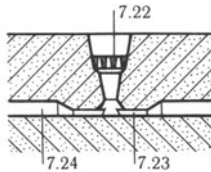
- 7.18 e pouring basin
 d Giessstümpel m
 f bassin m de coulée
 nl losse gietkom f(m), gietbak m
 r литниковая чаша f
 (→ 7.17)

- 7.19 e sprue
 d Eingusskanal m, Einlauf m
 f descente f de coulée
 nl gietrechter m
 r стояк m
 (→ 7.17)

- 7.20 e runner
 d Giesslauf m
 f canal m de coulée
 nl gietloop m
 r литниковый ход m
 (→ 7.17)

- 7.21 e gate
 d Anschnitt m
 f attaque f de coulée
 nl aansnijding f
 r питатель m
 (→ 7.17)

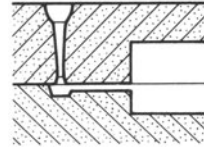
- 7.22 e strainer core
 d Einguss-Sieb n, Eingussfilter n, Siebkern m
 f crépine f, noyau-filtre m, filtre à crasses
 nl slakkenzeef f (m)
 r (фильтровальная) сетка f



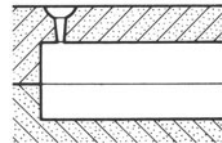
- 7.23 e choke
 d Strömungsverengung f
 f papillon m
 nl vernauwing f van een inloopkanaal
 r литниковый дроссель m
 (→ 7.22)

- 7.24 e dirt [slag] trap, skimming chamber, skin gate
 d Schlackenfalle f, Schlackenfangan m
 f nid m [piège m] à crasses
 nl slakvanger m
 r шлакоуловитель m
 (→ 7.22)

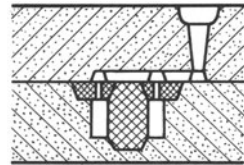
- 7.25 e parting gate
 d Anschnitt m an der Formteilung
 f coulée f en square à talon
 nl aansnijding f langs het vormscheidingsvlak
 r литниковая система f по разъёму



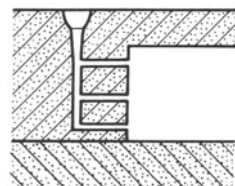
- 7.26 e top gate
 d Anschnitt m von oben
 f coulée f en chute directe
 nl vallend gieten n
 r верхняя литниковая система f



- 7.27 e pencil [shower] gate
 d Ringsiebeinguss m
 f coulée f en pluie
 nl verdelende aansnijding f
 r дождевая литниковая система f

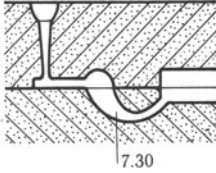


- 7.28 e step gate
 d Stufenanschnitt m
 f coulée f en grappe
 nl stijgend gieten n met etage-aansnijding
 r ярусная литниковая система f

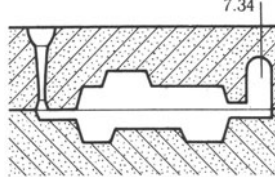


7.29

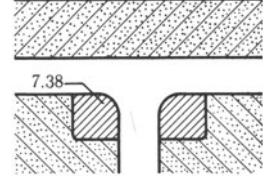
- 7.29 e bottom gate
 d Anschnitt m von unten
 f coulée f en cornichon
 nl opkomend gieten n
 r сифонная литниковая система f



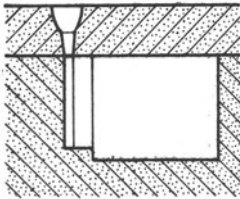
- 7.34 e blind feeder [riser]
 d Blindspeiser m, Druckspeiser, geschlossener Speiser
 f masselotte f borgne
 nl blinde opkomer m
 r закрытая прибыль f



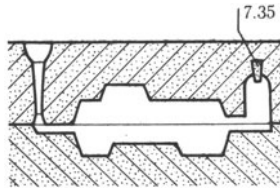
- 7.38 e chill, densener
 d Kühlleisen n, Kühlkokille f, Kühlkörper m
 f refroidisseur m interne
 nl schrikplaat f (m)
 r холодильник m



- 7.30 e horn gate
 d Hornlauf m
 f attaque f en cornichon
 nl doornaansnijding f
 r рожковый питатель m
 (→ 7.29)



- 7.35 e permeable [pencil] core
 d Luftkern m, Luftstift m
 f crayon m de masselotte
 nl gaskern f (m)
 r стерженьк m атмосферного давления

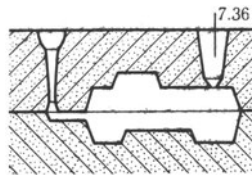


- 7.39 e chaplet
 d Kernstütze f
 f support m mal soudé
 nl onversmolten kernsteun m
 r жеребейка f



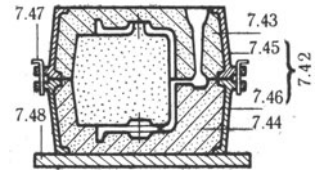
- 7.31 e slit [slot] gate
 d Schlitzanschnitt m
 f attaque f à fente
 nl vertikale spleetaansnijding f
 r щелевой [ножевой] питатель m

- 7.36 e necked down [neckdown] feeder [riser]
 d eingeschnürter Speiser m
 f masselotte f à étranglement
 nl opkomer m met tapkraag
 r легкоотделяемая [отбиваемая] прибыль f



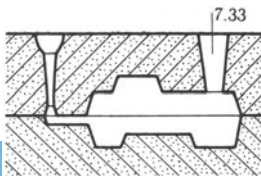
- 7.40 e expendable mould
 d verlorene Form f
 f moule m perdu
 nl verloren gietvorm m
 r разовая форма f
 (→ 7.41, 7.50 – 7.52)

- 7.41 e sand mould
 d Sandform f
 f moule m en sable
 nl zandvorm m
 r песчаная форма f

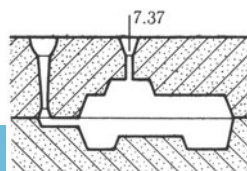


- 7.32 e feeder (head), riser
 d Speiser m
 f masselotte f
 nl opkomer m
 r прибыль f
 (→ 7.33, 7.34)

- 7.33 e open feeder [riser]
 d offener Speiser m
 f masselotte f directe [ouverte]
 nl open opkomer m
 r открытая прибыль m



- 7.37 e whistler
 d Luftpfeife f
 f évent m
 nl ontluchtingskanaal n
 r выпор m



- 7.42 e flask, moulding box
 d Formkasten m
 f châssis m (de moulage)
 nl vormkast f(m)
 r литейная опока f
 (→ 7.41)

- 7.43 e cope
 d Formoberteil m
 f partie f de dessus
 nl bovenvorm m
 r верхняя полуформа f
 (→ 7.41)

7.44 e drag
 d Formunterteil m
 f partie f de dessous
 nl ondervorm m
 r нижняя полуформа f
 (→ 7.41)

7.45 e cope box
 d Oberkasten m
 f châssis m de dessus
 nl bovenkast f(m)
 r верхняя опока f
 (→ 7.41)

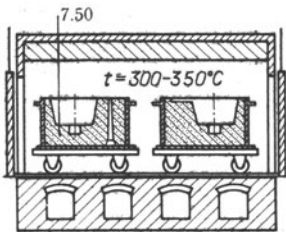
7.46 e drag box
 d Unterkasten m
 f châssis m de dessous
 nl onderkast f(m)
 r нижняя опока f
 (→ 7.41)

7.47 e alignment pin
 d Führungstift m
 f goujon m à embase
 nl geleidingspen f(m)
 r штырь m
 (→ 7.41)

7.48 e bottom board [plate]
 d Modellbrett n, Grundplatte f
 f plaque f de fond
 nl bodemplaat f(m)
 r подошвенная плита f
 (→ 7.41)

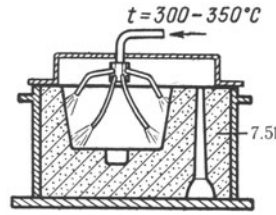
7.49 e green-sand mould
 d Grünsandform f; Nassgussform
 f moule m à vert
 nl groenzandvorm m
 r сырая форма f

7.50 e dry-sand mould
 d Trockenform f
 f moule m étuvé [à sec]
 nl droogzandvorm m
 r сухая форма f

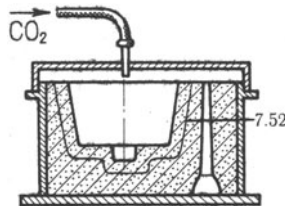


7.51 e skin-dried mould
 d oberflächengetrocknete Form f

f moule m à présec
 nl aangedroogde vorm m
 r подсушенная форма f



7.52 e carbon dioxide (treated) mould
 d CO₂-Sandform f
 f moule m de durcissement chimique
 nl CO₂-zandvorm m, chemisch hardende gietvorm
 r химически твердеющая форма f



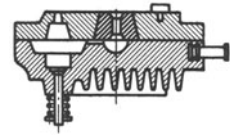
7.53 e shell mould
 d Maskenform f
 f carapace f moule
 nl vormschaal f(m)
 r оболочковая форма f



7.54 e permanent mould
 d Dauerform f
 f moule m permanent
 nl permanente gietvorm m
 r многократная форма f
 (→ 7.55)

7.55 e metal mould
 d Kokille f
 f moule m métallique, coquille f

nl coquille f(m), metalen (giet)vorm m
 r кокиль m



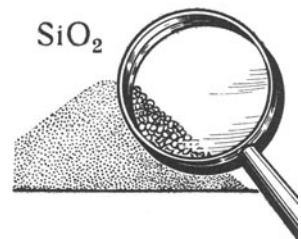
7.56 e mould material
 d Formstoff m
 f matériau m de moulage
 nl vormmateriaal n
 r формовочный материал m



7.57 e natural moulding sand
 d Natursand m
 f sable m naturel
 nl natuurlijk vormzand n
 r природный [естественный] песок m



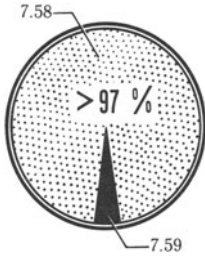
7.58 e silica
 d Quarz m
 f silice f, quartz m
 nl silica n, kwarts n
 r кварц m



7.59

- 7.59 e clay
 d Ton m
 f argile f
 nl klei f(m)
 r глина f
 (→ 7.60 – 7.63)

- 7.60 e high-silica sand
 d Quarzsand m
 f sable m siliceux [quartzeux]
 nl kwartszand m, zilverzand
 r кварцевый песок m



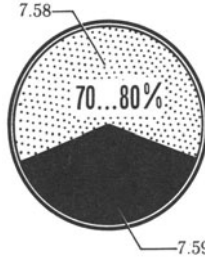
- 7.61 e weak [lean] sand
 d mager Sand m
 f sable m maigre
 nl mager vormzand n
 r тощий песок m



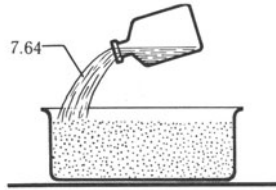
- 7.62 e medium strong sand
 d mittelfetter Sand m
 f sable m semi-gras
 nl halfvet vormzand m
 r полужирный песок m



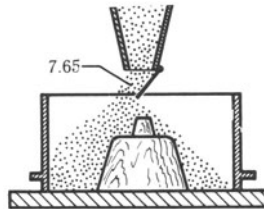
- 7.63 e strong sand
 d fetter Sand m
 f sable m fort [gras]
 nl vet vormzand n
 r жирный песок m



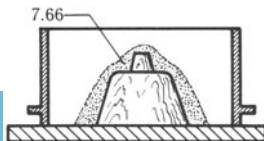
- 7.64 e binder
 d Bindemittel n, Binder m
 f liant m
 nl bindmiddel n
 r (литейный) крепитель m



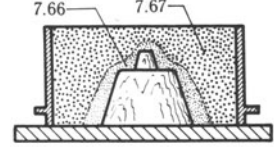
- 7.65 e moulding mixture [sand]
 d Formsand m
 f sable m, sable de fonderie [de moulage]
 nl vormmassa f (m), vormmateriaal n
 r формовочная смесь f



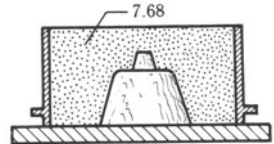
- 7.66 e facing sand
 d Modellsand m
 f sable m de contact [de surface]
 nl modelzand n
 r облицовочная смесь f



- 7.67 e backing sand
 d Füllsand m, Haufensand
 f sable m de remplissage
 nl vulzand n
 r наполнительная смесь f



- 7.68 e facing-and-backing sand
 d Einheitssand m
 f sable m unique
 nl eenheidszand n
 r единая смесь f



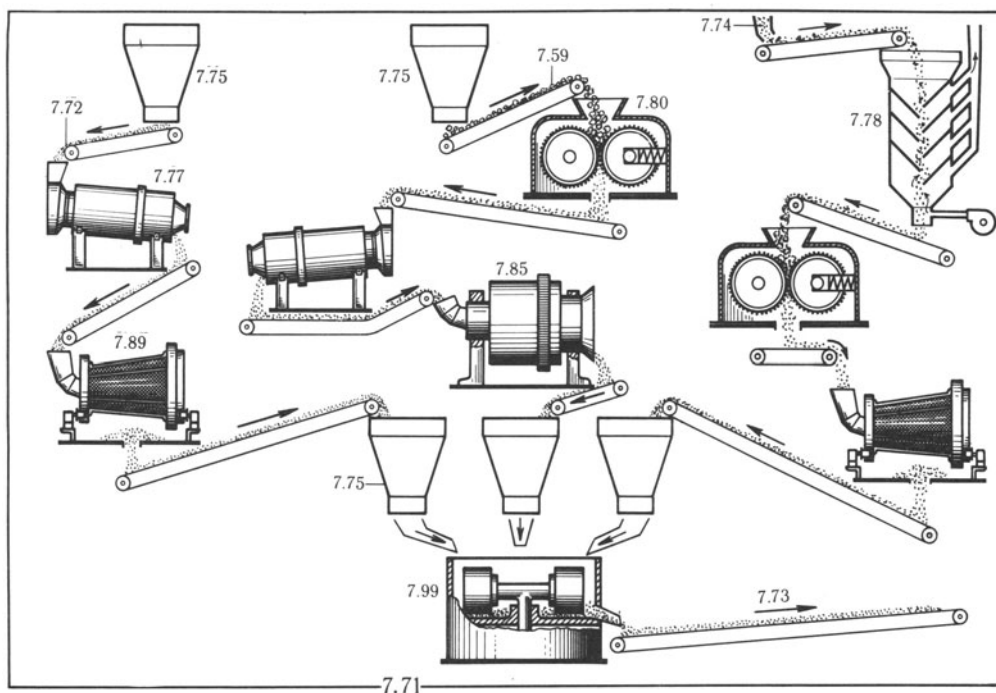
- 7.69 e self-hardening [self-curing] mixture
 d selbsthärtender Formstoff m
 f sable m de auto-durcissement
 nl zelfhardende vormmassa f (m)

- 7.70 e moulding-sand preparation
 d Sandaufbereitung f
 f sablerie f
 nl zandbereiding f, bereiden n van een vormzand
 r смесеприготовление n (→ 7.71)

- 7.71 e sand plant
 d Sandaufbereitungsanlage f
 f sablerie f
 nl zandbereidingsinstallatie f
 r смесеприготовительная установка f

- 7.72 e new sand
 d Neusand m
 f sable m neuf [frais]
 nl vers zand n
 r свежий песок m (→ 7.71)

- 7.73 e burnt sand
 d verbrannter Sand m, Alt-sand
 f sable m brûlé [de décochage]
 nl doodgebrand zand n
 r отработанная смесь f (→ 7.71)

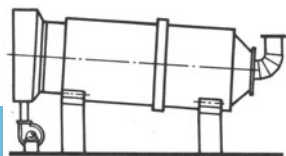


7.74 e reused [reconditioned] sand
 d aufbereiteter Sand m
 f sable m régénéré
 nl geregenereerd zand n
 r оборотная смесь f
 (→ 7.71)

7.75 e hopper-type bin
 d Vorratsbunker m, Bunker
 f silo m
 nl bunker m, silo m
 r бункер m
 (→ 7.71)

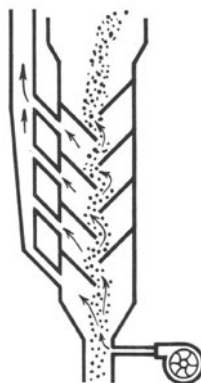
7.76 e dryer
 d Trockenofen m
 f étuve f, sécheur m, four m
 à sécher
 nl droogoven m
 r сушилка n, сушильная
 печь f
 (→ 7.77)

7.77 e rotary dryer
 d Trockentrommel f, Dreh-
 rohröfen m



f tambour m à sécher
 nl droogtrommel f(m)
 r барабанное сушило n

7.78 e sand cooler
 d Sandkühler m
 f refroidisseur m de sable
 nl zanddroger m
 r установка f для охлаж-
 дения песка

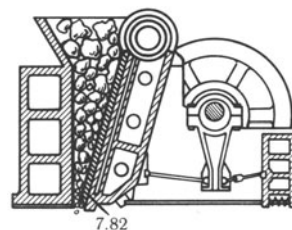


7.79 e crushing
 d Brechen n, Zerkleinern n,
 Zerkleinerung f
 f broyage m

nl fijnmaken n, breken n
 r дробление с
 (→ 7.81, 7.83)

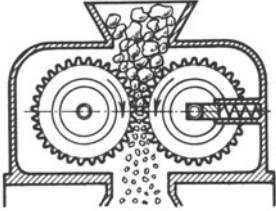
7.80 e crusher
 d Brecher m, Brechwerk n
 f concasseur m, broyeur m
 nl breker m
 r дробилка f
 (→ 7.81, 7.83)

7.81 e jaw crusher
 d Backenbrecher m
 f concasseur m à mâchoires
 nl kaakbreker m
 r щековая дробилка f



7.82 e jaw
 d Backe(n) f(m)
 f mâchoire f
 nl kaak f(m)
 r щека f (дробилки)
 (→ 7.81)

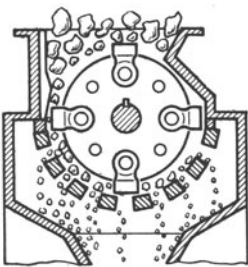
- 7.83 e roll breaker [crusher]
 d Walzenbrecher m, Brechwalzen f pl
 f concasseur m à cylindres [à rouleaux]
 nl walsmolen m
 r валковая дробилка f



- 7.84 e grinding, milling
 d Brechen n, Kollern n
 f frottage m, meulage m
 nl malen n, maling f
 r измельчение n, размалывание n, размол m
 (→ 7.86, 7.87)

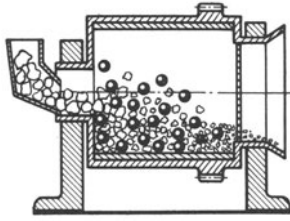
- 7.85 e mill, miller
 d Mühle f
 f machine f à meuler, moulin m, broyeur m
 nl molen m
 r мельница f
 (→ 7.86, 7.87)

- 7.86 e hammer mill
 d Hammermühle f
 f broyeur m à marteau
 nl hamermolen m
 r молотковая мельница f



- 7.87 e ball mill
 d Kugelmühle f
 f broyeur m à boulets, moulin m à billes

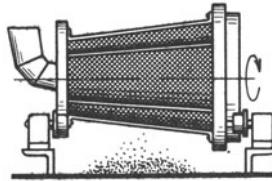
- nl kogelmolen m
 r шаровая мельница f



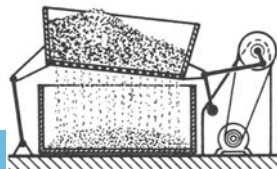
- 7.88 e screening
 d Sieben n
 f criblage m
 nl zeven n
 r просеивание n
 (→ 7.90, 7.91)

- 7.89 e sieve, screen
 d Sieb n
 f tamis m
 nl zeef m
 r сито n
 (→ 7.90, 7.91)

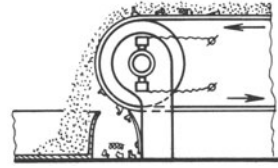
- 7.90 e gyratory [rotary] sieve [screen]
 d Drehsieb n, Rotationsieb, Polygonsieb
 f tamis m giratoire
 nl roterende zeeftrommel f (m)
 r вращающееся [барбанное] сито n



- 7.91 e oscillating sieve
 d Schwingsieb n
 f tamis m oscillant
 nl trilzeef f(m)
 r качающееся сито n



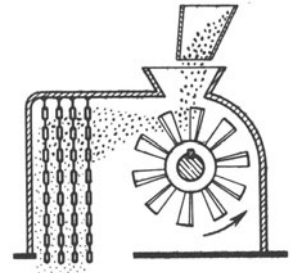
- 7.92 e magnetic separator
 d Magnetscheider m
 f séparateur m magnétique
 nl magneetscheider m
 r магнитный сепаратор m



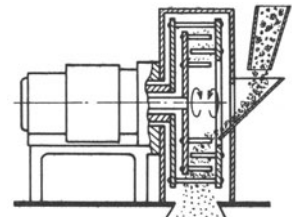
- 7.93 e (sand) desintegration
 d Auflockern n (von Sand)
 f ameublissement m
 nl lossaan n van zand
 r разрыхление n (песка)
 (→ 7.95 – 7.97)

- 7.94 e sand desintegrator
 d Knollenbrecher m
 f ouvreuse f de fonderie
 nl zandwolf m
 r литейный разрыхлитель m
 (→ 7.95 – 7.97)

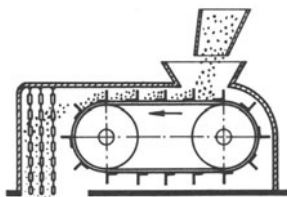
- 7.95 e aerator
 d Trommelschleuder m, Rad-schleuder
 f diviseur-aérateur m
 nl zandwolf m
 r литейный аэратор m



- 7.96 e spike desintegrator
 d Stiftenkorbschleuder m
 f diviseur m à broches
 nl zandwolf m met tanden
 r литейный дезинтегратор m

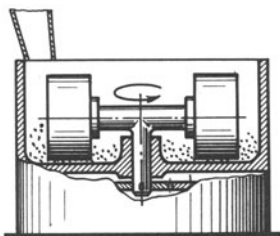


- 7.97 e belt-type desintegrator
 d Bandschleuder m
 f diviseur-aérateur-projecteur m
 nl zandwolf m met werpinrichting
 r ленточный разрыхлитель m



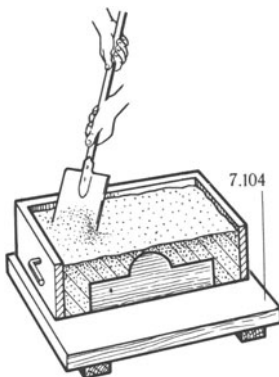
- 7.98 e mixing
 d Kneten n, Mischung f
 f malaxage m, mélange m
 nl mengen
 r смешивание n, замешивание n
 (→ 7.99)

- 7.99 e sand mixer, miller
 d Kollermischer m, Mischkollergang m
 f mélangeur-frotteur m
 nl kollermolen m, kollergang m
 r (смешивающие) литейные бегуны pl



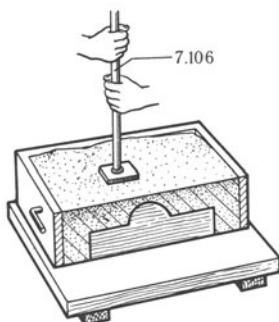
- 7.100 e moulding
 d Formen n
 f moulage m
 nl vormen n
 r формовка f
- 7.101 e pattern moulding
 d Modellformen n
 f moulage m avec modèles
 nl vormen n met een model
 r формовка f по модели
- 7.102 e hand moulding
 d Handformen n
 f moulage m à main
 nl handvormen n
 r ручная формовка f
 (→ 7.103, 7.105, 7.108, 7.111, 7.112, 7.114, 7.119, 7.121, 7.124)

- 7.103 e shoveling (the moulding sand)
 d Schaufeln n (des Formsandens)
 f chargement m de sable de fonderie
 nl toevoer m van vormzand
 r засыпка f (формовочной смеси)



- 7.104 e mould board
 d Formunterlage f, Modellbrett n
 f plaque-modèle f
 nl modelplaat m
 r модельная плита f
 (→ 7.103)

- 7.105 e ramming
 d Aufstampfen n
 f serrage m du moule
 nl verdichten van zand
 r набивка f, уплотнение n

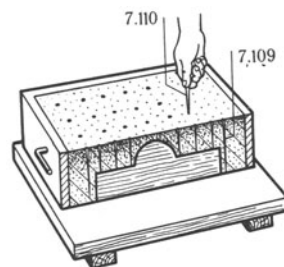


- 7.106 e (hand)rammer
 d Stampfer m
 f fouloir m manuel
 nl spitsstamper m
 r ручная трамбовка f
 (→ 7.105)

- 7.107 e pneumatic rammer
 d Druckluftstampfer m
 f fouloir m pneumatique [à air comprimé]
 nl persluchtstamper m
 r пневматическая трамбовка f



- 7.108 e punching the vent holes
 d Luftstechen n, Einstechen von Entlüftungskanälen
 f tirage m d'air, tirage m de trous d'air
 nl steken n van ontluftingskanalen
 r накальвание n вентиляционных отверстий



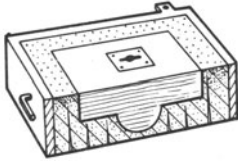
- 7.109 e vent hole
 d Entlüftungskanal m
 f trou m d'air
 nl ontluftingskanaal n
 r вентиляционное отверстие n, вентиляционный канал m
 (→ 7.108)

- 7.110 e vent wire
 d Luftspieß m
 f aiguille f à air
 nl prikker m
 r душник m, формовочная игла f
 (→ 7.108)

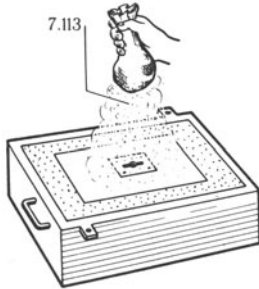
- 7.111 e rolling over
 d Umrollen n
 f renversement m

7.111

nl omkeren n
r кантовка f, переворачивание n

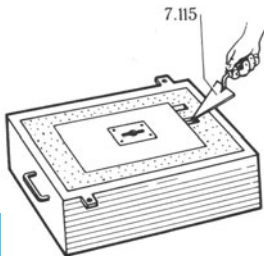


7.112 e dusting
d Einpudern n
f noircissage m
nl zwarten n
r припудривание n, припыливание n



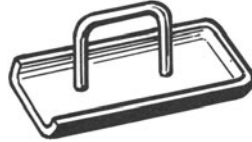
7.113 e parting dust [powder]
d Formpuder n
f isolant m, poncif m
nl zwartsel n
r пудра f, припыл m
(→ 7.112)

7.114 e cutting the gates
d Ausschneiden n von Anschitten
f entaille f d'attaque de coulée
nl aansnijden n
r прорезание n питателей

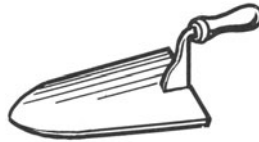


7.115 e trowel
d Polierschaufel f, Truffel f
f lissoir m
nl troffel m, strijkbord n
r гладилка f
(→ 7.114, 7.116, 7.117)

7.116 e flat trowel
d Polierschaufel f mit geradem Blatt
f lissoir m truelle
nl vlakke [rechte] troffel m
r плоская гладилка f



7.117 e shaped trowel
d Polierschaufel f mit rundem Blatt
f lissoir m profilé
nl afgeronde troffel m
r фасонная гладилка f

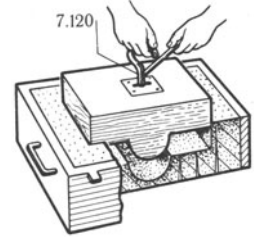


7.118 e slick, sleeker
d Lanzette f
f spatule f
nl spatel f (m)
r ланцет m



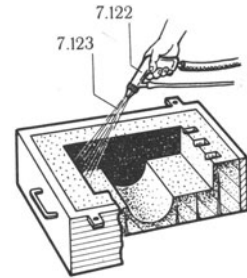
7.119 e drawing the pattern
d Ausheben n des Modells
f démoulage m

nl uitnemen n van het model
r извлечение n [выемка f] модели



7.120 e draw spike, rapping pin, picker
d Aushebeeisen n
f picot m de mouleur, pointe f à boucle, pointe f en équerre à boucle
nl uitlichtpen f(m), modelpen
r подёмник m
(→ 7.119)

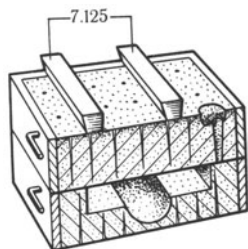
7.121 e spraying
d Anspritzen n, Sprühen n
f bassinage m
nl (be)sproeien n
r опрыскивание n



7.122 e spray(ing) gun
d Zerstäuber m, Spritzpistole f
f pulvérisateur m
nl sproeier m, verstuiver m
r пульверизатор m, краскораспылитель m
(→ 7.121)

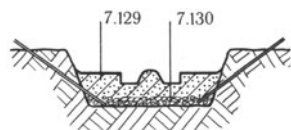
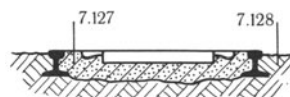
7.123 e mould wash (coating)
d Formschlichte f
f noir m de fonderie
nl vormdekmiddel n
r формовочная [противо-пригарная] краска f
(→ 7.121)

- 7.124 e mould assembly
 d Zulegen n der Form
 f montage m de moule
 nl monteren n van een gietvorm
 r сборка f формы



- 7.125 e weight
 d Beschwereisen n
 f poids m de charge
 nl ballast m
 r груз m
 (→ 7.124)

- 7.126 e floor moulding
 d Bodenformen n
 f moulage m au sol
 nl bodemvormen n, het vormen in bodem
 r формовка f в почве



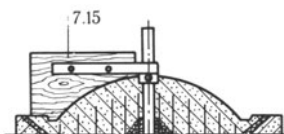
- 7.127 e ground
 d Boden m
 f sol m
 nl bodem m, grond m
 r почва f, грунт m
 (→ 7.126)

- 7.128 e soft bed
 d Formgrube f [Formherd n]
 ohne Entlüftungsunterbettung
 f couche f de sable
 nl poreus zandbed n
 r мягкая постель f
 (→ 7.126)

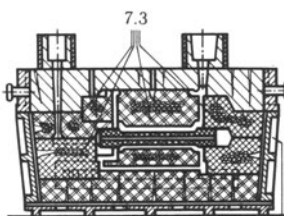
- 7.129 e stiff bed
 d Formgrube f [Formherd n]
 mit Entlüftungsunterbettung
 f lit m de coulée
 nl gietbed n
 r жёсткая постель f
 (→ 7.126)

- 7.130 e slag
 d Schlacke f
 f crasse f
 nl slak f(m)
 r шлак m
 (→ 7.126)

- 7.131 e strickling
 d Schablonieren n
 f trousseage m
 nl vormen n met een mal, sjabloneren n
 r формовка f по шаблону



- 7.132 e core assembly [all-core] moulding
 d Aussenkernformverfahren n
 f moulage m par noyaux
 nl vormen n met een schuurmal
 r формовка f в стержнях

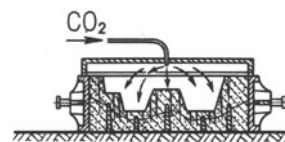


7.133

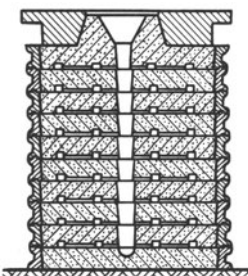
- 7.133 e jacket
 d Giesserahmen m, Überwurfrahmen
 f jaquette f
 nl vormfreem n
 r жакет m
 (→ 7.132)

- 7.134 e CO₂-mould hardening process
 d CO₂-Verfahren n, Kohlen-säure-Erstarrungsverfahren
 f moulage m par procédé oxydant

- nl vormen n volgens het CO₂-procédé
 r формовка f по CO₂-процессу



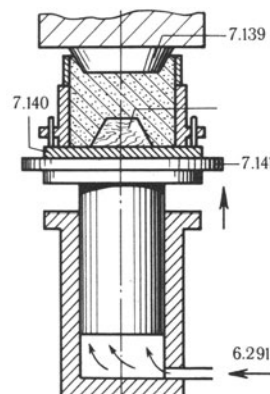
- 7.135 e stack moulding
 d Stapelformen n
 f gerbe des moules
 nl stapelen van gietvormen
 r столочная формовка f



- 7.136 e machine moulding
 d Maschinenformen n
 f moulage m à la machine
 nl machinaal vormen n
 r машинная формовка f
 (→ 7.138, 7.142, 7.144)

- 7.137 e moulding machine
 d Formmaschine
 f machine f à mouler
 nl vormmachine f
 r формовочная машина f
 (→ 7.151, 7.157, 7.161)

- 7.138 e squeeze ramming, squeezing
 d Verdichten n durch Pressen n, Pressverdichtung f, Pressen n



7.138

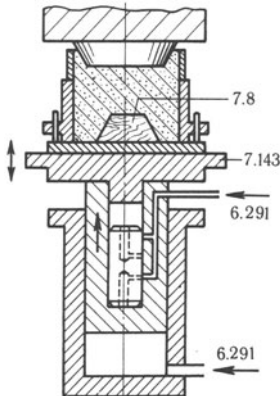
f serrage m par pression
nl verdichten n door persen
r прессование n (формовочной смеси)

7.139 e squeeze head
d Presshaupt n, Pressplatte f
f planche f à imprimer, plateau m de serrage
nl persplaat f(m)
r прессовая колодка f (→ 7.138)

7.140 e pattern plate
d Modellplatte f
f plaque-modèle f, plaque-support f de moule
nl modelplaat f(m)
r модельная плита f (→ 7.138)

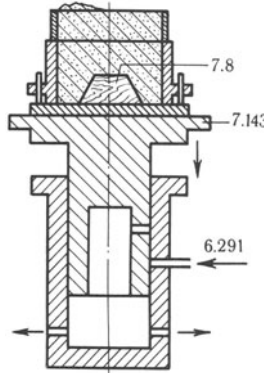
7.141 e table (of moulding machine)
d Tisch m (der Formmaschine)
f banc m de moulage
nl vormtafel f(m)
r стол m (формовочной машины) (→ 7.138)

7.142 e squeeze-and-vibration ramming
d Verdichtung f durch Pressen und Vibration
f serrage m par vibration
nl verdichten n door trillen
r вибропрессование n

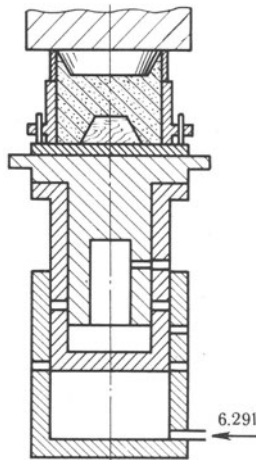


7.143 e table vibrator
d Tischvibrator m
f vibreur m de table
nl triltafel f (m)
r вибратор m стола (→ 7.142)

7.144 e jolting, jolt ramming
d Verdichten n durch Rütteln, Rüttelverdichtung f, Rütteln n
f secousse f, secouage m
nl verdichten n door schudden
r встряхивание n

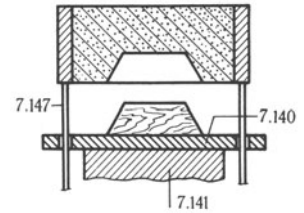


7.145 e final squeezing
d Nachpressen n
f pressage m résiduel
nl napersen n
r допрессовка f



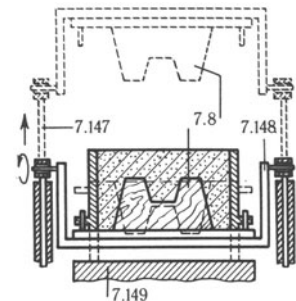
7.146 e pin lift, draw on pins
d Stiftabhebung f, Abheben n mit Stiften
f démoulage m par chandelles
nl lossen n met afhefstiften

г штифтовый съём m



7.147 e lifting [stripper] pin
d Abhebestift m
f chandelle f de démoulage
nl afhefstift f (m), afdwstift
r подъёмный штифт m (→ 7.146)

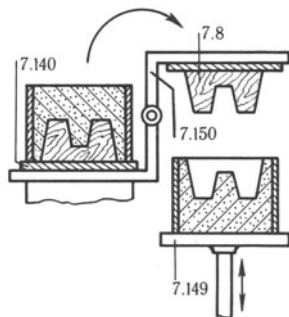
7.148 e turn-over table
d Wendetisch m
f table f tournante [rotative]
nl wentelplaat f (m)
r поворотный стол m



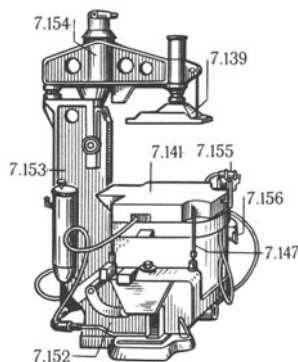
7.149 e draw table
d Abhebetisch m
f table f de réception
nl afheftafel f(m)
r приёмный стол m (→ 7.148)

7.150 e roll-over table
d Umrolltisch m
f table f basculante [tour-nante]

nl wenteltafel f (m)
r перекидной стол m



7.151 e jolt-squeeze pattern-drawing moulding machine
d Rüttel-Press-Abhebeformmaschine f
f machine f à mouler par retournement avec chandeliers
nl vormmachine f met afhefinrichting
r вибропрессовая формовочная машина f со штифтовым подъёмом



7.152 e bed of moulding machine
d Gestell n der Formmaschine f
f bâti m de machine à mouler
nl onderstel n van de vormmachine
r станина f формовочной машины
(→ 7.151)

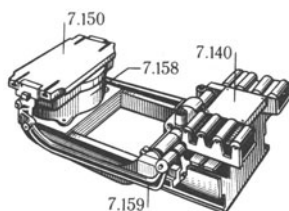
7.153 e column
d Säule f
f colonne f
nl kolom f(m)
r колонна f, стойка f
(→ 7.151)

7.154 e arm
d Pressholm m, Holm
f traverse f
nl dwarsarm m
r траверса f
(→ 7.151)

7.155 e air distributor
d Luftsteuerventil n
f distributeur m d'air
nl luchtverdeelkast f (m)
r воздухораспределитель m
(→ 7.151)

7.156 e knee valve
d Knieventil n
f valve f a coude
nl knieafsluiter m
r коленный клапан m
(→ 7.151)

7.157 e jolt roll-over pattern-draw moulding machine
d Rüttel-Umrollformmaschine f
f machine f à mouler à secousses d'étirer et de tourner
nl trilvormmachine f met keerinrichting
r поворотно-вытяжная встряхивающая формовочная машина f



7.158 e jolt table
d Rütteltisch m
f table f à secousses
nl schudtafel f(m), triltafel
r встряхивающий стол m
(→ 7.157)

7.159 e roll-over arm
d Umrollarm m
f levier m de table basculante
nl keearm m
r рычаг m перекидного стола
(→ 7.157)

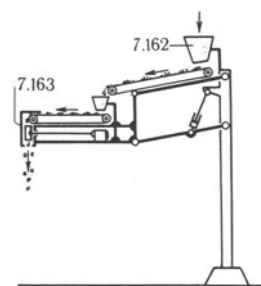
7.160 e sand slinging
d Schleuderverdichtung f

f moulage m par projection du sable

nl zandslingeren n
r пескомётная формовка f
(→ 7.161)

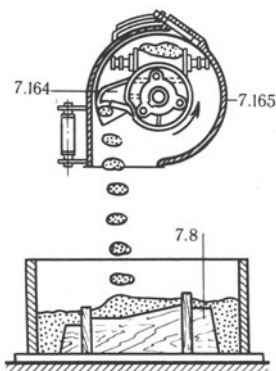
7.161 e sandslinger, slinger moulding machine

d Schleuderformmaschine f, Sandslinger m, Slinger
f machine f à mouler à serrage par projection
nl zandslingermachine f
r пескомёт m



7.162 e hopper
d Einlauftrichter m
f goulotte f de réception
nl vultrechter m, stortrechter
r приёмная воронка f
(→ 7.161)

7.163 e impeller (head)
d Slingerkopf m
f tête f à mouler par projection du sable
nl zandstraalkop m, slingerkop
r метательная головка f

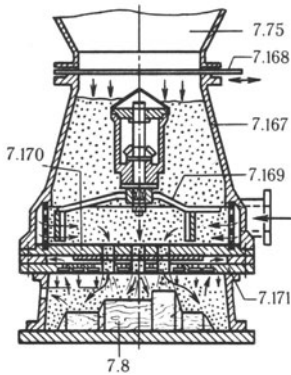


7.164

7.164 e bucket, blade
 d Mithnehmer m, Wurfschau-
 fel f, Schleuderbecher m
 f benne f
 nl schoep f(m)
 r ковш m, лопатка f
 (→ 7.163)

7.165 e hood
 d Haube f
 f chapiteau m, hotte f
 nl kap f(m)
 r кожух m
 (→ 7.163)

7.166 e mould blowing machine,
 blow-ramming moulding
 machine
 d Blasformmaschine f
 f machine f à mouler, ma-
 chine f (pour moulage) à
 souffler
 nl blaasvormmachine f
 r пескодувная (формовоч-
 ная, литейная) машина f



7.167 e sand reservoir
 d Sandbehälter m
 f réservoir m à sable
 nl zandreservoir n
 r резервуар m со смесью
 (→ 7.166)

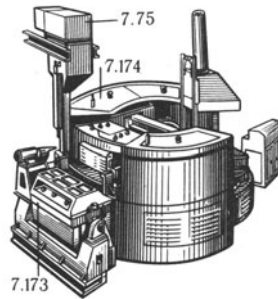
7.168 e gate
 d Absperrschieber m
 f registre m
 nl afsluiter m
 klep f(m), afsluiter m
 r шибер m, заслонка f,
 затвор m
 (→ 7.166)

7.169 e stirrer
 d Rührer m
 f agitateur m
 nl roerinrichting f, roerwerk
 n
 r мешалка f
 (→ 7.166)

7.170 e blow plate
 d Blasplatte f
 f plaque f de soufflage
 nl blaasplaat f(m)
 r надувная [дутьевая]
 плита f
 (→ 7.166)

7.171 e vent-hole plate
 d Entlüftungsplatte f
 f plaque f de ventilation
 nl ontluichtingsplaat f(m)
 r вентиляционная плита f
 (→ 7.166)

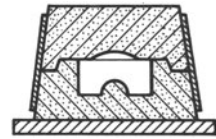
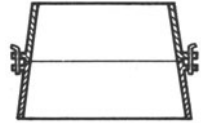
7.172 e shell moulding machine
 d Maskenformmaschine f
 f machine f à moule-carapace
 nl schaalvormmachine f
 r оболочковая формовоч-
 ная (литейная) машина f



7.173 e roll-over hopper
 d Kippgefäß n
 f trémie f tournante
 nl kipbak m
 r опрокидной [поворот-
 ный] бункер m
 (→ 7.172)

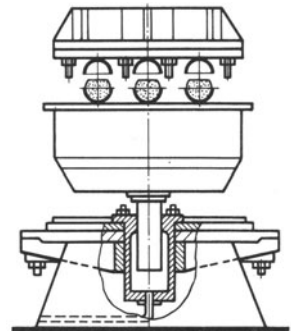
7.174 e shell sintering furnace
 d Masken-Aushärtungs-ofen m
 f four m à fritter d'envelop-
 pes
 nl oven m voor het sin-
 teren van schalen
 r печь f для спекания обо-
 лочек
 (→ 7.172)

7.175 e removable-flask [flask-
 less] moulding
 d kastenloses Formen n
 f moulage m en mottes
 [avec démontage]
 nl kastloos vormen n
 r безопасная формовка f



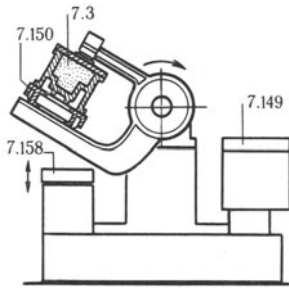
7.176 e core-making machine
 d Kernformmaschine f
 f machine f à noyauter,
 noyauteuse f
 nl kernvormmachine f
 r стержневая литейная
 машина f
 (→ 7.177–7.179, 7.182)

7.177 e squeeze core-making ma-
 chine
 d Press-Kernformmaschine f
 f noyauteuse f par pression,
 machine f à noyauter
 nl perskernmachine f
 r прессовая стержневая
 (литейная) машина f

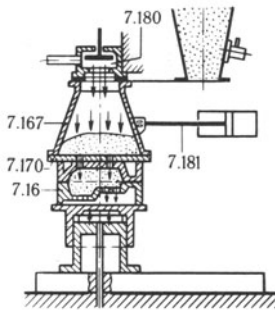


7.178 e jolt core-making machine
 d Rüttel-Kernformmaschine f
 f noyauteuse f par secousse
 nl kerntrilmachine f

г встряхивающая стержневая (литейная) машина f



- 7.179 e core-blowing machine
d Kernblasmaschine f
f machine f à souffler noyaux
nl kernblaasmachine f
г пескодувная стержневая (литейная) машина f

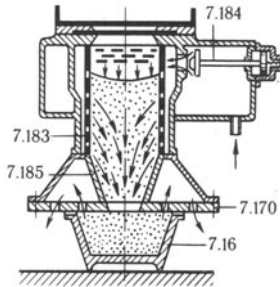


- 7.180 e blow valve
d Blasventil n
f valve f [filtre m] de soufflage
nl blaasklep v (m)
г клапан m дутья
(→ 7.179)

- 7.181 e air pusher
d Druckluftstossvorrichtung f
f pousoir m pneumatique
nl pneumatische trilinrichting f
г пневматический толкатель m
(→ 7.179)

- 7.182 e core-shooting machine
d Kernschiesmaschine f
f machine f à tirer les noyaux
nl kernschietmachine f

г пескострельная стержневая машина f



- 7.183 e slotted sleeve
d Schlitzhülse f
f manchon m à fentes
nl spleetbus f(m), spleethuis f(m)
г щелевая гильза f
(→ 7.182)

- 7.184 e fast-acting valve
d Schnellschaltventil n
f soupape f à fermeture rapide, valve f à action rapide
nl snelsluitklep f(m)
г быстродействующий клапан m
(→ 7.182)

- 7.185 e nozzle
d Düse f
f busette f
nl blaaspip f(m), straalpijp
г насадок m
(→ 7.182)

- 7.186 e drying the cores
d Kerntrocknung f
f séchage m des noyaux
nl drogen n van gietkernen
г сушка f стержней

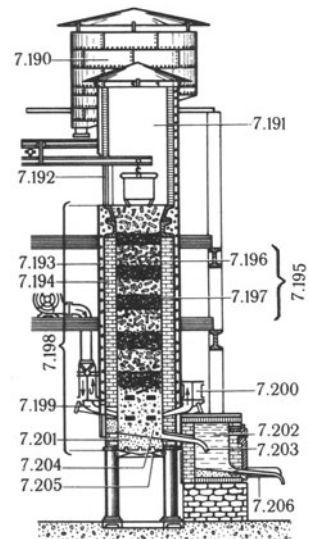


- 7.187 e hot-box core-making machine
d Maschine f zur Kernherstellung in heissen Kernkästen [zur Herstellung von Hot-Box-Kernen]

f machine f à noyauter dans les boîtes chaudes
nl hete-kastkernmachine f
г машина f для изготовления стержней в горячих ящиках

Melting and Pouring Schmelzen und Giessen Fusion et coulée Smelten en gieten Плавка и заливка

- 7.188 e melting
d Schmelzen n
f fusion f
nl smelten n
г плавка f
(→ 7.189, 7.214, 7.217)
- 7.189 e cupola (furnace)
d Kupulofen m
f cubilot m
nl koepeloven m, schachtoven
г вагранка f



- 7.190 e spark arrester
d Funkenkammer f
f extincteur m [souffleur m] d'étincelles, étouffoir m

7.190

- nl vonkenvanger m
r искрогаситель m
(→ 7.189)
- 7.191 e stack
d Kamin m
f cheminée f
nl schoorsteen m
r дымовая труба f
(→ 7.189)
- 7.192 e charging door [hole]
d Beschickungsöffnung f,
Gichtöffnung
f ouverture f [porte f] de
chargement, porte f d'enfour-
nement
nl laaddeur f (m), laadope-
ning f
r загрузочное окно n
(→ 7.189)
- 7.193 e shell
d Mantel m
f enveloppe f annulaire
nl mantel m
r кожух m
(→ 7.189)
- 7.194 e lining
d Auskleidung f, Futter n,
Zustellung f
f revêtement m
nl bekleding f
r футеровка f
(→ 7.189)
- 7.195 e charge
d Ofeneinsatz m
f charge f, chargement m
nl lading f, beschikking f
r колоша f
(→ 7.189)
- 7.196 e iron [metal] charge
d Metalleinsatz m
f charge f métallique
nl ijzerlading f
charge
r металлическая колоша f
(→ 7.189)
- 7.197 e coke charge [split]
d Kokssatz m, Satzkoks m
f charge f de coke
nl cokeslading f
r коксовая колоша f
(→ 7.189)
- 7.198 e cupola body [shaft]
d Ofenschacht m
f cuve f de cubilot
nl ovenschacht f(m)
r шахта f (вагранки)
(→ 7.189)

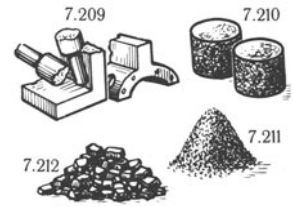
- 7.199 e tuyere
d Blasform f, Winddüse f,
Windform
f tuyère f
nl laasgat n, blaasmond m
r фурма f
(→ 7.189)
- 7.200 e wind [air] box, wind belt
d Windkasten m, Windring m
f boîte f à vent haute
nl windkast f(m)
r воздушная коробка f
(→ 7.189)
- 7.201 e cupola hearth
d Herdsohle f
f sole f (de four de fusion)
nl haard m, bodem m, zool
f(m)
r под m, лешадь f
(→ 7.189)
- 7.202 e forehearth
d Vorherd m
f avant-creuset m
nl voorhaard m
r копильник m
(→ 7.189)
- 7.203 e spout, cupola runner
trough
d Abstichrinne f
f chenal m de coulée
nl tapgoot f(m), gietgoot
r жёлоб m
(→ 7.189)
- 7.204 e coke bed
d Füllkokssäule f, Füllkoks m
f paillasse f de coke
nl cokesbed n
r холостая колоша f кокса
(→ 7.189)
- 7.205 e bottom door
d Bodenklappe f
f porte f de vidange, fond m
ouvrant
nl bodemklep f (m)
r дверца f
(→ 7.189)
- 7.206 e tap hole
d Abstichloch n, Stichloch
f trou m de coulée
nl tapgat n, afsteekgat
r лётка f
(→ 7.189)
- 7.207 e blast
d Gebläseluft f, Gebläse-
wind m
f soufflage m

nl ingeblazen lucht f (m)
r дутьё n



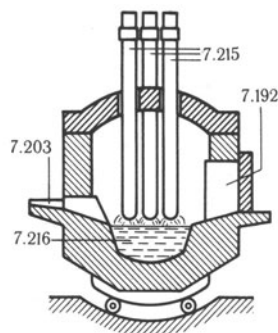
7.207

- 7.208 e burden
d Gattierung f
f lit m de fusion
nl zetting f, lading f
r шихта f



- 7.209 e scrap
d Schrott m
f grenaille f
nl schroot n, schrot n
r лом m
(→ 7.208)
- 7.210 e chip briquette
d Spänebrikkett n
f briquette f de copeaux
nl geperste spaan f (m)
r брикет m из стружки
(→ 7.208)
- 7.211 e ferroalloy
d Ferrolegierung f
f ferro-alliage m
nl ferrolegering f, ijzerle-
gering
r ферросплав m
(→ 7.208)
- 7.212 e coke
d Koks m
f coke m
nl cokes f(m)
r кокс m
(→ 7.208)
- 7.213 e flux
d Zuschlagstoff m
f fondant m, flux m
nl bijslag m
r флюс m

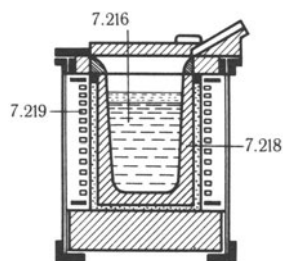
- 7.214 e electric arc furnace
d Lichtbogenofen m
f four m électrique à arc
nl lichtboogoven m
r дуговая печь f



- 7.215 e graphite electrode
d Kohlelektrode f
f électrode f de graphite
nl grafielektrode f
r графитовый электрод m
(→ 7.214)

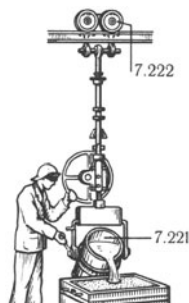
- 7.216 e molten metal
d Schmelze f
f bain m
nl smelt m, gesmolten metaal n
r расплав m
(→ 7.214, 7.216)

- 7.217 e induction furnace
d Induktions(schmelz)ofen m
f four m (électrique) à induction
nl inductie(smelt)oven m
r индукционная печь f



- 7.218 e crucible
d Tiegel m
f creuset m
nl gietkroes m
r тигель m
(→ 7.217)

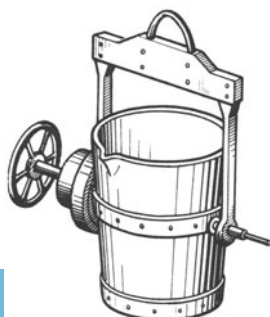
- 7.219 e induction coil
d Induktionsspule f
f inducteur m
nl inductiespoel f (m)
r индуктор m
(→ 7.217)
- 7.220 e pouring, casting
d Giessen n, Abgiessen f
f coulage m, coulée f, moulage m
nl gieten n, storten n
r заливка f, разливка f



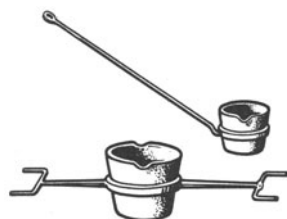
- 7.221 e ladle
d Giesspfanne f
f poche f [cuiller f] de coulée, poche f de fonderie
nl gietpan f(m)
r заливочный [разливочный] ковш m
(→ 7.220)

- 7.222 e ladle handler
d Giessgehänge n
f wagonnet m de coulée
nl gietpanwagen m
r разливочная тележка f
(→ 7.220)

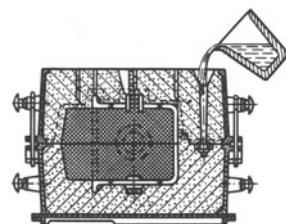
- 7.223 e crane ladle
d Kranpfanne f
f poche f à monorail
nl kraanschenk m, gietpan f (m)
r крановый ковш m



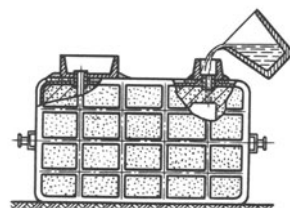
- 7.224 e hand ladle
d Handpfanne f
f poche f de coulée manuelle
nl handpan f (m), eenmanspan
r ручной ковш m



- 7.225 e horizontal casting
d liegende Giessweise f
f coulée f horizontale
nl liggend gieten n
r горизонтальная заливка f

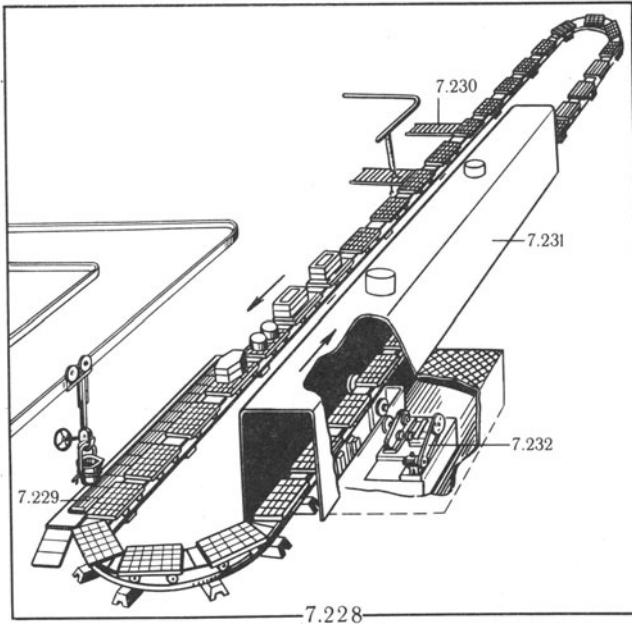


- 7.226 e vertical casting
d stehende Giessweise f
f coulée f verticale
nl staand gieten n
r вертикальная заливка f



- 7.227 e pouring in a conveyor
d Abgiessen n in der mechanisierten Formanlage
f coulée f par convoyeur
nl gieten n op een transporteur
r заливка f на конвейере
(→ 7.228)

- 7.228 e foundry conveyor
d mechanisierte Form- und Giessanlage f
f convoyeur m de fonderie
nl giettransporteur m
r литейный конвейер m



7.229 e moving platform (for pouring)
 d Giess-Fahrbühne f
 f plate-forme f mobile à coulée
 nl rollend gietplatform n
 r заливочная движущая платформа
 (→ 7.228)

7.230 e assembly roller conveyor
 d Formzulegen-Rollbahn f
 f transporteur m à rouleaux d'assemblage
 nl montagerolbaan f(m)
 r сборочный рольганг m
 (→ 7.228)

7.231 e cooling zone (of the conveyor)
 d Kühlstrecke f
 f brin m de convoyeur de réfrigérant
 nl koeltraject n
 r охлаждательная ветвь f (конвейера)
 (→ 7.228)

7.232 e power-drive station
 d Antriebsstation f

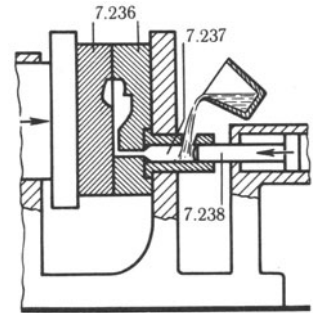
f station f motrice, groupe m d'entraînement
 nl aandrijfstation n
 r приводная станция f
 (→ 7.228)

7.233 e pressure die casting
 d Druckgiessen n
 f coulée f sous pression, moulage m par injection
 nl spuitgieten n, persgieten
 r литьё n под давлением
 (→ 7.235, 7.239)

7.234 e die-casting machine
 d Druckgiessmaschine f
 f machine f à coulée sous pression
 nl spuitgietmachine f
 r машина f для литья под давлением
 (→ 7.235, 7.239)

7.235 e cold-chamber die-casting machine
 d Kaltkammer-Druckgiessmaschine f
 f machine f à coulée sous pression à chambre froide

nl spuitgietmachine f met koud portaal [met koude kamer]
 r машина f для литья под давлением с холодной камерой



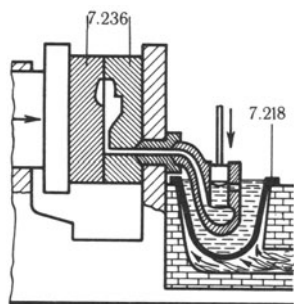
7.236 e die
 d Druckgiessform f
 f moule m à pression
 nl spuitgietvorm m
 r прессформа f
 (→ 7.235)

7.237 e pressure chamber
 d Druckkammer f
 f chambre f de passage [d'injection]
 nl drukkamer m kamer
 r камера f прессования [сжатия]
 (→ 7.235)

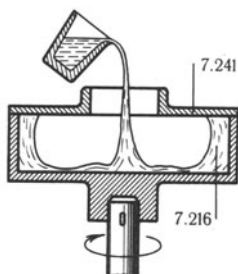
7.238 e plunger
 d Kolben m
 f piston m d'injection
 nl plunjer m
 r пуансон m, плунжер
 (→ 7.235)

7.239 e hot-chamber die casting machine
 d Warmkammer-Druckgiessmaschine f
 f machine f à coulée sous pression à chambre chaude
 nl spuitgietmachine f met warm portaal

г машина f для литья под давлением с горячей камерой



7.240 e centrifugal casting
d Schleuderguss m
f coulée f centrifuge
nl centrifugaalgieten n
г центробежное литьё n

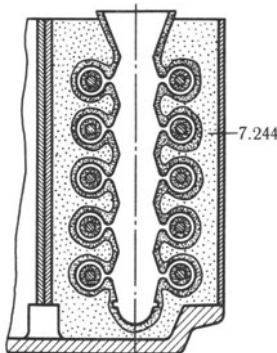


7.241 e rotating mould
d Schleudergussform f
f coquille f de centrifugation
nl gietvorm m voor centrifugaal gieten
г центробежная изложница f
(→ 7.240)

7.242 e investment [lost-wax] casting
d Modellausschmelzverfahren n, Feingiessverfahren, Wachs-ausschmelzverfahren
f fonderie f à cire perdue
nl precisiegietwerk n, gieten n volgens de verloren-wasmethode
г литьё n по выплавляемым моделям
(→ 7.243)

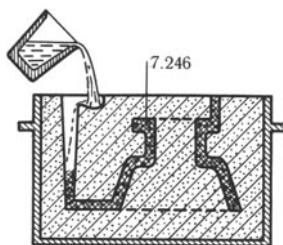
7.243 e investment mould
d Feingiessform f
f moule m à fonderie à cire perdue

nl vorm m voor het gieten naar verloren modellen
г форма f для литья по выплавляемым моделям



7.244 e refractory backing material
d feuerfeste Masse f
f matière f de remplissage réfractaire
nl vuurvast vulmiddel n
г огнеупорный наполнитель m
(→ 7.243)

7.245 e burnt-pattern [full-mould] casting
d Vollformgiessverfahren n
f coulée f en moules perdus
nl holteloos gieten n
г литьё n по выжигаемым [газифицируемым] моделям

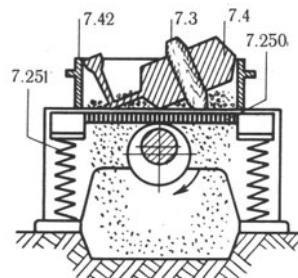


7.246 e polystyrene pattern
d Polystyrolmodell n
f moule m à polystyrène
nl polystyreenmodel n
г модель f из полистирола
(→ 7.245)

7.247 e knock-out, shake-out
d Ausleeren n, Ausschlagen n
f décochage m
nl uitbreken n (van gietstukken)
г выбивка f отливок
(→ 7.249, 7.252)

7.248 e knock-out [shake-out] machine
d Ausleermaschine f
f décocheuse f, machine f de décochage [des pièces coulées]
nl uitbreekmachine f, uitschudmachine
г выбивная литейная машина f
(→ 7.249, 7.252)

7.249 e eccentric knock-out grid
d Exzenter-Ausleerrost m
f grille f excentrique de décochage
nl uitschudmachine f met excentriek
г эксцентриковая выбивная решётка f

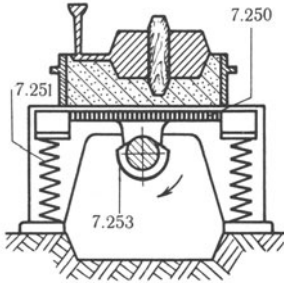


7.250 e grid
d Rost m
f grille f
nl rooster m, n
г решётка f
(→ 7.249)

7.251 e resilient bumper
d elastische Unterlage f
f amortisseur m, appui m en ressort
nl afgeveerde ondersteuning f
г амортизатор m, пружинная опора f
(→ 7.249, 7.252)

7.252

- 7.252 e inertia-type knock-out grid
 d Trägheits-Ausleerrost m
 f grille f d'inertie de déco-
 chage
 nl traagheidschudrooster
 m, o
 r инерционная выбивная
 решётка f



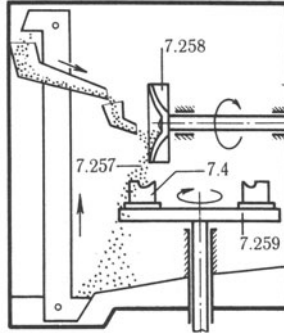
- 7.253 e unbalanced weight
 d unausgeglichenes Gewicht n
 f charge f non équilibré
 nl ongebalanceerd gewicht n
 r неуравновешенный груз m
 (→ 7.252)

- 7.254 e cleaning of castings
 d Gussputzen n, Putzen
 f ébarbage m
 nl schoonmaken n [afwer-
 ken n] van gietstukken
 r очистка f отливок
 (→ 7.256, 7.260, 7.265)

- 7.255 e cleaning machine, sand-
 blasting apparatus
 d Gussputzmaschine f, Putz-
 maschine
 f dessableuse f
 nl poetsinstallatie f
 r очистная машина f
 (→ 7.256, 7.260, 7.265)

- 7.256 e turbine shot-blasting machine
 d Schleuderstrahlmaschine f
 f cabine f de grenailage
 nl kogelinstallatie f

- r дробемётная очистная
 машина f [установка f]

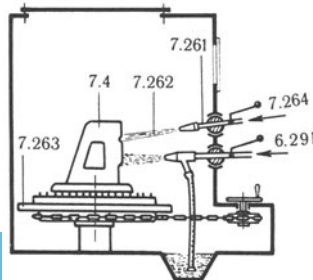


- 7.257 e shot
 d Strahlmittel n, Schrot m
 f grenaille f
 nl hagel m
 r дробь f
 (→ 7.256)

- 7.258 e vane wheel
 d Schleuderrad n
 f roue f à palettes
 nl schoepenwiel n
 r лопастное колесо n
 (→ 7.256)

- 7.259 e rotary table
 d Drehtisch m
 f table f rotative, manège m
 nl draaischijf f (m)
 r вращающийся стол m
 (→ 7.256)

- 7.260 e hydroblast room
 d Nassputzkammer f,
 Nassputzhaus n
 f chambre f de sablage
 nl waterstraalpoetscabine f
 r гидропескоструйная
 очистная камера f



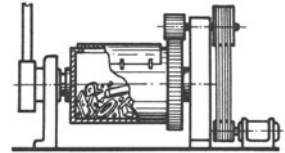
- 7.261 e hydraulic gun
 d Strahldüse f
 f monitor m hydraulique,
 lance f à eau
 nl waterspuit f (m)
 r гидромонитор m
 (→ 7.260)

- 7.262 e jet
 d Strahl m
 f jet m
 nl (water)straal m, f
 r струя f
 (→ 7.260)

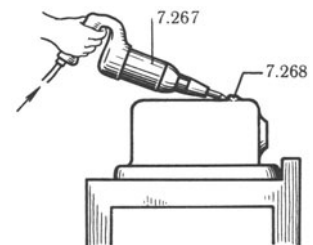
- 7.263 e turn-table
 d Drehtisch m
 f table f rotative
 nl draaitafel f (m)
 r поворотный стол m
 (→ 7.260)

- 7.264 e water
 d Wasser n
 f eau f
 nl water n
 r вода f
 (→ 7.260)

- 7.265 e tumbling barrel
 d Gussputztrommel f
 f tambour m de nettooyage
 nl polijsttrommel f (m), rom-
 meltrommel
 r очистной барабан m



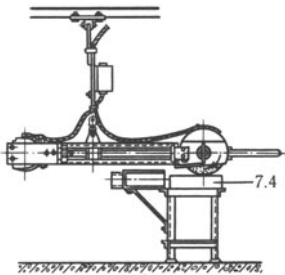
- 7.266 e fettling, chipping
 d Fertigtputzen n
 f ébarbage m
 nl afbramen n van gietstuk-
 ken
 r обрубка f отливок



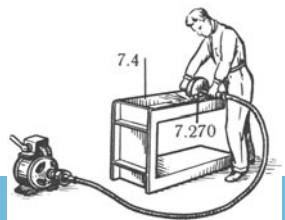
- 7.267 e air chipper
 d Druckluft(meissel)hammer m
 f burin m pneumatique [à air comprimé]
 nl persluchtbeitel m
 r пневматическое зубило n
 (→ 7.266)

- 7.268 e fin, flash
 d Grat m, Giessgrat, Gussgrat
 f barbe f, bavure f de joint
 nl braam, gietnaad m
 r грат m
 (→ 7.266)

- 7.269 e swing-frame grinder
 d Pendelschleifmaschine f
 f rectifieuse f suspendue à balancier
 nl ophangpendelslijpmachine f
 r подвесной маятниковый шлифовальный станок m



- 7.270 e portable grinder
 d Handschleifmaschine f
 f meuleuse f à main
 nl handslijpmachine f
 r ручная шлифовальная машина f



Foundry Defects

Gussfehler

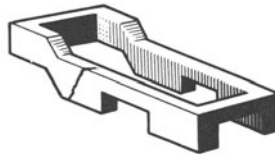
Anomalies de fonderie

Gietfouten

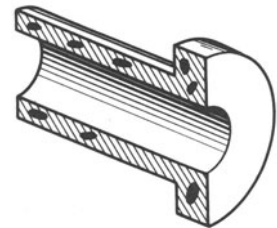
Дефекты отливок

- 7.271 e foundry [casting] defect
 d Gussfehler m
 f défaut m de fonderie
 nl gietfout f(m)
 r дефект m отливки
 (→ 7.272, 7.275, 7.277 – 7.286)

- 7.272 e crack
 d Bruch m, Riss m
 f fissure f, cassure f
 nl scheur f(m)
 r трещина f

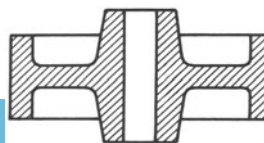


- 7.273 e hot crack [tear]
 d Warmbruch m, Warmriss m
 f fissure f [cassure f] à chaud
 nl warmscheur f (m)
 r горячая трещина f
 (→ 7.272)

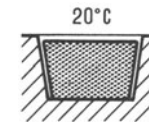
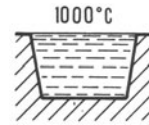


- 7.274 e cold crack [breakage]
 d Kaltbruch m, Kaltriss m
 f fissure f [cassure f] à froid
 nl koudscheur f(m)
 r холодная трещина f
 (→ 7.272)

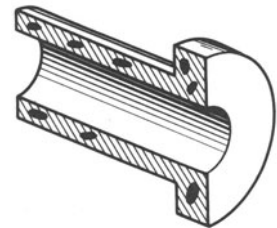
- 7.275 e draw
 d Lunker m
 f retassure f, cavité f de retrait
 nl slinkholte f
 r усадочная раковина f



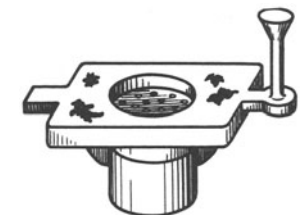
- 7.276 e shrinkage
 d Schrumpfung f, Schwindung f
 f retrait m
 nl krimp m
 r усадка f



- 7.277 e blow hole, pinhole
 d Blase f, Gasblase
 f soufflure f
 nl gasblaas f(m)
 r газовая раковина f



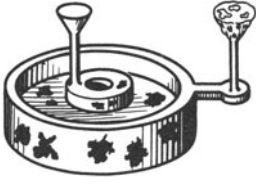
- 7.278 e sand inclusion
 d Sandeinschluss m
 f soufflure f sableuse, inclusion f de sable
 nl zandinsluiting f
 r песчаная раковина f



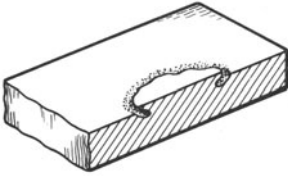
- 7.279 e seag blowhole, scum
 d Schaumstelle f, Schlackenblase f, Schlackenleck m
 f soufflure f de scorie

7.279

nl slakinsluiting f
r шлаковая раковина f



7.280 e rattail
d Rattenschwanz m, Schliere f
f ver m, gale f franche
nl rattestaart m
r ужимина f



7.281 e swell, ram-off
d Treibstelle f
f forçage m, fausse variation f
nl brats
r подутьость f



7.282 e porosity
d Porosität f
f porosité f
nl porositeit f
r пористость f

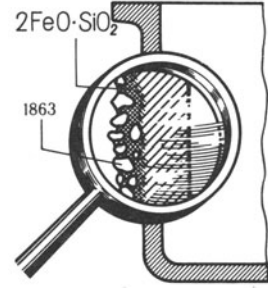


7.283 e joint flash [fin]
d Kerngrat m, Bart m
f bavure f de joint, barbe f
nl scheidingsbraam f(m)
r залив m

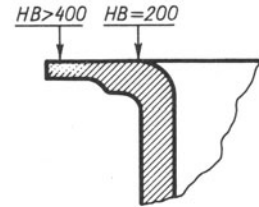


7.284 e burn on
d angebrannter Sand m
f grippure f

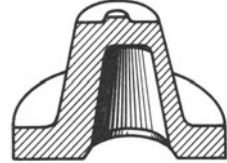
nl aangebrande zandkorst f(m)
r пригар m



7.285 e primary chill
d Weisseinstrahlung f, weisserstarrte Zone f
f trempe f
nl witte schil f(m)
r отбел m



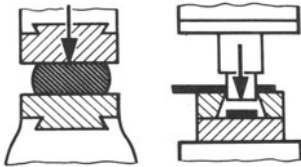
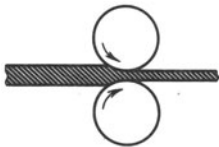
7.286 e core shift
d Kernversatz m
f désalignement m de noyau, variation f de noyau
nl verschoven kern f(m)
r перекоc m стержня



**8. MECHANICAL WORKING
UMFORMTECHNIK
TRAVAIL PAR DÉFORMATION
VERVORMENDE BEWERKING
ОБРАБОТКА ДАВЛЕНИЕМ**

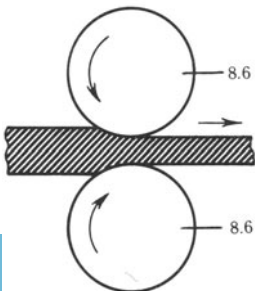
**Rolling
Walzen
Laminage
Walsen
Прокатка**

8.1 e mechanical working
d Umformen n, Umformtechnik f
f travail m par déformation
nl vervormende bewerking f
r обработка f давлением

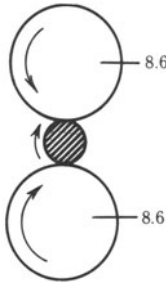


8.2 e rolling
d Walzen n
f laminage m
nl walsen n
r прокатка f
(→ 8.3 – 8.5)

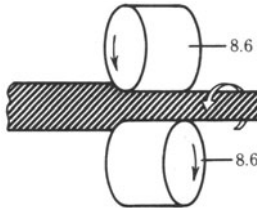
8.3 e longitudinal rolling
d Längswalzen n
f laminage m longitudinal
nl langswalsen n
r продольная прокатка f



8.4 e transverse rolling
d Querwalzen n
f laminage m transversal
nl dwarswalsen n
r поперечная прокатка f



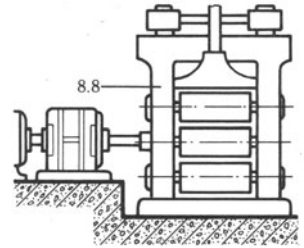
8.5 e oblique rolling
d Schrägwalzen n
f laminage m transversal à vis
nl overhoeks walsen n
r поперечно-винтовая прокатка f



8.6 e roll
d Walze f
f cylindre m de laminage, calandre f
nl walsrol f(m), rol f(m)
r прокатный валок m
(→ 8.3 – 8.5)

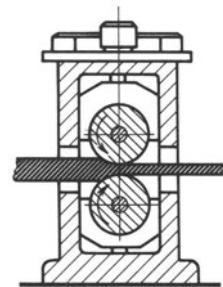
8.7 e rolling mill
d Walzwerk n
f laminoir m

nl wals f(m), walserij f
r прокатный стан m



8.8 e (rolling mill) stand
d Walzgerüst n
f cage f de laminoir
nl walstuig n
r клеть f (прокатного стана)
(→ 8.7)

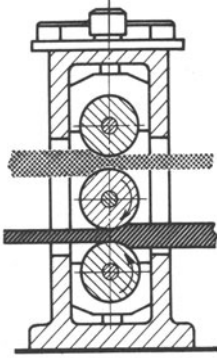
8.9 e two-high stand
d Duo(walz)gerüst n
f cage f à deux cylindres, cage duo
nl duowalstuig n
r двухвалковая клеть f, клеть дуо



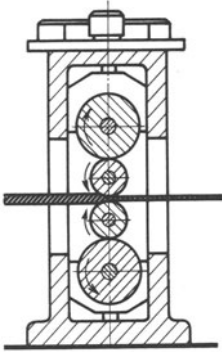
8.10 e three-high stand
d Trio(walz)gerüst n
f cage f à trois cylindres, cage trio
nl triowalstuig n

8.10

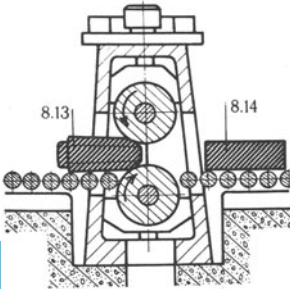
г трёхвалковая кость f,
ксть трио



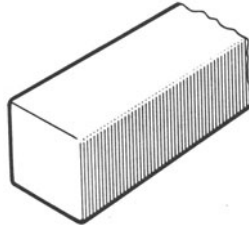
8.11 e four-high stand
d Quarto(walz)gerüst n
f cage f à quatre cylindres,
cage quarto
nl quartowalstuig n
г четырёхвалковая кость f,
ксть кварто



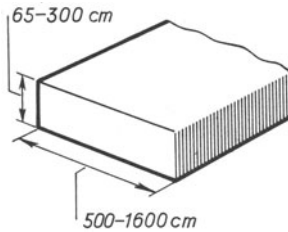
8.12 e primary mill
d Blockwalzwerk n
f laminoir m à lingots
nl blokwalstuig n
г обжимный стан m



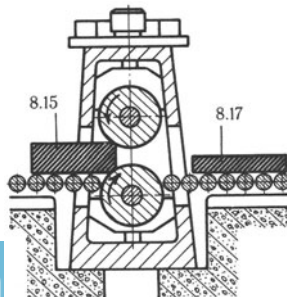
8.13 e ingot
d Rohblock m
f lingot m
nl gietblok n
г слиток m
(→ 8.12)
8.14 e bloom, cog, cogged ingot
d Vorblock m
f bloom m
nl voorgewalst blok n,
bloom
г блум m, блум m



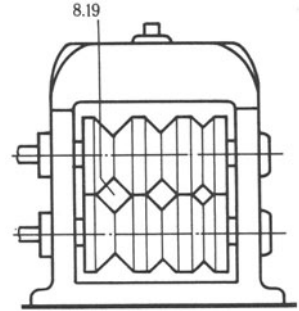
8.15 e slab
d Vorbramme f
f brame f, slab m
nl staalplak f (m), bram
г сляб m



8.16 e billet mill
d Knüppelwalzwerk n
f laminoir m ébaucheur [à bil-
lettes]
nl knuppelwals f (m)
г заготовочный стан m

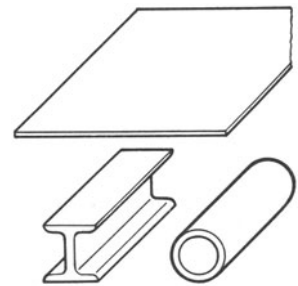


8.17 e billet
d Knüppel m
f billette f, ébauche f
nl knuppel m
r заготовка f
(→ 8.16)
8.18 e section [shape] (rolling)
mill
d Profilwalzwerk n
f laminoir m à profiles [à bar-
res]
nl profielwalstuig n
r сортовой стан m



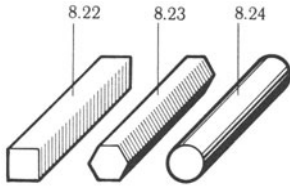
8.19 e (roll-)pass, roll opening
d Kaliber n, Stich m
f gravure f de laminoir
nl walskaliber n
г калибр m
(→ 8.18)

8.20 e rolled stock
d Walzgut n
f produit m de laminage
nl walsgoed n, gewalst werk n
r прокат m



8.21 e bar
d Stab m, Stange f
f barre f

nl staaf f (m), staf m
r пруток m



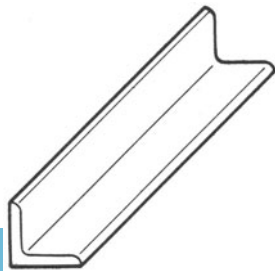
8.22 e square bar
d Vierkantstab m, Vierkant-
stange f
f barre f carrée
nl kwadrantijzer n, vierkan-
te staaf f (m)
r квадратный пруток m
(→ 8.21)

8.23 e hexagon(al) bar
d Sechskantstab m, Sechskant-
stange f
f barre f hexagonale
nl zeskantstaaf f(m)
r шестигранный пруток m
(→ 8.21)

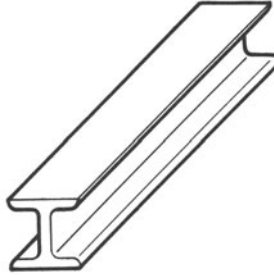
8.24 e round bar, rod
d Rundstange f
f barre f ronde
nl rondijzer n, rondstaal n
r круглый пруток m
(→ 8.21)

8.25 e shaped section, structural
shape
d Formstahl m
f profil m de forme
nl profielstaal n
r фасонный профиль m
(→ 8.26 – 8.30)

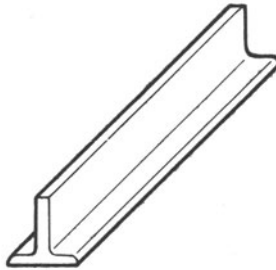
8.26 e angle iron [bar]
d Winkelstahl m
f acier m en L, profilé m
cornière
nl hoekijzer n
r угловой (стальной) про-
филь m, уголок m



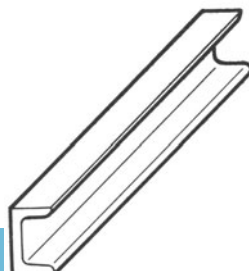
8.27 e I-(beam)girder, joist
d I-Träger m, I-Stahl m
f profilé m en double T
nl dubbele T-balk n, balk-
ijzer n
r двутавровый профиль m,
двутавр m



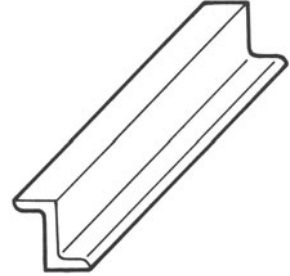
8.28 e tee beam [bar], T-beam
[bar]
d T-Stahl m
f acier m [profilé m] en T
nl T-balk m
r тавровый профиль m;
тавр m



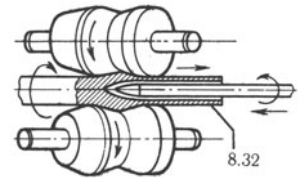
8.29 e channel
d U-Profil n
f profilé m en U
nl U-balk m
r швеллерный профиль m,
швеллер m



8.30 e zee beam
d Z-Profil n
f profilé m en Z
nl Z-balk m
r зетовый профиль m

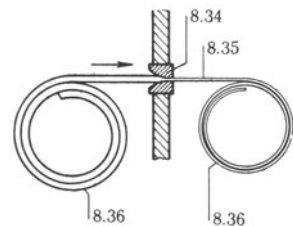


8.31 e tube-rolling mill
d Rohrwalzwerk n
f laminoir m à tubes
nl pijpvals f (m)
r трубопрокатный стан n



8.32 e seamless pipe
d nahtloos Rohr n
f tube m sans soudure
nl naadloze buis f(m)
r бесшовная труба f
(→ 8.31)

8.33 e drawing mill
d Ziehbank f
f train m de tréfilage
nl trekbank f(m)
r волочильный стан m

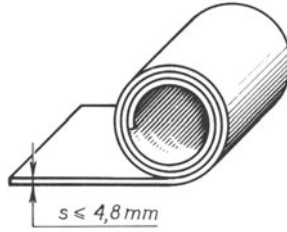


8.34 e drawing die
d Ziehstein m, Ziehring m
f filière f
nl trekplaat f(m), trekijzer n
r волока f, фильера f
(→ 8.33)

8.35

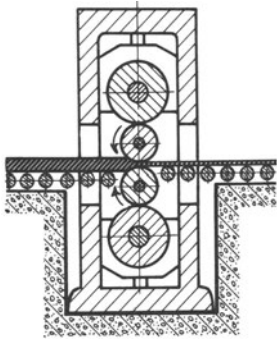
- 8.35 e wire
 d Draht m
 f fil m
 nl draad m
 r проволока f
 (→ 8.33)

- nl plaat f(m)
 r лист m

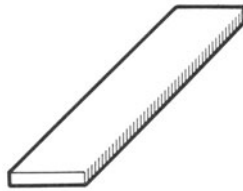


- 8.36 e coil
 d Drahtbund m
 f botte f (de fil)
 nl rol f (m)
 r моток m, бунт m
 (→ 8.33)

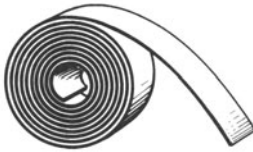
- 8.37 e sheet (rolling mill)
 d Blechwalzwerk n
 f laminoir m à tôles
 nl plaatwals f (m), plaatwalserij f
 r листовой [листопрокатный] стан m



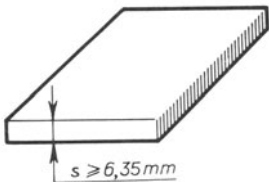
- 8.40 e strip
 d (breites) Band n
 f feuillard m
 nl strook f (m), strip m
 r полоса f



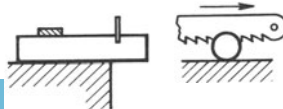
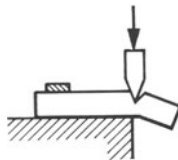
- 8.41 e band
 d Band n
 f bande f
 nl band m
 r лента f



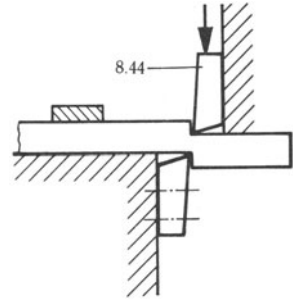
- 8.38 e plate
 d Grobblech n
 f plateau m
 nl dikke plaat m, ketelplaat
 r плита f



- 8.42 e cutting-off
 d Trennen n, Zerteilen n
 f tranchage m, tronçonnage m
 nl snijden n, afkorten n
 r (от) резка f



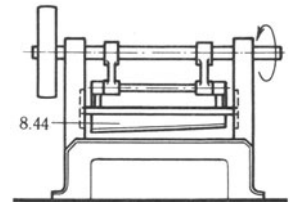
- 8.43 e shearing, cropping
 d Scherschneiden n, Abschneiden n
 f cisailage m, tranchage m à cisaille
 nl knippen n
 r отрезка f на ножницах



- 8.44 e blade, knife
 d Schermesser n, Messer
 f lame f, couteau m
 nl blad n, mes n
 r нож m
 (→ 8.43, 8.46)

- 8.45 e shear, shearing machine
 d Schere f
 f cisaille f
 nl schaar f (m), machineschaar
 r ножницы pl
 (→ 8.46 – 8.49)

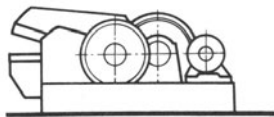
- 8.46 e squaring [resquaring, gate, guillotine] shear
 d Tafelschere f, Rahmenschere
 f cisaille f à guillotine
 nl guillotineschaar f(m)
 r гильотинные ножницы pl



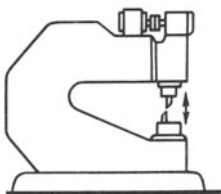
- 8.39 e sheet
 d Blech n
 f tôle f

- 47 e alligator shear
 d Hebelschere f, Alligatorschere
 f cisaille f à levier
 nl hefboomschaar f(m)

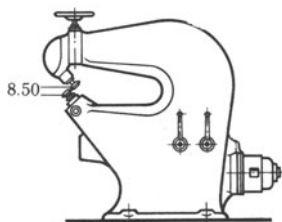
r рычажные [аллигаторные]
ножницы pl



8.48 e notching shear
d Aushauschere f, Knabberschere
f cisaille f à poinçonner
nl knabbelschaar f(m)
r высечные ножницы pl



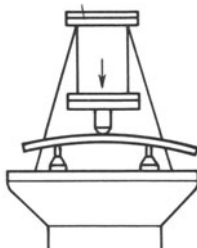
8.49 e rotary shear
d Kreismesserschere f, rotierende Schere
f cisaille f circulaire [à disques]
nl rollenschaar f(m), rondsnijmachine f
r дисковые ножницы pl



8.50 e circular [rotary] cutter,
circular knife
d Kreismesser n, Rollenmesser
f couteau m circulaire
nl rondsniemes n
r дисковый нож m
(→ 8.49)

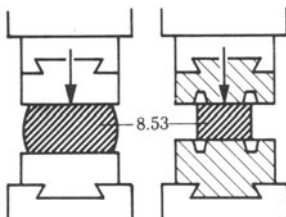
8.51 e straightening
d Richten n
f dressage m, planage m

nl richten n
r правка f



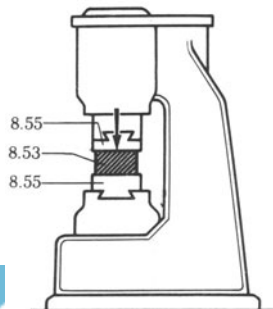
Forging Schmieden Forgeage Smeden Ковка

8.52 e forging
d Schmieden n
f forgeage m
nl smeden n
r ковка f

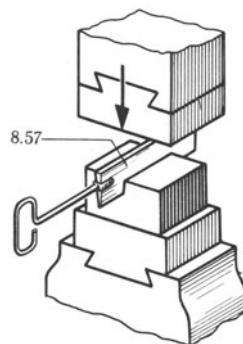


8.53 e forged part, forging
d Schmiedestück n
f pièce f forgée
nl smeedstuk n
r поковка f
(→ 8.52)

8.54 e flat-die [smith] forging
d Freiformschmieden n
f martelage m

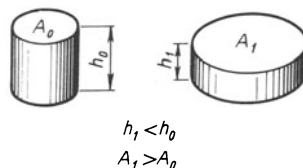
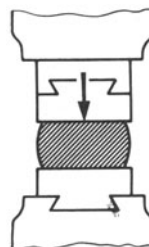


nl hamersmeden n
r свободная ковка f
8.55 e flat die
d Flachsattel m
f panne f du marteau, percuteur m
nl hamerkop m
r боёк m
(→ 8.54)
8.56 e chopping
d Abhauen n
f ébarbage m
nl hakken n
r отрубка f



8.57 e smith's chisel
d Hau-eisen n
f hache f de forge
nl smidsbeitel m
r кузнечный топор m
(→ 8.56)

8.58 e setting
d (axiales) Stauchen n
f tassement m
nl stuiken n
r осадка f



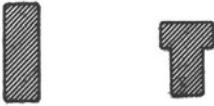
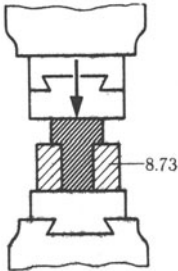
8.59

- 8.59 e setting ratio
 d Stauchverhältnis n
 f coefficient m de forgeage
 nl stuikverhouding f
 r уковка f

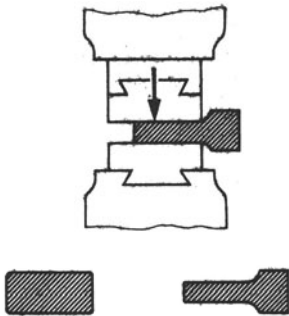
$$K = \frac{A_0}{A_1}$$

(→ 8.58)

- 8.60 e upsetting
 d Anstauchen n
 f refoulement m
 nl stuiking n
 r высадка f

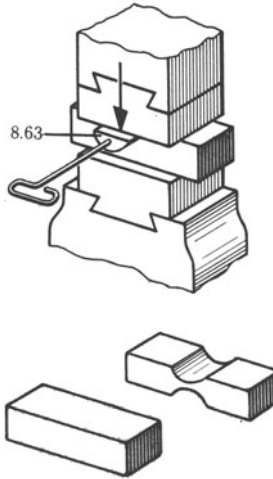


- 8.61 e drawing out
 d Recken n
 f hauban m
 nl rekken n
 r оттяжка f



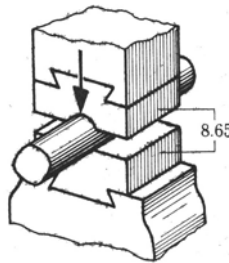
- 8.62 e necking
 d Einkehlen n
 f corroyage m

- nl inhalsen n
 r прожимка f



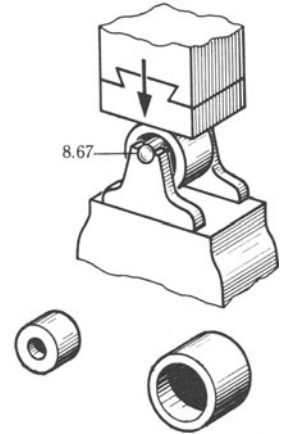
- 8.63 e fuller
 d Kehleisen n
 f chasse f
 nl vulijzer n
 r раскатка f
 (→ 8.62)

- 8.64 e rolling, gathering
 d Rollen n
 f galetage m
 nl rollen n, gladrollen
 r обкатка f



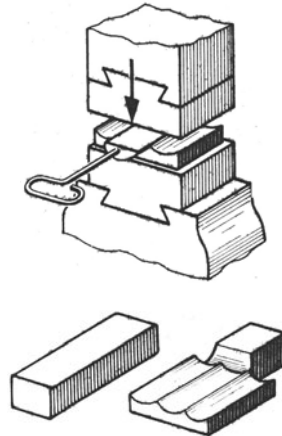
- 8.65 e rolling-impression die
 d Spitzsattel m
 f percuteur m d'ébavurage
 nl uitsnijhamer m
 r вырезной боёк m
 (→ 8.64)

- 8.66 e ring rolling
 d Auswalzen n
 f laminage m
 nl ringwalsen n
 r раскатка f



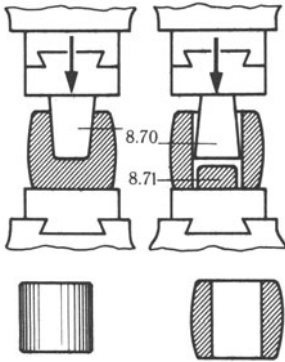
- 8.67 e mandrel
 d Dorn m
 f mandrin m
 nl doorn m
 r оправка f
 (→ 8.66)

- 8.68 e flattening, plating
 d Breiten n
 f écrasement m, forgeage m
 en largeur, aplatissage m
 nl pletten n, vlakstampen n
 r разгонка f

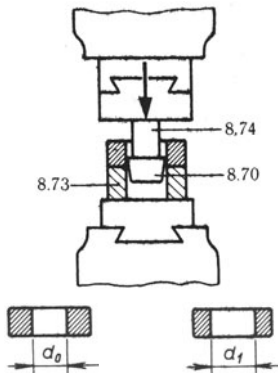


- 8.69 e piercing
 d Dornen n, Lochen n
 f ajourage m par l'embou-
 tissage, débouchage m, poin-
 çonnage m

nl gatstampen n
r прошивка f



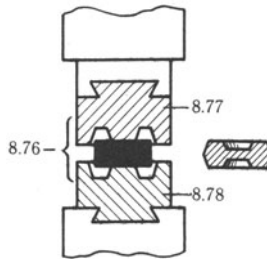
- 8.70 e piercing punch
d Dorn m
f poinçon m d'ajourage
nl gat(snij)stempel m
r прошивень m
(→ 8.69)
- 8.71 e slug
d Abfall m
f scrap m, déchets m pl
nl ponsdop m
r "выдра" f, отходы m pl
металла
(→ 8.69)
- 8.72 e hole expansion
d Erweitern n
f expansion f
nl opruimen n
r задача f



8.73 e bottom spacing ring
d Unterleg(e)ring m
f bague f d'assise

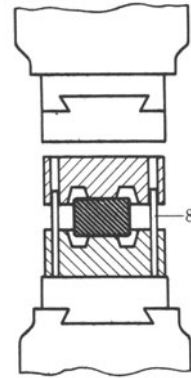
nl onderlegging m
r подкладное кольцо m
(→ 8.60, 8.72)

- 8.74 e extension piece
d Aufsatzstück n
f rallonge f
nl opzetstuk n
r надставка f
(→ 8.72)
- 8.75 e die [drop] forging
d Gesenkschmieden n
f étampage m
nl matrijssmeden n, smeden
in matrijzen
r объёмная штамповка f



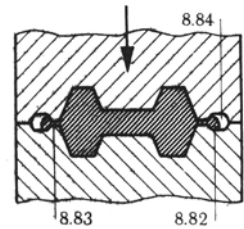
- 8.76 e forging die
d Gesenk n
f matrice f
nl smeedmatrijs f (m)
r объёмный [ковочный]
штамп m
(→ 8.75)
- 8.77 e upper die, punch
d Obergesenk n
f étampe f supérieure,
poinçon m
nl bovenstempel m, pers-
blok n
r верхняя половина f штам-
па, пуансон m
(→ 8.75)
- 8.78 e lower [female] die
d Untergesenk n
f étampe f inférieure, ma-
trice f
nl onderstempel m
r нижняя половина f штам-
па, матрица f
(→ 8.75)
- 8.79 e self-aligning die
d selbststellendes Gesenk n
f étampe f auto-ajustable
nl zelfrichtend stempel m

r самоустанавливающийся
штамп m



- 8.80 e guide pin
d Führungsstift m
f goujon m de guidage
nl leipen f(m), leistift f(m)
r направляющий штифт m
(→ 8.79)

- 8.81 e open die
d offenes Gesenk n
f étampe f ouverte
nl open matrijs f(m)
r открытый штамп m

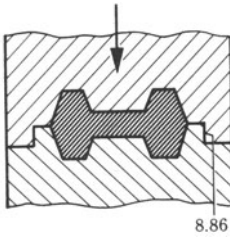


- 8.82 e flash, burr, fin
d Grat m
f bavure f
nl braam f(m), vin f(m)
r облой m, заусенец m
(→ 8.81)
- 8.83 e flash land
d Gratbahn f
f cordon m de bavure
nl braambaan f(m)
r мостик m (облойной ка-
навки)
(→ 8.81)

8.84

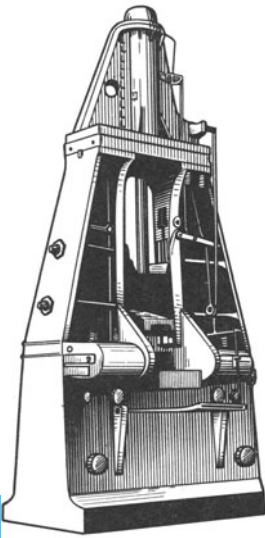
- 8.84 e flash gutter
 d Gratmagazin n
 f logement m de bavure
 nl braamgroef f(m)
 r облойная [заусенечная] канавка f
 (→ 8.81)

- 8.85 e closed die
 d geschlossenes Gesenk n
 f étampe f fermée
 nl gesloten matrijs f(m)
 r закрытый [безоблойный] штамп m

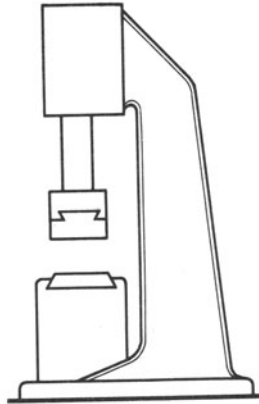


- 8.86 e counterlock
 d Führung f
 f verrou m d'étampe
 nl geleiding f
 r замок m штампа
 (→ 8.85)

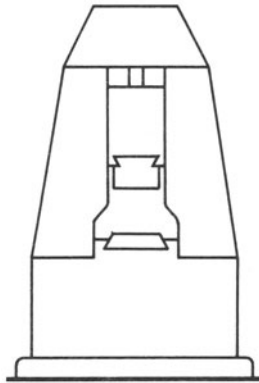
- 8.87 e power hammer
 d Schmiedehammer m
 f marteau m
 nl (mechanische) smeedhamer m
 r штамповочный молот m



- 8.88 e single-frame hammer
 d Einständerhammer m
 f marteau m à simple jambage
 nl eenkolomshamer m
 r одностоечный молот m

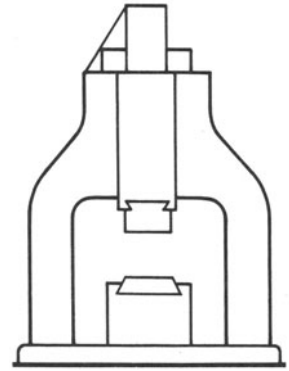


- 8.89 e double-frame hammer
 d Zweiständerhammer m
 f marteau m à double jambage
 nl tweekolomshamer m
 r двухстоечный молот m



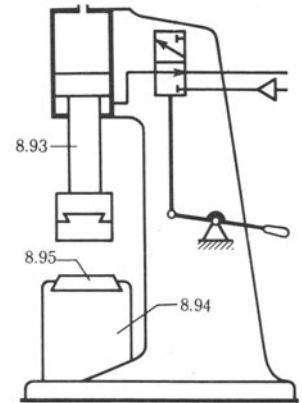
- 8.90 e arch hammer
 d Portalhammer m
 f marteau m à portail

- nl portaalhamer m
 r арочный молот m



- 8.91 e steam hammer
 d Dampfhammer m
 f marteau-pilon m à vapeur
 nl stoomhamer m
 r паровой молот m
 (→ 8.92, 8.96)

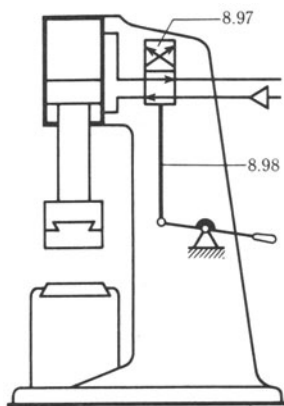
- 8.92 e drop [single-acting] hammer
 d Fallhammer m
 f mouton m, marteau-pilon m (à chute)
 nl valhamer m
 r молот m простого действия, падающий молот



- 8.93 e ram (of hammer)
 d Bär m
 f masse f du marteau [frappante]
 nl beer m, valgewicht n
 r баба f (молота)
 (→ 8.92)

- 8.94 e anvil (block)
 d Schabotte f
 f chabotte f
 nl aanbeeldblok n
 r шабот м
 (→ 8.92)
- 8.95 e die holder, sow block, anvil cap, bolster
 d Gesenkhalter m, Schabotte-Einsatz m
 f porte-matrice m, semelle f d'étampe
 nl matrijshouder m
 r штамподержатель м, подштамповая плита f [подушка f]
 (→ 8.92)

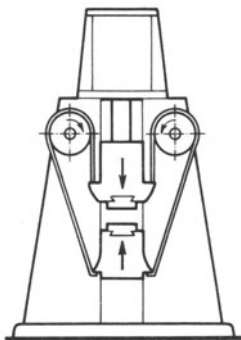
- 8.96 e double-acting hammer
 d Oberdruckhammer m
 f marteau m à double effet
 nl dubbelwerkende hamer m
 r молот м двойного действия



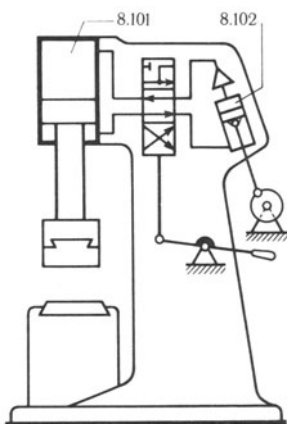
- 8.97 e valve box
 d Ventilkasten m
 f boîte f de valve
 nl klep(pen)huis n, klepkast f(m)
 r золотниковая коробка f
 (→ 8.92, 8.96)
- 8.98 e trip rod
 d Schaltstange f
 f tige f de commutation
 nl schakelstang f(m)
 r тяга f переключения
 (→ 8.96)

- 8.99 e counterblow hammer
 d Gegenschlaghammer m

- f marteau-pilon m à contre-frappe
 nl tegenslaghamer m
 r бесшаботный молот м

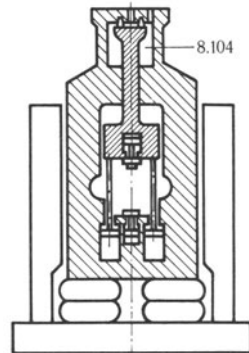


- 8.100 e pneumatic [air] hammer
 d Lufthammer m
 f marteau-pilon m pneumatique
 nl (pers)luchthamer m
 r пневматический молот м

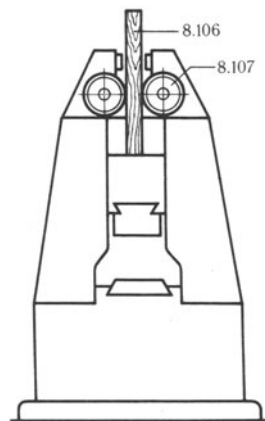


- 8.101 e working cylinder
 d Bärzylinder m
 f cylindre m de commande
 nl werkcilinder m, f
 r рабочий цилиндр м
 (→ 8.100)
- 8.102 e compressor cylinder
 d Verdrängerzylinder m
 f cylindre m de compression
 nl compressorcilinder m, f
 r компрессорный цилиндр м
 (→ 8.100)

- 8.103 e high-energy-rate forging machine, HERF-machine, high-velocity forming machine, HVF-machine
 d Hochgeschwindigkeitshammer m
 f marteau-pilon m à contre-frappe de grande vitesse
 nl snelslaghamer m
 r высокоскоростной бесшаботный молот м



- 8.104 e high-pressure gas chamber
 d Hochdruckgaskammer f
 f cylindre m à haute pression
 nl hogedrukcilinder m, f
 r цилиндр м высокого давления
 (→ 8.103)
- 8.105 e board drop hammer
 d Brettfallhammer m
 f marteau m à planche
 nl plankvalhamer m
 r (фрикционный) молот м с доской

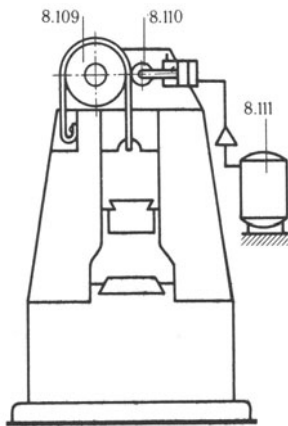


8.106

8.106 e board
d Brett n
f planche f
nl plank f (m)
r доска f
(→ 8.105)

8.107 e lifting roll
d Heberolle f
f galet m de levage
nl hefrol f (m)
r подъёмный ролик m
(→ 8.105)

8.108 e belt lift hammer
d Riemenfallhammer m
f marteau m à friction à courroie
nl riemvalhamer m
r (фрикционный) молот m с ремнём

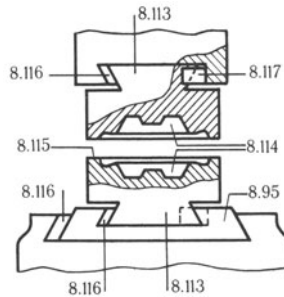


8.109 e lifting drum
d Hebetrommel f
f tambour m de levage
nl heftrommel f (m)
r подъёмный барабан m
(→ 8.108)

8.110 e pressure roll
d Druckrolle f
f galet m de presseur
nl drukrol f (m)
r нажимной ролик m
(→ 8.108)

8.111 e air receiver
d Luftbehälter m, Windkessel m
f réservoir m d'air
nl luchtketel m, windketel
r ресивер m
(→ 8.108)

8.112 e hammer die
d Hammergesenk n
f étampe f à marteau
nl hamermatrijs f (m)
r молотовый штамп m



8.113 e die shank
d Gesenkschwabenschwanz m
f queue f d'étampe
nl schacht f (m) van de matrijs
r хвостовик m штампа
(→ 8.112)

8.114 e impression, die cavity
d Gravur f
f gravure f de matrice
nl matrijsholte f
r полость f штампа
(→ 8.112)

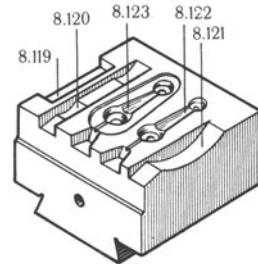
8.115 e die parting plane, die face
d Aufschlagfläche f, Stossfläche
f face f de travail d'étampe
nl matrijsbed n, stootvlak n
r зеркало n штампа
(→ 8.112)

8.116 e fastening gib
d Spannkeil m
f coin m, cale f
nl bevestigingsspie f (m)
r крепёжный клин m
(→ 8.112)

8.117 e dowel
d Haltestein m
f clavette f
nl stelpen f (m)
r сухарь m, шпонка f
(→ 8.112)

8.118 e multiple-impression press tool
d Mehrstufengesenk n

f matrice f à gravures multiples
nl meertrapsmatrijs f (m)
r многоручевой штамп m



8.119 e fuller (impression)
d Reckgravur f
f cannelure f d'étirage
nl trekholte f
r протяжной ручей m
(→ 8.118)

8.120 e edger (impression), roller (impression)
d Rollgravur f
f cannelure f de traction
nl walsgroef f (m), walsholte f
r подкатной ручей m
(→ 8.118)

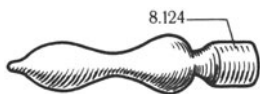
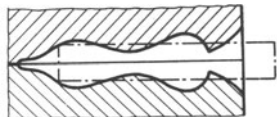
8.121 e bender (impression)
d Biegegravur f
f cannelure f de cambrage
nl buigholte f
r гибочный ручей m
(→ 8.118)

8.122 e blocking impression
d Vorschmiedegravur f
f cannelure f ébaucheuse, ébaucheur m
nl voorsmeedholte f
r предварительный [черновой] штамповочный ручей m
(→ 8.118)

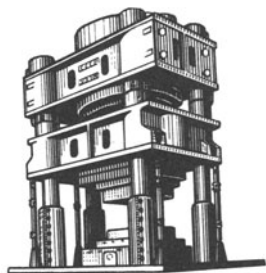
8.123 e finish impression
d Endgravur f
f cannelure f de finissage
nl eindbewerkingsholte f
r окончательный [чистовой] штамповочный ручей m
(→ 8.118)

8.124 e tong [bar] hold
d Zangenende n
f queue f de barre

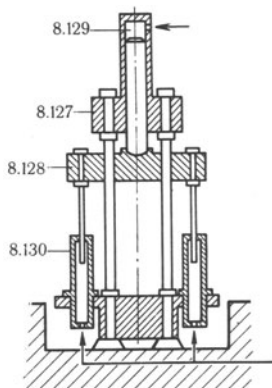
nl tangeinde n
r клещевина f



8.125 e forging press
d Schmiedepresse f
f presse f à forger
nl smeedpers f(m)
r ковочно-штамповочный пресс m



8.126 e hydraulic press
d hydraulische Presse f
f presse f hydraulique
nl hydraulische pers f(m)
r гидравлический пресс m



8.127 e stationary cross-rail
d Zylinderquerhaupt n
f traverse f fixée

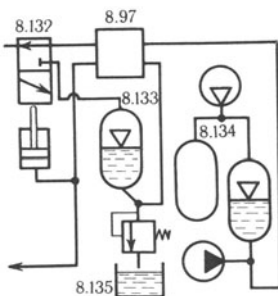
nl vaste dwarsbalk m
r неподвижная поперечина f [траверса f]
(→ 8.126)

8.128 e ram (of press)
d bewegliches Querhaupt n
f traverse f mobile
nl beweegbare dwarsbalk m
r подвижная поперечина f [траверса f]
(→ 8.126)

8.129 e main cylinder
d Presszylinder m
f cylindre m de commande
nl werkcilinder m, f
r рабочий [главный] гидроцилиндр m
(→ 8.126)

8.130 e lift cylinder
d Hebezyylinder m
f cylindre m de retour [de levage]
nl hefcilinder m, f
r возвратный [подъёмный] гидроцилиндр m
(→ 8.126)

8.131 e pump-accumulator station
d Druckwasseranlage f mit Akkumulator
f bloc-pompes m pl d'accumulateurs
nl pomp- en opslaginstallatie f
r насосно-аккумуляторная станция f



8.132 e make-up valve
d Füllventil n
f valve f de remplissage
nl toevoerklep f(m), suppletieklep
r дополнительный клапан m
(→ 8.131)

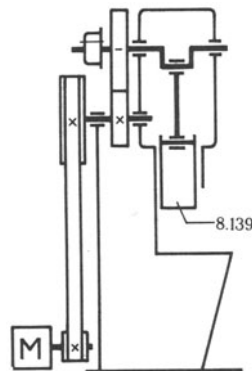
8.133 e make-up tank
d Füllbehälter m
f bac m de remplissage
nl suppletietank m
r наполнительный бак m
(→ 8.131)

8.134 e air cylinder
d Luftzylinder m
f bouteille f à air
nl persluchtcilinder m, f
r воздушный баллон m
(→ 8.131)

8.135 e discharge tank
d Ablaufbehälter m
f bac m de vidange
nl lozingstank m
r сливной бак m
(→ 8.131)

8.136 e mechanical press
d mechanische Presse f
f presse f mécanique
nl mechanische pers f(m)
r механический пресс m
(→ 8.137, 8.145, 8.147)

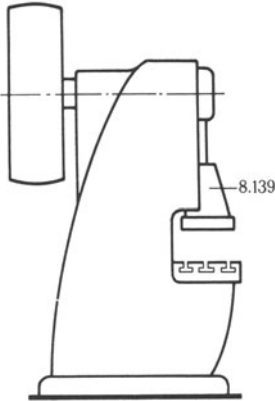
8.137 e crank press
d Kurbelpresse f
f presse f à bielle
nl krukpers f(m)
r кривошипный пресс m



8.138 e open-frame [C-frame, open-back] vertical crank press
d Einständer-Kurbelpresse f mit C-Gestell
f presse f ouverte à montant unique et à bielle
nl openzijkrukpers f(m)

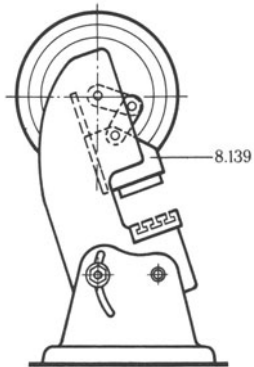
8.138

r открытый одностоечный
вертикальный кривошип-
ный пресс m



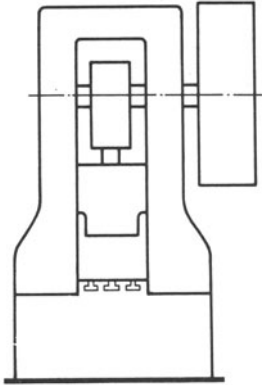
8.139 e ram, punch slide
d Stößel m
f coulisseau m
nl stoter m, glijblok n
r ползун m
(→ 8.138)

8.140 e open-back inclinable crank
press
d neigbare Einständer-Kurbel-
presse f
f presse f ouverte inclinable
à montant unique et à
bielle
nl eenkolomkrukpers f(m) met
regelbare hellingshoek
r одностоечный наклоня-
емый кривошипный
пресс m

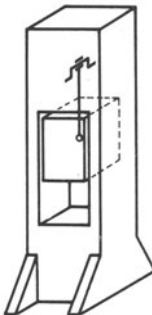


8.141 e straight-sided [close-frame]
press
d Zweiständerpresse f, Presse
mit O-Gestell

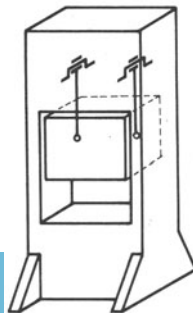
f presse f fermée à double
montant
nl portaalpers f (m), geslo-
ten tweekolomspers
r двухстоечный закрытый
пресс m



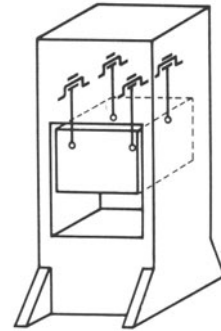
8.142 e single-point [single-crank]
press
d Einpunktpresse f
f presse f à une bielle
nl pers f (m) met enkele kruk
r однокривошипный пресс m



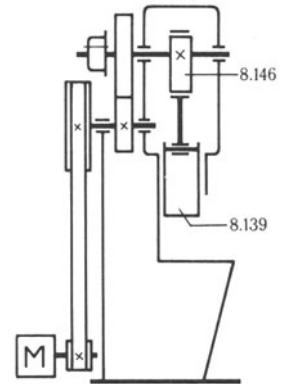
8.143 e two-point [double-crank]
press
d Zweipunktpresse f
f presse f à deux bielles
nl pers f (m) met dubbele kruk
r двухкривошипный пресс m



8.144 e four-point press
d Vierpunktpresse f
f presse f à quatre bielles
nl pers f (m) met vier kruk-
ken
r четырёхкривошипный
пресс m



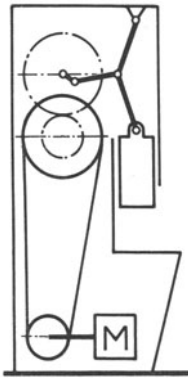
8.145 e eccentric press
d Exzenterpresse f
f presse f à excentrique
nl excenterpers f(m)
r эксцентриковый пресс m



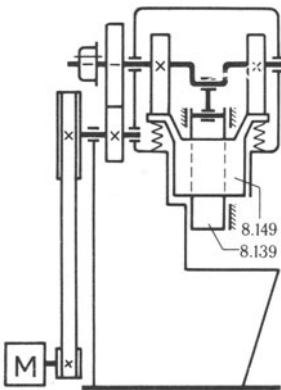
8.146 e eccentric
d Exzenter m
f excentrique m
nl excentriek n
r эксцентрик m
(→ 8.145)

8.147 e knuckle-joint press
d Kniehebelpresse f
f presse f à genouillère [à une
bielle]

nl knieefboompers f(m)
r кривошипно-коленный
пресс m



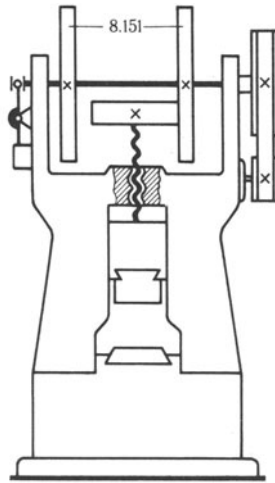
8.148 e double-action press
d doppelwirkende Presse f
f presse f à double effet
nl dubbelwerkende pers f(m)
r пресс m двойного дей-
ствия



8.149 e additional slide
d Hilfsschlitten m
f coulisseau m auxiliaire
nl hulpslede f(m), hulpstoter m
r вспомогательный ползун m (→ 8.148)

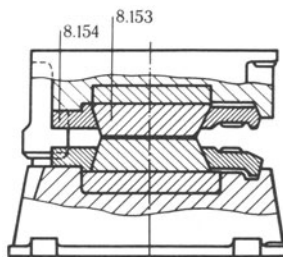
8.150 e percussion power press
d Friktions-Spindelpresse f,
Reibspindelpresse
f presse f [marteau m] à fric-
tion à vis
nl schroefpers f(m)

r винтовой фрикционный
молот m [пресс m]



8.151 e driving disc
d Antriebs Scheibe f
f disque m d'entraînement
nl aandrijfschijf f(m)
r ведущий [приводной]
диск m (→ 8.150)

8.152 e insert die
d Einsatzgesenk n
f étampe f composée
nl inzetmatrijs f(m), inzetstem-
pel m
r сборный штамп m



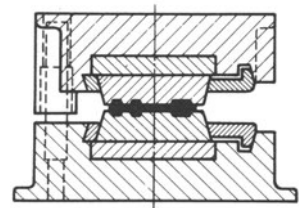
8.153 e insert
d Einsatz m
f insertion f de cannelure
nl inzet m, inzetstel n
r ручьевая вставка f (→ 8.152)

8.154 e wedge strip
d Keilplatte f

f planche f à coin
nl spieplaat f(m)
r клиновья планка f (→ 8.152)

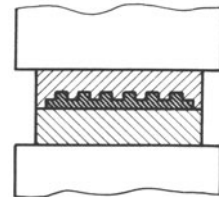
8.155 e sizing
d Kalibrieren n
f calibre m
nl kalibreren n
r калибровка f (→ 8.156)

8.156 e sizing die [press-tool]
d Kalibriergesenk n
f étampe f de calibre
nl maatstempel m
r калибровочный штамп m



8.157 e coining
d Prägen n
f frappe m
nl koud stampen n
r чеканка f (→ 8.158)

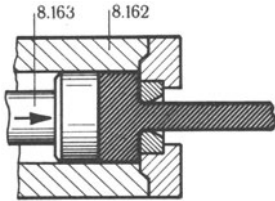
8.158 e coining die [press tool]
d Prägegesenk n
f étampe f de frappe
nl muntstempel m, contra-
stempel
r чеканочный штамп m



8.159 e extrusion, extruding
d Fließpressen n
f extrusion f, filage m
nl extrusie f
r выдавливание n (→ 8.160, 8.164)

8.160

- 8.160 e direct extrusion
 d Vorwärts-Fließpressen n
 f extrusion f directe, filage m direct
 nl directe extrusie f
 r прямое выдавливание n

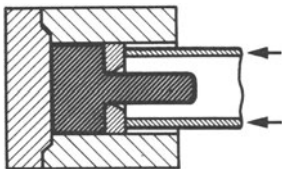


- 8.161 e extrusion die
 d Werkzeug n zum Fließpressen
 f étampe f d'extrusion
 nl extrusiematrijs f(m)
 r штамп m выдавливания (→ 8.160)

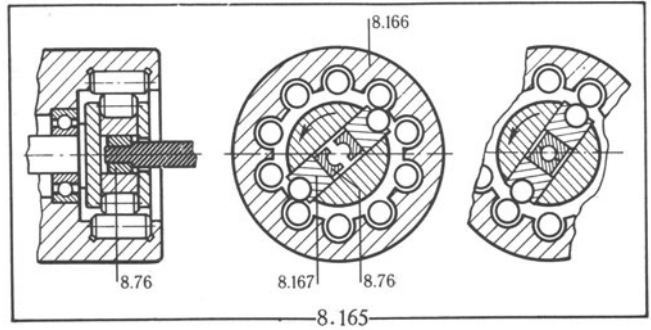
- 8.162 e container
 d Pressbüchse f, Matrice f
 f container m, récipient m
 nl houder m
 r контейнер m (→ 8.160)

- 8.163 e stem, ram
 d Fließpress-Stempel m
 f poinçon m (rond)
 nl ram m, stoter m
 r пресс-штампель m, пуансон m (→ 8.160)

- 8.164 e indirect [backward] extrusion
 d Rückwärts-Fließpressen n
 f extrusion f indirecte
 nl indirecte extrusie f
 r обратное выдавливание n



- 8.165 e (rotary) swaging
 d Rundkneten n
 f forgeage m rotatif



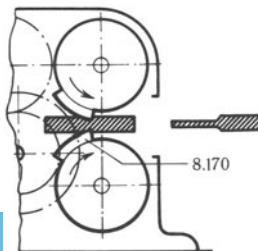
- nl rotatiesmeden n, draaismeden
 r ротационная ковка f

- 8.166 e roll cage
 d Rollenkranz m
 f cage f
 nl rollenkooi f (m)
 r обойма f (→ 8.165)

- 8.167 e backer
 d Stößel m
 f coulisseau m
 nl slede f(m), stoter m, glijblok n
 r ползун m (→ 8.165)

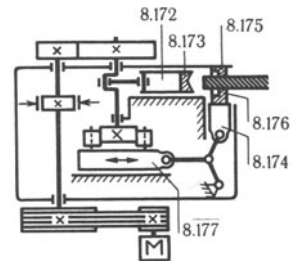
- 8.168 e roll-forging
 d Reckwalzen n, Schmiedewalzen
 f laminage m, cylindrage m
 nl smeedwalzen n
 r вальцовка f (→ 8.169)

- 8.169 e roll-forging machine, forging rolls
 d Reckwalze f
 f laminoir m à forger
 nl smeedwals f (m)
 r ковочные [штамповочные] валцы pl



- 8.170 e roll die
 d Walzensegment n
 f segment m d'étampe
 nl walssegment n
 r штамповочный сектор m (→ 8.169)

- 8.171 e horizontal forging [upsetting] machine, upsetter
 d Waagrecht-Stauchmaschine f
 f machine f à forger horizontale
 nl horizontaalsmeedmachine f
 r горизонтально-ковочная машина f



- 8.172 e header ram
 d Stauchschlitten m
 f coulisseau m central [principal]
 nl stoter m
 r главный [центральный, высадочный] ползун m

- 8.173 e heading tool
 d Stößel m, Stempel m
 f poinçon m
 nl stempel m
 r пуансон m (→ 8.171)

- 8.174 e gripping slide
 d Klemmschlitten m
 f coulisseau m de serrage

- nl klemslede f(m)
r зажимный ползун m
(→ 8.171)
- 8.175 e stationary gripping die
d feste Klemmbacke f
f matrice f immobile
nl vaste klemmatrijs f(m)
r неподвижная матрица f
(→ 8.171)
- 8.176 e movable gripping die
d bewegliche Klemmbacke f
f matrice f mobile
nl losse klemmatrijs f(m)
r подвижная матрица f
(→ 8.171)
- 8.177 e side slide
d Seitenschlitten m
f coulisseau m latéral
nl zijslide f(m)
r боковой ползун m
(→ 8.171)

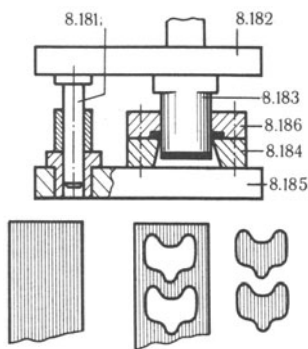
Sheet Presswork
Blechumformung
Emboutissage en feuilles
Plaatstansen
Листовая штамповка

- 8.178 e sheet presswork
d Blechumformung f
f emboutissage m en feuilles
nl plaatstansen n
r листовая штамповка f



- 8.179 e blanking
d Ausschneiden n
f découpage m
nl uitsnijden n, uitstansen n
r вырезка f, вырубка f
(→ 8.180)
- 8.180 e blanking die [press tool]
d Schneidwerkzeug n
f outil m de découpage
nl stansmachine f, uitstansstempel m

г вырезной [вырубной] штамп m



- 8.181 e guide post, pillar
d Führungssäule f
f colonne f de guidage
nl geleidingskolom f(m)
r направляющая колонка f
(→ 8.180)

- 8.182 e (die) upper shoe
d Gestelloberteile m
f plaque f de dessus
nl bovenplaat f(m), bovenmatrijs f(m)
r верхняя плита f
(→ 8.180)

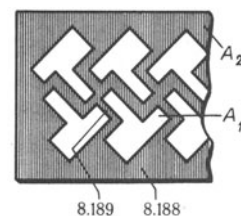
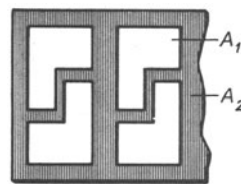
- 8.183 e punch
d Schneidstempel m
f poinçon m
nl (boven)stempel m
r пуансон m
(→ 8.180)

- 8.184 e die block
d Schneidring m, Schneidplatte f
f matrice f (de découpage)
nl stansvorm m, stansmatrijs f(m)
r матрица f
(→ 8.180)

- 8.185 e die lower shoe
d Gestellunterteil m
f plaque f [partie f] inférieure
nl grondplaat f(m)
r нижняя плита f
(→ 8.180)

- 8.186 e stripper
d Abstreifer m
f extracteur m, dévêtisseur m
nl afstrijker m
r съёмник m
(→ 8.180)

- 8.187 e stock lay-out
d Ausschnitt-Anordnung f
f découpage m
nl snijpatroon f(m)
r раскрой m



- 8.188 e scrap
d Abfall m, Verschnitt m
f déchet m, chute f
nl afval n, afsnee f(m)
r отход m, обрезь f
(→ 8.187)

- 8.189 e web
d Steg m
f arête f
nl verbindingsbrug f(m)
r перемычка f
(→ 8.187)

- 8.190 e stock utilization ratio
d Stoffverschnittgrad m, Verschnittziffer f
f coefficient m d'utilisation de matériau
nl nuttige gebruiksfactor m voor een materiaal
r коэффициент m использования материала

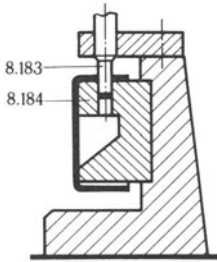
$$K = \frac{n \cdot A_1}{n \cdot A_1 + A_2}$$

(→ 8.187)

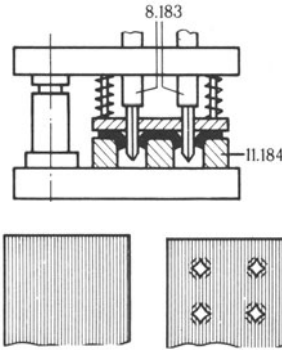
- 8.191 e punching
d Lochen n
f poinçonnage m
nl ponsen n, stansen n
r пробивка f
(→ 8.192)
- 8.192 e punching die [press tool]
d Lochwerkzeug n
f outil m de poinçonnage

8.192

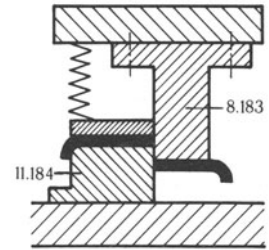
nl ponsgereedschap n
r пробивной штамп m



nl doorsteekgereedschap n
r проколочный штамп m

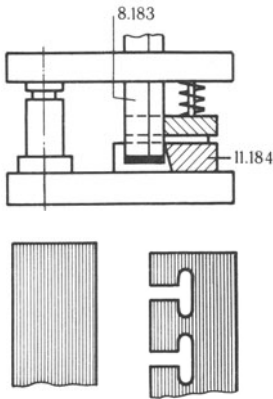


nl afsteekgereedschap n
r отрезной штамп m



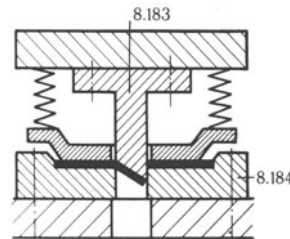
8.193 e notching
d Ausklinken n
f grignotage m, encochage m
nl insnijden n
r высечка f
(→ 8.194)

8.194 e notching die [press tool]
d Ausklinkwerkzeug n
f outil m de grignotage [d'encochage]
nl uitsnijgereedschap n, uitstansinrichting f
r высечной штамп m



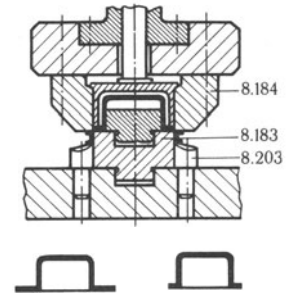
8.197 e lancing
d Einschneiden n
f découpage m partiel
nl inkeping f
r надрезка f
(→ 8.198)

8.198 e lancing die [press tool]
d Einschneidwerkzeug n
f outil m pour découpage partiel
nl insnijgereedschap n
r надрезной штамп m



8.201 e trimming
d Beschneiden n
f rognage m, détourage m
nl (af)knippen n
r обрезка f
(→ 8.202)

8.202 e trimming die [press tool]
d Beschneidwerkzeug n
f outil m de rognage
nl afsnijstempel m, bijsnijstempel
r отрезной штамп m



8.195 e (scrapless) piercing
d Durchstechen n
f perçage m (par poinçonnage)
nl doorsteken n
r проколка f
(→ 8.196)

8.199 e parting
d Abschneiden n
f tranchage m
nl afsteken n
r отрезка f
(→ 8.200)

8.203 e shearing blade
d Messer n
f couteau m
nl mes n
r разрубной нож m
(→ 8.202)

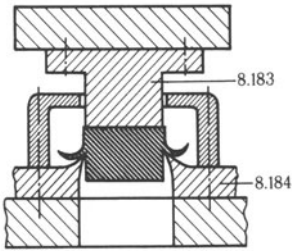
8.204 e shaving
d Nachschneiden n
f arasage m en matrice, nettoyage m
nl nasnijden n
r зачистка f
(→ 8.205)

8.196 e piercing die [press tool]
d Durchstechwerkzeug n
f outil m de perçage (par poinçonnage)

8.200 e parting die [press tool]
d Abschneidwerkzeug n
f outil m de tranchage

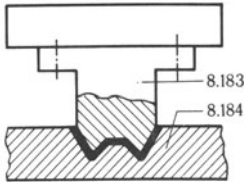
8.205 e shaving die [press tool]
d Nachschneidwerkzeug n
f outil m pour arasage en matrice

nl nasnijgereedschap n, nasnijstempel m
r зачистной штамп m

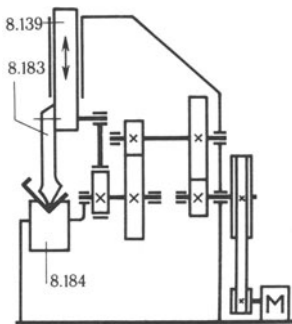


8.206 e bending, forming
d Biegen n
f pliage m
nl buigen n
r гибка f
(→ 8.207)

8.207 e forming die [press tool]
d Biegegesenk n
f outil m de pliage
nl buigstempel m, vormmachine f
r гибочный штамп m

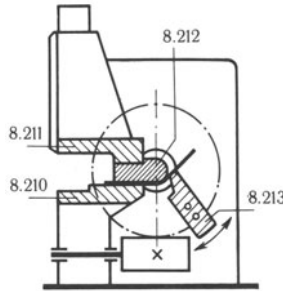


8.208 e press brake
d Gesenkbiegepresse f
f presse f de pliage
nl buigpers f(m)
r гибочный пресс m



8.209 e sheet bending machine
d Schwenkbiegemaschine f
f presse f de tôlerie
nl plaatbuigmachine f

r профилегибочная [листогибочная] машина f



8.210 e stationary frame
d Unterwange f
f traverse f immobile
nl vaste dwarsbalk m
r неподвижная траверса f
(→ 8.209)

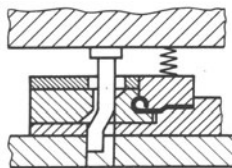
8.211 e clamping slide
d Oberwange f
f traverse f de pression
nl klembalk m
r прижимная траверса f
(→ 8.209)

8.212 e template
d Biegeschiene f, Blechschuh m
f gabarit m
nl buigmal m
r шаблон m
(→ 8.209)

8.213 e swivelling frame
d Schwenkwange f
f traverse f à plier
nl buigbalk m, rolbalk
r поворотная [гибочная] траверса f
(→ 8.209)

8.214 e curling
d Rollen n
f enroulage m
nl rolbuigen n, kralen n
r завивка f
(→ 8.215)

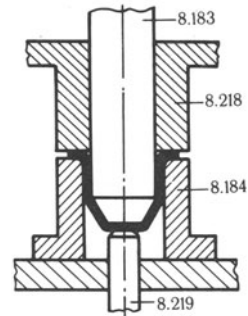
8.215 e curling die [press tool]
d Rollwerkzeug n



f outil m d'enroulage
nl kraalgereedschap n
r завивочный штамп m

8.216 e deep drawing
d Tiefziehen n
f emboutissage m profond
nl dieptrekken n
r глубокая вытяжка f
(→ 8.217)

8.217 e drawing die [press tool]
d Ziehwerkzeug n
f outil m d'emboutissage
nl trekkers f(m)
r вытяжной штамп m



8.218 e blankholder
d Niederhalter m, Blechhalter
f plaque f de pression
nl aandrukker m, neerhouder m
r прижим m, складкодержатель m
(→ 8.217)

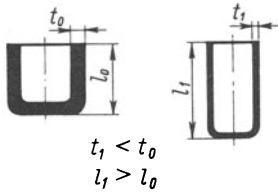
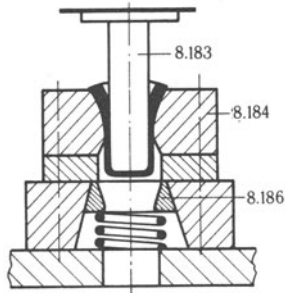
8.219 e knockout, kicker
d Auswerfer m
f éjecteur m
nl uitwerper m
r выталкиватель m
(→ 8.217)

8.220 e ironing
d Abstreck-Gleitziehen n
f étirage-emboutissage m
nl afstrijktrekken n
r вытяжка f с утонением
(→ 8.221)

8.221 e ironing die [press tool]
d Werkzeug n zum Abstreck-Gleitziehen
f outil m d'étirage

8.221

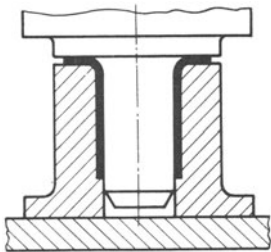
nl afstrijktreppers f (m)
r протяжной штамп m



8.222 e flanging
d Abkanten n, Bördeln n
f bordage m
nl omzetten n, doorzetten n
r отбортовка f
(→ 8.224, 8.226)

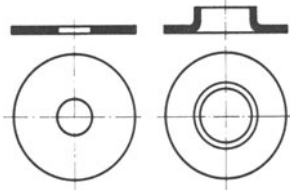
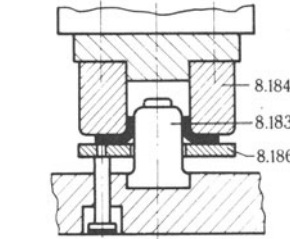
8.223 e outward flanging
d Abkanten n
f bordage m extérieur
nl uitflensen n
r наружная отбортовка f
(→ 8.224)

8.224 e outward flanging die
[press tool]
d Abkantwerkzeug n
f outil m à bordage
nl flenspers f (m)
r отбортовочный штамп m

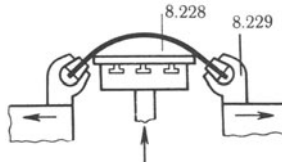


8.225 e inward flanging
d Durchziehen n, Kragenziehen
f bordage m intérieur
nl doortrekken n
r разбортовка f
(→ 8.226)

8.226 e inward flanging die
[press tool]
d Durchziehwerkzeug n
f outil m à bordage intérieur
nl doortreppers f (m)
r разбортовочный штамп m



8.227 e stretch forming
d Streckziehen n
f pliage m par étirage
nl strekken n
r гибка f растяжением

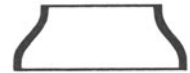
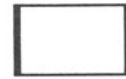
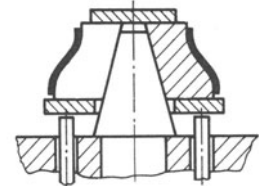


8.228 e stretch die, form block
d Formklotz m
f outil m à former par étirage
nl vormblok n
r обтяжной пуансон m
(→ 8.227)

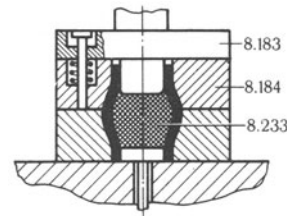
8.229 e gripping jaw
d Spannzange f
f pince f
nl spanklauw m, f, opspanbek m
r захват m
(→ 8.227)

8.230 e bulging
d Weiten n, Ausbauchen n
f gonflage m
nl uitbuilen n, rondbuiken n
r раздача f, формовка f растяжением
(→ 8.231, 8.232)

8.231 e segmented [split] bulging die [press tool]
d Spreiz-Ausbauchwerkzeug n
f outil m à segment de gonflage
nl uitbuilers f (m)
r сегментный раздаточный штамп m



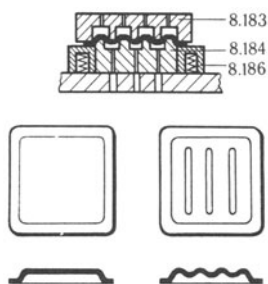
8.232 e hydrostatic bulging die
d hydrostatisches Ausbauchwerkzeug n
f outil m de gonflage hydrostatique
nl hydrostatische uitbuilers f(m)
r гидростатический раздаточный штамп m



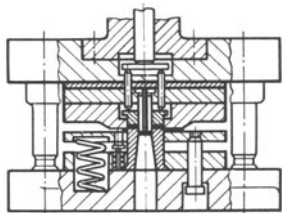
- 8.233 e (urethane) rubber punch
 d Gummistempel m
 f poinçon m élastique [en caoutchouc]
 nl rubberstempel m
 r резиновый пуансон m
 (→ 8.232)

- 8.234 e embossing
 d Hohlprägen n
 f ciselage m, frappage m
 nl reliefdrukken n, diep-drukken
 r рельефная формовка f, листовая чеканка f
 (→ 8.235)

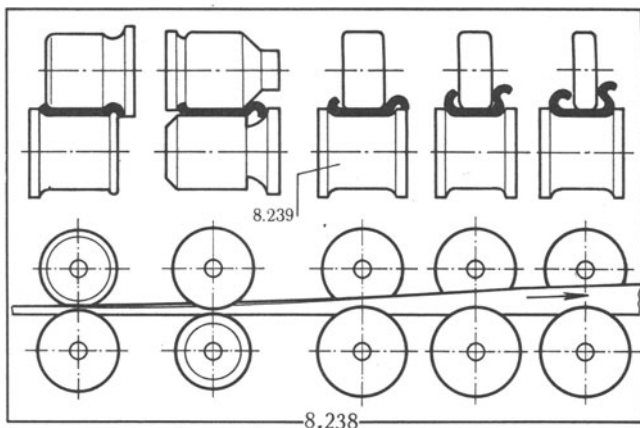
- 8.235 e embossing die [press tool]
 d Hohlprägwerkzeug n
 f outil m à ciselage
 nl reliëfmatrijs f (m)
 r рельефно-формовочный штамп m



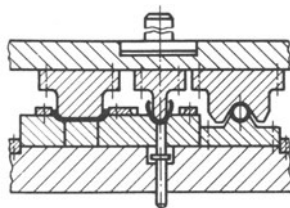
- 8.236 e compound die [press tool]
 d Verbundwerkzeug n
 f outil m pour découpage combiné
 nl combinatiestempel m
 r (комбинированный) штамп m совмещённого действия



- 8.237 e progressive die [press tool]
 d Folgeverbundwerkzeug n
 f outil m progressif
 nl volgstempel m



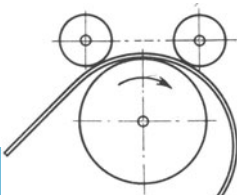
- r (комбинированный) штамп m последовательного действия



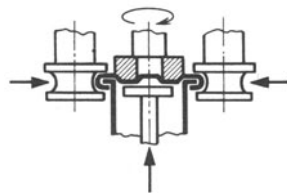
- 8.238 e roll forming
 d Walzprofilieren n, Profilwalzen n
 f formage m, profilage m
 nl profielwalsen n
 r профилировка f

- 8.239 e forming roll
 d Biegewalze f, Profilwalze
 f galet m de formage
 nl profielwals f(m)
 r профилировочный ролик m
 (→ 8.238)

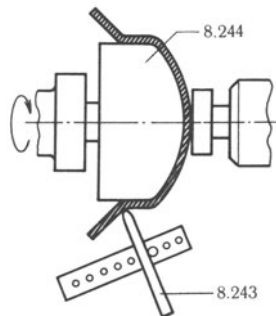
- 8.240 e roll bendi g
 d Walzbiegen n, Runden n
 f pliage m par galet
 nl buigwalsen n
 r свёртка f



- 8.241 e roll seaming
 d Einrollverschliessen n
 f roulage m
 nl rolsluiten n
 r закатка f



- 8.242 e (metal) spinning
 d Drücken n
 f fluo-tournage m
 nl forceerdraaien n, forceren n
 r ротационная вытяжка f, токарное выдавливание n

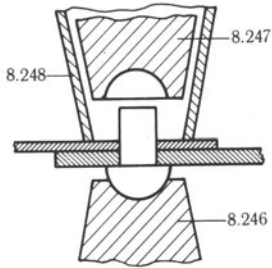


- 8.243 e spinning tool
 d Drückwerkzeug n
 f outil m de fluo-tournage
 nl forceerijzer n
 r давилыник m
 (→ 8.242)

8.244

8.244 e spin chuck, form block
 d Drückform f
 f mandrin m
 nl vormkop m
 r патрон m
 (→ 8.242)

8.245 e riveting
 d Nieten n
 f rivetage m
 nl klinken n
 r клёпка f



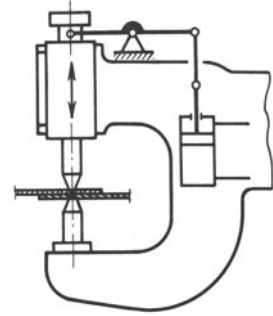
8.246 e rivet bucket
 d Vorhalter m
 f maintien m
 nl tegenhouder m
 r поддержка f
 (→ 8.245)

8.247 e rivet set
 d Nietendöpper m, Niet-
 kopfsetzer m
 f bouterolle f
 nl nageldopper m
 r обжимка f
 (→ 8.245)

8.248 e holder
 d Niederhalter m
 f dispositif m de serrage
 nl neerhouder m

г прижим m
 (→ 8.245)

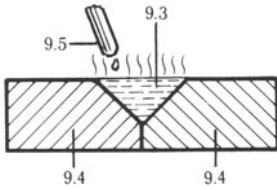
8.249 e riveting machine
 d Nietmaschine f
 f machine f à rivetage,
 riveteuse f
 nl klinkmachine f
 r клепальная машина f



**9. WELDING
SCHWEISSEN
SOUDAGE
LASSEN
СВАРКА**

9.1 e welding
d Schweißen n
f soudage m
nl lassen n
r сварка f
(→ 9.2, 9.6)

9.2 e fusion welding
d Schmelzschweißen n
f soudage m par fusion
nl smeltlassen n
r сварка f плавлением

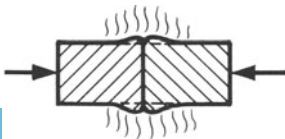


9.3 e molten (weld) pool
d Schmelzbad n, Schmelze f
f bain m de fusion
nl smeltbad n, smelt m
r сварочная ванна f
(→ 9.2)

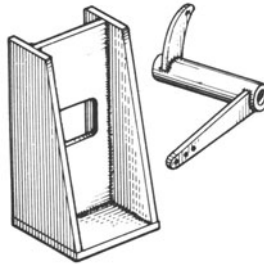
9.4 e base metal
d Grundmetall n
f métal m de base
nl grondmetaal n
r основной металл m
(→ 9.2)

9.5 e filler metal
d Zusatzmetall n
f métal m d'apport
nl toevoegmetaal n
r присадочный металл m
(→ 9.2)

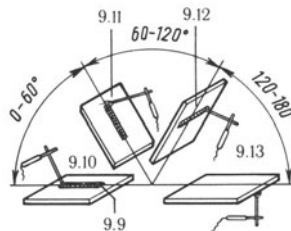
9.6 e pressure welding
d Pressschweißen n
f soudage m par pression
nl druklassen n
r сварка f давлением



9.7 e weldment
d Schweiss(bau)teil m,
Schweisskonstruktion f
f pièce f soudée
nl laswerk n, laswerkstuk n
r сварная деталь f



9.8 e welding position
d Schweissposition f
f position f en soudage
nl positie f [stelling f]
bij het lassen, laspositie
r сварочное положение n



9.9 e bead
d Raupe f, Schweissraupe
f bourrelet m
nl lasrups f(m)
r валик m
(→ 9.8)

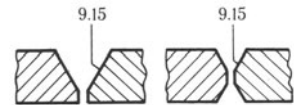
9.10 e flat position
d Normalposition f
f position f de dessous
nl normale laspositie f
r нижнее положение n
(→ 9.8)

9.11 e vertical position
d vertikale Position f
f position f verticale
nl horizontale laspositie f
r вертикальное положение n
(→ 9.8)

9.12 e horizontal position
d Horizontalposition f
f position f horizontale
nl horizontale laspositie f
r горизонтальное положение n
(→ 9.8)

9.13 e overhead position
d Überkopposition f
f position f de plafond
nl overkopsende laspositie f
r потолочное положение n
(→ 9.8)

9.14 e edge preparation
d Kantenvorbereitung f
f chanfreinage m pour
soudage
nl laskantvoorbewerking f,
laskantafschuining f
r разделка f шва [кромка
под сварку]

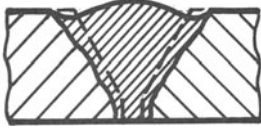


9.15 e beveled edge
d Schrägkante f
f chanfrein m rectiligne
nl schuine laskant f (m)
r (прямолинейный) скос m
(→ 9.14)

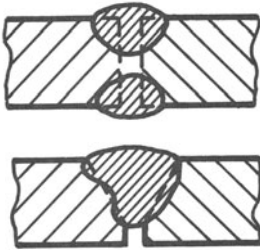
9.16 e welding defect
d Schweissfehler m
f défaut m de soudage
nl lasfout f
r сварочный дефект m
(→ 9.17 -- 9.20)

9.17 e undercut
d Einbrandkerbe f
f caniveau m

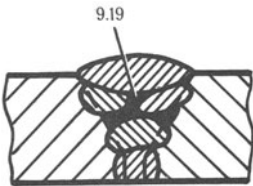
nl ondersnijding f
r подрез m (зоны оплавления)



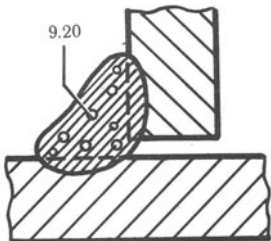
9.18 e incomplete [lack of] fusion
d mangelhaftes Durchschweißen n
f pénétration f incomplète
nl onvoldedige doorsmelting f
r непровар m



9.19 e slag inclusion
d Schlackeneinschluss m
f inclusion f de scorie
nl slakinsluiting f
r шлаковое включение n

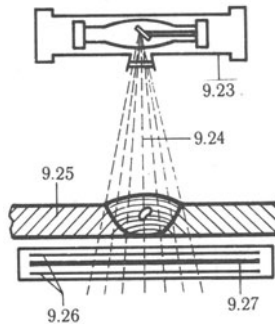


9.20 e gas pore
d Gaspore f
f pore m gazeux
nl gasporie f
r газовая пора f



9.21 e nondestructive testing
d zerstörungsfreie Prüfung f
f déféctoscopie f, essai m
non destructif
nl niet-destructief onderzoek n
r дефектоскопия f, неразрушающее испытание n
(→ 9.22, 9.31, 9.37, 9.39)

9.22 e X-ray testing [detection]
d Röntgenstrahlungsprüfung f
f contrôle m radiographique
nl röntgenonderzoek n
r рентгеновская дефектоскопия f, рентгенодефектоскопия



9.23 e X-ray tube
d Röntgenröhre f
f tube m de Roentgen [à rayons X]
nl röntgenbuis f(m)
r рентгеновская трубка f
(→ 9.22)

9.24 e X-ray radiation
d Röntgenstrahlung f
f radiation f X
nl röntgenstraling f
r рентгеновское излучение n
(→ 9.22)

9.25 e part to be inspected
d zu prüfendes Werkstück n
f pièce f contrôlable
nl te onderzoeken werkstuk
r контролируемая [испытываемая] деталь f
(→ 9.22)

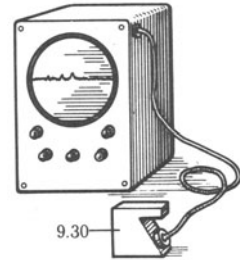
9.26 e screen
d Abschirmung f
f écran m
nl scherm n
r экран m
(→ 9.22)

9.27 e X-ray film
d Filmfolie f

f film m à rayons X
nl röntgenfilm m
r рентгеновская плёнка f, рентгеноплёнка
(→ 9.22)

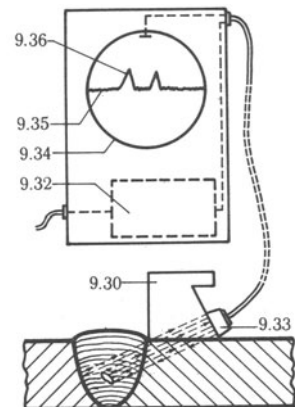
9.28 e ultrasonic testing
d Ultraschallprüfung f
f contrôle m ultra-sonique
nl ultrasoon onderzoek n, [testen n]
r ультразвуковая дефектоскопия f
(→ 9.30)

9.29 e ultrasonic flaw detector
d Ultraschallprüfgerät n
f défécteur m ultra-sonique
nl ultrason testapparaat m
r ультразвуковой дефектоскоп m



9.30 e probe
d Prüfkopf m
f sonde f
nl zoekinrichting f, voeler m, sonde f(m)
r искатель m, шуп m
(→ 9.29)

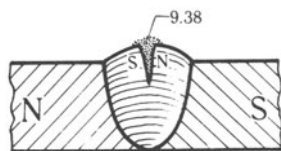
9.31 e puls-echo method
d Impuls-Echo-Verfahren n
f contrôle m d'écho



- nl impuls-echotechniek f,
impuls-echoprocédé n
r эхо-метод m
- 9.32 e oscillator
d Oszillator m
f oscillateur m
nl oscillator m
r генератор m электрических импульсов
(→ 9.31)
- 9.33 e piezoelectric transducer
d piezoelektrischer Ultraschallgeber m
f transducteur m piézo-électrique
nl piézo-elektrische omzetter m
r пьезоэлектрический преобразователь m
(→ 9.31)
- 9.34 e electron-ray tube
d Elektronenstrahlröhre f
f tube m cathodique
nl kathodestraalbuis f(m)
r электронно-лучевая трубка f
(→ 9.31)

- 9.35 e input signal
d Eingangssignal n
f signal m d'entrée
nl ingangssignaal n
r входной сигнал m
(→ 9.31)
- 9.36 e flaw signal
d Fehlersignal n
f signal m d'erreur
nl foutsignaal n, signaal veroorzaakt door een fout in het te onderzoeken werkstuk
r сигнал m от дефекта
(→ 9.31)

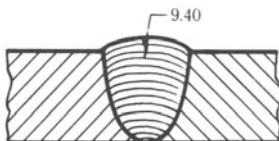
- 9.37 e magnetic-particle method
d Magnetpulververfahren n
f méthode f à poudre magnétique
nl magneetpoederprocédé n
r магнитно-порошковый метод m



9.38 e magnetic powder
d Magnetpulver n

- f poudre f magnétique
nl magneetpoeder n, m
r магнитный порошок m
(→ 9.37)

- 9.39 e penetrant inspection
d Eindringverfahren n
f déféctoscopie f capillaire
nl penetratieonderzoek n
r капиллярная дефектоскопия f

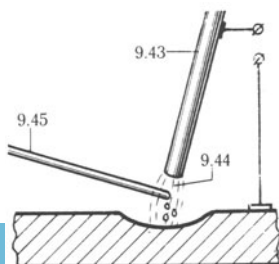


- 9.40 e penetrant
d Eindringmittel n
f fluide m pénétrant
nl penetreermiddel n, doordringingsmiddel
r проникающая жидкость f
(→ 9.39)

Arc Welding Lichtbogenschweissen Soudage à l'arc Booglassen Дуговая сварка

- 9.41 e arc welding
d Lichtbogenschweissen n
f soudage m a l'arc
nl booglassen n
r дуговая сварка f
(→ 9.42, 9.46)

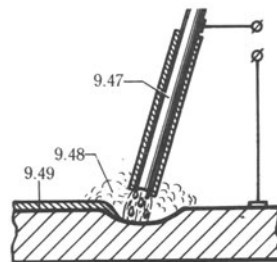
- 9.42 e carbon arc welding
d Kohle(lichtbogen)-schweissen n



- f soudage m à l'arc sans fusion d'électrode
nl booglassen n met niet-afsmeltende koolelektrode
r (дуговая) сварка f (неплавящимся) угольным электродом
- 9.43 e carbon rod
d Kohlestab m, Kohleelektrode f
f barre f de charbon
nl koolstaaf f (m), koolspits f (m)
r угольный стержень m
(→ 9.42)

- 9.44 e (electric) arc
d Lichtbogen m, Bogen
f arc m (électrique)
nl lichtboog m
r (электрическая) дуга f
(→ 9.42)

- 9.45 e filler rod
d Schweisszusatzstab m, Zusatzstab
f barre f à souder
nl aanvoerstaaf f (m), aanvoerdraad m
r присадочный пруток m
- 9.46 e shielded-metal arc welding, stick welding
d Lichtbogenschweissen n mit umhüllter Elektrode
f soudage m à l'arc par fusion d'électrode
nl lassen n met beschermende vlamboog
r дуговая сварка f (плавящимся) покрытым электродом



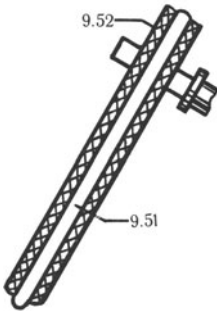
- 9.47 e electrode
d Stabelektrode f, Elektrode
f électrode f
nl laselektrode f, lasstaaf f (m)
r электрод m
(→ 9.46)

9.48

9.48 e gas shield
 d Schutzgas n
 f atmosphère f gazeuse
 nl gasbescherming f, gasmantel m
 r газовая атмосфера f дуги (→9.46)

9.49 e slag
 d Schlacke f
 f laitier m, scorie f
 nl slak f(m)
 r шлак m (→9.46)

9.50 e covered [coated] electrode
 d umhüllte Elektrode f
 f électrode f à enrobage
 nl beklede elektrode [lasstaaf f(m)]
 r покрытый электрод m

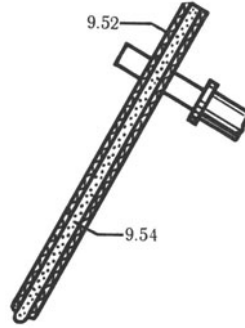


9.51 e core wire
 d Kerndraht m
 f âme f d'électrode
 nl lasstaaf f (m), kerndraad m
 r электродный стержень m (→9.50)

9.52 e (electrode) coating
 d Elektrodenumhüllung f, Umhüllung
 f enrobage m d'électrode
 nl lasstaafbekleding f
 r покрытие n (электрода) (→9.50)

9.53 e flux cored electrode
 d Seelenelektrode f, Pulverdraht m
 f électrode f à poudre
 nl electrode f met vloeimiddelkern

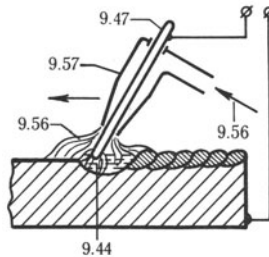
г порошковый электрод m, порошковая проволока f



9.54 e flux core
 d Pulverkern m
 f âme f d'électrode à poudre
 nl poederveulde lasstaafkern
 r порошкообразный сердечник m (→9.55)

9.55 e gas-metal arc welding, metal-inert gas welding, GMA welding, MIG welding
 d Schutzgas-(Lichtbogen)-schweissen n, SG-Schweissen
 f soudage m à l'arc par fusion d'électrode sous protection gazeuse

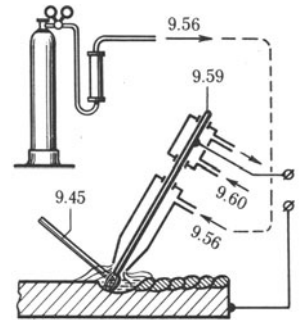
nl MIG-lassen n
 r (дуговая) сварка f плавящимся электродом в защитном газе



9.56 e shielding gas
 d Schutzgas n
 f gaz m de protection
 nl (be)schermgas n
 r защитный газ m (→9.55)

9.57 e welding gun
 d Schutzgasdüse f, Schweissbrenner m
 f chalumeau m soudeur
 nl lasbrander m
 r (сварочная) горелка f (→9.55)

9.58 e gas tungsten arc welding, GTA welding
 d Wolfram-Schutzgasschweissen n, Wolfram-Inertgas-Schweissen, WIG-Schweissen
 f soudage m à l'arc par d'électrode tungstique sous protection gazeuse
 nl TIG-lassen n
 r (дуговая) сварка f вольфрамовым электродом в защитном газе

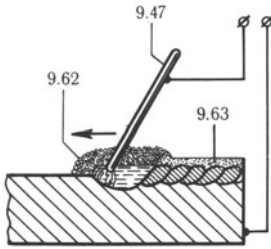


9.59 e (nonconsumable) tungsten electrode
 d (nichtabschmelzende) Wolframelektrode f
 f électrode f de tungstène (non fondante)
 nl (niet-afsmeltende) wolframelektrode f
 r (неплавящийся) вольфрамовый электрод m (→9.58)

9.60 e cooling water
 d Kühlwasser n
 f eau f réfrigérante
 nl koelwater n
 r охлаждающая вода f (→9.58)

9.61 e submerged arc welding
 d Unterpulverschweissen n, UP-Schweissen
 f soudage m sous flux

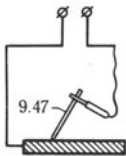
nl lassen n onder poederdek
r сварка f под флюсом



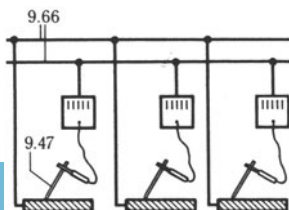
9.62 e welding flux
d Schweißpulver n
f flux m à souder
nl laspoeder n, m
r сварочный флюс m
(→9.61)

9.63 e solidified slag
d feste Schlacke f
f gaine f de scorie
nl uitgeharden lasslak f (m)
r затвердевший шлак m,
шлаковая корка f
(→9.61)

9.64 e single-operator welding set
d Einstellenschweissanlage f
f système m d'alimentation
à station unique
nl eenmanslasapparaat n
r однопостовая система n
питания



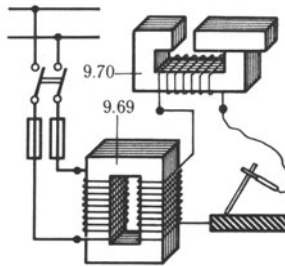
9.65 e multi-operator welding set
d Mehrstellenschweissanlage f
f système m d'alimentation
à multiple stations
nl meermanslasapparaat n
r многопостовая система f
питания



9.66 e feed bar
d Stromschiene f
f barre f d'amenée
nl voedingsstang f (m)
r токоподводящая шина f
(→9.65)

9.67 e power source, welding machine
d Schweißstromquelle f,
Schweißenergiequelle f
f source f d'alimentation
d'arc
nl lasstroombron f(m)
r источник m питания дуги
(→9.68, 9.71)

9.68 e ac arc-welding
d Wechselstrom-Lichtbogen-
schweissen n
f soudage m à l'arc à courant
alternatif
nl wisselstroombooglassen n
r (дуговая) сварка f пере-
менным током

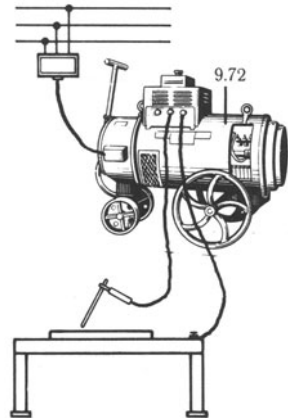


9.69 e welding transformer
d Schweißtransformator m
f transformateur m de
soudage
nl lastrafo m
r сварочный трансформа-
тор m
(→9.68)

9.70 e reactor coil
d Drossel f
f bobine f d'arrêt
nl smoorspoel f(m)
r дроссель m, реактивная
катушка f
(→9.68)

9.71 e dc arc-welding
d Gleichstromschweissen n
f soudage m à l'arc à courant
continu
nl gelijkstroombooglassen n

г (дуговая) сварка f по-
стоянным током

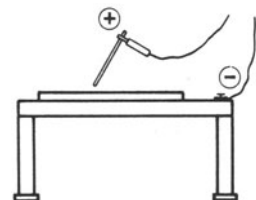


9.72 e welding converter
d Schweißumformer m
f convertisseur m de soudage
nl lasomvormer m
r сварочный преобразова-
тель m
(→9.71)

9.73 e straight [standard] pola-
rity
d Minuspole f, normale
Polung
f polarité f directe
nl negatieve aansluiting f
r прямая полярность f



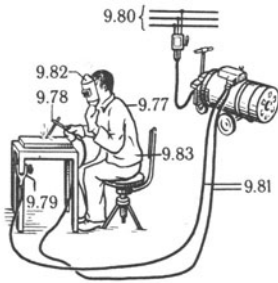
9.74 e reverse(d) polarity
d Pluspole f, umgekehrte
Polung
f polarité f inversée
nl positieve aansluiting f
r обратная полярность f



9.75

9.75 e manual welding
 d Handschweissen n, manuelles Schweissen
 f soudage m manuel
 nl handlassen n
 r ручная сварка f
 (→ 9.76)

9.76 e welding station
 d Schweiss-Stelle f
 f station f de soudage
 nl lasplaats f(m)
 r сварочный пост m



9.77 e welder
 d Schweisser m
 f soudeur m
 nl lasser m
 r сварщик m
 (→ 9.76)

9.78 e electrode holder
 d Elektrodenhalter m
 f porte-électrode m
 nl elektrodehouder m
 r электрододержатель m
 (→ 9.76)

9.79 e ground clamp
 d Anschlussklemme f
 f borne f de terre
 nl aansluitklem f(m)
 r зажим m заземления
 (→ 9.76)

9.80 e three-phase current mains
 d Dreiphasennetz n
 f réseau m de courant triphasé
 nl draaistroomnet n
 r сеть f трёхфазного тока

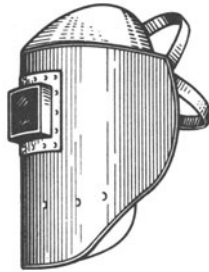
9.81 e flexible cable
 d Schweisskabel n
 f câble m souple
 nl buigzame kabel m
 r гибкий кабель m
 (→ 9.76)

9.82 e hand-held shield
 d Schutzschild m
 f écran m à main

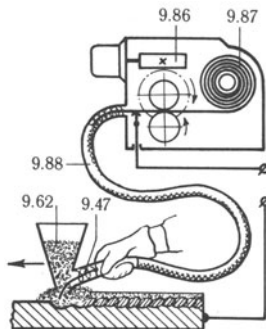
nl lasscher m
 r (сварочный) щиток m
 (→ 9.76)

9.83 e protective clothing
 d Arbeitsanzug m
 f vêtement m de travail
 nl werkkleding f
 r спецодежда f
 (→ 9.76)

9.84 e helmet
 d Kopfhaube f
 f masque m de protection
 nl lashelm m
 r маска-шлем m



9.85 e semi-automatic submerged-arc welder
 d halbautomatisches (Unterpulver-)Schweisgerät n
 f machine f semi-automatique pour soudage sous flux
 nl halfautomatisch lastoestel n voor het lassen onder poederdek
 r полуавтомат m для (дуговой) сварки под флюсом



9.86 e wire feeder, wire feed assembly
 d Drahtvorschubmechanismus m
 f entraîneur m de fil

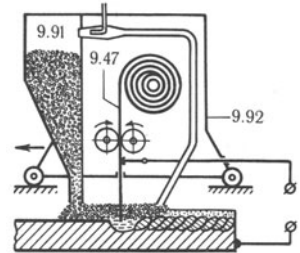
nl draadaanvoerapparaat n
 r механизм m подачи проволоки, подающий механизм
 (→ 9.85)

9.87 e wire reel
 d Drahtspule f
 f botte f de fil
 nl rol f(m) draad
 r моток m проволоки
 (→ 9.85)

9.88 e hose guide
 d Hohlkabel n
 f tuyau m d'amenée
 nl slang f (m)
 r шланговый провод m
 (→ 9.85)

9.89 e automatic submerged-arc welding
 d automatisches Unterpulverschweissen n
 f soudage m automatique sous flux
 nl automatisch lassen n onder poederdek
 r автоматическая сварка f под флюсом
 (→ 9.90)

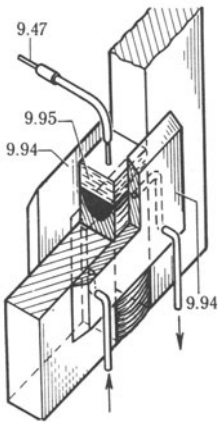
9.90 e automatic submerged-arc welder
 d Schweisstraktor m
 f automate m de soudage à l'arc sous flux
 nl lasautomaat m voor het lassen onder poederdek
 r автомат m для (дуговой) сварки под флюсом



9.91 e flux hopper
 d Pulvertrichter m
 f trémie f pour flux
 nl vultrechter m voor een lasvloei middel
 r бункер m флюсового аппарата
 (→ 9.90)

9.92 e travel carriage
 d Fahrwerk n
 f bog(g)ie f
 nl loopwagen m
 r тележка f, ходовая часть f
 (→9.90)

9.93 e electroslag welding
 d Elektroschlackeschweißen n
 f soudage m sous laitier électroconducteur
 nl elektroslaklassen n
 r электрошлаковая сварка f

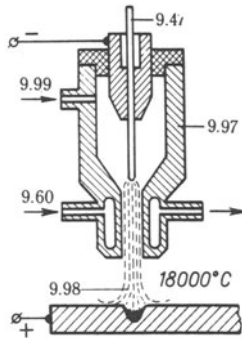


9.94 e molding shoe
 d Formschuh m, Gleitschuh
 f plaque f de formation
 nl vormplaat f(m)
 r формирующая плита f
 (→9.93)

9.95 e molten slag
 d Schlackenbad n
 f laitier m fondu
 nl gesmolten slak f(m), slakkenbad n
 r расплавленный шлак m
 (→9.93)

9.96 e plasma arc welding
 d Plasmaschweißen n
 f plasmasoudage m

nl plasma(boog)lassen n
 r плазменная сварка f

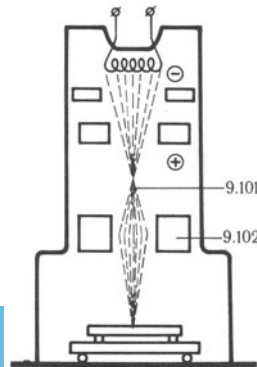


9.97 e plasma torch
 d Plasma(schweiss)brenner m
 f chalumeau m à plasma
 nl plasmabrandier m
 r плазменная горелка f
 (→9.96)

9.98 e plasma jet
 d Plasmastrahl m
 f jet m de plasma
 nl plasmastraal m, f
 r плазменная струя f
 (→9.96)

9.99 e orifice gas
 d Plasmagas n
 f gaz m de plasma
 nl plasmagas n, plasma-vormend gas
 r плазмообразующий газ m
 (→9.96)

9.100 e electron-beam welding
 d Elektronenstrahl-schweißen n
 f soudage m par rayons électronique

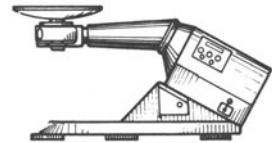


nl elektronenstraallassen n
 r электронно-лучевая сварка f

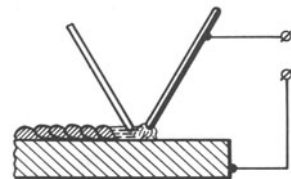
9.101 e electron beam
 d Elektronenstrahl m
 f rayon m électronique
 nl elektronestraal m, f
 r электронный луч m
 (→9.100)

9.102 e focusing coil
 d Fokussierungsspule f, Fokussierungslinse f
 f bobine f de focalisation [de concentration]
 nl focusseerspoel f(m)
 r фокусирующая катушка f
 (→9.100)

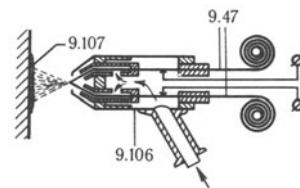
9.103 e welding positioner
 d Schweissmanipulator m
 f manipulateur m de soudage
 nl lasmanipulator m, laspositioneerinrichting f
 r сварочный манипулятор m



9.104 e surfacing [building up] by welding
 d Auftragschweißen n
 f rechargement m par soudure
 nl oplassen n
 r наплавка f



9.105 e metalizing, spray coating, thermal spraying
 d Metallspritzen n



9.105

f métallisation f (par projection)
 nl metalliseren n, metaalspuiten n
 r металлизация f (распылением)

9.106 e metal [thermal] spraying gun

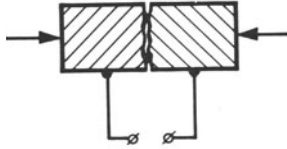
d Metallspritzpistole f
 f pistolet m à métalliser
 nl metaalspuitpistool n
 r металлизационный аппарат m, металлатор m (→9.105)

9.107 e sprayed metal coating, spray deposit

d Metallspritzüberzug m
 f couche f de métallisation
 nl opgedampte deklaag f(m)
 r напылённый слой m (→9.105)

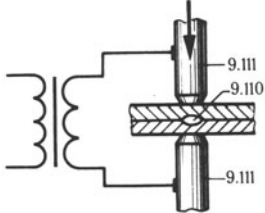
9.108 e resistance welding

d Widerstandsschweissen n
 f soudage m par résistance
 nl weerstandslassen n
 r контактная сварка f



9.109 e spot welding

d Punktschweissen n
 f soudage m par points
 nl (weerstands)puntlassen n
 r точечная (контактная) сварка f



9.110 e spot weld

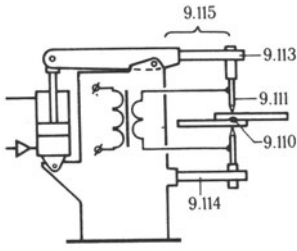
d Schweisspunkt m
 f point m de soudage
 nl puntlas f(m)
 r сварочная точка f (→9.109)

9.111 e spot-welding electrode, (spot)welding tip

d Punktschweisselektrode f
 f électrode f pour soudage par points
 nl puntlaselektrode f
 r электрод m для точечной сварки (→9.109)

9.112 e spot-welding machine, spot welder

d Punktschweissmaschine f
 f machine f à souder par points
 nl puntlasapparaat n
 r точечная (сварочная) машина f



9.113 e rocker arm

d Schwingarm m
 f bras m mobile de soudeuse
 nl beweegbare arm m
 r подвижный хобот m (→9.112)

9.114 e stationary arm

d fester Arm m
 f bras m immobile de soudeuse
 nl vaste arm m
 r неподвижный хобот m (→9.112)

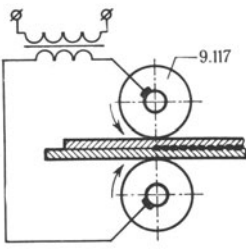
9.115 e throat

d Ausladung f
 f portée f
 nl werkbreedte f
 r вылет m (→9.112)

9.116 e seam welding

d Nahtschweissen n
 f soudage m à molette
 nl (rol)naadlassen n

г шовная [контактная] сварка f

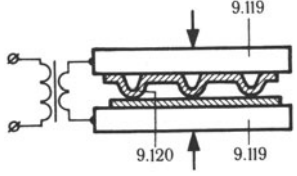


9.117 e welding disk, circular [roller] electrode

d Elektrodenrolle f, Rollenelektrode f
 f électrode f ronde
 nl rolelektrode f, schijf-elektrode
 r электрод-ролик m (→9.116)

9.118 e projection welding

d Buckelschweissen n
 f soudage m en relief
 nl doordruklassen n
 r рельефная сварка f



9.119 e electrode plate

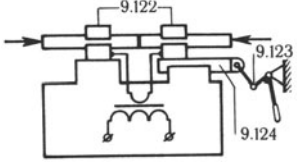
d Elektrodenplatte f
 f plaque f d'électrode
 nl elektrodeplaat f(m)
 r электродная плита f (→9.118)

9.120 e projection

d Buckel m
 f relief m
 nl uitsteeksel n, nop m
 r выступ m, рельеф m

9.121 e butt welding machine

d Stumpfschweissmaschine f
 f machine f pour soudage en bout

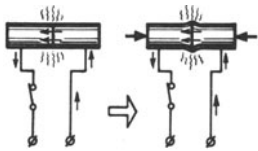


- nl stomplasmaapparaat n
 r машина f для стыковой сварки
- 9.122 e clamping mechanism, clamp
 d Einspanneinrichtung f, Einspannbacke f
 f dispositif m de serrage, serrage m
 nl spaninrichting f
 r зажимное устройство f, зажим m
 (→ 9.121)

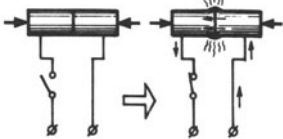
- 9.123 e feed and upsetting drive
 d Vorschub- und Stauchantrieb m
 f mécanisme m d'avancement et de tassement
 nl aanvoer- en stuikmechanisme n
 r механизм m подачи и осадки
 (→ 9.121)

- 9.124 e traveling plate
 d Fahrplatte f
 f plaque f mobile
 nl loopplaat f (m)
 r подвижная плита f
 (→ 9.121)

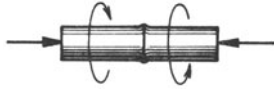
- 9.125 e flash welding
 d Abbrennstumpfschweißen n
 f soudage m en bout par étincelage
 nl afsmeltstomplassen n
 r стыковая сварка f оплавлением



- 9.126 e upset welding
 d Press-Stumpfschweißen n
 f soudage m en bout par résistance
 nl weerstandsstuiklassen n
 r стыковая сварка f сопротивлением

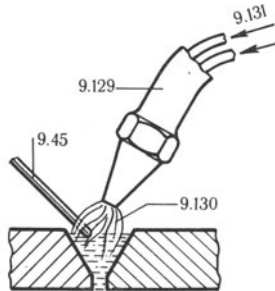


- 9.127 e friction welding
 d Reibschweißen n
 f soudage m par friction
 nl wrijvingslassen n
 r сварка f трением



Gas Welding
Gasschweißen
Soudage au gaz
Gaslassen
Газовая сварка

- 9.128 e (oxyfuel) gas welding
 d Gas(schmelz)schweißen n
 f soudage m au gaz
 nl gaslassen n, autogeenglassen
 r газовая сварка f



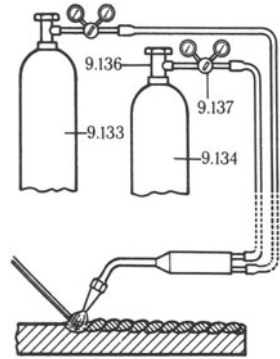
- 9.129 e welding torch
 d Schweißbrenner m
 f chalumeau m de soudage au gaz
 nl lasbrander m
 r горелка f для газовой сварки
 (→ 9.128)

- 9.130 e flame
 d Gasflamme f, Flamme
 f flamme f
 nl vlam v(m)
 r пламя n
 (→ 9.128)

- 9.131 e fuel gas
 d Brenngas n
 f gaz m combustible

- nl stookgas n
 r горючий газ m
 (→ 9.128)

- 9.132 e oxyacetylene welding
 d Azetylen-Sauerstoff-Schweißen n
 f soudage m oxyacétylénique
 nl oxyacetyleenlassen n
 r ацетилено-кислородная сварка f



- 9.133 e oxygen cylinder
 d Sauerstoffflasche f
 f bouteille f d'oxygène
 nl zuurstofcilinder m, n
 r кислородный баллон m
 (→ 9.132)

- 9.134 e acetylene cylinder
 d Azetylenflasche f
 f bouteille f d'acétylène
 nl acetyleencilinder m, n
 r ацетиленовый баллон m
 (→ 9.132)

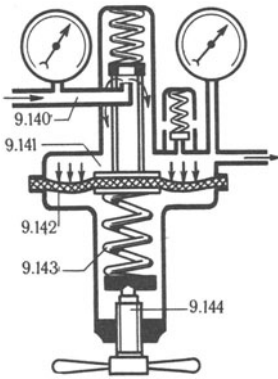
- 9.135 e acetylene (C₂H₂)
 d Azetylen n (C₂H₂)
 f acétylène m (C₂H₂)
 nl acetyleen n (C₂H₂)
 r ацетилен m (C₂H₂)
 (→ 9.145)

- 9.136 e cut-off valve
 d Flaschenventil n, Absperrventil
 f robinet m d'arrêt
 nl afsluitklep f(m)
 r запорный вентиль m
 (→ 9.132)

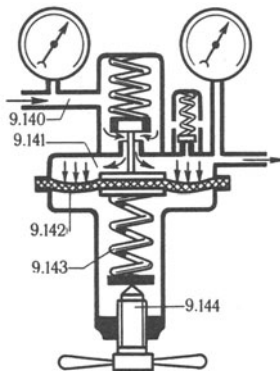
- 9.137 e pressure regulator
 d Druckminderer m, Druckminderventil n
 f régulateur m de pression

nl gasdrukregelaar m
r (газовый) редуктор m
(→ 9.132, 9.138, 9.139)

9.138 e nozzle-type pressure regulator
d gegen den Vordruck schliessender Druckminderer r
f régulateur m de pression à action directe
nl rechtstreeks [direct] werkende gasdrukregelaar m
r газовый редуктор m прямого действия



9.139 e stem-type pressure regulator
d mit dem Vordruck schliessender Druckminderer m
f régulateur m de pression à action inverse
nl terugwerkende gasdrukregelaar m
r газовый редуктор m обратного действия



9.140 e high pressure chamber
d Vordruckkammer f
f chambre f à haute pression
nl hogedrukkamer f(m)
r камера f высокого давления
(→ 9.138, 9.139)

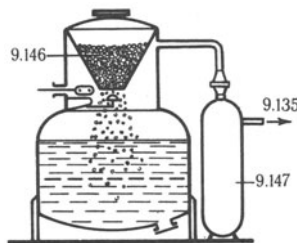
9.141 e low pressure chamber
d Hinterdruckkammer f
f chambre f à basse pression
nl lagedrukkamer f(m)
r камера f низкого давления
(→ 9.138, 9.139)

9.142 e diaphragme
d Membran n
f diaphragme m
nl membraan n, f(m)
r мембрана f
(→ 9.138, 9.139)

9.143 e adjustment spring
d Stellfeder f
f ressort m de réglage
nl regelveer f(m)
r регулировочная пружина f
(→ 9.138, 9.139)

9.144 e adjusting screw
d Stellschraube f
f vis f de réglage
nl regelschroef f(m)
r регулировочный винт m
(→ 9.138, 9.139)

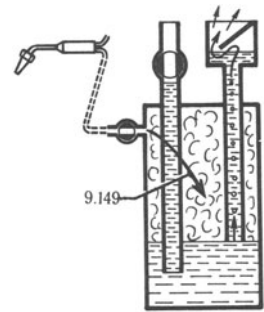
9.145 e acetylene generator
d Azetylen-Entwickler m
f générateur m d'acétylène
nl acetyleen(gas)generator m
r ацетиленовый генератор m



9.146 e calcium carbide (CaC₂)
d Kalziumkarbid n (CaC₂)
f carbure m de calcium(CaC₂)
nl calciumcarbide n (CaC₂)
r карбид m кальция (CaC₂)
(→ 9.145)

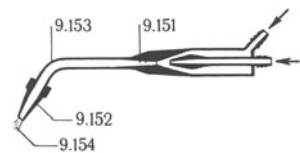
9.147 e back-flow check valve
d Sicherheitsvorlage f
f vanne f de garde
nl terugslagklep f (m)
r предохранительный затвор m
(→ 9.145, 9.148)

9.148 e hydraulic back-flow check valve
d Sicherheitswasservorlage f
f vanne f à joint hydraulique
nl hydraulische terugslagklep f (m)
r водяной предохранительный затвор m



9.149 e backfire, flashback
d Abknallen n, Flammeneintrückschlag m
f rentrée f [coup m] de flamme
nl terugslaan n van de vlam
r обратный удар m пламени
(→ 9.148)

9.150 e low-pressure [injector type] torch
d Saugbrenner m
f chalumeau m à basse pression [à injection]
nl lagedrukbrander m
r горелка f низкого давления, инжекторная горелка



9.151 e mixing chamber
d Mischkammer f
f chambre f de mélange

nl mengkamer f(m)
r смешительная камера f
(→ 9.150, 9.155)

9.152 e nozzle

d Schweißsdüse f

f nez m

nl mondstuk n

r мундштук m

(→ 9.150, 9.155)

9.153 e tip

d Mundstück n

f bout m

nl branderkop m, brander-

mondstuk n

r наконечник m

(→ 9.150, 9.155)

9.154 e fuel mixture

d Brenngasgemisch n

f mélange m carburé

nl brandstofmengsel n

r горячая смесь f

(→ 9.150, 9.155)

9.155 e medium-pressure [positive

pressure] type torch

d Gleichdruckbrenner m

f chalumeau m à haute

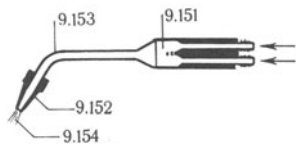
pression

nl hogedrukbrander m

r горелка f высокого дав-

ления, безыжкаторная

горелка



9.156 e forehand [leftward]
welding

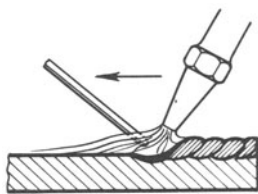
d Nachlinksschweissen n

f soudage m à gauche

nl linkslopend lassen n,

linklassen

r левая сварка f

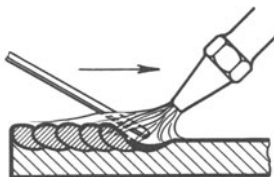


9.157 e backhand [rightward]
welding

d Nachrechtsschweissen n

f soudage m à droite

nl rechtslopend lassen n,
rechtlassen
r правая сварка f



9.158 e pressure gas welding

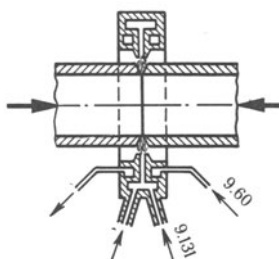
d Gaspress-Schweissen n

f soudage m autogène par

pression

nl gasdruklassen n

r газопрессовая сварка f



9.159 e thermit welding

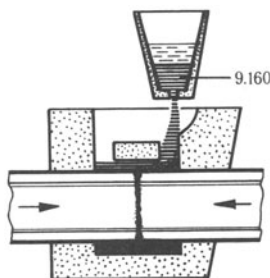
d luminothermisches

Schweissen n

f soudage m de thermit

nl thermietlassen n

r термитная сварка f



9.160 e thermit

d Thermit n

f thermite f

nl thermiet n

r термит m

(→ 9.159)

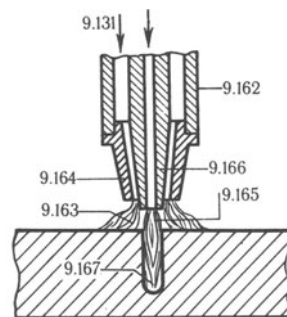
9.161 e oxygen [gas] cutting

d Brennschneiden n

f coupage m à l'oxygène

nl autogeensnijden n

r кислородная резка f



9.162 e cutting torch

d Schneidbrenner m

f chalumeau m de coupeur

nl snijbrander m

r резак m

(→ 9.161)

9.163 e preheating flame

d Heizflamme f

f flamme f de préchauffage

nl (voor)verwarmingsvlam

v(m)

r подогревательное [по-

догревающее] пламя n

(→ 9.161)

9.164 r preheating nozzle

d Heizdüse f

f nez m à préchauffage

nl (voor)verwarmingsmond-

stuk n

r подогревательный [на-

ружный] мундштук m

(→ 9.161)

9.165 e cutting oxygen

d Schneidsauerstoff m

f oxygène m de coupe

nl zuurstof f (m)

r режущий кислород m

(→ 9.161)

9.166 e cutting nozzle

d Schneiddüse f

f nez m de coupe

nl snijkop m, branderbek m

r режущий [внутренний]

мундштук m

(→ 9.161)

9.167 e kerf, cut

d Schnittfuge f

f coupure f

nl snede f(m)

r рез m

(→ 9.161)

9.168 e flame-cutting machine

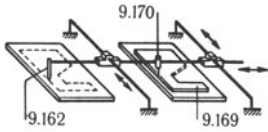
d Brennschneidemaschine f

f machine f d'oxycoupage

[de decoupage a gaz]

nl snijbrandermachine f

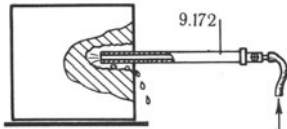
г машина f для кислородной резки, газорезательная машина



9.169 e templet, template
d Schablone f
f gabarit m
nl volger m, volginrichting f
г кофир m
(→ 9.168)

9.170 e magnetic tracer
d Magnetfühler m
f palpeur m magnétique
nl magnetische aftaster m
г магнитный (копирный) щуп m
(→ 9.168)

9.171 e oxygen lance cutting, oxygen lancing
d Schmelzbohren
f coupage m à l'oxygène
nl zuurstoflanssnijden n
г копьевая кислородная резка f



9.172 e oxygen lance
d Sauerstofflanze f
f lance f d'oxygène
nl zuurstoflans f (m)
г кислородное копьё n

Brazing and Soldering

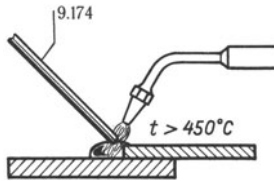
Löten

Brasage

Solderen

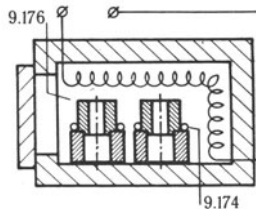
Пайка

9.173 e brazing
d Hartlöten n
f brasage m à haute température
nl hard solderen n, brezen n
г высокотемпературная пайка f



9.174 e brazing filler
d Hartlötzusatzwerkstoff m
f brasure f forte
nl hardsoldeer n, m
г твёрдый припой m
(→ 9.173)

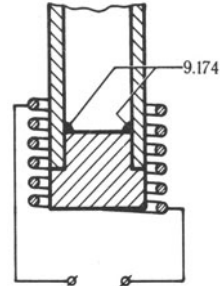
9.175 e furnace brazing
d Ofenhartlöten n
f brasage m au four
nl hardsolderen n in een oven
г печная пайка f, пайка в печи



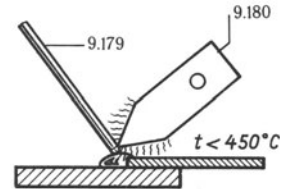
9.176 e controlled atmosphere
d kontrollierte Atmosphäre f
f atmosphère f contrôlée
nl gecontroleerde kunstmatige gasatmosfeer f (m)

г контролируемая атмосфера f
(→ 9.175)

9.177 e induction brazing
d Induktionshartlöten n
f brasage m par induction
nl hardsolderen n door inductie
г индукционная пайка f



9.178 e soldering
d Löten, Lötung
f brasage m à basse température
nl solderen n
г низкотемпературная пайка f

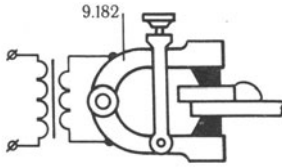


9.179 e solder
d Lot n
f brasure f tendre
nl zachtsoldeer n, m
г мягкий припой m
(→ 9.178)

9.180 e soldering iron
d Löteisen n, LötKolben m
f soudoir m
nl soldeerbout m
г паяльник m
(→ 9.178)

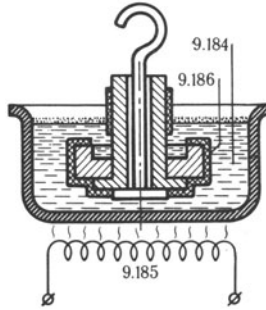
9.181 e resistance soldering
d Widerstandslöten n

f brasage m par résistance
nl weerstandssolderen n
r пайка f электросопротивлением



- 9.182 e soldering tongs
d Lötzange f
f pince f à braser
nl soldeertang f(m)
r паяльные клещи pl
(→ 9.181)
- 9.183 e dip soldering
d Tauchlöten n

f brasage m par immersion
nl dompelsolderen n
r пайка f погружением



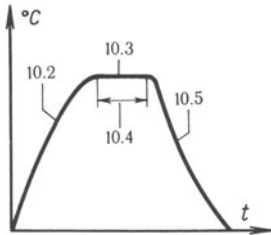
- 9.184 e molten solder
d Lötbad n
f brasure f en fusion

nl gesmolten soldeer n, m,
soldeerbad n
r расплавленный припой m
(→ 9.183)

- 9.185 e heating coil
d Heizspule f
f élément m chauffant
nl verwarmingsselement n,
verhittingselement
r нагревательный элемент m
(→ 9.183)
- 9.186 e protective paste
d Schutzpaste f
f pâte f de protection
nl beschermingspasta m, n
r предохранительная паста f
(→ 9.183)

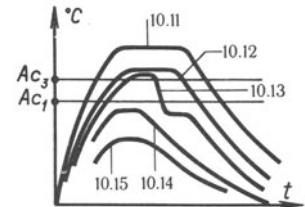
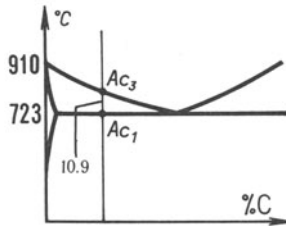
10. HEAT TREATMENT
WÄRMEBEHANDLUNG
TRAITEMENT THERMIQUE
WARMTEBEHANDELING
ТЕРМИЧЕСКАЯ ОБРАБОТКА

10.1 e heat treatment
 d Warmehandlung f
 f traitement m thermique
 nl warmtebehandeling f
 r термическая обработка f, термообработка



f temperature f critique (Ac_1 , Ac_3)
 nl transformatiepunt n (Ac_1 , Ac_3)
 r критическая температура f, критическая точка f (Ac_1 , Ac_3)

10.10 e annealing
 d Gluhen n
 f recuit m
 nl gloeien n, uitgloeien (gevolgt door langzame koeling)
 r отжиг m



10.2 e heating
 d Erwarmen n
 f chauffage m
 nl verwarmen n, verhitten n, verwarming f, verhitting f
 r нагрев m (→ 10.1)

10.3 e soaking out, equalizing
 d Warmhalten n, Halten
 f temporisation f
 nl warm (op een constante temperatuur) houden n
 r выдержка f (→ 10.1)

10.4 e soaking time
 d Haltedauer f
 f temps m de temporisation
 nl houdtijd m, opwarmtijd
 r время f выдержки (→ 10.1)

10.5 e cooling
 d Abkuhlen n
 f refroidissement m
 nl (af)koelen n, (af)koeling f
 r охлаждение n (→ 10.1)

10.6 e critical temperature [point]
 (Ac_1 , Ac_3)
 d Umwandlungstemperatur f, Haltepunkt m (Ac_1 , Ac_3)

10.7 e upper critical temperature (Ac_3)
 d obere Umwandlungstemperatur f, oberer Haltepunkt m (Ac_3)
 f temperature f critique de dessus (Ac_3)
 nl hoogste kritische temperatuur f (Ac_3)
 r верхняя критическая температура (Ac_3) (→ 10.6)

10.8 e lower critical temperature (Ac_1)
 d niedere Umwandlungstemperatur f, niederer Haltepunkt m (Ac_1)
 f temperature f critique de dessous (Ac_1)
 nl laagste kritische temperatuur f (Ac_1)
 r нижняя критическая температура f (Ac_1) (→ 10.6)

10.9 e transformation range
 d Umwandlungsbereich m
 f intervalle m de transformation

nl omzettingsgebied n, transformatiegebied
 r интервал m превращений (→ 10.6)

10.11 e diffusion annealing
 d Diffusionsgluhen n
 f recuit m de diffusion
 nl diffusiegloeien n
 r диффузионный отжиг m, гомогенизация f (→ 10.10)

10.12 e full annealing
 d Weichgluhen n
 f recuit m complet
 nl zachtgloeien n
 r полный отжиг m (→ 10.10)

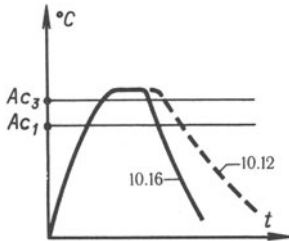
10.13 e isothermal [cycle] annealing
 d isothermisches Gluhen n
 f recuit m isotherme
 nl isothermisch gloeien n
 r изотермический отжиг m (→ 10.10)

10.14 e recrystallization annealing
 d Rekristallisationsgluhen n
 f recuit m de recrystallisation
 nl rekristallisatiegloeien n
 r рекристаллизационный отжиг m (→ 10.10)

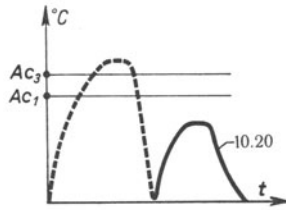
10.15 e stress relieving
 d Spannungsarmgluhen n
 f recuit m de detente
 nl spanningsvrijmaken n, spanningsvrijgloeien n

г низкий отжиг m
(→ 10.10)

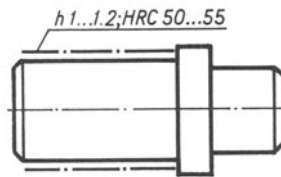
10.16 e normalizing
d Normalglühen n
f normalisation f
nl normaalgloeien n
г нормализация f



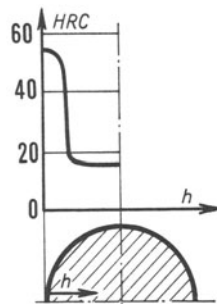
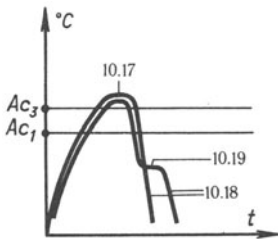
nl ontlaten n
г отпуск m



10.21 e surface [case] hardening
d Oberflächenhärten n
f trempe f superficielle
nl pakharden n
г поверхностная закалка f



10.17 e hardening
d Härten n
f trempe f
nl harden n
г закалка f



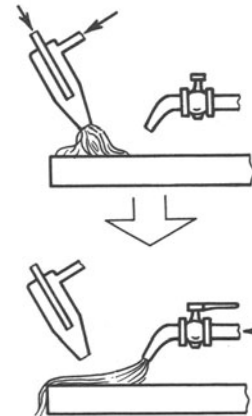
10.18 e quenching
d Abschrecken n
f refroidissement m brusque
nl afschrikken n
г резкое охлаждение n
(→ 10.17)

10.22 e induction hardening
d Induktionshärten n
f trempe f par induction
nl inductieharden n
г индукционная закалка f

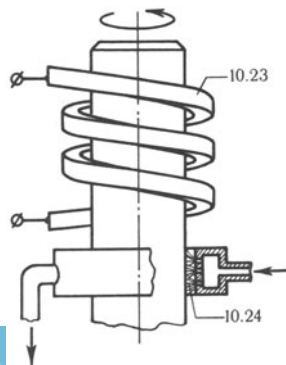
10.23 e induction coil
d Heizspule f, Heizschleife f
f inducteur m
nl inductor m
г индуктор m
(→ 10.22)

10.24 e water spray
d Wasserbrause f
f jet m d'eau
nl waterverstuiver m, waterspoeier m
г водяной душ m
(→ 10.22)

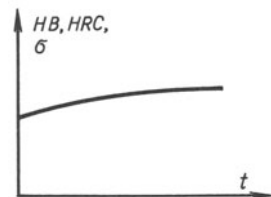
10.25 e flame hardening
d Flamm(en)härten n, Brenn-
härten
f trempe f au chalumeau
nl vlamharden n
г закалка f (с нагревом)
газовым пламенем, пла-
менная закалка



10.19 e isothermal hardening
d isothermisches Härten n,
Thermalhärten
f trempe f isotherme
nl isothermisch harden n
г изотермическая закалка f
(→ 10.17)



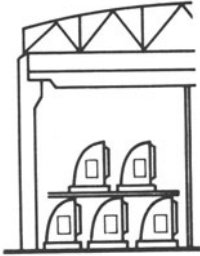
10.26 e ageing
d Alterung f, Altern n
f vieillissement m
nl verouderen n, veroudering f
г старение n



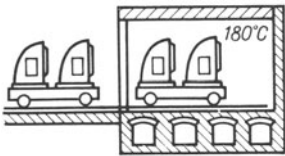
10.20 e tempering
d Anlassen n
f revenu m

10.27

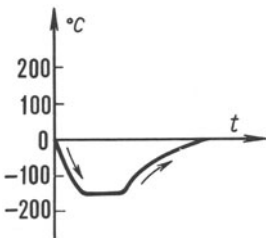
- 10.27 e natural ageing
 d natürliches Altern n
 f vieillissement m naturel
 nl natuurlijke veroudering f
 r естественное старение n



- 10.28 e artificial ageing
 d künstliches Altern n, Warmauslagern n
 f vieillissement m artificiel
 nl kunstmatige veroudering f
 r искусственное старение n

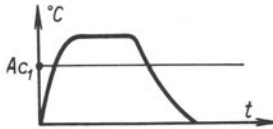
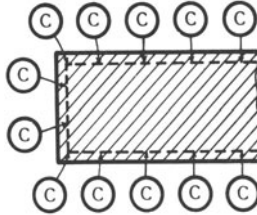


- 10.29 e sub-zero [cold] treatment
 d Tiefkühlen n
 f traitement m à froid [au-dessous de zéro degré]
 nl diepkoelen n
 r обработка f холодом, низкотемпературная обработка

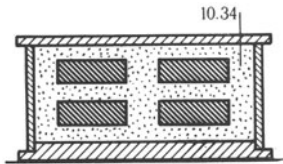


- 10.30 e carburizing
 d Aufkohlen n, Einsetzen n
 f cémentation f, carburation f

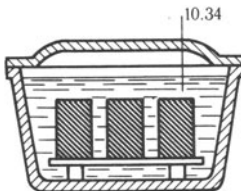
- nl cementeren n, carbureren n, inzetten n
 r цементация f, науглероживание n
 (→ 10.31 – 10.33)



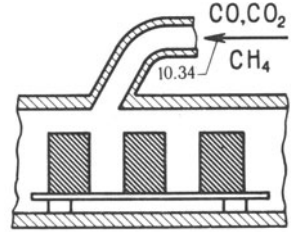
- 10.31 e pack carburizing
 d Pulveraufkohlung f
 f cémentation f par le carbone solide
 nl pakharden n
 r цементация f в твёрдом карбюризаторе



- 10.32 e liquid carburizing
 d Salzbadaufkohlung f
 f cémentation f liquide
 nl vloeistofcementeren n, zoutbadcementeren
 r жидкостная цементация f

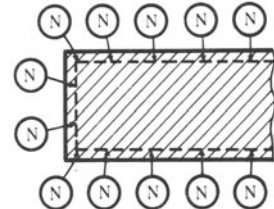


- 10.33 e gas carburizing
 d Gasaufkohlung f
 f cémentation f gazeuse
 nl gascarboniseren n
 r газовая цементация f



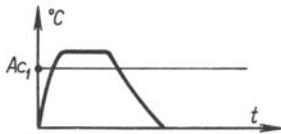
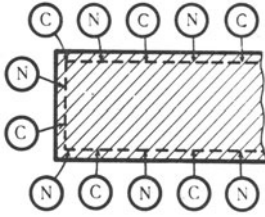
- 10.34 e carbonaceous medium
 d Aufkohlungsmittel n
 f agent m de cémentation
 nl cementeermiddel n
 r карбюризатор m
 (→ 10.31, 10.32, 10.33)

- 10.35 e nitriding
 d Nitrieren n, Nitrierhärten n, Aufsticken n
 f nitruration f, azoturation f
 nl nitreren n
 r азотирование n

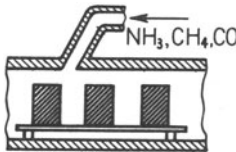
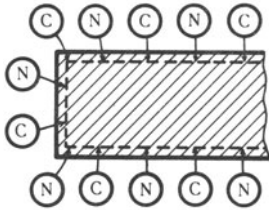


- 10.36 e cyaniding
 d Zyanbadnitrieren n, Zyanbadhärten n
 f cyanuration f

nl cyaniseren n
r цианирование n

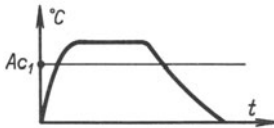
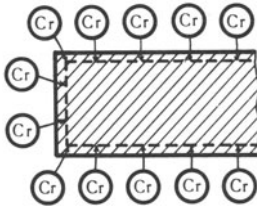


10.37 e carbonitriding
d Karbonitrieren n
f carbonituration f
nl carbonitreren n
r нитроцементация f



10.38 e chromizing
d Diffusionsverchromen n,
Verchromen

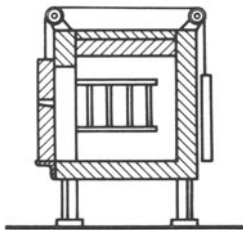
f chromisation f
nl diffusieverchromen n
r (диффузное) хромиро-
вание n



10.39 e heat-treating furnace
d Wärme(behandlungs)ofen m
f four m de traitement
nl hittebehandelingsoven m
r термическая [нагрева-
тельная] печь f
(→ 10.41, 10.42, 10.44,
10.45)

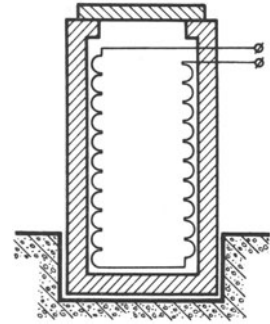
10.40 e batch furnace
d Einsatzofen m
f four m discontinu
nl inzetoven m
r печь f периодического
действия
(→ 10.41, 10.42)

10.41 e chamber furnace
d Kammerofen m
f four m à chambre
nl kameroven m
r камерная печь f



10.42 e pit furnace
d Schachtofen m
f four m à cuve

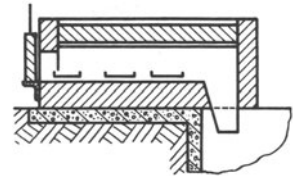
nl schachtoven m
r шахтная печь f



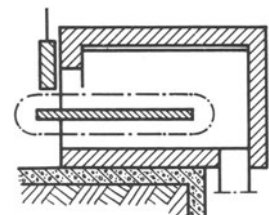
10.43 e continuous furnace
d Durchlaufofen m, Tun-
nelofen

f four m continu
nl doorschuifoven m, ka-
meroven
r печь f непрерывного
действия
(→ 10.44, 10.45)

10.44 e pusher-type furnace
d Stossofen m
f four m chargé par pou-
seuse
nl doorstootoven m
r толкательная печь f



10.45 e conveyor furnace
d Förderofen m
f four m à bande
nl oven m met transport-
band
r конвейерная печь f

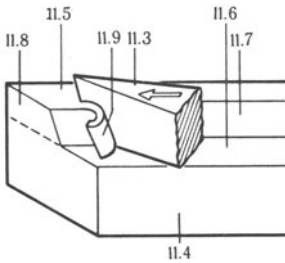


11. MACHINING
SPANENDE FORMUNG
**FAÇONNAGE PAR ENLÈ-
 VEMENT DE COPEAUX**
VERSPANENDE BEWERKING
ОБРАБОТКА РЕЗАНИЕМ

Cutting Process
Zerspanvorgang
Processus de coupage
Verspanen
Процесс резания

11.1 e machining
 d spanende Formung f
 f façonnage m par enlève-
 ment de copeaux
 nl verspanende bewerking f,
 verspanen n
 r обработка f резанием

11.2 e cutting
 d Zerspanen n
 f coupe f
 nl verspanen n, snijden n
 r резание n



11.3 e cutting tool
 d Schneidwerkzeug n
 f outil m coupant
 nl snijwerktuig n, snijbeitel
 m
 r режущий инструмент m
 (→ 11.2)

11.4 e workpiece
 d Werkstück n
 f pièce f à usiner
 nl werkstuk n
 r обрабатываемая деталь
 f, изделие n
 (→ 11.2)

11.5 e work surface
 d zu bearbeitende Fläche f
 f surface f à usiner
 nl te bewerken vlak n
 r обрабатываемая поверх-
 ность f
 (→ 11.2)

11.6 e machined surface
 d Nebenschnittfläche f
 f surface f usinée
 nl bewerkt vlak n
 r обработанная поверх-
 ность f
 (→ 11.2)

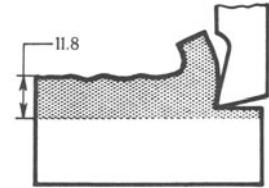
11.7 e transient surface
 d Hauptschnittfläche f
 f surface f à couper
 nl snijvlak n
 r поверхность f резания
 (→ 11.2)

11.8 e allowance for machining
 d Bearbeitungsaufmass n,
 Bearbeitungszugabe f,
 Aufmass, Zugabe
 f surépaisseur f d'usinage
 nl verspaningstoelag m
 r припуск m (под обра-
 ботку)
 (→ 11.2)

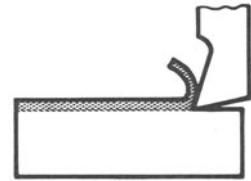
11.9 e chip
 d Span m
 f copeau m
 nl spaan f (m), krul f (m)
 r стружка f
 (→ 11.2)

11.10 e rough(ing) cut
 d Schruppschnitt m
 f passe f d'ébauche

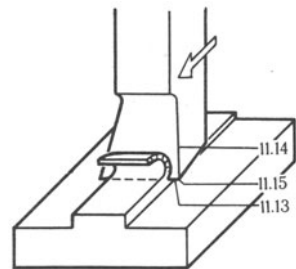
nl voorsnede n
 r черновой проход m



11.11 e finish(ing) cut
 d Schlichtschnitt m
 f passe f de finissage
 nl nasnijden n, nasteken n
 r чистовой проход m



11.12 e cutting edge
 d Schneide f
 f arête f de coupe
 nl snijkant f(m)
 r режущая кромка f

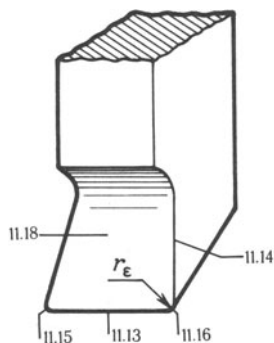


11.13 e major cutting edge
 d Hauptschneide f
 f arête f de coupe princi-
 pale

- nl hoofdsnijkant f(m)
 r главная режущая кромка f
 (→ 11.12, 11.16)
- 11.14 e minor cutting edge
 d Nebenschneide f
 f arête f de coupe secondaire [complémentaire]
 nl hulpsnijkant f(m)
 r вспомогательная режущая кромка f
 (→ 11.12, 11.16, 11.19)

- 11.15 e nose, corner
 d Schneidenecke f
 f bec m d'outil
 nl neus m
 r вершина f режущей кромки
 (→ 11.12, 11.16)

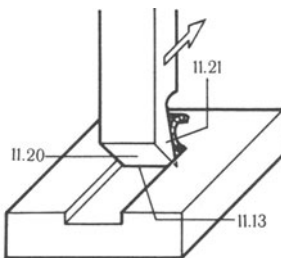
- 11.16 e rounded corner
 d Eckenrundung f
 f arrondi m de bec
 nl afgeronde neus m
 r закругление n вершины



- 11.17 e corner radius (r_ϵ)
 d Radius m der Eckenrundung (r_ϵ)
 f rayon m d'arrondi de bec (r_ϵ)
 nl afrondingsstraal m van de neus
 r радиус m закругления вершины (r_ϵ)
 (→ 11.16)

- 11.18 e face
 d Spanfläche f
 f face f d'attaque [de coupe]
 nl spaanvlak n
 r передняя поверхность f
 (→ 11.16)

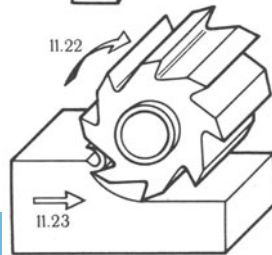
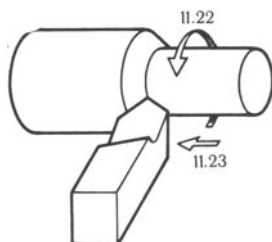
- 11.19 e flank
 d Freifläche f
 f face f de dépouille
 nl vrijloopvlak n
 r задняя поверхность f



- 11.20 e major flank
 d Hauptfreifläche f
 f face f de dépouille principale
 nl hoofdrijloopvlak n
 r главная задняя поверхность f
 (→ 11.19)

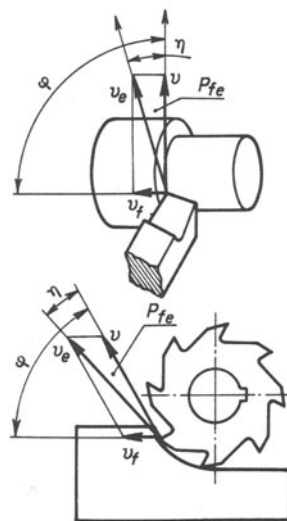
- 11.21 e minor flank
 d Nebenfreesfläche f
 f face f de dépouille complémentaire
 nl hulpvrijloopvlak n
 r вспомогательная задняя поверхность f
 (→ 11.19)

- 11.22 e primary [cutting] motion
 d Schnittbewegung f
 f mouvement m principal [de coupe]
 nl snijbeweging f
 r главное движение n (резания)



- 11.23 e feed motion
 d Vorschubbewegung f
 f mouvement m d'avance
 nl voedingsbeweging f
 r движение n подачи
 (→ 11.22)

- 11.24 e working plane (P_{fe})
 d Arbeitsfläche f (P_{fe})
 f plan m de travail (P_{fe})
 nl werkvlak n (P_{fe})
 r рабочая плоскость f, плоскость движения (P_{fe})



- 11.25 e cutting speed (v)
 d Schnittgeschwindigkeit f (v)
 f vitesse f de coupe (v)
 nl snijsnelheid f (v)
 r скорость f (главного движения) резания (v)
 (→ 11.24)

- 11.26 e feed speed (v_f)
 d Vorschubgeschwindigkeit f (v_f)
 f vitesse f d'avance (v_f)
 nl aanzetsnelheid f (v_f)
 r скорость f (движения) подачи (v_f)
 (→ 11.24)

- 11.27 e feed motion angle (φ)
 d Vorschubrichtungswinkel m (φ)
 f angle m de direction d'avance (φ)
 nl voedingshoek m (φ)
 r угол m движения подачи (φ)
 (→ 11.24)

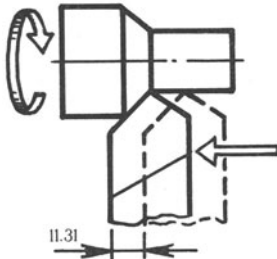
11.28

11.28 e resultant cutting speed (v_e)
 d Wirkgeschwindigkeit f (v_e)
 f vitesse f résultante de coupe (v_e)
 nl resulterende [totale] snij-snelheid (v_e)
 r скорость f результирующего движения резания (v_e)
 (→ 11.24)

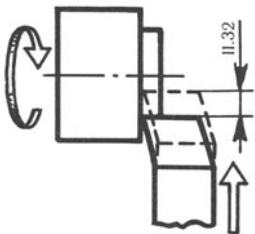
11.29 e resultant cutting speed angle (η)
 d Wirkrichtungswinkel m (η)
 f angle m de direction résultante de coupe (η)
 nl resulterende snijsnelheidshoek m (η)
 r угол m скорости резания (η)
 (→ 11.24)

11.30 e feed
 d Vorschub m
 f avance f
 nl voeding f
 r подача f
 (→ 11.31 – 11.35)

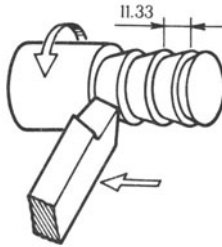
11.31 e longitudinal feed
 d Längsvorschub m
 f avance f longitudinale
 nl langsvoeding f
 r продольная подача f



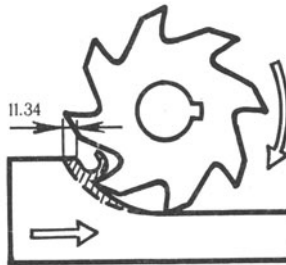
11.32 e cross feed
 d Quervorschub m
 f avance f transversale
 nl dwarsvoeding f
 r поперечная подача f



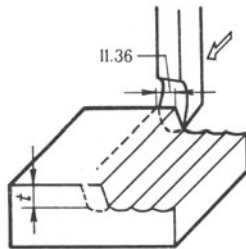
11.33 e feed per revolution
 d Umdrehungsvorschub m
 f avance f par tour
 nl voeding f per omwenteling
 r подача f на оборот



11.34 e feed per tooth
 d Zahnvorschub m
 f avance f par dent
 nl voeding f per tand
 r подача f на зуб



11.35 e intermittent feed
 d schrittweiser [ruckweiser] Vorschub m
 f avance f intermittente
 nl intermitterende voeding f
 r прерывистая подача f

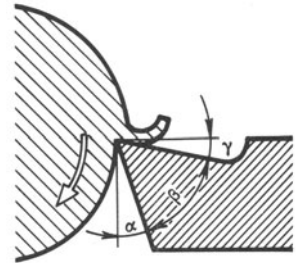


11.36 e feed per double stroke
 d Doppelhubvorschub m
 f avance f par course double
 nl voeding f per dubbele slag
 r подача f на двойной ход
 (→ 11.35)

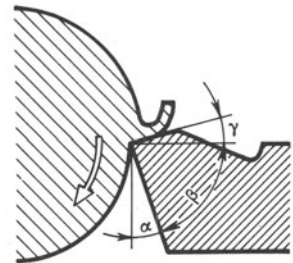
11.37 e depth of cut, back engagement (t)
 d Schnitttiefe f (t)
 f profondeur f de coupe (t)
 nl snijdiepte f (t)
 r глубина f резания (t)
 (→ 11.35)

11.38 e rake (γ)
 d Spanwinkel m (γ)
 f angle m de dégageant [de coupe] (γ)
 nl spaanhoek m (γ)
 r передний угол m (γ)
 (→ 11.39, 11.40)

11.39 e positive rake (γ)
 d positiver Spanwinkel m (γ)
 f angle m de dégageant [de coupe] positif (γ)
 nl positieve spaanhoek m (γ)
 r положительный передний угол m (γ)

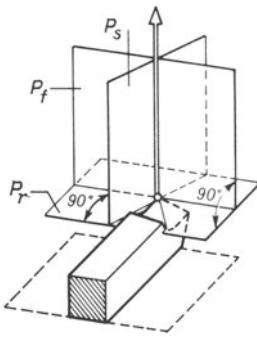


11.40 e negative rake (γ)
 d negativer Spanwinkel m (γ)
 f angle m de dégageant [de coupe] négatif (γ)
 nl negatieve spaanhoek m (γ)
 r отрицательный передний угол m (γ)



11.41 e clearance, relief [backoff] angle (α)
 d Freiwinkel m (α)
 f angle m de dépouille, dépouille f (α)

- nl vrijloophoek m (α)
- r задний угол m (α)
(→ 11.39, 11.40)
- 11.42 e wedge angle (β)
- d Keilwinkel m (β)
- f angle m de tranchant
[de taillant] (β)
- nl wighoek m (β)
- r угол m заострения (β)
(→ 11.39, 11.40)
- 11.43 e tool-in-hand system
- d Werkzeug-Bezugssystem n
- f système m d'outil en main
- nl gereedschapsreferentie-systeem n
- r инструментальная система f координат

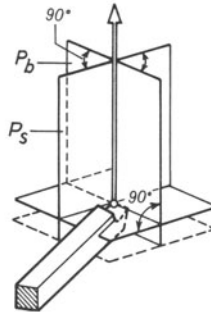


- 11.44 e tool reference plane (P_r)
- d Werkzeug-Bezugsebene f (P_r)
- f plan m de référence d'outil (P_r)
- nl hoofdreferentievlak n van het gereedschap (P_r)
- r инструментальная основная плоскость f (P_r)
(→ 11.43)

- 11.45 e assumed working plane (P_f)
- d angenommene Arbeitsebene f (P_f)
- f plan m de travail conventionnel (P_f)
- nl aangenomen [verondersteld] arbeidsvlak n (P_f)
- r предполагаемая [принятая] рабочая плоскость f (P_f)
(→ 11.43)

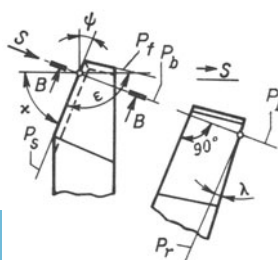
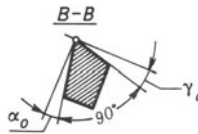
- 11.46 e tool cutting edge plane (P_s)
- d Werkzeug-Schneidenebene f (P_s)
- f plan m d'arête d'outil (P_s)

- nl gereedschapssnijvlak n (P_s)
- r плоскость f резания (P_s)
(→ 11.43)
- 11.47 e tool flank orthogonal plane (P_b)
- d Keilmessebene f, Werkzeug-Orthogonalebene f (P_b)
- f plan m orthogonal de face de dépouille (P_b)
- nl hoofdzijvlak n (P_b)
- r инструментальная секущая плоскость f (P_b)



- 11.48 e tool angle
- d Werkzeugwinkel m
- f angle m d'outil
- nl beitelhoek m
- r угол m режущей кромки (в инструментальной системе координат)
(→ 11.49, 11.59)

- 11.49 e tool orthogonal rake (γ_o)
- d Werkzeug-Orthogonal-Spanwinkel m (γ_o)
- f angle m de coupe orthogonal d'outil (γ_o)
- nl hoofdspaanhoek m (γ_o)
- r инструментальный главный передний угол m (γ_o)



- 11.50 e tool orthogonal clearance (α_o)
- d Werkzeug-Orthogonal-Freiwinkel m (α_o)
- f dépouille f orthogonal d'outil (α_o)
- nl hoofdvrijloophoek m (α_o)
- r инструментальный задний угол m (α_o)
(→ 11.49)

- 11.51 e tool included angle (ϵ)
- d Werkzeug-Eckenwinkel m (ϵ)
- f angle m de pointe d'outil (ϵ)
- nl tophoek m (ϵ)
- r угол m при вершине (ϵ)
(→ 11.49)

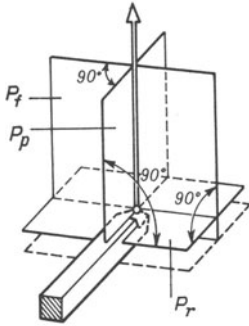
- 11.52 e tool cutting edge angle (α)
- d Werkzeug-Einstellwinkel m (α)
- f angle m de direction d'arête d'outil (α)
- nl stelhoek m, snijkantshoek (α)
- r инструментальный угол m в плане (α)
(→ 11.49)

- 11.53 e tool lead [approach] angle (ψ)
- d Werkzeug-Einstellergänzungswinkel m (ψ)
- f angle m de direction complémentaire d'outil (ψ)
- nl snijkanthoek m (ψ)
- r угол m, дополнительный к инструментальному главному углу в плане (ψ)
(→ 11.49)

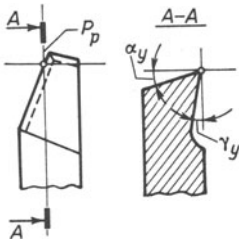
- 11.54 e tool cutting edge inclination (λ)
- d Werkzeug-Neigungswinkel m (λ)
- f angle m d'inclinaison d'arête d'outil (λ)
- nl snijkantshellingshoek m (λ)
- r инструментальный угол m наклона кромки (λ)
(→ 11.49)

11.55

- 11.55 e back plane (P_p)
 d Rückebene f (P_p)
 f plan m vers arrière d'outil (P_p)
 nl axiaal vlak n (P_p)
 r осевая плоскость f (P_p)



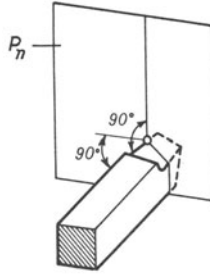
- 11.56 e back rake (γ_y)
 d Rückspanwinkel m (γ_y)
 f angle m de coupe vers arrière d'outil (γ_y)
 nl spaanhoek m (γ_y)
 r осевой передний угол m (γ_y)



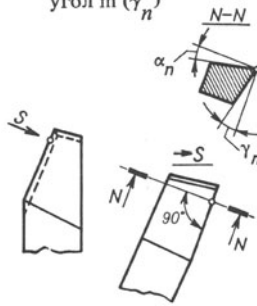
- 11.57 e back clearance (α_y)
 d Rückfreiwinkel m (α_y)
 f dépouille f vers arrière d'outil (α_y)
 nl vrijloophoek m (α_y)
 r осевой задний угол m (α_y)
 (→ 11.56)

- 11.58 e cutting edge normal plane (P_n)
 d Schneiden-Normalebene f (P_n)
 f plan m normal d'arête (P_n)
 nl normaalsnijvlak n (P_n)

- r нормальная секущая плоскость f (P_n)

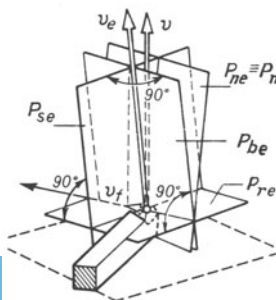


- 11.59 e tool normal rake (γ_n)
 d Werkzeug-Normal-Spanwinkel m (γ_n)
 f angle m de coupe normal d'outil (γ_n)
 nl normaalspaanhoek m (γ_n)
 r нормальный передний угол m (γ_n)



- 11.60 e tool normal clearance (α_n)
 d Werkzeug-Normal-Freiwinkel m (α_n)
 f dépouille f normale d'outil (α_n)
 nl normaalvrijloophoek m (α_n)
 r нормальный задний угол m (α_n)
 (→ 11.59)

- 11.61 e tool-in-use system
 d Wirk-Bezugssystem n



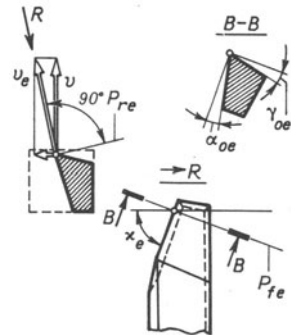
- f système m d'outil en travail
 nl arbeidssysteem n
 r кинематическая система f координат

- 11.62 e working reference plane (P_{re})
 d Wirk-Bezugsebene f (P_{re})
 f plan m de référence en travail (P_{re})
 nl arbeidsbasisvlak n (P_{re})
 r кинематическая основная плоскость f (P_{re})
 (→ 11.61)

- 11.63 e working cutting edge plane (P_{se})
 d Wirk-Schneidenebene f (P_{se})
 f plan m d'arête en travail (P_{se})
 nl arbeidssnijvlak n (P_{se})
 r кинематическая плоскость f резания (P_{se})
 (→ 11.61)

- 11.64 e working orthogonal plane (P_{be})
 d Wirk-Orthogonalebene f (P_{be})
 f plan m orthogonal en travail (P_{be})
 nl arbeidsorthogonaalvlak n (P_{be})
 r кинематическая главная секущая плоскость f (P_{be})
 (→ 11.61)

- 11.65 e working orthogonal rake (γ_{oe})
 d Wirk-Orthogonal-Spanwinkel m (γ_{oe})

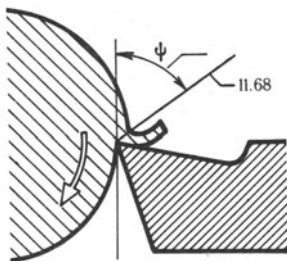


f angle m de coupe orthogonale en travail (γ_{oe})
 nl arbeidsorthogonaal spaanhoek m (γ_{oe})
 r кинематический главный передний угол m (γ_{oe})

11.66 e working orthogonal clearance (α_{oe})
 d Wirk-Orthogonal-Freiwinkel m (α_{oe})
 f dépouille f orthogonale en travail (α_{oe})
 nl arbeidsorthogonaal vrijloophoek m (α_{oe})
 r кинематический главный задний угол m (α_{oe})
 (→ 11.65)

11.67 e working cutting edge angle (χ_e)
 d Werk-Einstellwinkel m (χ_e)
 f angle m de direction d'arête en travail (χ_e)
 nl arbeidsnijkantshoek m (χ_e)
 r угол m в плане (χ_e)
 (→ 11.65)

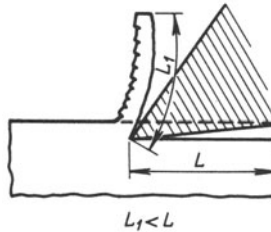
11.68 e shear plane
 d Scherebene f
 f plan m de cisaillement
 nl schuifvlak n
 r плоскость f сдвига



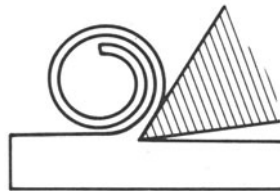
11.69 e shear angle (ψ)
 d Scherwinkel m (ψ)
 f angle m de cisaillement (ψ)
 nl afschuivingshoek m (ψ)
 r угол m, дополнительный к углу сдвига (ψ)
 (→ 11.68)

11.70 e chip contraction
 d Spanstauchung f
 f retrait m de copeau

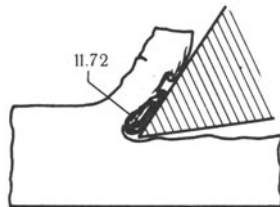
nl inscheuren n en opstuiten n van de spaan
 r усадка f стружки



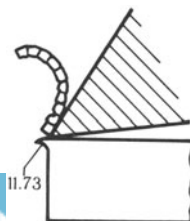
11.71 e continuous chip
 d Fliessspan m
 f copeaux m pl continus
 nl lintspaан f (m)
 r сливная стружка f



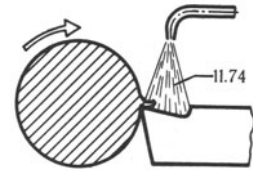
11.72 e built-up edge
 d Aufbauschniede f, Schneidenansatz m
 f arête f "rapportée"
 nl valse snijkant m
 r нарост m



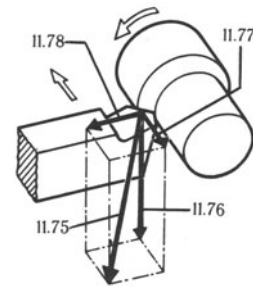
11.73 e burr
 d Grat m
 f ébarbure f
 nl baard m, braam f(m)
 r заусенец m



11.74 e cutting fluid, coolant
 d Schneidflüssigkeit f
 f fluide m de coupe
 nl snijolie f(m), koelvloeistof f(m)
 r (смазочно-) охлаждающая жидкость f



11.75 e cutting force
 d Schnittkraft f
 f force f de coupe
 nl snijkraft f(m)
 r сила f резания



11.76 e tangential component of cutting force
 d Hauptschnittkraft f
 f composante f tangentielle de force de coupe
 nl hoofdsnijkraft f (m)
 r касательная [главная] составляющая f силы резания
 (→ 11.75)

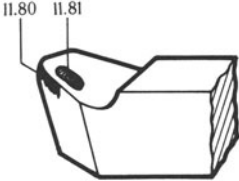
11.77 e axial component of cutting force
 d Axialschnittkraft f
 f composante f axiale de force de coupe
 nl voedingskracht f (m)
 r осевая составляющая f силы резания
 (→ 11.75)

11.78 e radial component of cutting force
 d Radialschnittkraft f
 f composante f radiale de force de coupe

11.78

nl schachtkracht f (m)
 r радиальная составляющая
 f силы резания
 (→ 11.75)

11.79 e tool wear
 d Werkzeugverschleiss m
 f usure f d'outil
 nl beitelslijtage f
 r износ m инструмента



11.80 e (flank) wear land
 d Verschleissmarke f
 f chanfrein m d'usure (en
 dépouille)

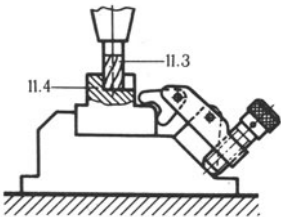
nl afslijtingszone f
 r фаска f [ленточка f]
 износа (задней поверхно-
 сти)
 (→ 11.79)

11.81 e wear crater
 d Kolk m
 f cavité f d'usure
 nl kolk m, f
 r лунка f износа
 (→ 11.79)

11.82 e tool life
 d Standzeit f
 f durée f d'outil
 nl standtijd m
 r стойкость f (инструмен-
 та)

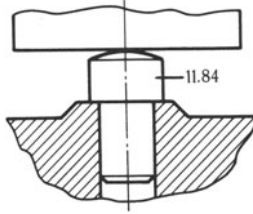
Fixtures
Vorrichtungen
Dispositifs
Opspanoestellen
Приспособления

11.83 e fixture
 d Vorrichtung f

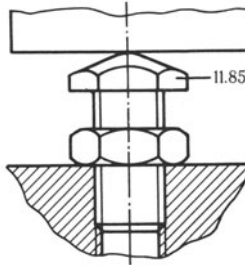


f dispositif m (d'ablocage)
 nl spaninrichting f, opspan-
 blok n
 r (зажимное) приспособо-
 ление n

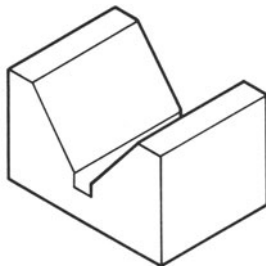
11.84 e fixed support
 d feste Stütze f
 f appui m fixe
 nl vaste oplegging f
 r постоянная опора f



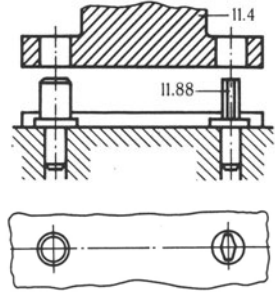
11.85 e adjustable support
 d einstellbare Stütze f, Stütz-
 schraube f
 f appui m réglable
 nl (ver)stelbare oplegging f
 r регулируемая опора f



11.86 e V-block
 d Aufnahmeprisma n
 f prisme m en V
 nl V-blok n, prismablok
 r установочная призма f

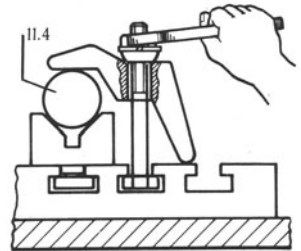


11.87 e locating pin
 d Aufnahmebolzen m
 f doigt m de dégauchissage
 nl stelstift f (m), richtpen
 f (m)
 r установочный палец m



11.88 e diamond pin
 d abgeflachter Bolzen m
 f doigt m diamantaire
 nl spitse pen f (m)
 r срезанный палец m

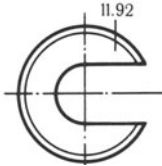
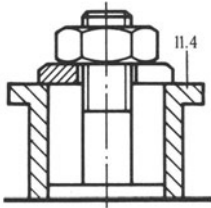
11.89 e clamping
 d Spannen n, Aufspannen
 f serrage m
 nl opspannen n
 r закрепление n, зажим m



11.90 e clamping device
 d Spanneinrichtung f, Werk-
 stückspanner m
 f dispositif m de serrage
 nl (op)spaninrichting f, klem-
 inrichting
 r зажимное устройство n
 (→ 11.91, 11.93, 11.94,
 11.96, 11.98)

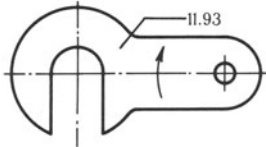
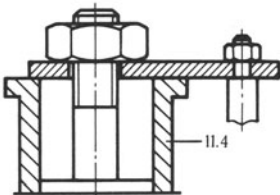
11.91 e screw clamp
 d Schraubspanner m
 f pince f à vis

nl schroefklem f(m)
r винтовой зажим m

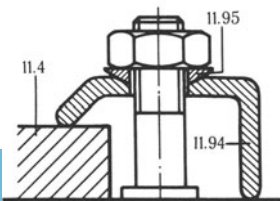


11.92 e slotted washer
d Vorsteckscheibe f
f rondelle f fendue
nl open onderlegplaat f(m)
r разрезная шайба f
(→ 11.91)

11.93 e swinging clamp
d Schwenkspannleiste f
f bride f pivotante de serrage
nl zwenkbare opspanplaat f(m)
r откидная зажимная планка f



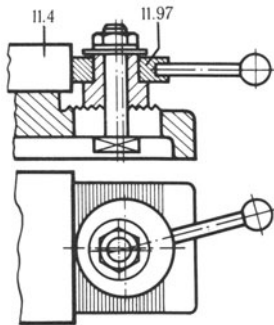
11.94 e strap clamp
d Spanneisen n



f bride f de serrage
nl spankikker m
r прихват m

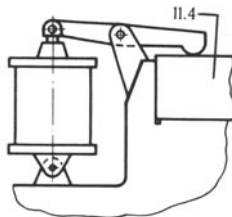
11.95 e spherical washer
d Kugelscheibe f
f rondelle f sphérique
nl kogelschijf f(m)
r сферическая шайба f
(→ 11.94)

11.96 e eccentric clamp
d Spannexzenter m
f pince f en excentrique
nl excentriekspraninrichting f
r эксцентриковый зажим m



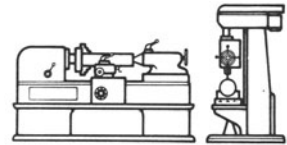
11.97 e eccentric
d Exzenter m
f excentrique m
nl excentriek n
r эксцентрик m
(→ 11.96)

11.98 e air-operated clamping device
d pneumatische Spanneinrichtung f
f dispositif m de serrage pneumatique
nl pneumatische spaninrichting f
r пневматическое зажимное устройство n

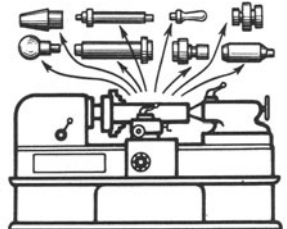


Automation Automatisieren Automatisation Automatisatie Автоматизация

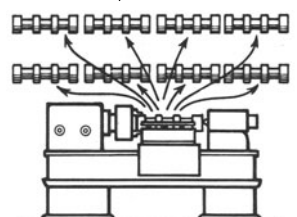
11.99 e (metal-cutting) machine tool
d Werkzeugmaschine f
f machine-outil f (travaillant par enlèvement de métal)
nl werktuigmachine f, gereedschapsmachine
r (металлорежущий) станок m



11.100 e universal machine (tool)
d Universal-Werkzeugmaschine f
f machine-outil f universelle
nl universele gereedschapsmachine f
r универсальный станок m



11.101 e special machine (tool)
d Special-Werkzeugmaschine f
f machine-outil f spéciale
nl speciale gereedschapsmachine f
r специальный станок m



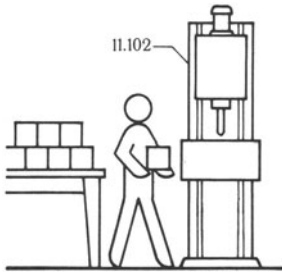
11.102

- 11.102 e semi-automatic machine (tool)
 d halbautomatische Werkzeugmaschine f
 f machine-outil f semi-automatique
 nl halfautomatische gereedschapsmachine f
 r (станок-) полуавтомат m

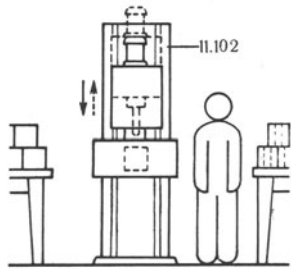
- 11.103 e loading
 d Beschickung f, Beladen n, Laden
 f chargement m
 nl laden, werkstuk inleggen
 r загрузка f
 (→ 11.106, 11.108)

- 11.104 e unloading
 d Entladen n
 f déchargement m
 nl werkstuk afnemen
 r разгрузка f
 (→ 11.107, 11.108)

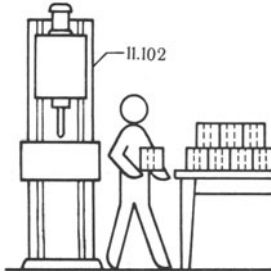
- 11.105 e hand [manual] loading
 d Handbeschickung f, Hand(be)laden n
 f chargement m à la main
 nl inleggen n met de hand
 r ручная загрузка f



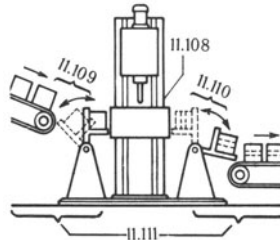
- 11.106 e semi-automatic cycle
 d halbautomatischer Arbeitsablauf m
 f cycle m semi-automatique
 nl halfautomatische arbeidscyclus m



- r полуавтоматический цикл m (работы)
 (→ 11.104)
 11.107 e hand [manual] unloading
 d Handentladen n
 f déchargement m à la main
 nl werkstuk met de hand afnemen
 r ручная разгрузка f



- 11.108 e automatic machine (tool)
 d automatische Werkzeugmaschine f
 f machine-outil f automatique
 nl automatische gereedschapsmachine f
 r (станок-) автомат m



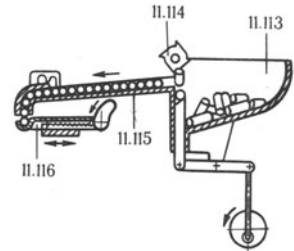
- 11.109 e automatic loading
 d automatische Beschickung f, automatisches Laden n
 f chargement m automatique
 nl automatisch laden n
 r автоматическая загрузка f
 (→ 11.108)

- 11.110 e automatic unloading
 d automatisches Entladen n
 f déchargement m automatique
 nl automatisch ontladen n
 r автоматическая разгрузка f
 (→ 11.108)

- 11.111 e automatic loading-unloading device

- d automatische Ladeeinrichtung f [Beschickungseinrichtung]
 f mécanisme m de chargement-déchargement automatique
 nl automatische laad-en ontlaadinrichting f
 r механизм m автоматической загрузки-разгрузки
 (→ 11.108)

- 11.112 e hopper-type loading device
 d Bunkerladeeinrichtung f
 f dispositif m de chargement à trémie
 nl laadinrichting f van hoppers type
 r бункерное загрузочное устройство n



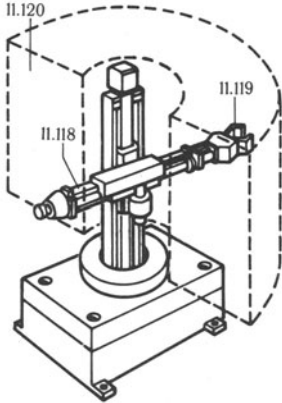
- 11.113 e hopper, supply bin
 d Bunker m
 f trémie f
 nl hopper m, vultrechter m, stortrechter
 r бункер m
 (→ 11.112)

- 11.114 e separator
 d Werkstückvereinzler m, Werkstücksperre f
 f arrêt m
 nl werkstukafscheider m
 r отсекагель m
 (→ 11.112)

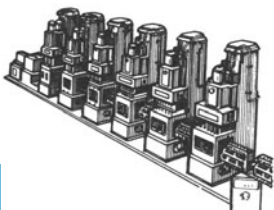
- 11.115 e chute
 d Rutsche f, Rinne f
 f auge f
 nl transportgoot f (m)
 r лоток m
 (→ 11.112)

- 11.116 e feeder
 d Speiservorrichtung f
 f alimentateur m
 nl voedingsinrichting f
 r питатель m
 (→ 11.112)

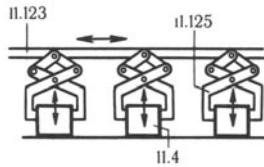
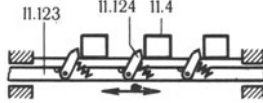
- 11.117 e manipulator
d Manipulator m
f manipulateur m
nl hanteringsinrichting f
r манипулятор m



- 11.118 e arm
d Arm m
f bras m mécanique
nl arm m
r рука f
(→ 11.117)
- 11.119 e gripper
d Greifer m
f pince f de manipulateur
nl grijper m
r захват m (манипулятора), схват m
(→ 11.117)
- 11.120 e operating range
d Arbeitsbereich m
f zone f de travail
nl actieradius m
r зона f обслуживания (манипулятора)
(→ 11.117)
- 11.121 e transfer line
d Transferstrasse f
f chaîne f de fabrication automatique



- nl toevoerautomaat m, automatische produktielijn f(m)
r автоматическая линия f
- 11.122 e step-by-step conveyor
d Schrittförderer m
f transporteur m pas à pas
nl staptransporteur m
r шаговый транспортёр m

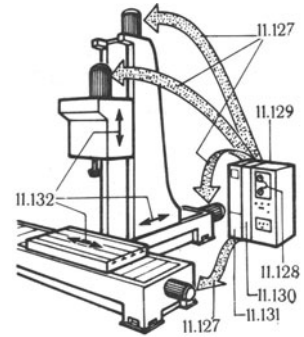


- 11.123 e transfer bar
d Förderstange f, Transferstange, Taktstange
f barre f d'avance
nl toevoerstang f(m)
r транспортная [подающая] штанга f
(→ 11.122)
- 11.124 e transfer finger
d Förderklinke f
f cliquet m d'avance
nl pal m
r собачка f
(→ 11.122)
- 11.125 e clamp hook
d Greiferzange f
f pince f à grappin
nl klemhaak m
r рейферный захват m
(→ 11.122)

Numerical Control
Numerische Steuerung
Contrôle numérique
Numerieke besturing
Числовое программное управление

- 11.126 e numerical control
d numerische Steuerung f
f contrôle m numérique

- nl numerieke besturing f
r числовое программное управление n



- 11.127 e control program(me)
d Steuerprogramm n
f programme m de contrôle
nl stuurprogramma n, besturingsprogramma
r управляющая программа f
(→ 11.126)
- 11.128 e input medium, control tape
d Informationsträger m
f bande f de contrôle
nl besturingsband m
r программноноситель m
(→ 11.126)
- 11.129 e program controller [control unit]
d Programmsteuerung(ssystem) f (n)
f système m de contrôle numérique
nl numerieke-besturingseenheid f
r устройство n числового программного управления
(→ 11.126)
- 11.130 e interface
d Anpassteil m
f interface f
nl interface f (m)
r интерфейс m
(→ 11.126)
- 11.131 e servocontroller
d Starkstromteil m
f système m asservi
nl servobediening f, servo-system n

11.131

- r электроавтоматика f
(→ 11.126)
- 11.132 e tape-controlled axis
d gesteuerte [programmierbare] Achse f
f axe m de contrôle
nl regelbare beweging f
r программируемая ось f
(→ 11.126)
- 11.133 e coding
d Codieren n, Kodieren n
f codification f
nl coderen n
r кодирование n
- 11.134 e input information
d Eingabeinformation f
f information f d'entrée
nl invoergegevens n pl
r исходная [входная] информация f
(→ 11.133)
- 11.135 e alphanumeric code
d alphanumerischer Code m [Kode]
f code m alphanumérique
nl alfanumerieke code m

- r буквенно-цифровой код m
(→ 11.133)
- 11.136 e punching
d Lochung f, Stanzen n, Stanzung f
f perforation f
nl ponsen n, ponsbandponsen
r запись f на перфоленту, набивка f [пробивка f] перфоленты, перфорация f

- 11.137 e tape punch [perforator]
d Lochbandlocher m, Lochstreifenstanzer m, Lochstreifenlocher
f perforateur m pour bande
nl ponsbandponser m
r ленточный перфоратор m
(→ 11.136)
- 11.138 e punched tape
d Lochband n, Lochstreifen m
f bande f perforée
nl ponsband m
r перфолента f
(→ 11.136, 11.139)
- 11.139 e eight-track tape
d Achtspur-Lochband n
f bande f perforée à huit pistes
nl achtsporenponsband m
r восьмидорожечная перфолента f



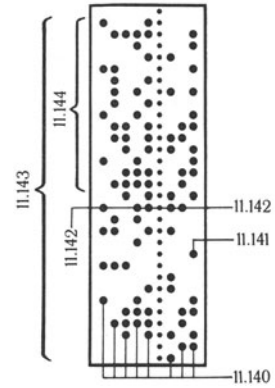
11.134

HSS		v, m/min	
A1	120...300	75...180	
1010	30...50	25...35	
1045	20...35	17...27	

ISO 7-bit									
	P	7	6	5	4	3	2	1	
	8	7	6	5	4	T	3	2	1
NUL									
BS	•					•			
HT						•			•
LF					•			•	
...						•			
(•		•				
)	•		•		•			•	
%	•		•		•			•	
:			•		•			•	
/	•		•		•			•	
...						•			
0			•		•			•	
1	•		•		•			•	
2	•		•		•			•	
3			•		•			•	
...						•			
A			•		•			•	
B			•		•			•	
C	•		•		•			•	
...						•			

11.135

11.133

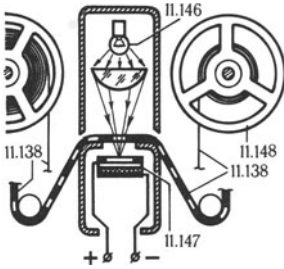


- 11.140 e (tape) track
d Spur f
f piste f
nl spoor n
r (кодовая) дорожка f
(→ 11.139)
- 11.141 e bit
d Bit n
f bit m
nl bit n
r бит m
(→ 11.139)
- 11.142 e row
d Zeile f
f ligne f
nl rij f (m), frame n
r строка f
(→ 11.139)

11.143 e block
d Programmsatz m, Satz
f cadre m
nl blok n
r кадр m (управляющей программы)
(→ 11.139)

11.144 e word
d Wort n
f mot m
nl woord n
r слово n (управляющей программы)
(→ 11.139)

11.145 e (paper) tape reader
d Lochstreifenabtaster m, Leser m
f lecteur m de bande perforée
nl ponsbandlezer m
r считывающее устройство n, устройство ввода с перфоленты



11.146 e light source
d Lichtquelle f
f source f de lumière
nl lichtbron f(m)
r источник м света
(→ 11.145)

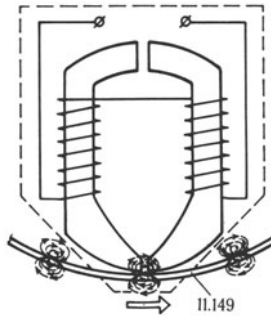
11.147 e photodiode
d Photodiode f
f photodiode f
nl fotodiode f(m)
r фотодиод m
(→ 11.145)

11.148 e tape spool [reel]
d Kassette f
f bobine f pour bande
nl haspel m
r кассета f
(→ 11.145)

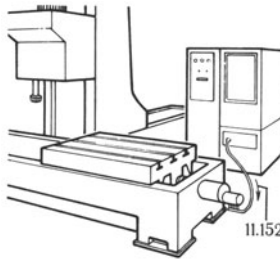
11.149 e magnetic tape
d Magnetband n
f bande f magnétique

nl magneetband m
r магнитная лента f

11.150 e magnetic-tape reader, read(ing) head
d Magnetbandabtaster m
f tête f magnétique de lecture
nl leeskop m
r магнитная (считывающая) головка f
(→ 11.149)

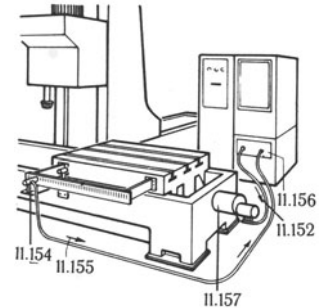


11.151 e open-loop (control) system
d offenes [rückführungsl-
ses] Steuerungssystem n
f système m de contrôle
en boucle ouverte
nl open regelsysteem n
r разомкнутая система f
(управления)



11.152 e input signal
d Eingabesignal n, Sollwert-
signal
f signal m d'entrée
nl ingangssignaal n
r входной сигнал m
(→ 11.151, 11.153)

11.153 e closed-loop (control) sys-
tem
d geschlossenes Steuerungs-
system n
f système m de contrôle
en boucle fermée
nl gesloten regelsysteem n
r замкнутая система f
(управления)

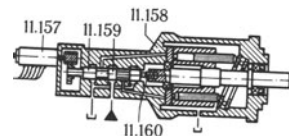


11.154 e feed-back [measuring]
unit, position transducer
d Rückführungselement n,
Messwandler m, Istwert-
geber m
f transmetteur m asservi de
réaction
nl terugkoppelopnemer m
r датчик m обратной связи
(→ 11.153)

11.155 e feed-back signal
d Rückführungssignal n,
Istwert-Signal
f signal m de réaction
nl terugkoppelingssignaal n
r сигнал m обратной связи
(→ 11.153)

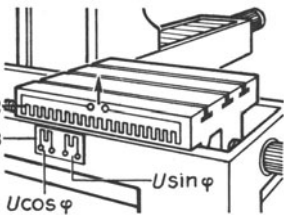
11.156 e error detector
d Soll-Istwert-Vergleicher m
f comparateur m
nl foutdetector m, compara-
tor m
r сравнивающее устрой-
ство n
(→ 11.153)

11.157 e stepping motor
d Schrittmotor m



11.157

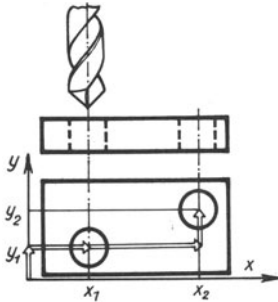
- f moteur m pas à pas
 nl stappenmotor m
 r шаговый электродвигатель m
- 11.158 e hydraulic torque amplifier
 d hydraulischer Momentverstärker m
 f amplificateur m hydraulique de moment
 nl hydraulische koppelversterker m [momentversterker]
 r гидравлический усилитель m, гидроусилитель момента (→ 11.157)
- 11.159 e servovalve
 d Steuerschieber m
 f servovalve f
 nl servoafsluiter m
 r следящий гидрораспределитель m (→ 11.157)
- 11.160 e screw-type feed-back unit
 d Schraubenrückführung f
 f transmetteur m de réaction à vis
 nl terugkoppelingorgaan n met schroefoverbrenging
 r винтовое устройство n обратной связи (→ 11.157)
- 11.161 e inductosyn, linear resolver
 d Inductosyn-Aufnehmer m
 f inductosyn m
 nl inductosynopnemer m
 r датчик m типа "индуктосин"



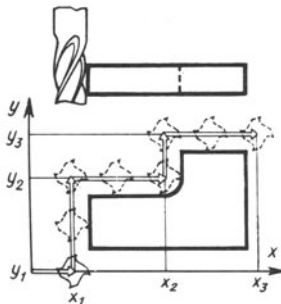
- 11.162 e scale
 d Mass-Stab m, Lineal n
 f échelle f linéaire
 nl lineaire schaal f(m)
 r линейная шкала f (→ 11.161)

- 11.163 e exciter scale
 d Reiter m
 f curseur m
 nl looper m
 r ползунок m (→ 11.161)

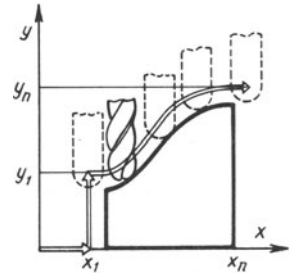
- 11.164 e positioning (numerical) control
 d Punktsteuerung f
 f commande f numérique point à point
 nl numerieke besuring f van de positioneerbeweging
 r позиционное (числовое программное) управление n



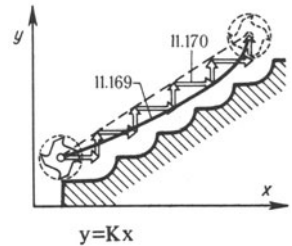
- 11.165 e straight-cut numerical control
 d Streckensteuerung f
 f commande f numérique de déplacement linéaire
 nl numerieke besturing f van rechtlijnige beweging
 r прямоугольное (числовое программное) управление n



- 11.166 e contouring (numerical) control
 d Bahnsteuerung f
 f commande f numérique de contournage
 nl numerieke contoerbesturing f
 r контурное (числовое программное) управление n

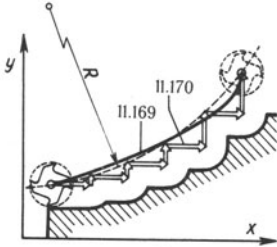


- 11.167 e interpolation
 d Interpolation f
 f interpolation f
 nl interpolatie f
 r интерполяция f (→ 11.168, 11.171)
- 11.168 e linear interpolation
 d Linearinterpolation f
 f interpolation f linéaire
 nl lineaire interpolatie f
 r линейная интерполяция f



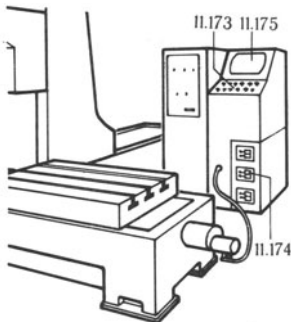
- 11.169 e desired path
 d Sollbahn f
 f trajectoire f préscrite
 nl gewenste baan f(m)
 r заданная траектория f (→ 11.168, 11.171)
- 11.170 e actual path
 d Istbahn f
 f trajectoire f réelle
 nl werkelijke baan f(m)
 r действительная [фактическая] траектория f (→ 11.168, 11.171)

- 11.171 e circular interpolation
 d Kreisinterpolation f
 f interpolation f circulaire
 nl cirkelinterpolatie f
 r круговая интерполяция f



$$x^2 + y^2 = R^2$$

- 11.172 e computer numerical control, CNC
 d freiprogrammierbare numerische Steuerung f, CNC
 f commande f numérique centralisée, CNC
 nl vrij programmeerbare numerieke besturing f
 r программируемое устройство с числового программного управления, программируемое УЧПУ

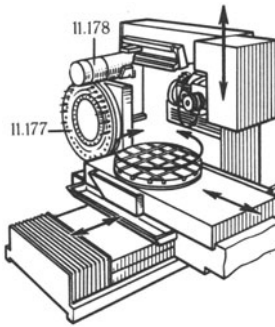


- 11.173 e manual data input
 d manuelle Dateneingabe f
 f entrée f manuelle des données
 nl handmatige gegevensinvoer m
 r ручной ввод m данных [информации]
 (→ 11.172)

- 11.174 e minicomputer
 d Kleinrechner m
 f mini-ordinateur m
 nl minicomputer m
 r мини-ЭВМ f
 (→ 11.172)

- 11.175 e visual display
 d Bildschirm m
 f terminal m de visualisation
 nl beeldscherm n
 r дисплей m
 (→ 11.172)

- 11.176 e machining centre
 d Bearbeitungszentrum n
 f centre m d'usinage
 nl bewerkingsstation n
 r многоцелевой станок m, обрабатывающий центр m



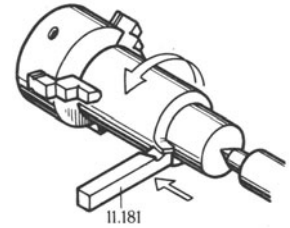
- 11.177 e tool magazine
 d Werkzeugmagazin n
 f magasin m d'outils
 nl gereedschapsmagazijn n
 r магазин m инструментов
 (→ 11.176)

- 11.178 e tool changer
 d Werkzeugwechsler m
 f dispositif m pour changement des outils
 nl gereedschapwisselaar m
 r устройство n для смены инструментов
 (→ 11.176)

Turning
Drehen
Tournage
Draaien
Точение

- 11.179 e turning
 d Drehen n
 f tournage m

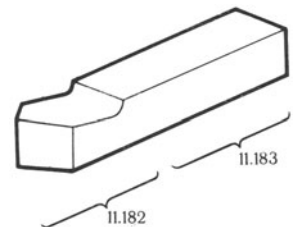
- nl draaien n
 r точение n, обтачивание n, обточка f



- 11.180 e single-point tool
 d Meißel m
 f outil m coupant
 nl beitel m
 r резец m
 (→ 11.179, 11.292, 11.370, 11.380)

- 11.181 e lathe tool
 d Drehmeißel m
 f outil m de tour
 nl draaibeitel m
 r токарный резец m
 (→ 11.179 11.182)

- 11.182 e tool point, (tool) cutting part
 d Schneidenkopf m
 f tête f d'outil
 nl snijkop m
 r режущая часть f [головка f] резца

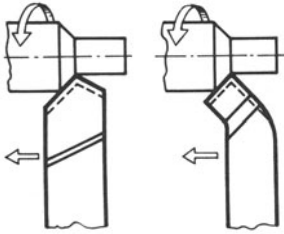


- 11.183 e tool shank
 d Schaft f
 f corps m d'outil
 nl schacht f (m)
 r стержень m [хвостовик m] резца
 (→ 11.182)

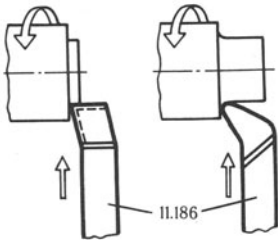
- 11.184 e turning tool
 d Langdrehmeißel m
 f outil m à chariotier

11.184

nl langsruwbeitel m
r проходной резец m

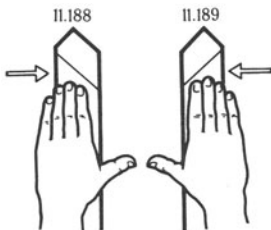


11.185 e facing
d Stirndrehen n
f saignée f
nl achterdraaien n
r подрезка f



11.186 e facing tool
d Stirndrehmeissel m
f outil m à saigner
nl zijbeitel m
r подрезной резец m
(→ 11.185)

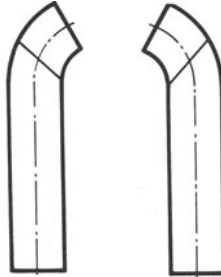
11.187 e straight-shank tool
d gerader Meissel m
f outil m droit
nl beitel m met rechte schacht, rechte beitel
r прямой резец m



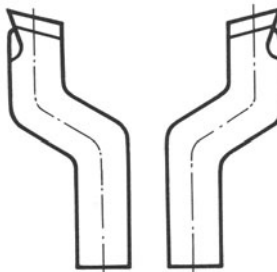
11.188 e left-hand tool
d linker Meissel m
f outil m à gauche
nl linkse beitel m
r левый резец m
(→ 11.187)

11.189 e right-hand tool
d rechter Meissel m
f outil m à droite
nl rechtse beitel m
r правый резец m
(→ 11.187)

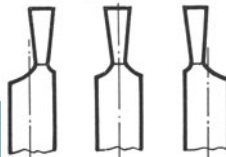
11.190 e bent tool
d gebogener Meissel m
f outil m renvoyé
nl gebogen beitel m
r отогнутый резец m



11.191 e goose-neck tool
d gekröpfter Meissel m
f outil m coudé
nl doorlopende boorbeitel m
r изогнутый резец m

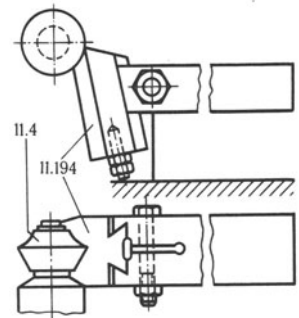


11.192 e offset tool
d abgesetzter Meissel m
f outil m à cannelures
nl afsteekbeitel m
r оттянутый резец m

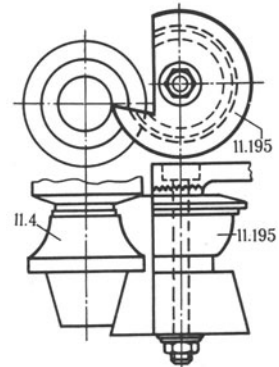


11.193 e form tool
d Formmeissel m
f outil m à façonner
nl profielbeitel m
r фасонный [профильный] резец m
(→ 11.194, 11.195)

11.194 e flat form tool
d prismatischer Formmeissel m
f outil m prismatique à façonner
nl prismatische profielbeitel m
r призматический фасонный резец m

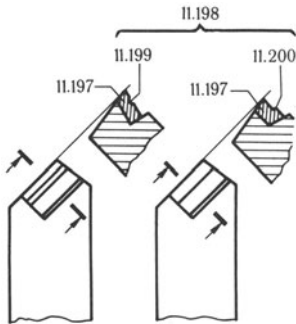


11.195 e circular form tool
d runder Formmeissel m
f outil m circulaire à façonner
nl ronde profielbeitel m
r дисковый [круглый] фасонный резец m



11.196 e brazed-tip tool
d Meissel m mit aufgelöter Schneidplatte
f outil m à pastille en brasage

nl beitel m met opgesoldeerde snijplaat
 r резец m с напаянной режущей пластиной



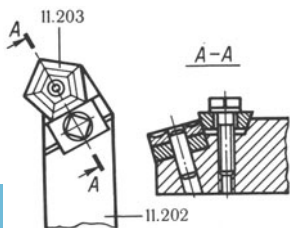
11.197 e cutting tip
 d Schneidplatte f
 f pastille f
 nl snijplaat f(m)
 r режущая пластина f
 (→ 11.196)

11.198 e chip breaker
 d Spanbrecher m
 f briseur m de copeau
 nl spaanbreker m
 r стружколоматель m
 (→ 11.196)

11.199 e groove-type chip breaker, chipbreaking groove
 d Spanbrechernut f
 f rainure f pour brisure de copeau
 nl spaanbreekgroef f(m)
 r стружколомная канавка f
 (→ 11.196)

11.200 e step-type chip breaker
 d Spanbrecherstufe f
 f bosse f pour brisure de copeau
 nl stootkant m
 r стружколомный порожек m
 (→ 11.196)

11.201 e clamped-tip tool
 d Klemmeissel m

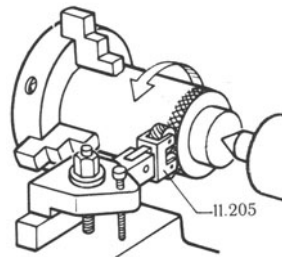


f outil m à pastille de serrage mécanique
 nl beitel m met geklemde snijplaat

r резец m с механически закрепляемой (режущей) пластиной
 11.202 e (tool) holder
 d Meisselhalter m
 f porte-outil m
 nl beitelhouder m
 r державка f
 (→ 11.201)

11.203 e throw-away [replaceable, indexable] insert
 d Wendepatte f
 f pastille f de serrage mécanique
 nl verwisselbare snijplaat f(m)
 r механически закрепляемая (режущая) пластина f
 (→ 11.201)

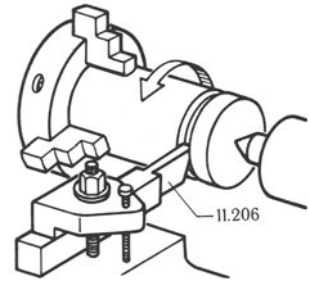
11.204 e knurling
 d Kordeln n
 f moletage m
 nl kartelen n
 r накатывание n (рифлений)



11.205 e knurling tool
 d Kordelwerkzeug n
 f molette f
 nl kartelrol f(m), mollet f(m), kartelgereedschap n
 r накатный инструмент m, накатник m
 (→ 11.204)

11.206 e cut-off tool
 d Abstechmeissel m
 f outil m à tronçonner

nl afsteekbeitel m
 r отрезной резец m



11.207 e lathe
 d Drehmaschine f
 f tour m
 nl draaibank f(m)
 r токарный станок m
 (→ 11.208, 11.259, 11.266, 11.269)

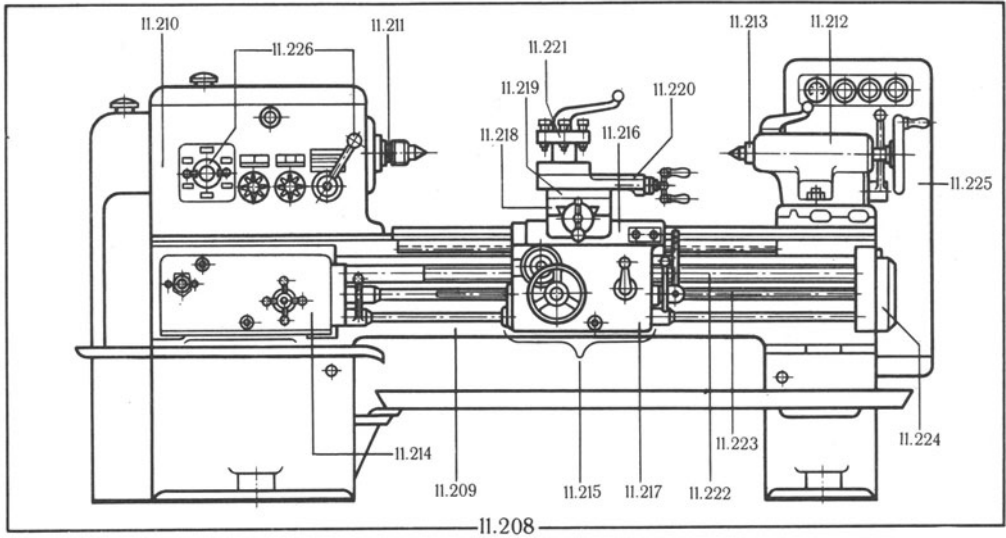
11.208 e engine lathe
 d Spitzendrehmaschine f (mit Leit- und Zugspindel), Universaldrehmaschine
 f tour m à fileter
 nl centerdraaibank m
 r токарно-винторезный станок m

11.209 e bed
 d Bett n
 f bâti m
 nl draaibankbed n
 r станина f
 (→ 11.208)

11.210 e headstock
 d Spindelstock m
 f poupée f avant
 nl spilkop m, vaste kop
 r передняя бабка f
 (→ 11.208)

11.211 e spindle
 d Spindel f
 f broche f
 nl spil f(m), spindel m
 r шпиндель m
 (→ 11.208)

11.212 e tailstock
 d Reitstock m

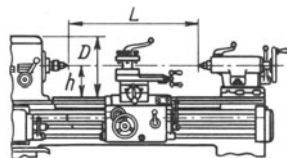


- | | | |
|---|---|--|
| <p>f contre-poupée f
nl losse kop m, achterkop
r задняя бабка f
(→ 11.208)</p> | <p>11.217 e apron
d Schlosskasten m
f tablier m
nl slotplaat f (m)
r фартук m
(→ 11.208)</p> | <p>г резцедержатель m
(→ 11.208)</p> |
| <p>11.213 e (tailstock) quill [ram]
d Pinole f
f fourreau m coulissant
nl loopbus f (m), buitenspil f (m)
r пиноль f
(→ 11.208)</p> | <p>11.218 e cross slide
d Planschlitten m
f chariot m transversal
nl dwarslede f(m)
r поперечная каретка f
(→ 11.208)</p> | <p>11.222 e lead screw
d Leitspindel f
f vis f mère [de commande]
nl schroefas f (m)
r ходовой винт m
(→ 11.208)</p> |
| <p>11.214 e feed box
d Vorschubkasten m
f boîte f des avances
nl wisselwielkast f (m)
r коробка f подач
(→ 11.208)</p> | <p>11.219 e compound (rest)
d Schwenkteil m
f chariot m orientable
nl draaislede f(m), zwenk-slede
r поворотная часть f
(→ 11.208)</p> | <p>11.223 e feed shaft
d Zugspindel f
f barre f de chariotage
nl voedingsas f (m)
r ходовой валик m
(→ 11.208)</p> |
| <p>11.215 e carriage
d Werkzeugschlitten m, Support m
f chariot m
nl slede f(m), support n
r суппорт m
(→ 11.208)</p> | <p>11.220 e compound rest [tool post] slide
d Oberschlitten m
f chariot m d'outil
nl beitelslede f(m)
r верхние салазки pl, реэцовая каретка f
(→ 11.208)</p> | <p>11.224 e carriage rapid traverse drive
d Supportschnellgangantrieb m
f commande f d'avances vites de chariot
nl aandrijving f voor snelle sledeverstelling
r привод m ускоренного перемещения суппорта
(→ 11.208)</p> |
| <p>11.216 e saddle
d Bettschlitten m
f traînard m
nl bedsled f(m)
r продольная каретка f, нижние салазки pl
(→ 11.208)</p> | <p>11.221 e tool post
d Werkzeughalter m
f porte-lame m
nl beitelhoeder m</p> | <p>11.225 e electric cabinet
d Elektroschrank m
f armoire f électrique
nl kast f(m) met elektrische installaties</p> |

г электрошкаф м,
шкаф с электрообо-
рудованием
(→ 11.208)

11.226 e speed selector lever
d Drehzahl-Schalthebel m
f levier m de changement
de vitesses
nl handel m, n voor het
toerental
г рукоятка f переключе-
ния скоростей
(→ 11.208)

11.227 e centre-to-centre distance,
distance between centers
(*L*)
d Spitzenweite f (*L*)
f distance f entre pointes
(*L*)
nl centerafstand m
г межцентровое рассто-
яние n (*L*)



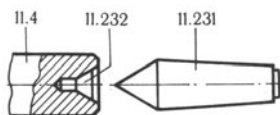
11.228 e centre height (*h*)
d Spitzenhöhe f (*h*)
f hauteur f de pointes (*h*)
nl centerhoogte f (*h*)
г высота f центров (*h*)
(→ 11.227)

11.229 e swing over bed ($D = 2h$)
d grösster Drehdurchmesser
m über dem Bett ($D = 2h$)
f diamètre m admis sur
banc ($D = 2h$)
nl grootste draaidiameter m
($D = 2h$)
г наибольший диаметр м
обработки над стани-
ной ($D = 2h$)
(→ 11.227)

11.230 e lathe accessories
d Drehmaschine-Zubehörn
f accessoires m pl de tour
nl draaibanktoebehoren n

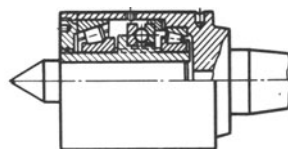
г принадлежности f pl
к токарному станку
(→ 11.231, 11.233,
11.234, 11.238, 11.240,
11.241, 11.245–11.247,
11.249, 11.250, 11.257,
11.258)

11.231 e (lathe) centre [center]
d Körnerspitze f, Spitze
f pointe f (de tour)
nl centerpunt f (m)
г (упорный) центр m

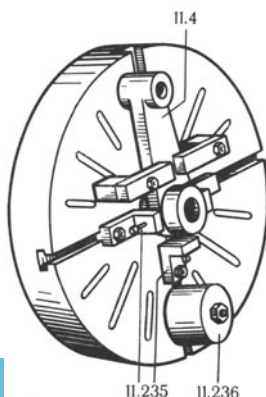


11.232 e centre hole
d Zentrierbohrung f
f trou m de centre
nl centergat n
г центровое отверстие n
(→ 11.231)

11.233 e rotating [live] centre
d umlaufende Spitze f
f pointe f tournante
nl meedraaiende center m
г вращающийся центр m



11.234 e face plate
d Planscheibe f



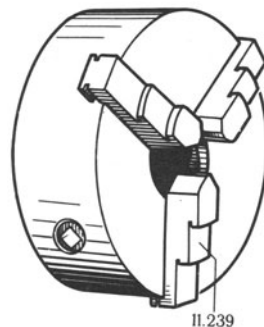
f plateau m
nl stelplaat f(m)
г планшайба f

11.235 e stop bracket
d Spannwinkel m
f équerre f de butée
nl aanslag m
г упорный угольник m
(→ 11.234)

11.236 e counterweight
d Gegengewicht n
f contrepoids m
nl contragewicht n
г противовес m
(→ 11.234)

11.237 e chuck
d Futter n
f mandrin m
nl klauwplaat f(m)
г патрон m
(→ 11.238, 11.240,
11.348, 11.349)

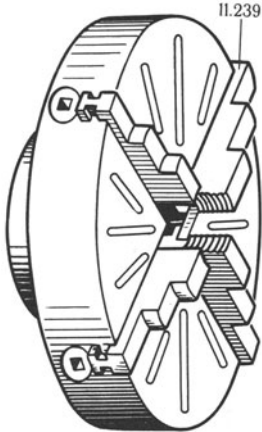
11.238 e three-jaw chuck
d Dreibackenfutter n
f mandrin m à trois mors
nl klauwplaat f(m) met drie
klauwen
г трёхкулачковый пат-
рон m



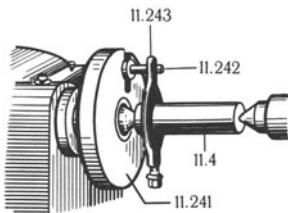
11.239 e jaw
d Backen m
f mors m
nl klauw m, f
г (зажимный) кула-
чок m
(→ 11.238, 11.240)

11.240

- 11.240 e four-jaw chuck
 d Vierbackenfutter n
 f mandrin m à quatre mors
 nl klauwplaat f(m) met vier klauwen
 r четырёхкулачковый патрон m



- 11.241 e driver [dog] plate
 d Mitnehmerscheibe f
 f plateau m à doigt d'entraînement
 nl meeneemplaat f(m)
 r поводковый патрон m

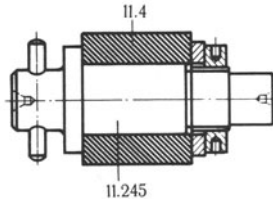


- 11.242 e driving pin
 d Mitnehmerbolzen m
 f doigt m d'entraînement
 nl meeneempen f(m), meeneembout m
 r поводковый палец m
 (→ 11.241)

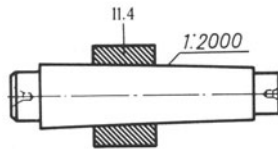
- 11.243 e (lathe) dog
 d Mitnehmerherz n
 f collier m
 nl klem f(m)
 r хомутик m
 (→ 11.241)

- 11.244 e mandrel, arbor
 d Dorn m
 f mandrin m
 nl doorn m
 r оправка f
 (→ 11.245 – 11.247)

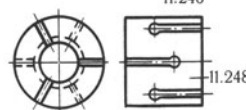
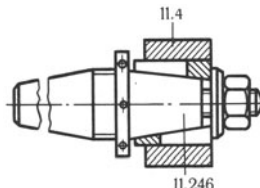
- 11.245 e cylindrical mandrel
 d zylindrischer Dorn m
 f mandrin m cylindrique
 nl cilindervormige doorn m, cilinderdoorn
 r цилиндрическая оправка f



- 11.246 e taper mandrel
 d Kegeldorn m
 f mandrin m conique
 nl conische doorn m
 r конусная (центровая) оправка f



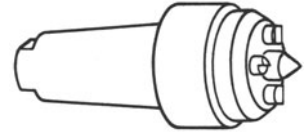
- 11.247 e expanding mandrel
 d verstellbarer Dorn m
 f mandrin m extensible
 nl verstelbare doorn m
 r разжимная [цанговая] оправка f



- 11.248 e collet
 d Spannbüchse f

- f mandrin m à pince
 nl spantang f(m)
 r цанга f
 (→ 11.247)

- 11.249 e face driver
 d Stirnmitnehmer m
 f doigt m d'about d'entraînement
 nl korpemeenemer m
 r торцовый поводок m



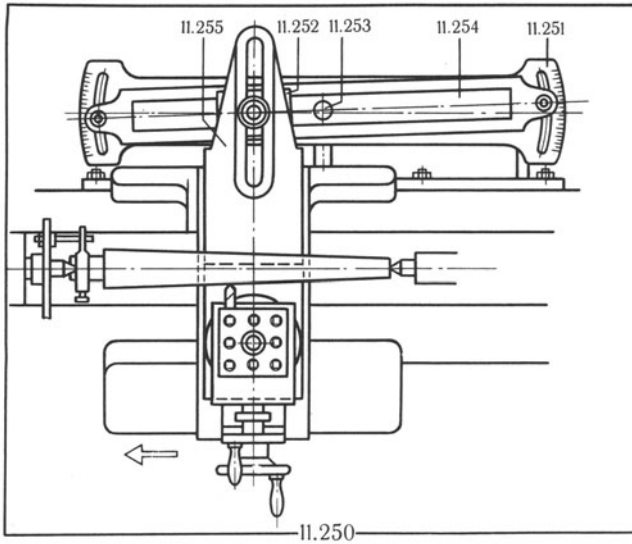
- 11.250 e taper (turning) attachment
 d Kegeldrehtlineal n
 f dispositif m à tourner conique
 nl kegeldraailiniaal f (m)
 r конусная линейка f

- 11.251 e base (of taper turning attachment)
 d Kegelschlitten m
 f base f (de dispositif à tourner conique)
 nl vaste gedeelte n (van de draailiniaal)
 r основание n (конусной линейки)
 (→ 11.250)

- 11.252 e slider, sliding block
 d Gleitschuh m, Gleitstein m
 f coulisseau m guide
 nl schuif f (m)
 r ползушка f
 (→ 11.250)

- 11.253 e pivot
 d Zapfen m
 f pivot m
 nl draaipunt f (m)
 r ось f поворота
 (→ 11.250)

- 11.254 e slide bar
 d Leitlineal n
 f glissière f (orientable)
 nl (verstelbare) liniaal f(m)
 r (регулируемая) линейка f
 (→ 11.250)



11.260 e front slide
d Vorderschlitten m
f chariot m avant
nl voorste support n
r передний суппорт м
(→ 11.259)

11.261 e rear slide
d Hinterschlitten m
f chariot m arrière
nl achterste support n
r задний суппорт м
(→ 11.259)

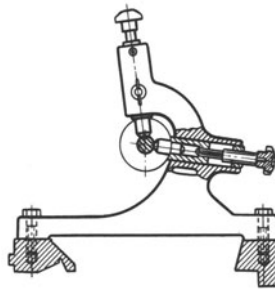
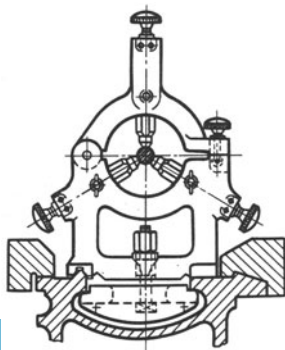
11.262 e tracer [duplicating] lathe
d Nachformdrehmaschine f
f tour m à copier
nl kopieerdraibank f (m)
r (гидро)копировальный
токарный станок m

11.255 e cross slide extension
d Zugstange f
f étrier m de liaison
nl trekstang f(m)
r тяга f
(→ 11.250)

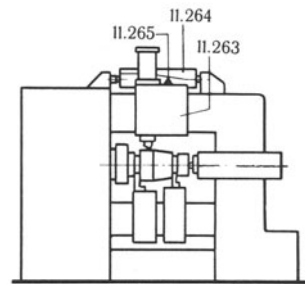
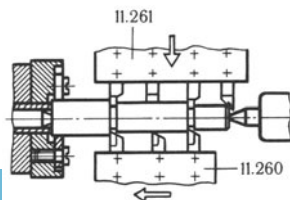
11.258 e follower rest
d mitlaufender Setzstock m
f lunette f mobile
nl meelopende bril m
r подвижный люнет м

11.256 e rest
d Setzstock m
f lunette f
nl bril m
r люнет м
(→ 11.257, 11.258)

11.257 e steady rest
d feststehender Setzstock m
f lunette f fixe
nl vaste bril m
r неподвижный люнет м



11.259 e multi-tool lathe
d Mehrmeisseldrehmaschine
f, Mehrschlittendrehma-
schine
f tour m à outils multiples
nl draibank f (m). met
meer dan één beitel
r многорезцовый токар-
ный станок m



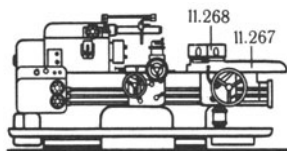
11.263 e tracing slide
d Nachformschlitten m
f chariot m de copiage
nl volgslede f (m)
r копировальный суп-
порт м
(→ 11.262)

11.264 e template
d Schablone f
f gabarit m
nl mal m
r копир м
(→ 11.262, 11.448,
11.450)

11.265 e tracer
d Taster m
f touche f (à gabarit)
nl taster m
r (копирный) шуп м
(→ 11.262, 11.448,
11.450)

11.266

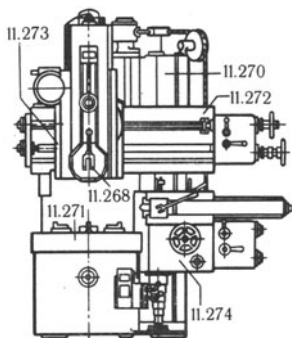
- 11.266 e turret lathe
 d Revolverdrehmaschine f
 f tour m à revolver
 nl revolverbank f(m)
 r (токарно-)револьверный станок m



- 11.267 e turret slide
 d Revolverkopfschlitten m
 f support m revolver
 nl revolversupport n
 r револьверный суппорт m
 (→ 11.266)

- 11.268 e turret
 d Revolverkopf m
 f tourelle f
 nl revolverkop m
 r револьверная головка f
 (→ 11.266)

- 11.269 e vertical boring and turning machine
 d Karusseldrehmaschine f, Drehwerk n
 f tour m vertical
 nl carrousel draaibank f (m)
 r (токарно-)карусельный станок m



- 11.270 e upright, column
 d Ständer m
 f montant m

- nl staander m
 r стойка f
 (→ 11.269)

- 11.271 e rotary table
 d Planscheibe f
 f table f circulaire pivotante
 nl (horizontale) spanplaat f (m)
 r круглый стол m, планшайба f
 (→ 11.269)

- 11.272 e crossrail
 d Querbalken m
 f traverse f
 nl dwarsbalk m
 r поперечина f, траверса f
 (→ 11.269)

- 11.273 e vertical toolhead
 d Querbalkenschlitten m
 f chariot m vertical
 nl verticale (gereedschaps-)slede f (m)
 r вертикальный суппорт m
 (→ 11.269)

- 11.274 e side toolhead
 d Seitenschlitten m, Seitensupport m
 f chariot m latéral
 nl zijsupport n
 r боковой суппорт m
 (→ 11.269)

- 11.275 e automatic lathe
 d Drehautomat m
 f tour m automatique
 nl automatische draaibank f(m), automaat m
 r токарный автомат m
 (→ 11.277, 11.282, 11.285, 11.287)

- 11.276 e single-spindle automatic lathe
 d Einspindel-Drehautomat m
 f tour m automatique monobroche

- nl eenspillige automaat m
 r одношпиндельный токарный автомат m
 (→ 11.277, 11.282)

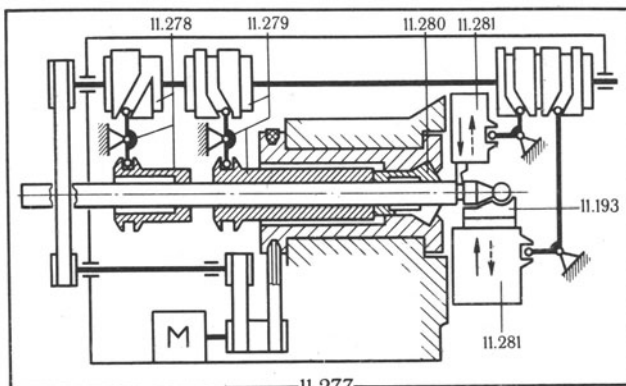
- 11.277 e swiss(-type) stationary-headstock automatic (screw machine)
 d Formdreh- und Abstechautomat m
 f tour m automatique à décolleter
 nl profiel- en afsteekauto-maat m
 r фасонно-отрезной токарный автомат m

- 11.278 e bar advancement mechanism

- d Stangenvorschubeinrichtung f
 f mécanisme m d'alimentation de barre
 nl staaftoevoerinrichting f
 r механизм m подачи прутка
 (→ 11.277)

- 11.279 e bar clamping mechanism
 d Stangenspanneinrichtung f
 f mécanisme m de serrage de barre
 nl staafspaninrichting f
 r механизм m зажима прутка
 (→ 11.277)

- 11.280 e (spring) collet
 d Spannzange f



f serre-barre m
nl spantang f(m)
r (зажимная) цанга f
(→ 11.277, 11.282)

11.281 e cross slide
d Querschlitzen m
f support m transversal
nl dwarsupport n
r поперечный суппорт m
(→ 11.277)

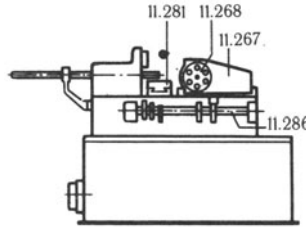
11.282 e swiss(-type) movable-headstock automatic (screw machine)
d Lang- und Formdrehautomat m
f tour m automatique à tournage longitudinal
nl langs- en profieldraai-automaat m
r автомат m (фасонно-) продольного точения

11.283 e vertical slide
d Senkrechtschlitten m
f support m vertical
nl verticaal support n
r вертикальный суппорт m
(→ 11.282)

11.284 e rocker
d schwingender Werkzeug-träger m
f support m oscillant
nl tuimelaarsupport n

r баланси́рный [кача-тельный] суппорт m
(→ 11.282)

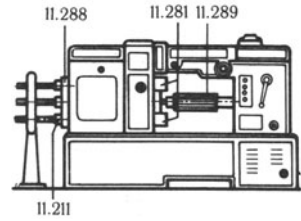
11.285 e automatic turret lathe
d Revolverdrehautomat m
f tour-revolver m automati-que
nl revolverdraai-automaat m
r токарно-револьверный автомат m



11.286 e camshaft
d Steuerwelle f
f arbre m à cames
nl nokkenas f(m)
r распределительный вал m
(→ 11.285)

11.287 e multispindle horizontal automatic
d Waagrechtmehrspindel-drehautomat m
f tour m automatique multibroche horizontal
nl meerspillige horizontale automaat m

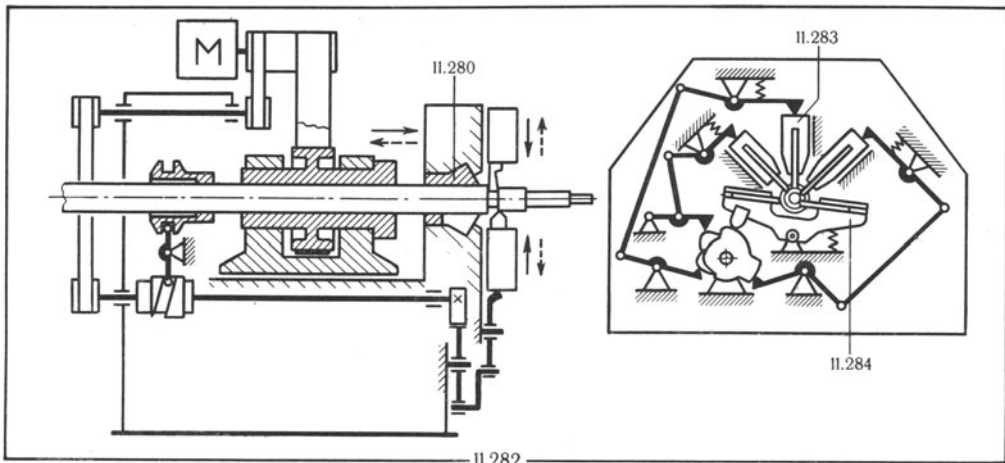
r многошпиндельный горизонтальный токарный автомат m



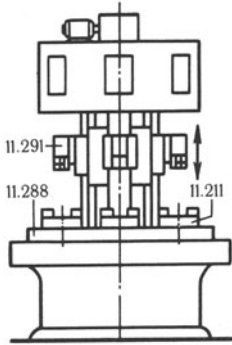
11.288 e spindle carrier
d Spindelträger m, Spindel-trommel f
f tambour m pour broches
nl spildrager m
r шпиндельный блок m
(→ 11.287)

11.289 e end [main] slide
d Langdreh Schlitten m
f chariot m longitudinal
nl langsslede f(m)
r продольный суппорт m
(→ 11.287)

11.290 e multispindle vertical semi-automatic machine
d Senkrecht-Mehrspindel-drehhalbautomat m
f tour m vertical semi-automatique multibroches
nl meerspillige verticale half-automaat m



г многошпиндельный
вертикальный токар-
ный полуавтомат m



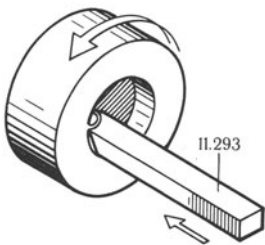
11.291 e tool-carrying head
d Werkzeugschlitten m
f chariot m porte-outil
nl gereedschapsslede f(m)
г (инструментальный)
суппорт m
(→ 11.290)

Boring and Drilling
Bohren

Alésage et perçage
Boren en uitdraaien

Растачивание и сверление

11.292 e boring
d Ausdrehen n, Innendrehen
f alésage m
nl kotteren n, uitboren n
г растачивание n

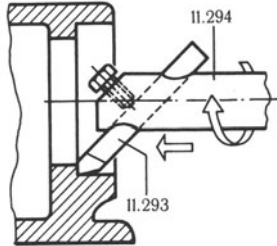


11.293 e boring tool
d Bohrmeissel m, Bohrmesser n, Ausdrehmeissel, Innendrehmeissel
f outil m d'alésage

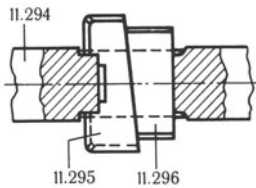
nl boorbeitel m, kotterboor 11.298
m
г расточный резец m
(→ 11.292, 11.294)

e drilling
d Bohren n
f perçage m
nl boren n
г сверление n

11.294 e boring bar
d Bohrstange f
f barre f d'alésage
nl kotterbaar f(m)
г борштанга f, расточная
оправка f

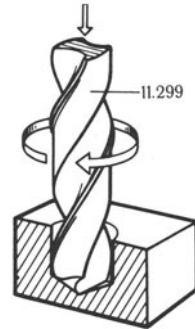
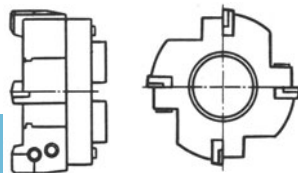


11.295 e single bit boring double
cutter
d zweischneidiges Bohrmesser n
f outil m à lame plate
nl tweesnijdend kottermes n
г пластинчатый расточный резец m



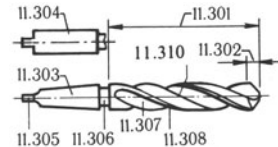
11.296 e wedge
d Keil m
f clavette f
nl spie f (m)
г клин m
(→ 11.295)

11.297 e boring head
d Bohrkopf m
f tête f d'alésage
nl kotterkop m
г расточная головка f



11.299 e drill
d Bohrer m
f foret m, mèche f
nl boor f(m)
г сверло n
(→ 11.298)

11.300 e twist drill
d Spiralbohrer m
f foret m hélicoïdal
nl spiraalboor f(m)
г спиральное сверло n

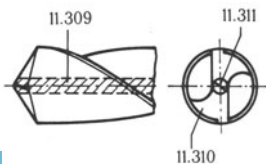
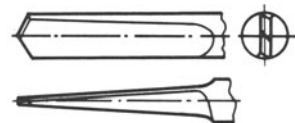
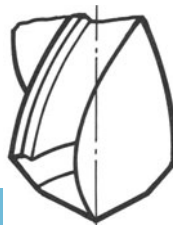
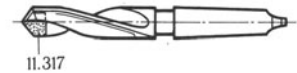


11.301 e body
d Schneidteil m
f corps m de foret
nl boor lichaam/
г рабочая часть f
(→ 11.300)

11.302 e cutting point
d Spitze f
f pointe f de foret
nl boogpunt f (m)
г режущая часть f, головка f
(→ 11.300)

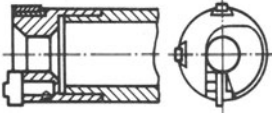
11.303 e taper shank
d Kegelschaft m
f queue f conique

- nl conische schacht f (m) 11.310 e land
 r конический хвостовик m
 (→ 11.300)
- 11.304 e straight shank
 d Zylinderschaft m
 f queue f cylindrique
 nl cilindrische schacht f (m)
 r цилиндрический хвостовик m
 (→ 11.300)
- 11.305 e tang
 d Austreiblappen m, Lap-
 pen
 f languette f
 nl meeneemlip, uitdrijflijp
 r ланка f
 (→ 11.300)
- 11.306 e neck
 d Hals m
 f collet m
 nl hals m
 r шейка f
 (→ 11.300)
- 11.307 e flute
 d Nut f
 f rainure f pour soreau
 nl spaangroef f (m)
 r (стружечная) канавка f
 (→ 11.300)
- 11.308 e margin
 d Führungsfase f
 f listel m
 nl geleidingsrand m
 r ленточка f
 (→ 11.300)
- 11.309 e web, core
 d Kern m, Seele f
 f âme f
 nl ziel f (m)
 r стержень m
- 11.310 e land
 d Steg m
 f surface f de dépouille
 nl facet n
 r спинка f
 (→ 11.309)
- 11.311 e chisel edge
 d Querschneide f
 f arête f frontale
 nl dwarssnijkant f (m)
 r перемычка f, поперечная кромка f
 (→ 11.309)
- 11.312 e drill grinding [sharpening]
 d Bohreranschliff m
 f affûtage m de foret
 nl slijpen n van een boor
 r заточка f сверла
 (→ 11.313 – 11.315)
- 11.313 e flat point
 d Normalanschliff m
 f pointe f plate
 nl enkelzijdig geslepen boor-
 punt m
 r одинарная [обыкновенная] заточка f
- 11.315 e web thinning
 d Ausspitzung f der Querschneide
 f mouchage m de mèche
 nl toespitsen n van de dwarsnede
 r подточка f перемычки
- 11.316 e carbide-tipped drill
 d hartmetallbestückter Bohrer m
 f foret m à bout en carbure
 nl boor f(m) met hardmetalen snijplaatje
 r сверло n, оснащённое твердосплавной пластиной
- 11.317 e sintered-carbide tip
 d Hartmetallplatte f
 f bout m en carbure
 nl hardmetalen snijplaat f (m)
 r твердосплавная пластина f
 (→ 11.316)
- 11.318 e step drill
 d Stufenbohrer m
 f foret m étagé
 nl getrapte boor f (m)
 r ступенчатое сверло n
- 11.319 e flat drill
 d Spitzbohrer m
 f foret m plat
 nl puntboor f(m)
 r перовое сверло n

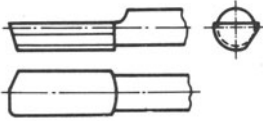


11.320

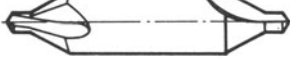
- 11.320 e trepanning drill
 d Hohlbohrer m, Kernbohrer
 f foret m à trépaner
 nl kanonboor f(m)
 r кольцевое сверло n



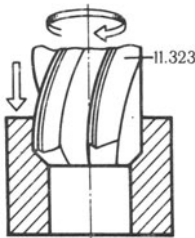
- 11.321 e single-flute [gun] drill
 d Einlippenbohrer m, Kanonenbohrer
 f foret m à seule rainure
 nl éénlippige (kanon)boor f(m)
 r однолезвийное сверло n



- 11.322 e centre drill
 d Zentrierbohrer m
 f foret m à centre
 nl centerboor f(m)
 r центровое сверло n



- 11.323 e core-drill
 d Spiralsenker m, Senker
 f foret m aléueur
 nl verzinkboor f(m), soeverinboor
 r зенкер m

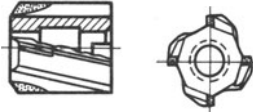


- 11.324 e shank-type core drill
 d Schaftsenker m

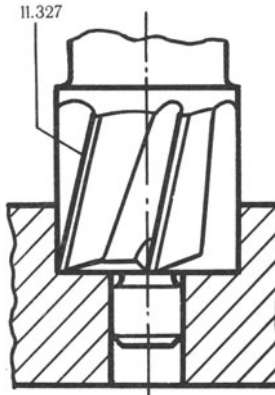
- f foret m aléueur à queue
 nl schachtverzinkboor f(m)
 r хвостовой зенкер m



- 11.325 e shell-type core drill
 d Aufstecksenker m
 f foret m aléueur à trou
 nl opsteekverzinkboor f(m)
 r насадной зенкер m



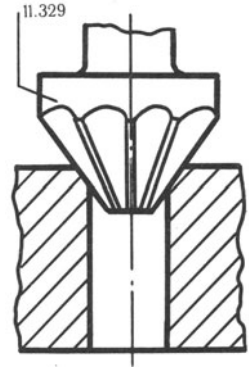
- 11.326 e counterboring
 d Kopfsenken n, Aussenken, Einsenken
 f chambrage m cylindrique
 nl cilindrisch verzinken n
 r цилиндрическое зенкование n



- 11.327 e counterbore
 d Kopfsenker m
 f outil m à chambrage cylindrique
 nl kottorboor f(m)
 r цилиндрическая зенковка f
 (→ 11.326)

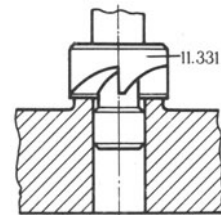
- 11.328 e countersinking
 d Ansenken n
 f chambrage m conique
 nl conisch verzinken n

- г коническое зенкование n



- 11.329 e countersink
 d Spitzsenker m, Kegelsenker
 f outil m à chambrage conique
 nl conische soeverinboor f(m)
 r коническая зенковка f
 (→ 11.328)

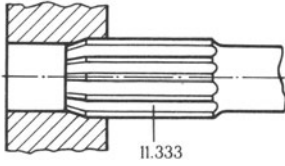
- 11.330 e spot facing
 d Plansenken n, Stirnsenken
 f lamage m
 nl vlakboren n
 r цекование n



- 11.331 e spotfacer
 d Stirnsenker m
 f lamage m plan
 nl vlakboor f(m)
 r цековка f
 (→ 11.330)

- 11.332 e reaming
 d Reiben n
 f alésage m

nl (op)ruimen n
r развёртывание n



11.333 e reamer
d Reibahle f
f alésoir m
nl ruimer m
r развёртка f
(→ 11.332)

11.334 e hand reamer
d Handreibahle f
f alésoir m à main
nl handruimer m
r ручная развёртка f



11.335 e machine reamer
d Maschinenreibahle f
f alésoir m à machine
nl machineruimer m
r машинная развёртка f



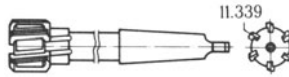
11.336 e expansion reamer
d Spreizreibahle f
f alésoir m expansible
nl instelbare ruimer m
r разжимная развёртка f



11.337 e taper reamer
d Kegelreibahle f
f alésoir m conique
nl conische ruimer m
r коническая развёртка f

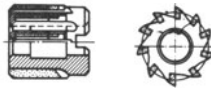


11.338 e inserted blade reamer
d Reibahle f mit eingesetzten
Messern
f alésoir m a lames rap-
portées
nl ruimer m met ingezette
snijplaatjes
r развёртка f со встав-
ными ножами



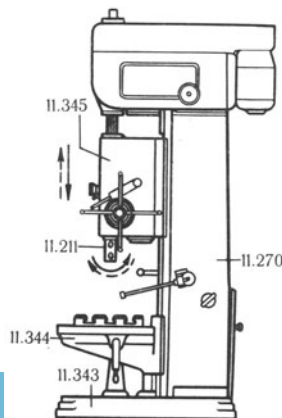
11.339 e inserted blade
d eingesetztes Messer n
f lame f rapportée
nl ingezet snijplaatje n
r вставной нож m
(→ 11.338, 11.393)

11.340 e shell reamer
d Aufsteckreibahle f
f alésoir m à manchon
nl opsteekruimer m
r насадная развёртка f



11.341 e drilling machine
d Bohrmaschine f
f perceuse f
nl boormachine f
r сверильный станок m
(→ 11.342, 11.346)

11.342 e upright drilling machine
[drill press]



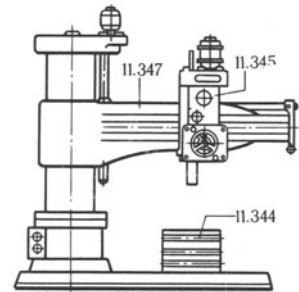
d Senkrechtbohrmaschine f
f perceuse f à colonne
nl kolomboormachine f
r вертикально-свериль-
ный станок m

11.343 e base (of machine)
d Grundplatte f
f semelle f
nl voetplaat f(m)
r основание n, фунда-
ментная плита f
(→ 11.342)

11.344 e table
d Tisch m
f table f
nl tafel f(m)
r стол m
(→ 11.342, 11.346)

11.345 e drill head
d Bohrkasten m, Bohr-
kopf m
f tête f de perçage
nl boorslede f (m)
r сверильная головка f
(→ 11.342, 11.346)

11.346 e radial drilling machine
d Radialbohrmaschine f,
Schwenkbohrmaschine,
Auslegerbohrmaschine
f perceuse f radiale
nl radiaalboormachine f
r радиально-свериль-
ный станок m



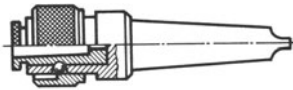
11.347 e (radial) arm
d Ausleger m
f bras m pivotant
nl radiale boorarm m
r рукав m, траверса f
(→ 11.346)

11.348

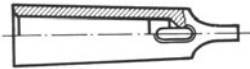
- 11.348 e drill chuck
 d Bohrfutter n
 f mandrin m porte-foret
 nl boorhouder m
 r сверлильный патрон m



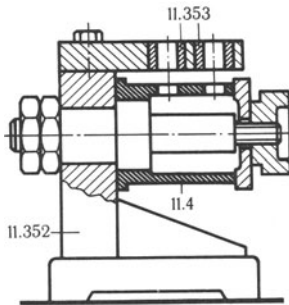
- 11.349 e quick-change chuck
 d Schnellwechselfutter n
 f mandrin m rapide
 nl snelinspanning f
 r быстросменный патрон m



- 11.350 e adapter sleeve
 d Reduzierhülse f
 f manchon m de réduction
 nl aanpasbus f (m)
 r переходная втулка f

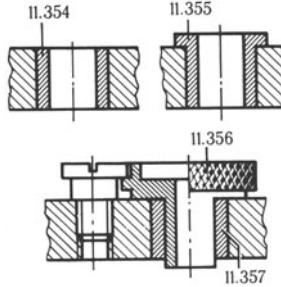


- 11.351 e drill jig
 d Bohrvorrichtung f
 f guide-outil m
 nl boor(span)mal m
 r кондуктор m



- 11.352 e jig base
 d Vorrichtungskörper m
 f corps m de guide-outil
 nl boormallichaam n
 r корпус m кондуктора
 (→ 11.351)

- 11.353 e drill jig bushing
 d Bohrbuchse f
 f canon m de guidage
 nl boormalbus f(m)
 r кондукторная втулка f



- 11.354 e press fit jig bushing
 d Festbohrbuchse f
 f canon m de guidage fixe
 nl vaste boormalbus f(m)
 r постоянная кондукторная втулка f
 (→ 11.353)

- 11.355 e head-type jig bushing
 d Bohrbuchse f mit Bund
 f canon m de guidage à épaulement
 nl gekraagde boormal m
 r кондукторная втулка f с буртиком
 (→ 11.353)

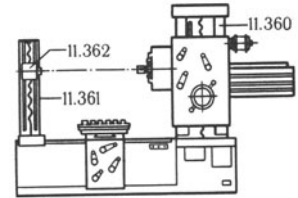
- 11.356 e renewable jig bushing
 d Steckbohrbuchse f
 f canon m de guidage amovible
 nl wisselbare boormalbus f(m)
 r сменная кондукторная втулка f
 (→ 11.353)

- 11.357 e liner bushing
 d Grundbuchse f
 f canon m de guidage principal
 nl grondbus f(m)
 r основная кондукторная втулка f
 (→ 11.353)

- 11.358 e boring machine
 d Waagrechtbohrmaschine f
 f aléuseuse f

- nl kotterbank f (m)
 r расточный станок m
 (→ 11.359, 11.363)

- 11.359 e horizontal boring machine
 d (Waagrecht-) Bohr- und Fräsmaschine f, Bohr- und Fräswerk n
 f aléuseuse f horizontale
 nl kotterbank f(m), horizontale boor- en freesbank
 r горизонтально-расточный станок m



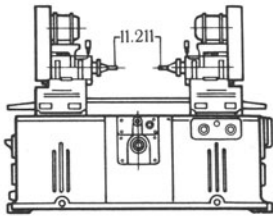
- 11.360 e head column
 d Bohrschlitten-Ständer m
 f montant m avant
 nl staander m
 r передняя стойка f
 (→ 11.359)

- 11.361 e end support
 d Setzstock m, Lunettenständer m
 f montant m à lunette
 nl hulpstaander m
 r задняя стойка f
 (→ 11.359)

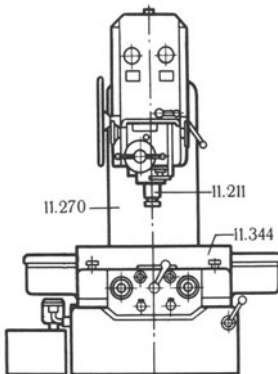
- 11.362 e end support bearing
 d (Spindel-)Gegenlager n
 f lunette f
 nl kussenblok n
 r люнет m (расточного станка)
 (→ 11.359)

- 11.363 e precision boring machine
 d Feinbohrmaschine f, Feinbohrwerk n
 f aléuseuse f de précision, aléuseuse-finisseuse f
 nl precisieboormachine f

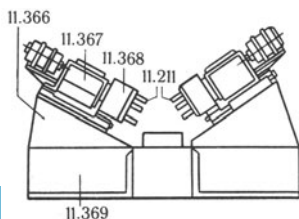
г отделочно-расточный
[алмазно-расточный]
станок m



11.364 e jig-boring machine
d Lehrenbohrmaschine f
f machine f à pointer,
aléuseuse-pointeuse f
nl coördinatenboor-
machine f
r координатно-расточ-
ный станок m



11.365 e standard-unit-type
[modular] machine tool
d Baukastenmaschine f
f machine-outil f en
éléments standards
nl bouwdoosmachine f
r агрегатный станок m



11.366 e adapter plate unit
d Anbaueinheit f
f plaque f intermédiaire
nl overgangsplaat f(m)
r переходная плита f
(→ 11.365)

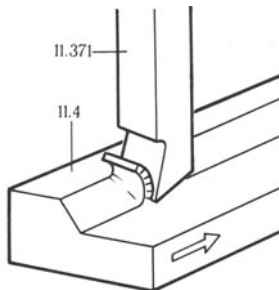
11.367 e power head
d Werkzeugträgerereinheit f
f tête f de travail
nl gereedschaphoudeer-
heid f
r силовая головка f
(→ 11.365)

11.368 e spindle box unit
d Spindeleinheit f
f boîte f porte-broche
nl spilkast f(m)
r шпиндельная короб-
ка f
(→ 11.365)

11.369 e base unit
d Betteinheit f
f base f
nl onderstel n
r подставка f
(→ 11.365)

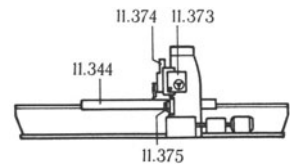
Planing, Shaping and Slotting Hobeln und Stossen Rabotage et mortaisage Schaven en steken Строгание и долбление

11.370 e planing
d Hobeln n
f rabotage m
nl schaven n
r строгание n



11.371 e planing tool
d Hobelmeissel m, Hobel-
werkzeug n
f outil m à planer
nl schaaftbeitel m
r строгальный резец m
(→ 11.370)

11.372 e planer
d Hobelmaschine f, Lang-
hobelmaschine
f raboteuse f
nl schaaftbank f(m), schaaft-
machine f
r продольно-строгаль-
ный станок m

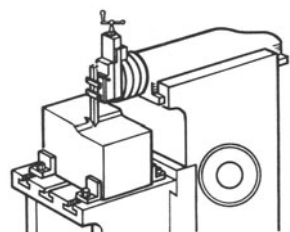


11.373 e crossrail
d Querbalken m
f fronton m
nl dwarsbalk m
r поперечина f, траверса f
(→ 11.372)

11.374 e crossrail head
d Querbalkensupport m
f chariot m vertical
nl verticaal-support n
r вертикальный суппорт m
(→ 11.372)

11.375 e side head
d Seitenschlitten m, Quer-
hobelsupport m
f chariot m latéral
nl zijsupport n
r боковой суппорт m
(→ 11.372)

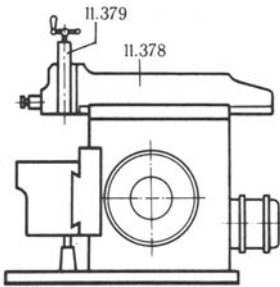
11.376 e shaping
d Kurzshobeln n



11.376

f rabotage m sur étau-limeur
 nl dwarsschaven n
 r строгание п на поперечно-строгальном станке

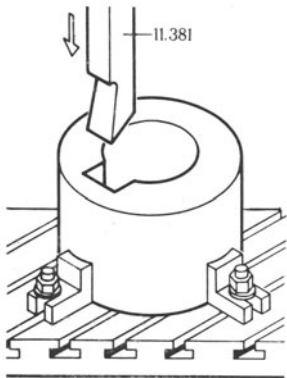
11.377 e (horizontal) shaper
 d Waagrechtstossmaschine
 f, Kurzhobelmaschine, Kurzhobler m
 f étau-limeur m
 nl sterke-armschaafbank f (m)
 r поперечно-строгальный станок m



11.378 e ram
 d Stößel m
 f coulisseau m
 nl arm m, ram m
 r ползун m
 (→ 11.377, 11.382)

11.379 e toolslide
 d Werkzeugschlitten m
 f chariot m porte-outil
 nl beitelslede f (m)
 r резцовые салазки pl
 (→ 11.377)

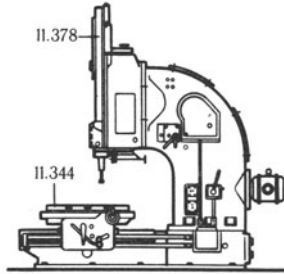
11.380 e slotting
 d Stossen n



f mortaisage m
 nl steken m
 r долбление n

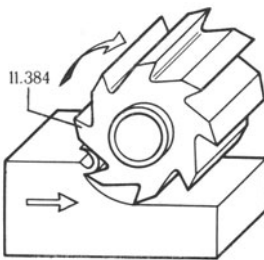
11.381 e slotting tool
 d Stossmeißel m, Stosswerkzeug n
 f outil m de mortaisage
 nl steekbeitel m
 r долбежный резец m
 (→ 11.380)

11.382 e vertical shaper, slotting machine, slotter
 d Stossmaschine f
 f mortaiseuse f
 nl steekmachine f
 r долбежный станок m



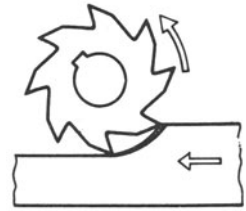
Milling
Fräsen
Fraisage
Frezen
Фрезерование

11.383 e milling
 d Fräsen n
 f fraise m
 nl frezen n
 r фрезерование n

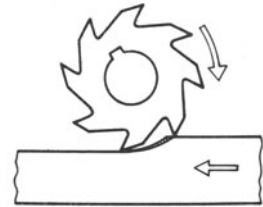


11.384 e milling cutter, mill
 d Fräser m
 f fraise f
 nl frees f(m)
 r фреза f
 (→ 11.383)

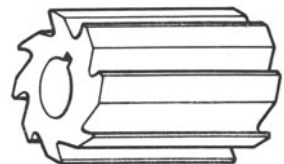
11.385 e up [conventional] milling
 d Gegenlaufräsen n
 f fraise m en opposition
 nl tegen de voeding in frezen n
 r встречное фрезерование n



11.386 e climb [down] milling
 d Gleichlaufräsen n
 f fraise m en avalant
 nl met de voeding mee.. frezen n
 r попутное фрезерование n



11.387 e plain milling cutter, slab mill
 d Walzenfräser m
 f fraise f rouleau
 nl mantelfrees f(m)
 r цилиндрическая фреза f



- 11.388 e helical tooth cutter
 d drallgenuteter Fräser m
 f fraise f à rouleaux à taille hélicoïdale
 nl mantelfrees f (m) met hellende tanden
 r цилиндрическая фреза f с винтовыми зубьями (→ 11.389, 11.390)

nl achtergedraaide tand m
 r затылованный зуб m

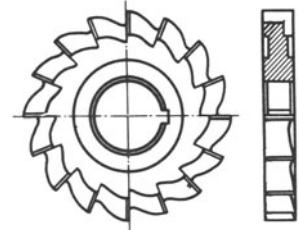
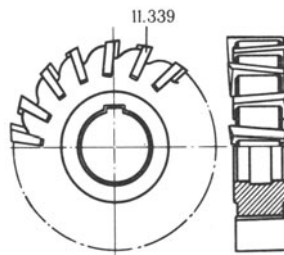
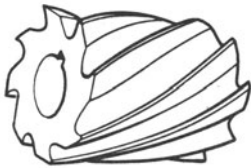


- d kreuzverzahnter Scheibenfräser m
 f fraise f à trois tailles à denture alternée
 nl schijffrees f (m) met zig-zagtanden
 r трёхсторонняя дисковая фреза f с разнонаправленными зубьями

- 11.389 e left-hand milling cutter
 d linksdrallnutiger Fräser m
 f fraise f avec coupe à gauche
 nl frees f (m) met linkshellende tanden
 r левая фреза f

- 11.393 e inserted-blade milling cutter
 d Messerkopf m, Fräser m mit eingesetzten Messern
 f fraise f à lames rapportées
 nl meskopfrees f(m)
 r (сборная) фреза f со вставными ножами

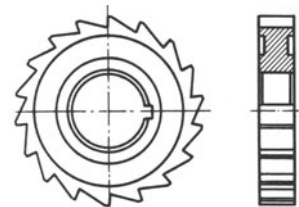
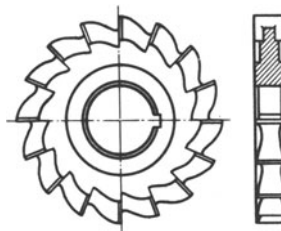
- 11.396 e half-side milling cutter
 d Halbseiten-Scheibenfräser m
 f fraise f à deux tailles
 nl tweezijdige schijffrees f(m)
 r двусторонняя дисковая фреза f



- 11.390 e right-hand milling cutter
 d rechtsdrallnutiger Fräser
 f fraise f avec coupe à droite
 nl frees f (m) met rechtshellende tanden
 r правая фреза f

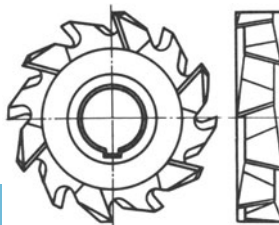
- 11.394 e side milling cutter
 d Scheibenfräser m
 f fraise f à trois tailles
 nl schijffrees f(m)
 r трёхсторонняя дисковая фреза f

- 11.397 e slot(ting) milling cutter
 d Nutenfräser m, Schlitzfräser
 f fraise f à rainurer
 nl gleuffrees f (m)
 r пазовая [прорезная] фреза f

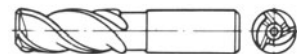


- 11.391 e milled tooth
 d gefräster [spitzer] Zahn m
 f dent f appointue
 nl gefreesde tand m
 r остроконечный зуб m

- 11.395 e staggered-tooth side milling cutter



- 11.398 e end mill
 d Schaftfräser m
 f fraise f en bout
 nl kopfrees f (m)
 r концевая фреза f



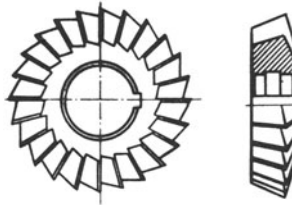
- 11.392 e form-relieved tooth
 d hinterdrehter Zahn m
 f dent f à face en dépouille

11.399

11.399 e key-seat milling cutter
 d Langlochfräser m, Keilnutenfräser
 f fraise f papillon
 nl spiegleuffrees f (m)
 r шпоночная фреза f

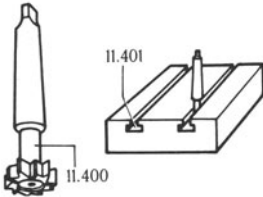


nl dubbele hoekfrees f (m)
 r двухугловая фреза f

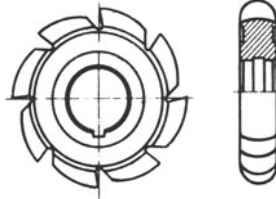


f fraise f cylindrique à deux tailles à trou
 nl opsteekmantelkopfrees f(m)
 r насадная торцово-цилиндрическая фреза f

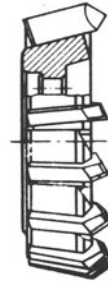
11.400 e T-slot milling cutter
 d Schaftfräser m für T-Nuten
 f fraise f pour rainures à T
 nl T-frees f (m)
 r фреза f для T-образных пазов



11.404 e convex milling cutter
 d konvexer Halbkreisformfräser m
 f fraise f convexe
 nl halfbolle frees f (m)
 r выпуклая (полукруглая) фреза f

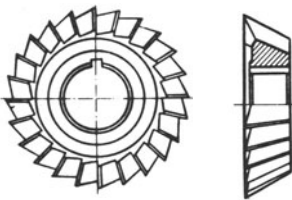


11.407 e face milling cutter
 d Stirnfräser m
 f fraise f à surfacer
 nl vlakfrees f(m)
 r торцовая фреза f [фрезерная головка f]

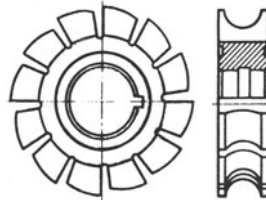


11.401 e T-slot
 d T-Nut f
 f rainure f à T
 nl T-sleuf f(m)
 r T-образный паз m (→ 11.400)

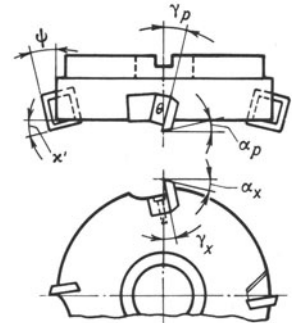
11.402 e single-angle milling cutter
 d einseitiger Winkelfräser m
 f fraise f conique à une taille
 nl eenzijdige hoekfrees f(m)
 r одноугловая фреза f



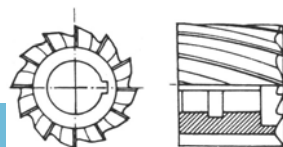
11.405 e concave milling cutter
 d konkaver Halbkreisformfräser m
 f fraise f concave
 nl halfholle frees f (m)
 r вогнутая (полукруглая) фреза f



11.408 e lead [peripheral cutting edge, corner] angle (ψ)
 d Einstellergänzungswinkel m (ψ)
 f angle m de direction complémentaire d'outil (ψ)
 nl snijkantsschuinte f (ψ)
 r угол дополнительный к главному углу в плане (ψ)



11.406 e shell mill
 d Walzen-Stirnfräser m



11.403 e double-angle milling cutter
 d doppelseitiger Winkelfräser m
 f fraise f conique à deux tailles

11.409 e axial rake (angle) (γ_p)
 d Rück-Spanwinkel m (γ_p)
 f angle m de coupe vers arrière d'outil (γ_p)

nl axiale spaanhoek m
(γ_p)
r осевой передний угол
m (γ_p)
(→ 11.408)

11.410 e face [end] cutting edge
angle (α')

d Einstellwinkel m an der
Nebenschneide (α')

f angle m de direction
auxiliaire d'outil (α')

nl hulpstelhoek m (α')

r вспомогательный угол
m в плане (α')
(→ 11.408)

11.411 e axial relief angle (α_p)

d Freiwinkel m an der
Nebenschneide (α_p)

f dépourville f vers arrière
d'outil (α_p)

nl axiale vrijloophoek m (α_p)

r осевой задний угол (на
вспомогательной режу-
щей кромке) (α_p)
(→ 11.408)

11.412 e radial rake (angle) (γ_x)

d Seiten-Spanwinkel m
(γ_x)

f angle m de coupe latéral
d'outil (γ_x)

nl radiale spaanhoek m (γ_x)

r боковой [поперечный]
передний угол m (γ_x)
(→ 11.408)

11.413 e radial [peripheral] relief
(angle) (α_x)

d Seiten-Freiwinkel m (α_x)

f dépourville f latérale d'outil
(α_x)

nl radiale vrijloophoek m
(α_x)

r боковой [поперечный]
задний угол m (α_x)
(→ 11.408)

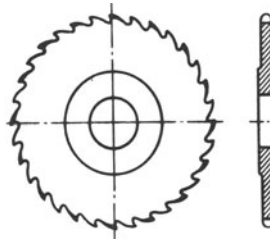
11.414 e slitting saw, slotting cut-
ter

d Nutenfräser m, Schlitz-
fräser

f fraise f à trancher

nl groeffrees f(m)

r прорезная [отрезная]
фреза f



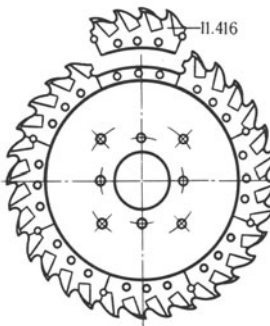
11.415 e segmental circular saw

d Segment-Kreissäge f,
Segmentssägeblatt n

f scie f circulaire à segments

nl segmentcirkelzaag f(m)

r круглая сегментная
пила f



11.416 e segment

d Zahnsegment n, Einzel-
segment

f segment m de scie

nl tandsegment n

r сегмент m

(→ 11.415)

11.417 e milling machine

d Fräsmaschine f

f fraiseuse f

nl freesmaschine f

r фрезерный станок m

(→ 11.419, 11.424,
11.426 – 11.428,
11.446 – 11.448, 11.450,
11.451)

11.418 e knee-and-column type
milling machine

d Konsolfräsmaschine f

f fraiseuse f à console

nl consolefreesmaschine f

r консольно-фрезерный
станок m

(→ 11.419, 11.424,
11.426, 11.427)

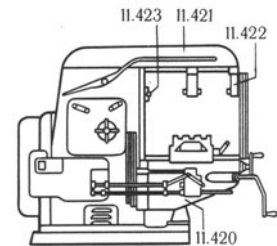
11.419 e horizontal-spindle knee-
and-column-type milling
machine, horizontal mil-
ling machine

d Waagrecht-(Konsol)-Fräs-
maschine f

f fraiseuse f horizontale à
console

nl horizontale (consolefrees-
maschine f

r горизонтальный кон-
сольно-фрезерный ста-
нок m, горизонтально-
фрезерный станок m



11.420 e knee

d Konsole f

f console f

nl console f(m)

r консоль f

(→ 11.419)

11.421 e overarm

d Gegenhalterarm m

f support m de rigidité

nl tegenhouderarm m

r хобот m

(→ 11.419)

11.422 e arbor support, overboard
bearing

d Gegenhalter m

f support m d'arbre

nl tegenhouder m

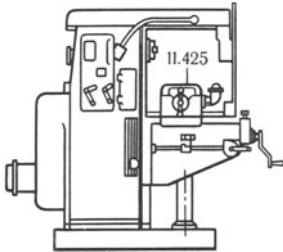
r кронштейн m, подвес-
ка f, серьга f

(→ 11.419)

11.423

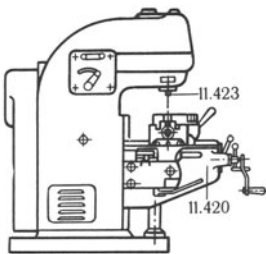
- 11.423 e spindle nose
 d Spindel-nase m, Spindelkopf m
 f nez m de broche
 nl spilneus m
 r (передний) конец м шпинделя
 (→ 11.419)

- 11.424 e universal horizontal milling machine
 d Universal-Konsolfräsmaschine f
 f fraiseuse f horizontale universelle
 nl universele horizontale freesmachine f
 r универсальный горизонтально-фрезерный станок m



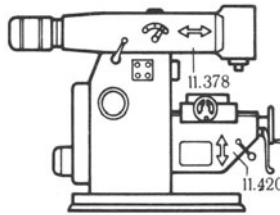
- 11.425 e swivelling table, rotary plate
 d Schwenktisch m
 f table f pivotante
 nl draaibare freestafel f (m)
 r поворотный стол m
 (→ 11.424)

- 11.426 e vertical-spindle knee-and-column-type milling machine, vertical milling machine
 d Senkrecht-Konsolfräsmaschine f

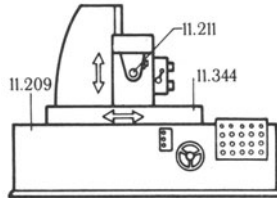


- f fraiseuse f verticale à console
 nl verticale consolefreesmachine f
 r вертикальный консольно-фрезерный станок m

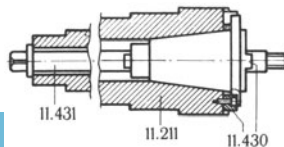
- 11.427 e ram-type milling machine
 d Universal-Werkzeugfräsmaschine f
 f fraiseuse f universelle
 nl universele gereedschapsfreesmachine f
 r широко универсальный фрезерный станок m



- 11.428 e bed-type milling machine
 d Bettfräsmaschine f
 f fraiseuse-raboteuse f
 nl langsfreesmachine f
 r продольно-фрезерный станок m



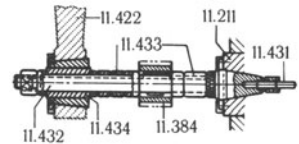
- 11.429 e stub [shell end mill] arbor
 d Aufsteckdorn m
 f porte-fraise m en bout
 nl freesdoorn m
 r концевая фрезерная оправка f



- 11.430 e spindle-nose key
 d Querfeder f
 f clavette f fixée sur le nez de la broche
 nl spie f (m) op spilneus
 r торцовая шпонка f
 (→ 11.429)

- 11.431 e drawbar, draw-in bolt
 d Fräs(er)dornschaube f, Spannschraube
 f tige f
 nl spanbout m
 r шомпол m
 (→ 11.429)

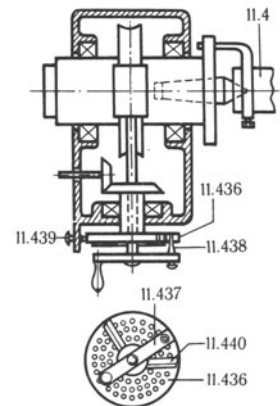
- 11.432 e shaft-type arbor
 d Fräs(er)dorn m
 f porte-fraise m centreur
 nl tweezijdig gesteunde doorn m
 r центровая фрезерная оправка f



- 11.433 e spacing collar
 d Zwischenring m
 f bague f de calage
 nl afstandsring m
 r установочное кольцо m
 (→ 11.432)

- 11.434 e bearing sleeve, bushing
 d Laufbuchse f
 f manchon m de guidage
 nl loopbus f (m)
 r букса f
 (→ 11.432)

- 11.435 e dividing [index] head
 d Teilkopf m



f diviseur m, poupée f diviseuse
nl verdeelkop m
r делительная головка f

11.436 e index plate
d Lochscheibe f
f disque m à trous, plateau m du diviseur
nl verdeelplaat f (m), cirkelplaat
r делительный диск m (→ 11.435)

11.437 e index crank
d Kurbel f
f manivelle f alidade
nl verdeelkruk f (m)
r кривошипная рукоятка f (делительной головки)
(→ 11.435)

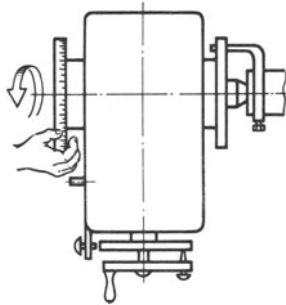
11.438 e index pin
d Teilstift m
f verrou m d'arrêt
nl indexpen f(m)
r защёлка f (делительного диска)
(→ 11.435)

11.439 e lock pin, index plate stop
d Raststift m
f pointeau m d'arrêt disque
nl indexpen f(m), grendelpen
r фиксатор m (→ 11.435)

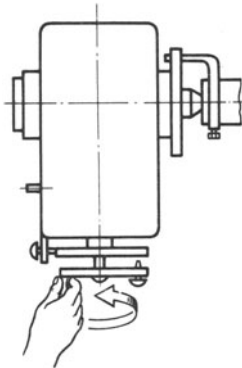
11.440 e sector arm
d Schere f
f fourchette f
nl verdeelwijzer m
r ножка f сектора
(→ 11.435)

11.441 e indexing
d Teilen n
f division f
nl verdelen n
r деление n (→ 11.442 – 11.444)

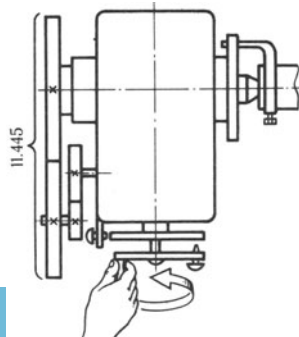
11.442 e direct indexing
d direktes Teilen n
f division f droite
nl direct verdelen n
r непосредственное деление n



11.443 e plain [simple] indexing
d Einfachteilen n
f division f simple
nl direct verdelen n
r простое деление n



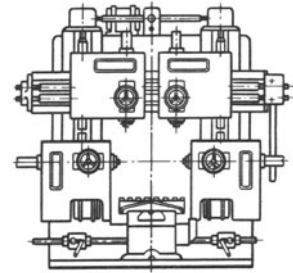
11.444 e compound [differential] indexing



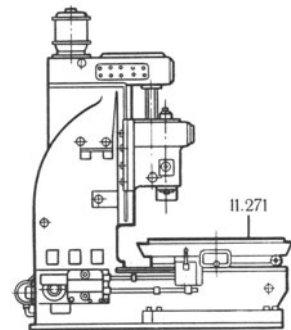
d Ausgleichteilen n
f division f différentielle
nl differentiaalverdelen n
r дифференциальное деление n

11.445 e change gears
d Wechselläder n pl
f roues f pl de rechange
nl wisselwielen n pl
r сменные шестерни f pl (→ 11.444)

11.446 e planer-type milling machine
d Langfräsmaschine f
f fraiseuse-raboteuse f à deux montants
nl langsfreesmachine f
r продольно-фрезерный станок m (портально-го типа)

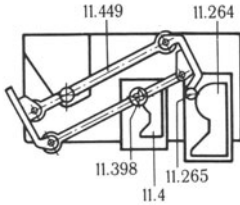
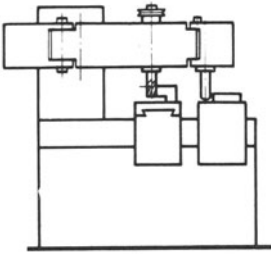


11.447 e rotary-table milling machine
d Rundtischfräsmaschine f
f fraiseuse f circulaire
nl rondfreesmachine f
r карусельно-фрезерный станок m



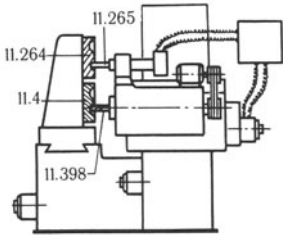
11.448 e engraving machine
d Graviermaschine f
f machine f à graver

nl graveermachine f
 r гравировально-фрезерный станок m

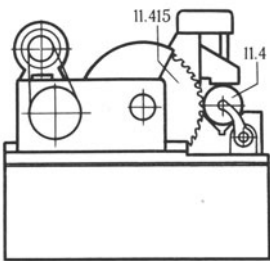


11.449 e pantograph
 d Pantograph m
 f pantographe m
 nl pantograaf m
 r пантограф m
 (→ 11.448)

11.450 e duplicating milling machine
 d Nachformfräsmaschine f
 f fraiseuse f à copier
 nl kopieerfreesmachine f
 r копирувально-фрезерный станок m



11.451 e sawing machine
 d Kreissägemaschine f

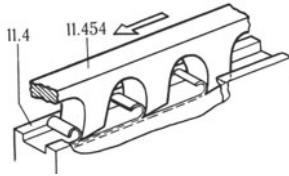


f scie f circulaire
 nl cirkelzaagmachine f
 r круглопильный [фрезерно-отрезной] станок m

Broaching
Räumen
Brochage
Ruimen
Протягивание

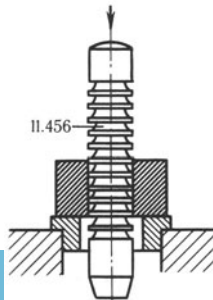
11.452 e broaching
 d Räumen m
 f brochage m
 nl trekfreen n, brootsen n
 r протягивание n
 (→ 11.453, 11.455)

11.453 e pull broaching
 d ziehendes Räumen n
 f brochage m par traction
 nl trekfreen n, brootsen n
 r протягивание n (протяжкой тянущего типа)



11.454 e (pull) broach
 d (ziehendes) Räumwerkzeug n
 f broche f de traction
 nl trekfrees f(m), broots f(m)
 r протяжка f
 (→ 11.453)

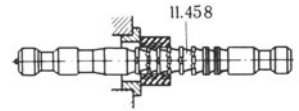
11.455 e push broaching
 d Stossräumen n



f brochage m en poussée
 nl duwfreen n
 r прошивание n

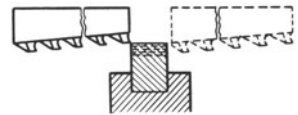
11.456 e push broach
 d Stoss-Räumnadel f
 f broche f de poussée
 nl duwfrees f (m)
 r прошивка f
 (→ 11.455)

11.457 e internal broaching
 d Innenräumen n
 f brochage m intérieur
 nl inwendig trekfreen n
 r внутреннее протягивание n

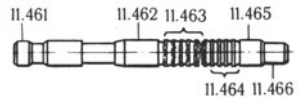


11.458 e internal broach
 d Räumnadel f, Innen-Räumwerkzeug n
 f broche f d'intérieur
 nl frees f (m) voor inwendig trekfreen
 r внутренняя протяжка f
 (→ 11.457)

11.459 e surface [external] broaching
 d Aussenräumen n
 f brochage m extérieur
 nl uitwendig trekfreen n
 r наружное протягивание n

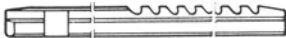


11.460 e circular broach
 d Rundräumnadel f
 f broche f ronde
 nl ronde trekfrees f (m)
 r круглая протяжка f

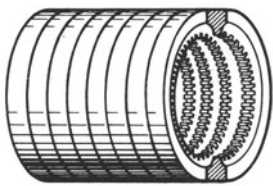


11.461 e pull end
 d Schaft m
 f entraîneur m

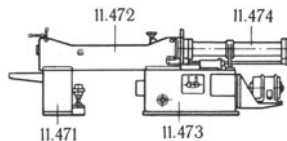
- nl spankolf f
r передняя замковая часть f
(→ 11.460)
- 11.462 e front pilot
d Einföhrung f
f guide m avant
nl centreerhals m
r передняя направляющая часть
(→ 11.460)
- 11.463 e cutting [roughing] part
d Schneidenteil m
f partie f taillée
nl voorsnijtanden m pl
r режущая часть f
(→ 11.460)
- 11.464 e finishing [sizing] part
d Kalibrierteil m
f partie f calibre
nl calibreertanden m pl, maattanden
r калибрующая часть f
(→ 11.460)
- 11.465 e rear pilot
d Endföhrungsstück n
f guide m arrière
nl eindgeleider m
r задняя направляющая часть f
(→ 11.460)
- 11.466 e rear support
d Endstück n
f tourillon m d'appui
nl eindtap m
r задняя опорная цапфа f
(→ 11.460)
- 11.467 e keyway broach
d Keilnutenräumnadel f
f broche f plate
nl spiebaantrekfrees f (m)
r шпоночная протяжка f



- 11.468 e pot broach
d Tubusräumwerkzeug n
f broche f enveloppante

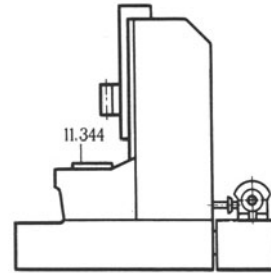


- nl buizentrekfrees f(m)
r охватывающая протяжка f
- 11.469 e broaching machine
d Räummaschine f
f brocheuse f
nl trekfreesmachine f
r протяжной станок m
(→ 11.470, 11.475)
- 11.470 e horizontal broaching machine
d Waagrecht-Räummaschine f
f brocheuse f horizontale
nl horizontale trekfreesmachine f
r горизонтально-протяжной станок m



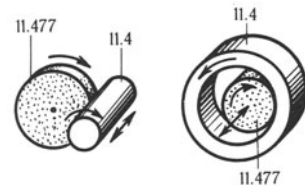
- 11.471 e pedestal
d Sockel m, Kastenfuß m
f socle m
nl sokkel m, voet m
r тумба f
(→ 11.470)
- 11.472 e top bed
d Oberbett n
f bâti m de dessus
nl topbed n, bovenbed
r верхняя станина f
(→ 11.470)
- 11.473 e bottom bed
d Unterbett n
f bâti m de dessous
nl onderbed n
r нижняя станина f
(→ 11.470)
- 11.474 e main cylinder
d Arbeitszylinder m
f cylindre m de commande
nl werkcilinder m, f
r рабочий цилиндр m
(→ 11.470)
- 11.475 e vertical broaching machine
d Senkrecht-Räummaschine f
f brocheuse f verticale
nl vertikale trekfreesmachine f

r вертикально-протяжной станок m



Grinding Schleifen Rectification Slijpen Шлифование

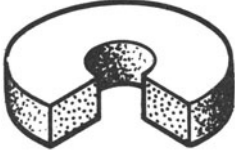
- 11.476 e grinding
d Schleifen n
f rectification f, meulage m
nl slijpen n
r шлифование n



- 11.477 e grinding wheel
d Schleifscheibe f, Schleifkörper m
f disque m à meuler, meule f
nl slijpschijf f(m)
r шлифовальный круг m
(→ 11.476)
- 11.478 e grinding wheel shape
d Randform f der Schleifscheibe
f configuration f de disque à meuler
nl vorm m van de slijpschijf
r форма f [тип m] шлифовального круга
(→ 11.479 - 11.485)
- 11.479 e straight wheel
d gerade Schleifscheibe f

11.479

f meule f plate
nl rechte slijpschijf f(m)
r плоский круг m прямо-
го профиля

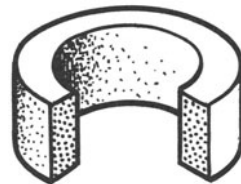


11.480 e recessed straight wheel
d gerade einseitig ausgesparte
Schleifscheibe f
f meule f plate à embrève-
ment
nl rechte slijpschijf f (m)
met één uitsparing
r плоский круг m с вы-
точкой



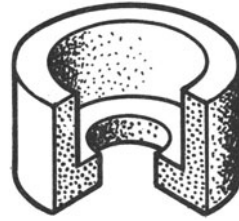
11.481 e recess
d Aussparung f
f embrèvement m
nl uitsparing f
r выточка f
(→ 11.480)

11.482 e cylinder wheel
d Schleifring m
f meule f couronne
nl slijpring m
r кольцевой круг m, круг-
кольцо n



11.483 e straight cup wheel
d gerade Topf(schleif)schei-
be f, gerader Schleiftopf m
f meule f à boisseau droit
nl rechte komlijpschijf
f (m)

г чашечный цилиндриче-
ский круг m, цилиндри-
ческая чашка f



11.484 e flaring cup wheel
d kegelige Topf(schleif)-
scheibe f, kegeliger Schleif-
topf m
f meule f à boisseau conique
nl conische komlijpschijf
f (m)
r чашечный конический
круг m, коническая
чашка f

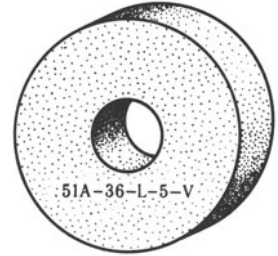


11.485 e dish wheel
d Teller(schleif)scheibe f
f meule f assiette
nl schotelijpschijf f (m)
r тарельчатый (шлифо-
вальный) круг m



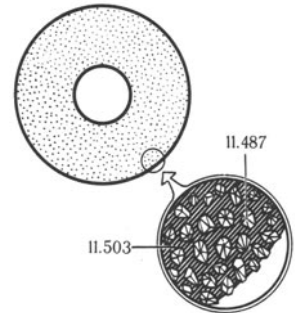
11.486 e grinding wheel specifica-
tion
d Schleifscheibencharakte-
ristik f
f caractéristique f de meule
nl karakteristiek f van de
slijpschijf

г характеристика f шли-
фовального круга



51A-36-L-5-V
11.487 11.492 11.497 11.503
11.500

11.487 e abrasive
d Schleifmittel n
f abrasif m
nl slijpmiddel n, slijpmate-
riaal n
r абразив m

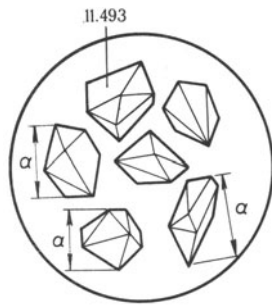


11.488 e aluminium oxide
d Elektrokorund m
f électrocorindon m
nl korund(um) n
r электрокорунд m
 Al_2O_3

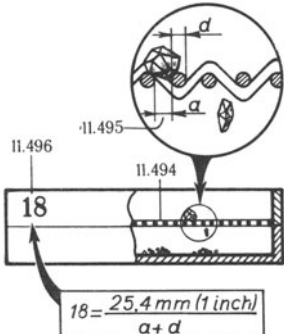
11.489 e silicon carbide
d Siliziumkarbid n
f carbure m de silicium
nl siliciumcarbide n
r карбид m кремния
 SiC

11.490 c (cubic) boron nitride, bo-
razon
d kubisches Bornitrid n
f nitride m cubique de bore
nl (kubisch) boornitride n

- r (кубический) нитрид м бора, эльбор м
BN
- 11.491 e diamond
- d Diamant n
- f diamant m
- nl diamant n
- r алмаз м
- 11.492 e grit (grain) size
- d Korngröße f, Körnung f
- f grosseur f du grain
- nl korrelgrootte f
- r зернистость f, размер м зерна

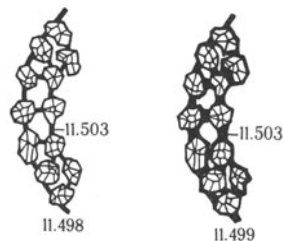


- 11.493 e grain
- d Korn n
- f grain m
- nl korrel m
- r зерно n (→ 11.492)
- 11.494 e sieve screen
- d Sieb n
- f tamis m
- nl zeef f(m)
- r ситовая сетка f

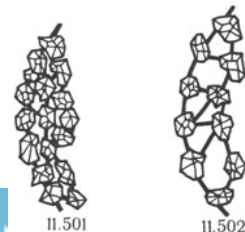


- 11.495 e screen opening
- d Siebmasche f
- f maille f de tamis

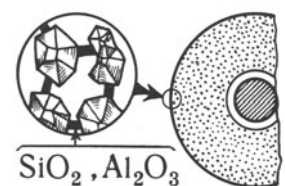
- nl zeefmaas f(m)
- r ячейка f сита (→ 11.494)
- 11.496 e sieve screen number
- d Prüfsiebnummer f, Siebmaschenzahl f
- f numéro m de tamis
- nl zeefmaat f(m)
- r номер м сита (→ 11.494)
- 11.497 e grade (of grinding wheel)
- d Härte(grad) f(m) der Schleifscheibe
- f dureté f (de meule)
- nl hardheid f van de slijpschijf
- r твёрдость f (шлифовального круга)



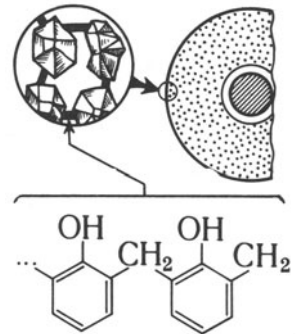
- 11.498 e soft grade wheel
- d weiche Scheibe f
- f meule f douce
- nl zachte slijpschijf f(m)
- r мягкий круг м (→ 11.497)
- 11.499 e hard grade wheel
- d harte Scheibe f
- f meule f dure
- nl harde slijpschijf f(m)
- r твёрдый круг м (→ 11.497)
- 11.500 e structure (of grinding wheel)
- d Gefüge n (der Schleifscheibe)
- f structure f (de meule)



- nl structuur (van de slijpschijf)
- r структура f (шлифовального круга)
- 11.501 e dense structure
- d dichtes Gefüge n
- f structure f dense
- nl compacte structuur f
- r плотная структура f (→ 11.500)
- 11.502 e open structure
- d offenes Gefüge n
- f structure f ouverte
- nl open structuur f
- r открытая структура f (→ 11.500)
- 11.503 e bond
- d Bindung f
- f agglomérant m
- nl bindmiddel n
- r связка f (→ 11.497, 11.504 - 11.507)
- 11.504 e vitrified bond
- d keramische Bindung f
- f agglomérant m vitrifié
- nl keramisch bindmiddel n
- r керамическая связка f

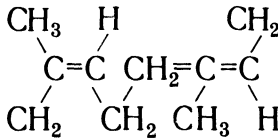
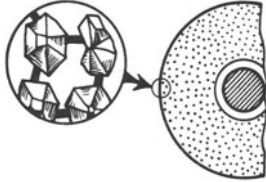


- 11.505 e resinoid bond
- d Kunstharzbindung f
- f agglomérant m bakélite
- nl kunstharzbindmiddel n
- r бакелитовая связка f

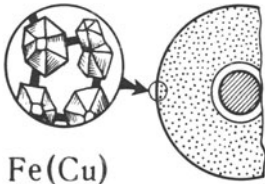


11.506

- 11.506 e rubber bond
 d Gummibindung f
 f agglomérant m caoutchou-
 teux
 nl rubberbinding f
 r вулканитовая связка f

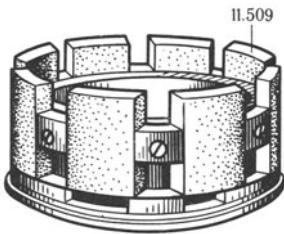


- 11.507 e metal bond
 d Metallbindung f
 f agglomérant m métallique
 nl metaalbinding f
 r металлическая связка f



Fe(Cu)

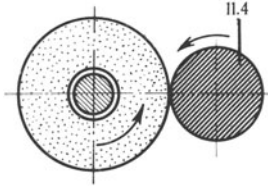
- 11.508 e segmental grinding wheel
 d Segment-Schleifscheibe f
 f meule f en segments
 nl segmentslijpschijf f(m)
 r сегментный шлифоваль-
 ный круг m



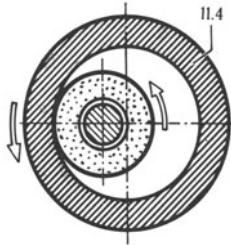
- 11.509 e grinding segment
 d Schleifsegment n
 f segment m de meule

- nl slijpsegment n
 r шлифовальный сегмент m
 (→ 11.508)

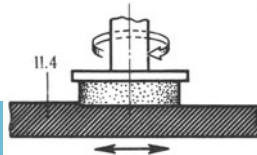
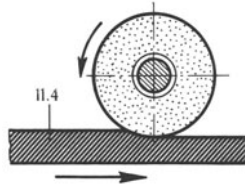
- 11.510 e cylindrical grinding
 d Aussenrundscheifen n
 f rectification f circulaire
 nl rondslipen n
 r круглое шлифование n



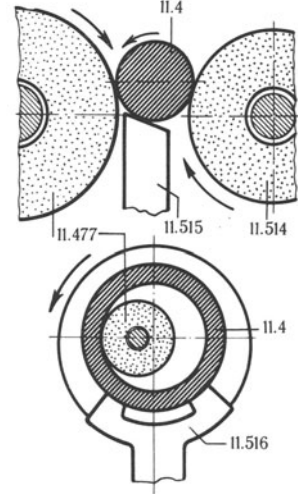
- 11.511 e internal grinding
 d Innenschleifen n
 f rectification f intérieure
 nl binnenslijpen n
 r внутреннее шлифова-
 ние n



- 11.512 e surface grinding
 d Flachscheifen n
 f rectification f plane, sur-
 façade m
 nl vlakslipen n
 r плоское шлифование n



- 11.513 e centerless [centreless]
 grinding
 d spitzenloses Schleifen n
 f rectification f sans centres
 nl centerloos slijpen n
 r бесцентровое шлифова-
 ние n

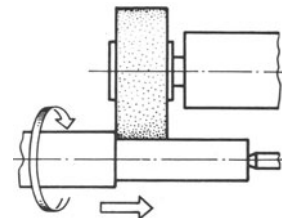


- 11.514 e regulating wheel
 d Regelscheibe f
 f meule f principale
 nl voedingssteen m
 r ведущий круг m
 (→ 11.513)

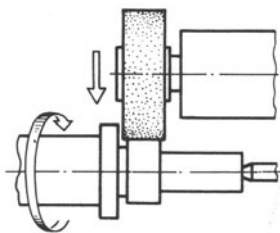
- 11.515 e work rest blade
 d Schiene f, Auflage f
 f couteau m d'appui
 nl steun m werksteun
 r опорный нож m
 (→ 11.513)

- 11.516 e supporting shoe
 d Gleitschuh m
 f sabot m d'appui
 nl steunschoen m
 r опорный башмак m
 (→ 11.513)

- 11.517 e traverse grinding
 d Langscheifen n

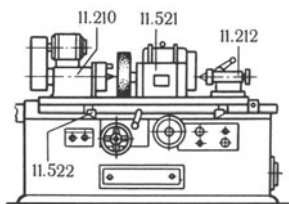


- f rectification f en chariotage
nl langsslijpen n
r продольное шлифование n, шлифование продольными проходами
11.518 e plunge(-cut) grinding
d Einstechschleifen n
f rectification f en plongée
nl insteekslipen n
r врезное шлифование n



- 11.519 e grinding machine, grinder
d Schleifmaschine f
f rectifieuse f
nl slijpmachine f
r шлифовальный станок m
(→ 11.520, 11.523, 11.524, 11.528, 11.532, 11.533, 11.535)

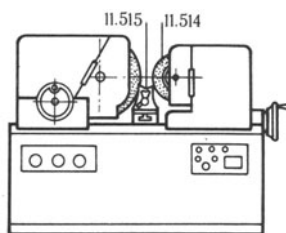
- 11.520 e cylindrical grinding machine
d Aussenrundscheifmaschine f
f rectifieuse f cylindrique
nl rondslipmachine f
r круглошлифовальный станок m



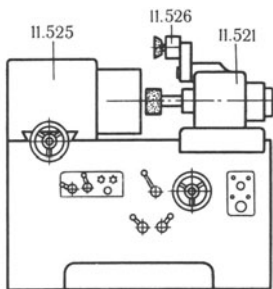
- 11.521 e wheelhead
d Schleifspindelstock m
f poupée f porte-meule
nl slijpkop m
r шлифовальная бабка f
(→ 11.520)

- 11.522 e tripping dog
d Umsteuerknagge m
f butée f de renversement de marche
nl omkeermecanisme n
r упор m реверса, переключающий упор
(→ 11.520)

- 11.523 e centerless [centreless] grinding machine
d spitzenlose Schleifmaschine f
f rectifieuse f sans pointes
nl centerloze slijpmachine f
r бесцентровошлифовальный станок m



- 11.524 e internal grinding machine
d Innenschleifmaschine f
f rectifieuse f intérieure
nl binnenslijpmachine f
r внутришлифовальный станок m

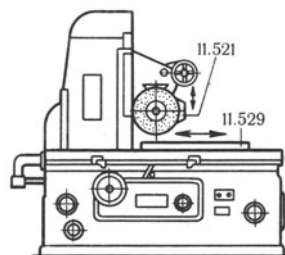


- 11.525 e workhead
d Werkstückspindelkasten m, Werkstückspindelstock m
f poupée f porte-pièce
nl werkstukdrager m, spijkop m
r бабка f изделия
(→ 11.524)

- 11.526 e face-grinding spindle
d Planschleifspindel f
f broche f pour meule plate
nl vlakslipspil f(m)
r торцешлифовальный шпиндель m
(→ 11.524)

- 11.527 e surface grinding machine
d Flachscheifmaschine f
f rectifieuse f plane
nl vlakslipmachine f
r плоскошлифовальный станок m
(→ 11.528, 11.532)

- 11.528 e reciprocating-table horizontal-spindle surface grinding machine
d Langtisch-Waagerechtlachscheifmaschine f
f rectifieuse f plane à table rectangulaire et broche horizontale
nl horizontale vlakslipmachine f met bewegende tafel
r плоскошлифовальный станок m с прямоугольным столом и горизонтальным шпинделем

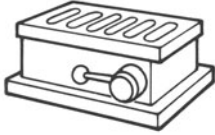


- 11.529 e magnetic chuck
d Magnetspanplatte f
f table f de fixation magnétique
nl magnetische opspanplaat f (m)
r магнитная плита f
(→ 11.528, 11.530, 11.531)

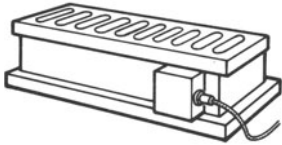
- 11.530 e permanent magnetic chuck
d Permanentmagnet-Spanplatte f
f table f de fixation à aimants permanents

11.530

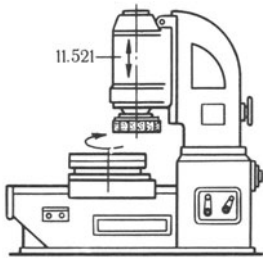
- nl opspanplaat f(m) met permanente magneten
 r магнитная плита f с постоянными магнитами



- 11.531 e electromagnet(ic) chuck
 d Elektromagnet-Spannplatte f
 f table f de fixation à électro-aimant
 nl elektromagnetische opspanplaat f(m)
 r электромагнитная плита f

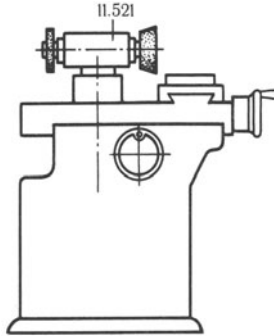


- 11.532 e rotary table vertical-spindle surface grinding machine
 d Rundtisch-Senkrechtflächschleifmaschine f
 f rectifieuse f plane à table pivotante et broche verticale
 nl verticale vlakslijpmachine f (m) met roterende tafel
 r плоскошлифовальный станок m с круглым столом и вертикальным шпинделем



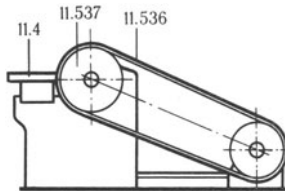
- 11.533 e tool-and-cutter grinding machine
 d Scharfschleifmaschine f, Werkzeugschleifmaschine

- f affûteuse f
 nl gereedschapslijpmachine f
 r заточный станок m



- 11.534 e abrasive-belt grinding
 d Bandschleifen n
 f rectification f pour bande abrasive
 nl bandschuren n
 r ленточное шлифование n (→ 11.535)

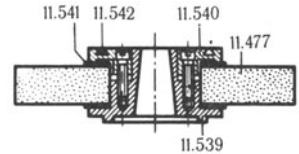
- 11.535 e abrasive-belt grinding machine
 d Bandschleifmaschine f
 f rectifieuse f à bande abrasive
 nl bandschuurmachine f
 r ленточношлифовальный станок m



- 11.536 e abrasive belt
 d Schleifband n
 f bande f abrasive
 nl schuurband m, schuurriem m
 r шлифовальная лента f (→ 11.535)

- 11.537 e contact roll
 d Kontaktscheibe f, Kontaktrolle f
 f poulie f de contact
 nl contactrol f(m)
 r контактный ролик m (→ 11.535)

- 11.538 e mounting of grinding wheel
 d Aufspannen n [Aufnahme f] der Schleifscheibe
 f fixation f de meule
 nl opspannen n van de slijpschijf
 r крепление n шлифовального круга



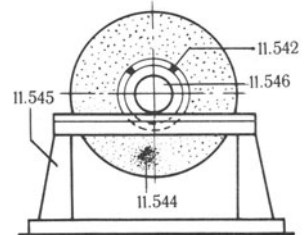
- 11.539 e adapter
 d Aufnahmehülse f
 f douille f de réduction
 nl verloophuls f (m)
 r переходный фланец m (→ 11.538)

- 11.540 e clamping [loose] flange
 d Spannflansch m
 f flasque m de fixation
 nl klemschijf f (m)
 r прижимный фланец m (→ 11.538)

- 11.541 e gasket
 d Zwischenlage f
 f garniture f
 nl pakking f
 r прокладка f (→ 11.538)

- 11.542 e balance weight
 d Ausgleichgewicht n, Auswuchtgewicht
 f poids m d'équilibrage
 nl balansgewicht n
 r балансировочный грузик m (→ 11.538, 11.543)

- 11.543 e balancing
 d Auswuchten n
 f équilibrage m
 nl balancering f
 r балансировка f

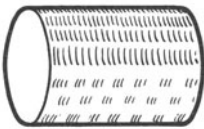


11.544 e unbalance, out-of-balance
d Unwucht f
f balourd m
nl onbalans f(m)
r неуровненность f,
дисбаланс m
(→ 11.543)

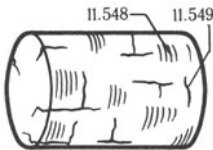
11.545 e balancing stand
d Auswuchtgerät n
f banc m d'équilibrage
nl balanceerinrichting f
r балансировочное при-
способление n
(→ 11.543)

11.546 e balancing arbor [mandrel]
d Auswuchtdorn m
f mandrin m d'équilibrage
nl balanceerdoorn m
r балансировочная оправ-
ка f
(→ 11.543)

11.547 e chatter marks
d Rattermarken f pl
f broyage m
nl slijpbeeld n
r дробление n, волни-
стость f (из-за вибрации)



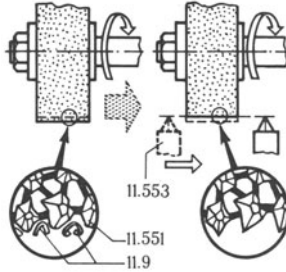
11.548 e burning
d Brennspur f, Brandfleck m
f brûlage m
nl inbranden n
r прижог m



11.549 e surface (grinding) crack
d Schleiffriss m
f fissure f en rectification
nl slijpbarstje n
r шлифовочная трещина f
(→ 11.548)

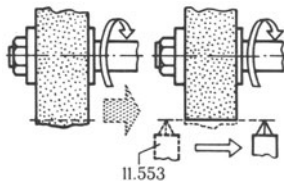
11.550 e dressing
d Abrichten n, Abziehen n
f dressage m, rectification f

nl afdraaien n
r правка f (шлифоваль-
ного круга для восста-
новления режущей спо-
собности)



11.551 e dull grain
d verstumpftes Korn n
f grain m désaffûté
nl bot geworden korrel m
r затупленное зерно n
(→ 11.550)

11.552 e trueing
d Abrichten n
f dressage m, rectification f,
profilage m
nl afdraaien n
r правка f (шлифоваль-
ного круга для восста-
новления профиля)



11.553 e dresser
d Abrichtwerkzeug n, Ab-
richter m
f dresseur m
nl afdraaimachine f
r правящий инструмент m
(→ 11.550, 11.552,
11.555 – 11.557)

11.554 e diamond dresser
d Diamantabrichter m
f dresseur m diamanté
nl diamantafdraai-inrichting f
r алмазный правящий ин-
струмент m
(→ 11.555, 11.556)

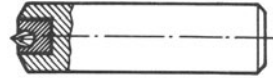
11.555 e single-point diamond dres-
ser

d Einzeldiamantabrichter m,
Diamant-Einzelkornab-
richter

f dresseur m à seul diamant

nl enkelsteensdiamantaf-
draai-inrichting f

r однокристалльный ал-
мазный правящий ин-
струмент m



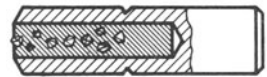
11.556 e multi-point diamond
dresser

d Vielkornabrichter m

f dresseur m au diamant
multipointes

nl meersteensdiamantaf-
draai-inrichting f

r алмазно-металлический
карандаш m



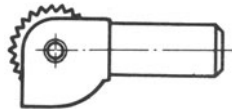
11.557 e star-type dresser

d gezacktes Abrichtträdchen n

f dresseur m en étoile

nl getande afdraai-inrichting f

r правящий инструмент m
со звёздочками

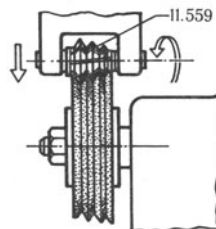


11.558 e crush forming

d Einrollprofilieren n

f profilage m par moletage

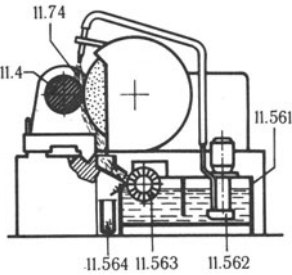
nl profileren f door kartelen
r профилирование n нака-
тыванием



11.559

- 11.559 e crush (forming) roll
 d Einrollrad n
 f molette f de profilage
 nl kartelrol f(m)
 r накатный ролик m
 (→ 11.558)

- 11.560 e wet grinding
 d Nass-Schleifen n
 f meulage m en arrosant
 nl natlijpen n
 r шлифование n с охлаждением



- 11.561 e coolant tank
 d Kühlmittelbehälter m
 f bac m pour liquide frigorifique
 nl koelmiddel tank m
 r бак m для охлаждающей жидкости
 (→ 11.560)

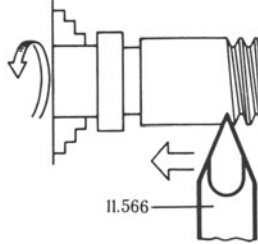
- 11.562 e coolant pump
 d Kühlmittelpumpe f
 f pompe f de refroidissement
 nl koelmiddel pomp f(m)
 r насос m охлаждения
 (→ 11.560)

- 11.563 e magnetic separator
 d Magnetabscheider m
 f séparateur m magnétique
 nl magneetscheider m
 r магнитный сепаратор m
 (→ 11.560)

- 11.564 e abrasive slurry
 d Schleifrückstände m pl
 f déblais m pl
 nl slijpsel n
 r шлам m, шлифовальный ил m
 (→ 11.560)

Threading
Gewindebearbeitung
Filetage
Bewerking van schroefdraad
Обработка резьбы

- 11.565 e thread cutting
 d Gewindeschneiden n
 f filetage m
 nl (schroef)draadsnijden n
 r нарезание n резьбы, резьбонарезание n

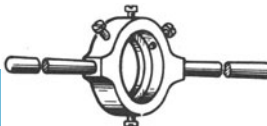


- 11.566 e single-point threading tool, thread turning tool
 d Gewinde(dreh)meißel m
 f outil m à fileter
 nl schroefdraadbeitel m, draadsnijbeitel
 r резьбовой резец m
 (→ 11.565)

- 11.567 e (screw) threading die
 d Schneideisen n
 f peigne m
 nl snijblok n
 r плашка f

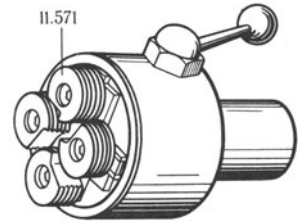


- 11.568 e (hand) diestock
 d Schneideisenhalter m
 f filière f
 nl snijblokhouder m
 r клупп m



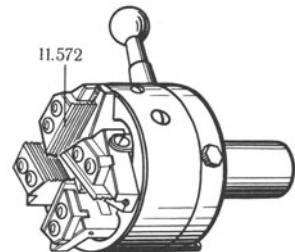
- 11.569 e thread-cutting head
 d Gewindeschneidkopf m
 f tête f à fileter
 nl schroefdraadsnijkop m
 r резьбонарезная головка f
 (→ 11.570, 11.572, 11.573, 11.588)

- 1.570 e quick-opening [self-opening] (thread-cutting) die (head)
 d selbstöffnender [selbstaustauschender] Gewindeschneidkopf m für Aussen-gewinde
 f porte-filière m à déclenchement
 nl snijkop m
 r винторезная головка f

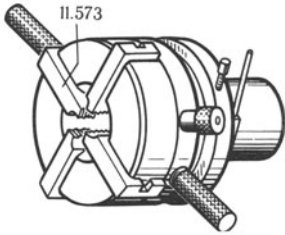


- 11.571 e circular chaser
 d kreisförmiger Gewindestreihbacken m
 f peigne m disque
 nl cirkelvormig schroefdraad-snijkussen n
 r дисковая гребёнка f
 (→ 11.570)

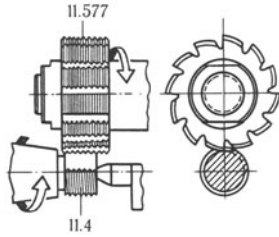
- 11.572 e tangential chaser
 d Tangential(-Gewinde)-strehlbacken m
 f peigne m tangentiel
 nl tangentiaal schroefdraad-snijkussen n
 r тангенциальная (призматическая) гребёнка f



- 11.573 e radial chaser
 d Radial-Gewindestrehl-
 backen m
 f peigne m radial
 nl radiaal schroefdraad-
 snijkussen n
 r радиальная (призмати-
 ческая) гребёнка f



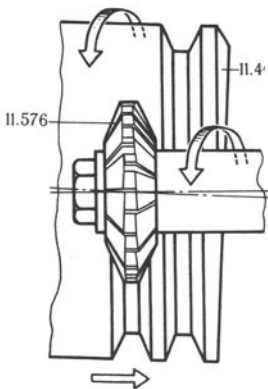
- 11.577 e multiple-thread milling
 cutter
 d walzenförmiger Gewin-
 defräser m
 f fraise f mère pour file-
 tage
 nl meervoudige schroef-
 draadfrees f (m)
 r гребенчатая резьбовая
 фреза f



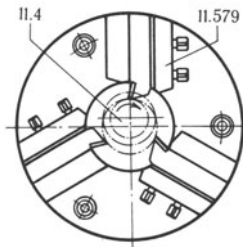
- 11.574 e thread milling
 d Gewindefräsen n
 f filetage m par fraise
 nl schroefdraadfrezen n
 r резьбофрезерование n
 (→ 11.576 – 11.578)

- 11.575 e thread-milling cutter
 d Gewindefräser m
 f fraise f à fileter
 nl draadfrees f (m)
 r резьбовая фреза f
 (→ 11.576 – 11.578)

- 11.576 e single-thread milling cutter
 d scheibenförmiger Gewin-
 defräser m
 f fraise-disque f à fileter
 nl enkelvoudige schroef-
 draadfrees f (m)
 r дисковая резьбовая фре-
 за f



- 11.578 e planetary thread-milling
 d Gewindefräsen n
 (mit Ausseneingriff),
 Gewindefräsen n
 f filetage m par fraisage
 planétaire
 nl planeetschroefdraad-
 frezen n
 r вихревое [охватыва-
 ющее] резьбофрезеро-
 вание n



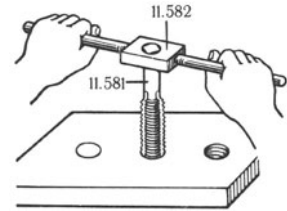
- 11.579 e planetary thread-milling
 head
 d Gewindefräsenkopf m
 f tête f pour filetage par
 fraisage planétaire
 nl planeetdraad-
 snijkop m
 r вихревая резьбонаре-
 зная головка f
 (→ 11.578)

- 11.580 e tap
 d Gewindebohrer m
 f taraud m

- nl (snij)tap m
 r метчик m

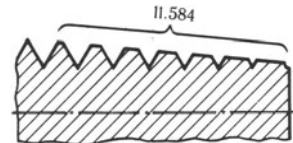


- 11.581 e hand tap
 d Handgewindebohrer m
 f taraud m à main
 nl handtap m
 r ручной метчик m



- 11.582 e tap wrench
 d Windeisen n
 f tourne-à-gauche m
 nl taphouder m, tapkruk
 f (m)
 r (ручной) вороток m
 (→ 11.581)

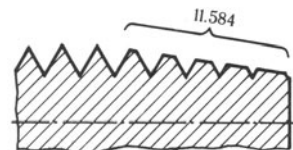
- 11.583 e taper tap
 d Vorschneider m
 f taraud m ébaucheur
 nl eerste tap m, voorsnijder
 r черновой метчик m



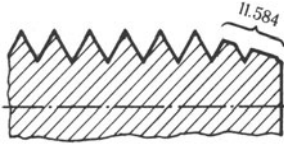
- 11.584 e (tap) chamfer
 d Anschnitt m
 f partie f conique du taraud
 nl voorsnijgedeelte n

- r заборная часть f
 (→ 11.583, 11.585,
 11.586)

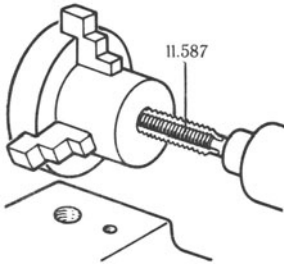
- 11.585 e plug tap
 d Mittelschneider m
 f taraud m intermédiaire
 nl middensnijtap m, rechte
 tap
 r средний метчик m



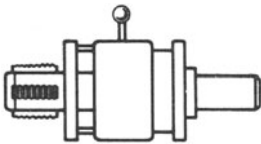
- 11.586 e bottoming tap
 d Fertigschneider m
 f taraud m finisseur
 nl eindsnijder m, nasnijder
 r чистовой метчик m



- 11.587 e machine tap
 d Maschinengewindebohrer m
 f taraud m à machine
 nl machinetap m
 r машинный метчик m



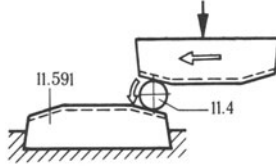
- 11.588 e collapsible tap
 d selbstauslösender Gewin-
 dschneidkopf m für Innen-
 gewinde
 f tête f à tarauder
 nl schroefboorkop m
 r гайконарезная головка f



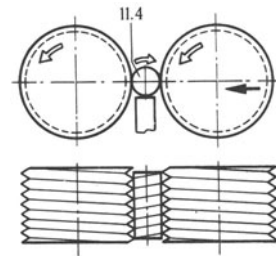
- 11.589 e thread rolling
 d Gewindewalzen n, Gewin-
 derollen n
 f filetage m par laminage
 nl draadrollen n, draadplet-
 ten n
 r накатывание n резьбы.
 резьбонакатывание
 (→ 11.591, 11.592)

- 11.590 e thread-rolling die
 d Gewindewalzbacke f
 f molette f simple
 nl schroefpletijzer n
 r накатная плашка f
 (→ 11.591, 11.592)

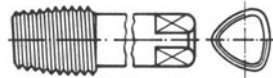
- 11.591 e flat thread-rolling die
 d flache Gewindewalz-
 backe f
 f molette f simple à plate
 nl vlak schroefpletijzer n
 r плоская накатная плаш-
 ка f



- 11.592 e circular thread-rolling die
 d Gewindewalzrolle f
 f molette f filetée
 nl rol f(m) voor het rollen
 van schroefdraad
 r резьбонакатный ролик m



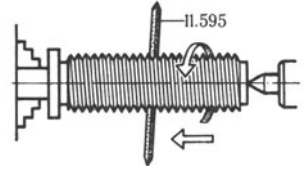
- 11.593 e fluteless tap
 d Gewindefurcher m
 f taraud m pour filetage
 par laminage
 nl schroefdraaduitroller m
 r метчик-накатник m,
 (резьбовой) раскатник m



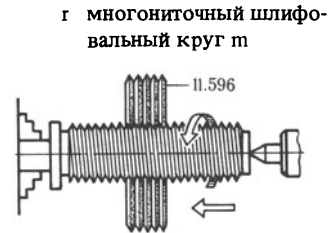
- 11.594 e thread grinding
 d Gewindeg Schleifen n
 f filetage m par meulage
 nl schroefdraadslijpen n
 r резьбошлифование n
 (→ 11.595, 11.596)

- 11.595 e single-rib grinding wheel
 d einrillige Schleifscheibe f
 f meule f à filet simple
 nl enkelvoudige slijpschijf
 f(m)

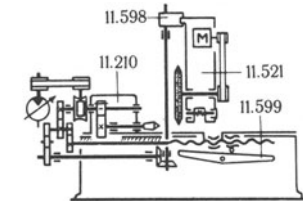
- г однориточный шлифо-
 вальный круг m



- 11.596 e multi-rib grinding wheel
 d mehrillige Schleifscheibe f
 f meule f à filets multi-
 ples
 nl meervoudige slijpschijf
 f (m)



- 11.597 e thread-grinding machine,
 thread grinder
 d Gewindeg Schleifmaschine f
 f machine f à rectifier file-
 tages
 nl schroefdraadslijpmachine f
 r резьбошлифовальный
 станок m

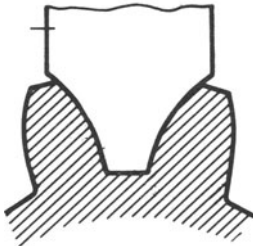


- 11.598 e relieving cam
 d Hinterschleifkurve f
 f came f à dépouille
 nl achterslijpnok f(m)
 r затыловочный кулачок m
 (→ 11.597)

- 11.599 e lead compensator
 d Korrekturlineaal n
 f règle f à compensation
 nl correctielineaal f(m)
 r корректировочная [кор-
 рекционная] линейка f
 (→ 11.597)

Gear Making
Zahnradherstellung
Production des engrenages
Tandwielenfabricage
Изготовление зубчатых колёс

- 11.600 e gear cutting
 d Verzahnen n
 f taillage m
 nl tandwielfrezen n
 r зубонарезание n, нарезание зубьев
 (→ 11.601, 11.602)
- 11.601 e (form-)copying method
 d Formverfahren n
 f taillage m au gabarit
 nl kopieermethode f
 r метод m копирования

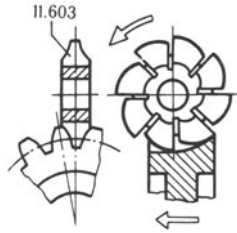


- 11.602 e (form-)generating method
 d Wälzverfahren n
 f taillage m par génération
 nl afwikkelpoces n, afwikkelmethode f
 r метод m обката [обкатки, огибания]

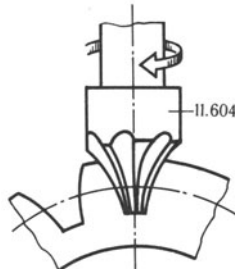


- 11.603 e involute side milling cutter
 d scheibenförmiger Zahnformfräser m
 f fraise-disque f au module
 nl moduulschijffrees f(m)

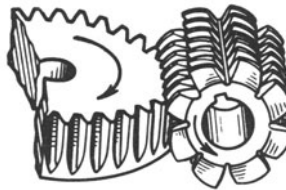
r дисковая модульная фреза f



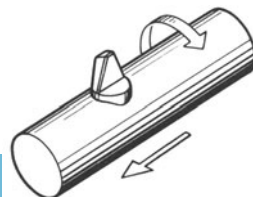
- 11.604 e involute end mill
 d Zahnform-Schaftfräser m, Zahnform-Fingerfräser
 f fraise f à doigt au module
 nl moduulvingerfrees f(m)
 r пальцевая модульная фреза f



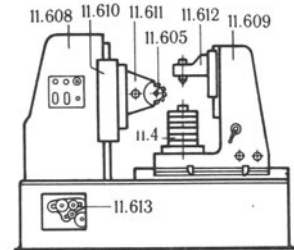
- 11.605 e (gear) hob, gear hobbing cutter
 d Wälzfräser m
 f fraise f vis-mère
 nl wormfrees f(m)
 r червячная (зуборезная) фреза f



- 11.606 e flyhob
 d Schlagmesser n, Drehzahn m, Schlagformmeissel m, Schlagzahn



- f fraise f à dent unique
 nl slagmes n
 r однозубая фреза f, летучий резец m
- 11.607 e gear hobbing machine
 d Wälzfräsmaschine f
 f machine f à tailler engrenages par fraise
 nl afwikkeltandradfreesmachine f
 r зубофрезерный станок m (обкатного типа)



- 11.608 e front column
 d Hauptständer m, Fräskopfträger m
 f colonne f frontale
 nl voorste staander m
 r передняя стойка f
 (→ 11.607)
- 11.609 e rear column
 d Gegenstände m
 f colonne f de derrière
 nl achterste staander m
 r задняя стойка f
 (→ 11.607)
- 11.610 e hob slide
 d Frässchlitten m
 f support m à fraiser
 nl freesslede f(m), freessupport n
 r фрезерный суппорт m
 (→ 11.607)
- 11.611 e hob swivel head
 d Frässchlittenführungsbahn-Drehteil m, schwenkbare Frässupport m
 f tête f porte-fraise pivotante
 nl draaibare freeskop m
 r фрезерная поворотная головка f
 (→ 11.607)
- 11.612 e work support arm
 d Gegenhalter m
 f équerre f de montage
 nl tegenhouder m

11.612

- r кронштейн м (изделия) (→ 11.607)
- 11.613 e change gear train
- d Wechsellradschere f
- f train m de roues dentées amovibles, lyre f
- nl wisselwielenkast f(m)
- r гитара ф сменных шестерён (→ 11.607)
- 11.614 e kinematic diagram (of a hobbing machine)
- d Getriebeplan m (der Wälzfräsmaschine)
- f schéma m cinématique (de machine à tailler les engrenages par fraise)
- nl aandrijfschema n (voor tandwielvreesmachine)
- r кинематическая схема ф (зубофрезерного станка)

- 11.615 e gear train
- d Getriebezug m
- f chaîne f cinématique
- nl tandwieloverbrenging f
- r кинематическая цепь ф (→ 11.614)

- 11.616 e gear train of indexing and generating motion
- d Getriebezug m für Teil- und Wälzbewegung
- f chaîne f cinématique de génération
- nl verdeelwisselwielen n pl

- r кинематическая цепь ф деления – обката VI–V–IV–III–VII–VIII–IX–X (→ 11.614)

- 11.617 e gear train of primary motion
- d Getriebezug m für Hauptbewegung
- f chaîne f cinématique de commande principale
- nl tandwieloverbrenging f voor de hoofdbeweging
- r кинематическая цепь ф главного движения I–II–III–IV–V–VI (→ 11.614)

- 11.618 e gear train of vertical feed
- d Getriebezug m für Vorschubbewegung
- f chaîne f cinématique d'avance verticale
- nl tandwieloverbrenging f voor de verticale voeding
- r кинематическая цепь ф вертикальной подачи XV–XIV–XIII–XII–XI–IX–X (→ 11.614)

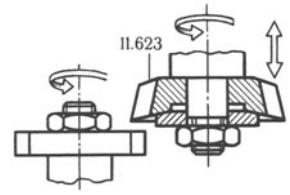
- 11.619 e index change gears
- d Teilwechsellräder n pl
- f lyre f de division
- nl indexeerwisselwielen n pl
- r гитара ф деления (→ 11.614)

- 11.620 e feed change gears
- d Vorschubwechsellräder n pl

- f lyre f d'avance
- nl voedingswisselwielen n pl
- r гитара ф подачи (→ 11.614)

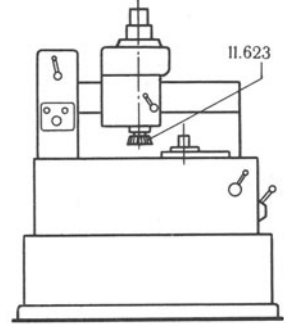
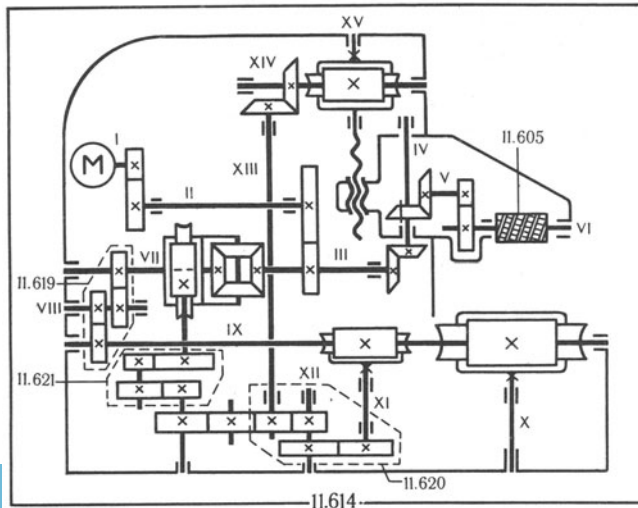
- 11.621 e differential change gears
- d Differentialwechsellräder n pl
- f lyre f de différentiel
- nl differentiaalwisselwielen n pl
- r гитара ф дифференциала (→ 11.614)

- 11.622 e gear shaping
- d Wälzstossen n
- f taillage m [rabotage m] par outil-pignon
- nl afwikkelsteken n
- r зубодолбление n

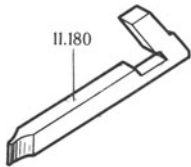
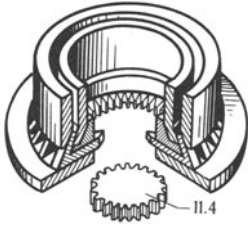


- 11.623 e gear-shaper cutter
- d Schneidrad n
- f outil-pignon m
- nl beitelwiel n
- r (зуборезный) долбяк м (→ 11.622)

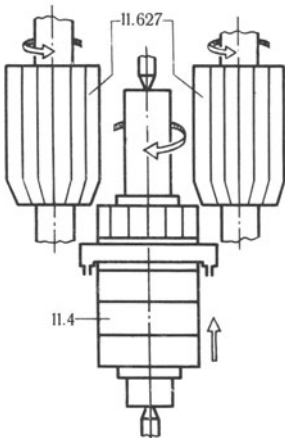
- 11.624 e gear shaping machine, gear shaper
- d Wälzstossmaschine f
- f machine f à tailler engrenages par outil-pignon
- nl tandwielsteekmachine f volgens de afwikkelmethode
- r зубодолбежный станок м



- 11.625 e multiple-blade gear-cutting head, shear-speed gear shaper
 d Shear-Speed-Schneidkopf m
 f tête f à tailler engrenages par outil-pignon
 nl (volbezet) steekwiel n
 r зубодолбежная головка f

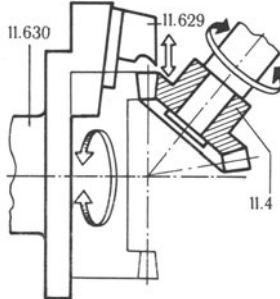


- 11.626 e gear rolling
 d Zahnradwalzen n, Zahnradrollen n
 f taillage m par molettage
 nl tandwielrollen n
 r зубонакатывание n



- 11.627 e gear roll
 d Zahnradwalzrolle f
 f molette f pour taillage
 nl tandwielrol f(m)
 r зубчатый накатник m. (→ 11.626)

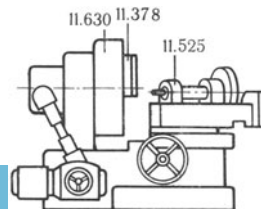
- 11.628 e bevel gear cutting by reciprocating tools
 d Kegelradhobeln n, Wälzhobeln
 f rabotage m de roues coniques
 nl schaven n van conische tandwielen
 r зубострогание n конических колёс



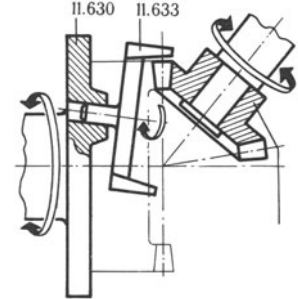
- 11.629 e reciprocating gear cutting tool
 d Wälzhobelmeissel m
 f outil m de rabotage des engrenages
 nl schaafbeitel m
 r зубострогальный резец m (→ 11.628)

- 11.630 e cradle
 d Schwenkkopf m, Wälzkörper m
 f tête f universelle birotative et coulissante
 nl zwenkkoep m
 r люлька f (→ 11.628, 11.632)

- 11.631 e straight-bevel-gear generator
 d Kegelradhobelmaschine f, Wälzhobelmaschine
 f machine f à raboter engrenages coniques
 nl tandschaafmachine f (voor conische wielen)
 r зубострогальный станок для конических колёс



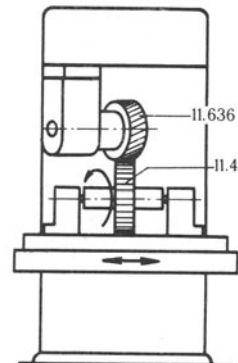
- 11.632 e spiral-bevel-gear cutting
 d Spiralkegelrad-Verzahnmaschine f
 f taillage m engrenages coniques à denture spirale
 nl conische schroefwielen snijden
 r нарезание n конических колёс с круговыми зубьями



- 11.633 e face-mill type cutter head
 d Messerkopf m
 f tête f de taillage en bout
 nl messenkop m
 r торцовая резцовая головка f (→ 11.632)

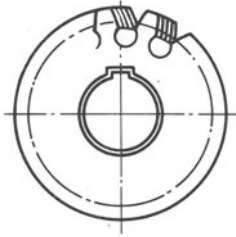
- 11.634 e gear shaving
 d Zahnradschaben n, Wälzschaben n
 f rasage m
 nl schrapen n
 r шевингование n (→ 11.635)

- 11.635 e gear-shaving machine
 d Zahnradschabmaschine f

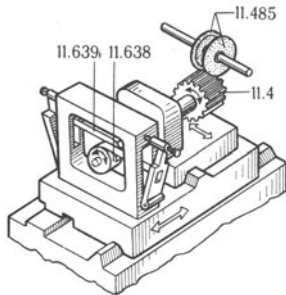


f machine f pour rasage engrenages
 nl tandwielschraapmachine f
 r (зубо) шевинговальный станок m

11.636 e gear-shaving cutter
 d Schabrad n
 f outil m pour rasage, couteau m de shaving
 nl schraapwiel n
 r шевер m



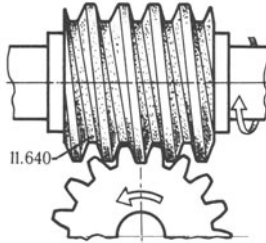
11.637 e gear grinding
 d Zahnradschleifen
 f rectification f des roues dentées
 nl tandwielslijpen n
 r зубошлифование n



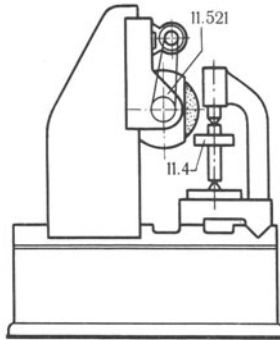
11.638 e pitch disk block
 d Wälzbogen m, Wälzrolle f
 f disque m conjugué
 nl rolboog m
 r обкатный диск [барбан] m

11.639 e steel band [tape]
 d Wälzband n
 f bande f d'acier
 nl stalen band m
 r обкатная лента f (→ 11.638)

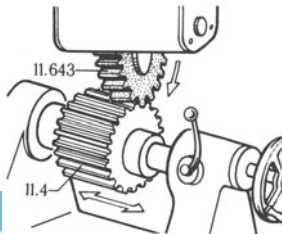
11.640 e helically profiled grinding wheel
 d Schleifschnecke f
 f meule f profilée en forme de vis tangente
 nl slijpworm m
 r абразивный червяк m



11.641 e gear grinding machine, gear grinder
 d Zahnradschleifmaschine f
 f machine f à rectifier engrenages
 nl tandwielslijpmachine f
 r зубошлифовальный станок m



11.642 e gear honing
 d Zahnradhonen n



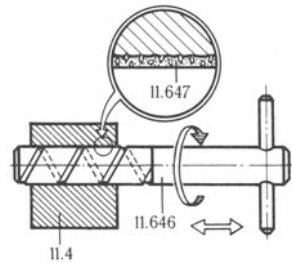
f hon(n)ing m des engrenages
 nl tandwielhonen n
 r зубохонингование n

11.643 e gear hone
 d Honrad n
 f honn m pour engrenages
 nl hoonwiel n
 r зубчатый хон m, абразивный шевер m (→ 11.642)

Finishing
Feinbearbeitung
Finition
Fijnbewerking
Отделочная обработка

11.644 e finishing
 d Feinbearbeitung f
 f finition f
 nl eindbewerking f
 r отделочная обработка f (→ 11.645, 11.654, 11.661, 11.663, 11.665, 11.672)

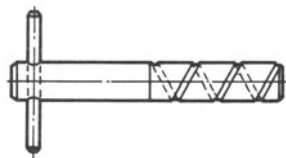
11.645 e lapping
 d Läppen n
 f rodage m
 nl lappen n
 r притирка f, доводка f



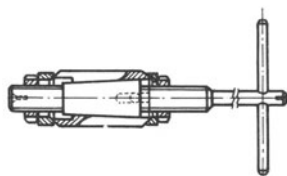
11.646 e lap
 d Läppwerkzeug n
 f rodoir m
 nl lapdoorn m, lapwerktuig n
 r притир m (→ 11.645, 11.648 – 11.650)

- 11.647 e lapping compound
 d Läppmittel n
 f pâte f à roder
 nl lapmiddel n
 r притирочная [доводочная] паста
 (→ 11.645)

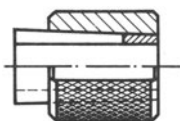
- 11.648 e solid lap
 d fester Läppdorn m
 f rodoir m à solide
 nl vaste laphuls f (m)
 r цельный притир m



- 11.649 e adjustable lap
 d nachstellbarer Läppdorn m
 f rodoir m réglable
 nl instelbaar lapwerktuig n
 r регулируемый притир m

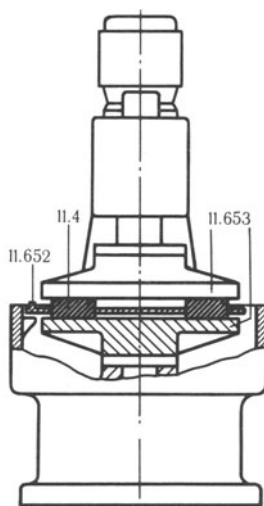


- 11.650 e ring lap
 d Läpphülse f
 f rodoir m annulaire
 nl laphuls f (m)
 r кольцевой притир m



- 11.651 e lapping machine
 d Läppmaschine f
 f rodeuse f
 nl lapmachine f

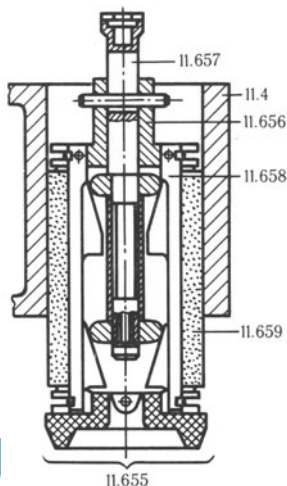
- г притирочный [доводочный] станок m



- 11.652 e workholder, retainer
 d Werkstückhalter m
 f monture f
 nl werkstukhouder m
 r сепаратор m
 (→ 11.651)

- 11.653 e lapping plate
 d Läppscheibe f
 f rodoir m plat
 nl lapschijf f (m)
 r притирочный [доводочный] диск m, дисковый притир m
 (→ 11.651)

- 11.654 e honing
 d Zieh Schleifen n, Lang-
 (hub)honen n, Honen



- f hon(n)ing m
 nl honen n
 r хонингование n

- 11.655 e honing tool
 d Honahle f, Honkopf m
 f honn m, tête f à rodoir
 nl hoonwerktuig n
 r хон m, хонинговальная головка f
 (→ 11.654)

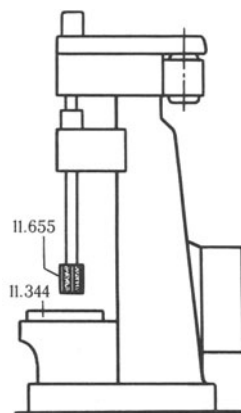
- 11.656 e hone body
 d Honkörper m
 f corps m de honn
 nl hoonruimer m
 r корпус хона
 (→ 11.654)

- 11.657 e radial expansion rod
 d Radialzustellstange f
 f arbre m d'expansion radial
 nl stang f (m) voor de radiale instelling
 r валик m радиального раздвигания
 (→ 11.654)

- 11.658 e stone holder
 d Honleiste f, Steinhalter m
 f joue f de pierre abrasive pour honning
 nl steenlijst f (m)
 r колодка f
 (→ 11.654)

- 11.659 e (honing) stone
 d Honstein m
 f pierre f abrasive (pour honning)
 nl hoonsteen m
 r (хонинговальный) брусок m
 (→ 11.654)

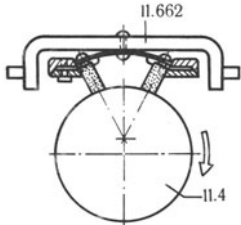
- 11.660 e honing machine
 d Honmaschine f



11.660

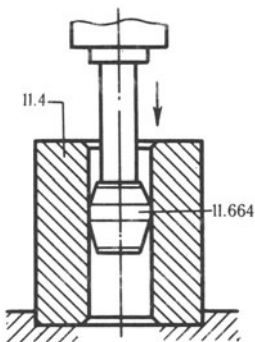
f machine f à honning
nl hoonmachine f
r хонинговальный станок m

11.661 e superfiniting
d Feinziehschleifen n, Kurzhubhonen n
f superfinition f
nl superfijnen n, superfijnen n
r суперфиниширование n



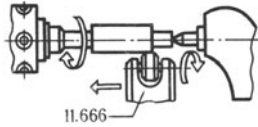
11.662 e superfiniting head
d Feinziehschleifkopf m
f tête f pour superfinition
nl slijpkop m voor superfijnen
r суперфинишная головка f
(→ 11.661)

11.663 e burnishing
d Dornen n
f brunissage m
nl glanspolijsten n, bruneren n
r дорнование n, выглаживающее прошивание n



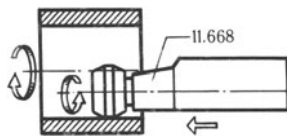
11.664 e burnisher
d Dornwerkzeug n
f brunissoir m
nl polijstdoorn m
r дорн m, выглаживающая прошивка f
(→ 11.663)

11.665 e roll burnishing
d Glattwalzen n, Prägepolieren n
f lissage m par galet
nl gladwalsen n
r (отделочное) накатывание n



11.666 e roll burnisher
d Rollkopf m
f galet m pour lissage
nl voorwals f(m)
r накатчик m
(→ 11.665)

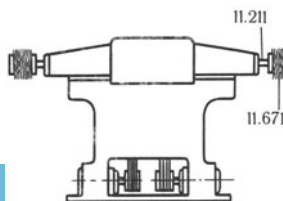
11.667 e internal roll burnishing
d Innenglattwalzen n
f lissage m interne par galet
nl inwendig gladwalsen n
r раскатывание n



11.668 e internal roll burnisher
d Rolldorn m, Innenrollkopf m
f galet m pour lissage interne
nl roldoorn m, binnenrolkop m
r раскатчик m
(→ 11.667)

11.669 e buffing, polishing
d Polieren n, Schwabbeln n
f polissage m
nl polijsten n
r полирование n
(→ 11.670)

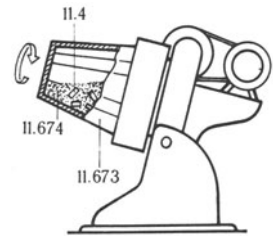
11.670 e buffing polishing machine
d Poliermaschine f



f machine f à polir
nl polijstmachine f
r полировальный станок m

11.671 e buffing wheel
d Polierscheibe f, Schwabfelscheibe
f disque m à polir
nl polijstschiif f(m)
r полировальный круг m
(→ 11.670)

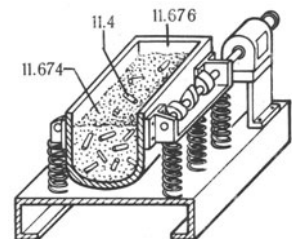
11.672 e barrel finishing, tumbling
d Rommeln n, Druckpolieren n
f polissage m au tonneau [tambour]
nl trommelen n
r (отделочная) галтовка f



11.673 e tumbling barrel
d Rommelfass n
f tambour m pour polissage
nl polijsttrommel f(m)
r галтовочный барабан m
(→ 11.672)

11.674 e tumbling media
d Schleifkörper m pl, Schleifgut n
f médium m de polissage [nettoyage]
nl trommelmateriaal n
r галтовочные тела n pl
(→ 11.672, 11.675)

11.675 e vibratory finishing
d Vibrationsgleitschleifen n
f finition f vibratoire



- nl triltrommelen n
r вибрационная галтовка
f, виброгалтовка f
- 11.676 e vibratory barrel
d Rütteltrog m
f goulotte f vibratoire
nl schudtrog m, triltrog
r вибрационный жёлоб m
(→ 11.675)

Electrical and Chemical Machining

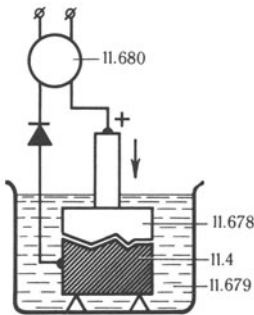
Abtragen

Usinage électrique et chimique

Elektrochemische bewerking

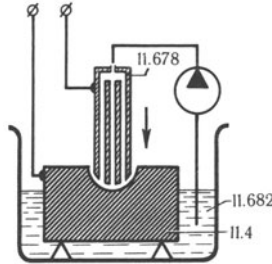
Физико-химическая обработка

- 11.677 e electrical discharge machining
d Elektroerodieren n, Funkenerodieren
f usinage m électro-érosion
nl vonkverspanen n
r электроэрозионная обработка f



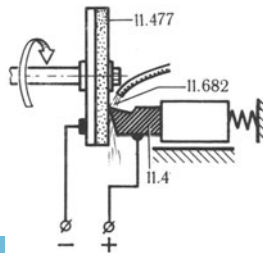
- 11.678 e tool electrode
d Werkzeugelektrode f
f électrode f d'outil
nl werktuigelektrode f
r электрод-инструмент m
(→ 11.677)
- 11.679 e dielectric fluid
d nichtleitende Flüssigkeit f, Arbeitsmedium n
f fluide m diélectrique
nl diëlektrische vloeistof f(m)
r рабочая жидкость f
(→ 11.677)

- 11.680 e pulse generator
d Impulsgenerator m
f générateur m d'impulsions
nl (im)pulsgenerator m
r генератор m импульсов
(→ 11.677)
- 11.681 e electrochemical machining
d Elysieren n
f usinage m électrochimie
nl elektrochemische bewerking f
r электрохимическая обработка f

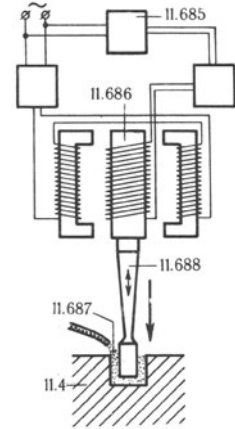


- 11.682 e electrolyte fluid
d Elektrolyt n, leitende Flüssigkeit f
f fluide m électrolytique
nl elektrolyt n, werkvloeistof f(m)
r электролит m, рабочая жидкость f
(→ 11.681)

- 11.683 e electrochemical grinding
d Elysierschleifen n
f rectification f électrochimie
nl elektrochemisch slijpen n
r электроабразивная обработка f



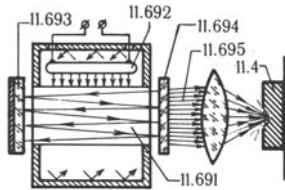
- 11.684 e ultrasonic machining
d Ultraschallbearbeitung f, Schwingläppen n
f usinage m ultra-sonique
nl bewerking f met ultrageluid
r ультразвуковая обработка f



- 11.685 e audio oscillator
d Schallgenerator m
f générateur m ultra-sonique
nl geluidgenerator m
r звуковой генератор m
(→ 11.684)
- 11.686 e magnetostrictive vibrator
d Ultraschwinger m, magnetostruktiver Schallgeber m
f vibreur m magnétostrictif
nl magnetostrictieve vibrator m
r магнитострикционный вибратор m
(→ 11.684)
- 11.687 e abrasive slurry
d Schleifmittelsuspension f, Läppmittelsuspension
f suspension f abrasive
nl slijpsuspensie f
r абразивная суспензия f
(→ 11.684)
- 11.688 e ultrasonic tool
d Rüssel m, Bohrrüssel
f guide m d ondes
nl golfgeleider m, ultrageluidtoestel n, ultrageluidapparaat n
r концентратор m, волновод m
(→ 11.684)

11.689

- 11.689 e laser (beam) machining
 d Laser-Bearbeitung f
 f usinage m par laser
 nl laserbewerking f
 r лазерная обработка f
 (→ 11.690)
- 11.690 e laser-beam machining unit
 d Laseranlage f, Lasermaschine f
 f installation f pour usinage par laser
 nl laserinstallatie f
 r лазерная технологическая установка f



- 11.695 e monochromatic coherent light beam
 d monochromatischer kohärenter Lichtstrahl m
 f rayon m lumineux monochromatique cohérent
 nl monochromatische coherente lichtstraal m
 r монохроматический когерентный световой луч m
 (→ 11.690)

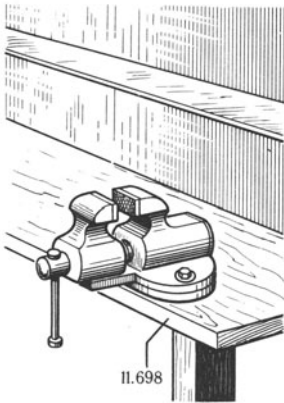
Bench and Assembly Work
Schlosserei und Montage
Travail de serrurier et d'assemblage
Bankwerken en montage
Слесарно-сборочные работы

- 11.691 e laser, optical amplifier
 d Laser m
 f laser m
 nl laser m
 r лазер m, оптический квантовый генератор m
 (→ 11.690)

- 11.696 e benchwork
 d Schlosserei f
 f travail m de serrurier
 nl bankwerk n
 r слесарная обработка f
 (→ 11.705, 11.709, 11.726)

- 11.692 e pumping source
 d Laserpumpquelle f
 f source f de pompage
 nl laserpombron f(m)
 r источник m накачки [возбуждения]
 (→ 11.690)

- 11.697 e vice
 d Schraubstock m
 f étau m
 nl bankschroef f(m)
 r тиски pl



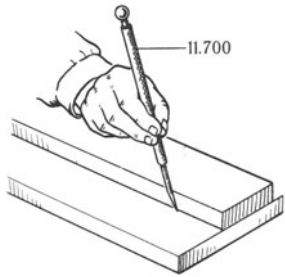
- 11.693 e reflecting mirror
 d Reflektorspiegel m
 f miroir m réfléchissant
 nl spiegel m
 r (полностью) отражающее зеркало n
 (→ 11.690)

- 11.694 e partially reflecting mirror
 d teildurchlässiger Spiegel m
 f miroir m partiellement réfléchissant
 nl halfdoorlatende spiegel m
 r частично отражающее зеркало n
 (→ 11.690)

- 11.698 e bench
 d Werkbank f, Werkisch m
 f banc m à limer

- nl werkbank f(m)
 r верстак m
 (→ 11.697)

- 11.699 e laying out
 d Anreissen n
 f traçage m
 nl merken n, ritsen n
 r разметка f

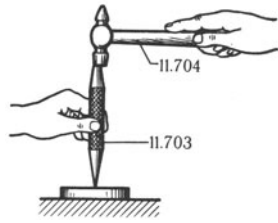


- 11.700 e scriber
 d Anreissnadel f
 f pointe f à tracer
 nl krasnaald f (m)
 r чертилка f
 (→ 11.699)

- 11.701 e surface ga(u)ge
 d Anreissgerät n
 f trusquin m
 nl krasblok n
 r рейсмус m



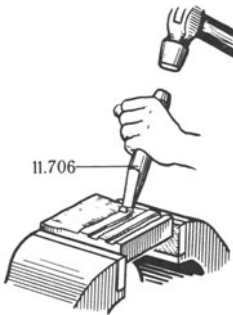
- 11.702 e punching
 d Ankörnen n
 f marquage m au pointeau
 nl centren n
 r кернение n



11.703 e punch
d Ankörner m
f pointeau m (de traceur)
nl doorslag m, drevel m
r керн m
(→ 11.702)

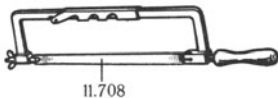
11.704 e bench hammer
d Schlosserhammer m
f marteau m (de serrurier)
nl bankhamer m
r (слесарный) молоток m
(→ 11.702)

11.705 e hand chipping
d Schrotten n
f burinage m
nl beitelen n
r (слесарная) рубка f



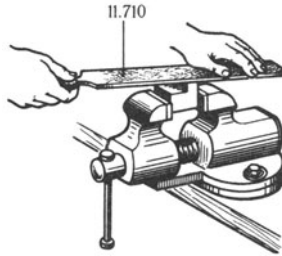
11.706 e flat chisel
d Flachmeissel m
f burin m
nl vlakbeitel m
r (слесарное) зубило m
(→ 11.705)

11.707 e hacksaw
d Bügelsäge f
f égoïne f
nl beugelzaag f(m)
r (ручная) ножовка f



11.708 e hacksaw blade
d Bügelsägeblatt n
f lame f d'égoïne
nl zaagblad n
r ножовочное полотно n
(→ 11.707)

11.709 e filing
d Feilen n
f limage m
nl vijlen n
r опилование n



11.710 e file
d Feile f
f lime f
nl vijl f(m)
r напильник m
(→ 11.709, 11.711 – 11.725)

11.711 e blunt flat file
d flachstumpfe Feile f
f lime f en paille
[d'Allemagne, plate-obtuse]
nl platte stompe vijl f(m)
r плоский тупоносый напильник m



11.712 e taper flat file
d flachspitze Feile f
f lime f plate pointue
nl platte spitse vijl f(m)
r плоский остроносый напильник m



11.713 e round file
d Rundfeile f
f lime f ronde
nl ronde vijl f(m)
r круглый напильник m



11.714 e square file
d Vierkantfeile f
f lime f carrée
nl vierkante vijl f(m)
r квадратный напильник m



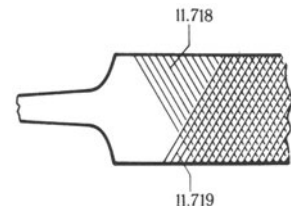
11.715 e three-square [three cornered] file
d Dreikantfeile f
f lime f triangulaire
nl driekante vijl f(m)
r трёхгранный напильник m



11.716 e half-round file
d Halbrundfeile f
f lime f demi-ronde
nl halfronde vijl f(m)
r полукруглый напильник m



11.717 e cut
d Hieb m
f taille f
nl kap m
r насечка f



11.718 e overcut
d Grundhieb m, Unterhieb
f taille f première
nl grondkap m, hoofdkap
r основная насечка f
(→ 11.717)

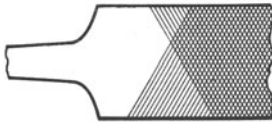
11.719

- 11.719 e up cut
 d Oberhieb m
 f taille f secondaire
 nl tweede kapping f
 r вспомогательная на-
 сечка f
 (→ 11.717)

- 11.720 e coarse file
 d grobe Feile f
 f lime f bâtarde
 nl grove vijl f (m)
 r драчовый напильник m



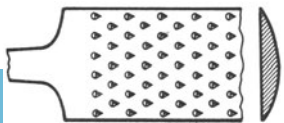
- 11.721 e smooth file
 d Schlichtfeile f
 f lime f douce
 nl zoetvijn f(m)
 r личный напильник m



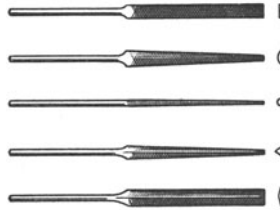
- 11.722 e dead-smooth file
 d Doppelschlichtfeile f
 f lime f superfine
 nl fijne zoetvijn f(m)
 r бархатный напиль-
 ник m



- 11.723 e rasp
 d Raspel f
 f râpe f
 nl raspvijn f(m), rasp f(m)
 r рашпиль m



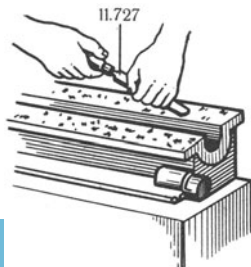
- 11.724 e needle file
 d Nadelfeile f
 f lime f à aiguille
 nl naaldvijn f(m)
 r надфиль m



- 11.725 e rotary file, burr
 d Rotierfeile f, Umlauf-
 feile, Turbofeile
 f lime f rotative
 nl boorfrees f(m), rotatie-
 vijn f(m)
 r ротационный напиль-
 ник m, борфреза f,
 фасонная головка f



- 11.726 e scraping
 d Schaben n
 f grattage m
 nl schrapen n
 r шабрение n

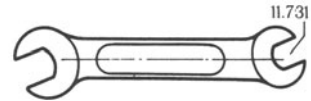


- 11.727 e scraper
 d Schaber m
 f grattoir m
 nl schraapijzer n
 r шабер m
 (→ 11.726)

- 11.728 e assembly
 d Montage f
 f assemblage m
 nl montage f, monteren n
 r сборка f

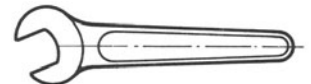
- 11.729 e wrench, spanner
 d Schraubenschlüssel m,
 Schlüssel
 f clé f à écrou
 nl moersleutel m
 r гаечный ключ m
 (→ 11.730, 11.732 -
 11.738)

- 11.730 e double-head wrench
 d Doppel(maul)schlüssel m
 f clé f double ordinaire
 nl dubbele steeksleutel m
 r двусторонний гаечный
 ключ m с открытым
 зевом, простой двусто-
 ронний ключ



- 11.731 e wrench opening
 d Maul n
 f ouverture f de clé
 nl sleutelbek m
 r зев m
 (→ 11.730)

- 11.732 e single-head open-end
 wrench
 d Einfachsraubenschlüs-
 sel m
 f clé f simple ordinaire
 nl enkele steeksleutel m
 r односторонний гаеч-
 ный ключ m с откры-
 тым зевом, простой
 односторонний ключ



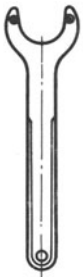
- 11.733 e double-head box wrench
 d Doppelaufsteckschlüssel n
 f clé f double fermée
 nl dubbele ringsleutel m
 r двусторонний гаечный ключ m с закрытым зевом, двусторонний накидной ключ



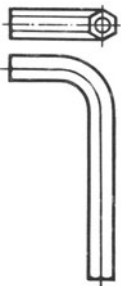
- 11.734 e hook spanner
 d Hakenschlüssel m
 f clé f à ergot [à crochet]
 nl haaksleutel m
 r крючковый ключ m (для круглых гаек)



- 11.735 e pin-face wrench
 d Stiftschlüssel m
 f clé f cornue
 nl stiftsleutel m
 r рожковый гаечный ключ m

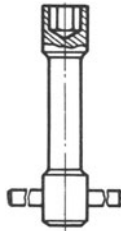


- 11.736 e bent wrench for hexagon-socket head screw

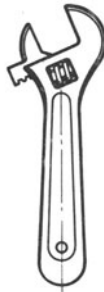


- d abgebogener Sechskantstiftschlüssel
 f clé f en tube courbé pour vis à six pans
 nl omgezette imbussleutel m
 r торцовый изогнутый ключ m для внутреннего шестигранника

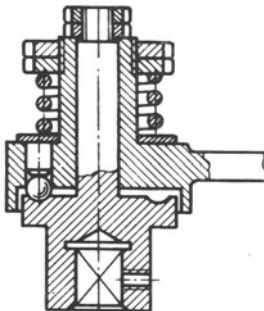
- 11.737 e socket wrench
 d Sechskantsteckschlüssel m
 f clé f à douille fermée
 nl binnenzekantsleutel m
 r торцовый накидной ключ m



- 11.738 e adjustable wrench
 d verstellbarer Schlüssel m
 f clé f réglable
 nl verstelbare sleutel m
 r разводной ключ m

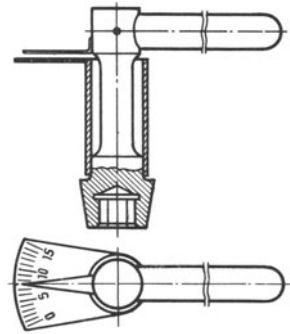


- 11.739 e torque wrench
 d Grenz-Drehmoment-(schrauben)schlüssel m



- f clé f dynamométrique
 nl moment (begrenzende)-sleutel m
 r предельный [тарированный] ключ m

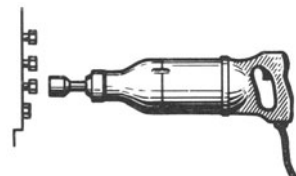
- 11.740 e torque indicating wrench
 d Mess-Drehmoment-(schrauben)schlüssel m
 f clé f dynamométrique
 nl moment (aanwijzende)-sleutel m
 r динамометрический ключ m



- 11.741 e screwdriver
 d Schraubenzieher m
 f tournevis m
 nl schroef(n)draaier m
 r отвёртка f

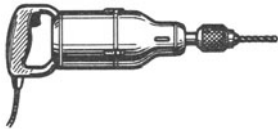


- 11.742 e power screwdriver
 d Schraubler m
 f tournevis m de mécanicien
 nl mechanische schroeven-draaier m
 r винтовёрт m

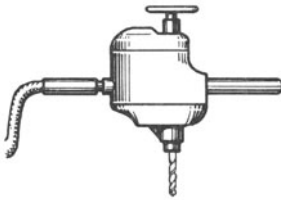


11.743

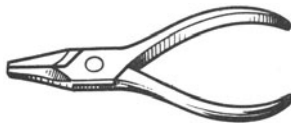
- 11.743 e electric drill
 d Elektrohandbohrmaschine f
 f perceuse f électrique
 nl elektrische handboormachine f
 r сверлильная электромашина f, электродрель f



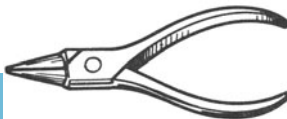
- 11.744 e pneumatic drill
 d Druckluftbohrmaschine f
 f perceuse f pneumatique
 nl pneumatische boormachine f
 r сверлильная пневмомашинa f, пневмодрель f



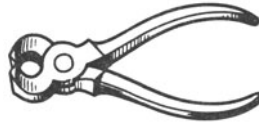
- 11.745 e flat-nose pliers
 d Flachzange f
 f pince f plate
 nl platte-bektang f (m)
 r плоскогубцы pl



- 11.746 e round-nose pliers
 d Rundzange f
 f pince f ronde
 nl ronde buigtang f (m)
 r круглогубцы pl



- 11.747 e cutting pliers, nippers
 d Beisszange f
 f pince f coupante
 nl nijptang f(m)
 r острогубцы pl, кусачки pl

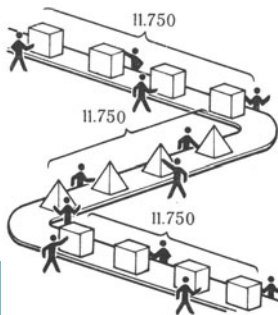


Production Process
Fertigungsprozess
Procédé de production
Produktieproces
Производственный процесс

- 11.748 e job-lot production
 d Einzelfertigung f
 f production f unitaire
 nl enkelstuksproductie f
 r единичное производство n

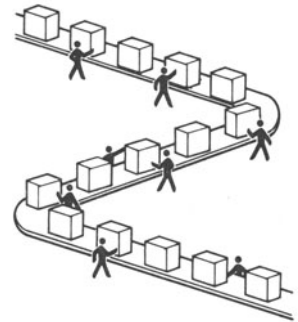


- 11.749 e serial production
 d Serienfertigung f
 f production f en série
 nl serieproductie f
 r серийное производство n

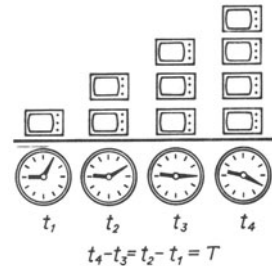


- 11.750 e lot
 d Los n
 f série f
 nl serie f
 r серия f
 (→ 11.749)

- 11.751 e mass production
 d Massenfertigung f
 f production f en masse
 nl massafabricage f, massaproductie f
 r массовое производство n



- 11.752 e output
 d Ausstoss m
 f sortie f
 nl opbrengst f, productie f
 r выпуск m

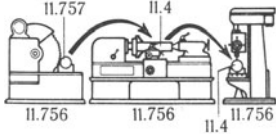


- 11.753 e output cycle time (T)
 d Taktzeit f (T)
 f période f de sortie (T)
 nl produktiecyclusijd m (T)
 r такт m выпуска (T)
 (→ 11.752)

- 11.754 e output rate (R)
 d Stundenleistung f (R)
 f cadence f de sortie (R)
 nl uurproductie f (R)

r ритм m выпуска (R)
 $R = \frac{1}{T}$
 (→ 11.751)

11.755 e manufacturing process
 d Fertigungsablauf m
 f procédé m technologique
 nl productieproces n
 r технологический процесс m

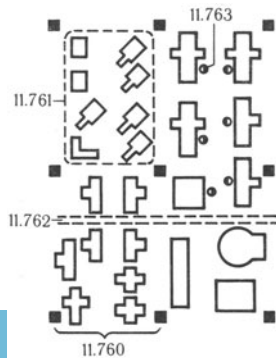


11.756 e (manufacturing) operation
 d Operation f
 f opération f (technologique)
 nl bewerking f
 r (технологическая) операция f
 (→ 11.755)

11.757 e blank
 d Rohteil m
 f ébauche f
 nl werkstuk m
 r заготовка f
 (→ 11.755)

11.758 e workshop
 d Werkstatt f, Werksabteilung f, Betriebsabteilung f
 f atelier m
 nl werkplaats f (m), bedrijfshal f (m)
 r цех m

11.759 e workshop layout
 d Abteilungsplan m
 f plan m d'atelier
 nl bedrijfsopstelling f
 r план(ировка) m (f) цеха



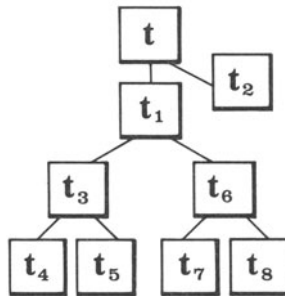
11.760 e bay
 d Hallenschiff n
 f halle f
 nl fabriekshal f(m)
 r пролёт m
 (→ 11.759)

11.761 e workshop section
 d Werkstattsabteilung f
 f section f (d'atelier)
 nl sectie f van de bedrijfsafdeling
 r участок m (цеха), отделение n цеха
 (→ 11.759)

11.762 e passage
 d Durchgang m
 f passage m
 nl doorgang m, passage f
 r проход m
 (→ 11.759)

11.763 e working place
 d Arbeitsplatz m
 f poste m de travail
 nl arbeidsplaats f (m)
 r рабочее место n
 (→ 11.759)

11.764 e standard piece time (t)
 d Zeitnorm f (t)
 f temps f total par pièce (t)
 nl stuknorm m (t)
 r норма f времени (t)



11.765 e time per piece (t_1)
 d Stückzeit f (t_1)
 f temps m alloué unitaire (t_1)
 nl stuktijd m (t_1)
 r штучное время n (t_1)
 (→ 11.764)

11.766 e setup time (t_2)
 d Rüstzeit f (t_2)
 f temps m de préparation (t_2)

nl opsteltijd m, inrichtingstijd (t_2)
 r подготовительно-заключительное время n (t_2)
 (→ 11.764)

11.767 e base cycle time (t_3)
 d operative Zeit f (t_3)
 f temps m de base (t_3)
 nl bewerkingscyclustijd m (t_3)
 r оперативное время n (t_3)
 (→ 11.764)

11.768 e computed machine time, direct manufacture time (t_4)
 d Grundzeit f (t_4)
 f temps m calculé [machine] (t_4)
 nl berekende procestijd m (t_4)
 r основное время n (t_4)
 (→ 11.764)

11.769 e auxiliary time (t_5)
 d Nebenzeit f (t_5)
 f temps m improductif (t_5)
 nl improductieve tijd m (t_5)
 r вспомогательное время n (t_5)
 (→ 11.764)

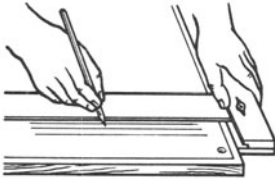
11.770 e additional time (t_6)
 d Verteilzeit f (t_6)
 f temps m supplémentaire (t_6)
 nl toevoegtijd m (t_6)
 r дополнительное время n (t_6)
 (→ 11.764)

11.771 e time for machine servicing (t_7)
 d Wartungszeit f (t_7)
 f temps m de service (t_7)
 nl onderhoudstijd m (t_7)
 r время n обслуживания рабочего места (t_7)
 (→ 11.764)

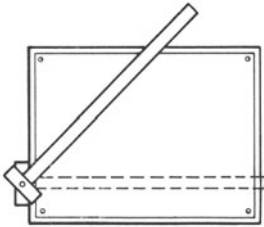
11.772 e time for rest and personal needs (t_8)
 d Erholungszeit f (t_8)
 f temps m de repos (t_8)
 nl rust- en ontspanningstijd (t_8)
 r время n на личные потребности (t_8)
 (→ 11.764)

**12. ENGINEERING DRAFTING
TECHNISCHES ZEICHNEN
DESSIN INDUSTRIEL
TECHNISCH TEKENEN
ТЕХНИЧЕСКОЕ ЧЕРЧЕНИЕ**

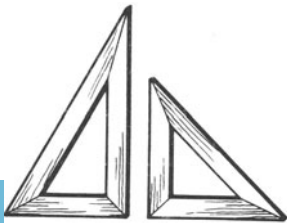
- 12.1 e drafting, drawing
d Zeichnen n
f dessin m
nl tekenen n
r черчение n



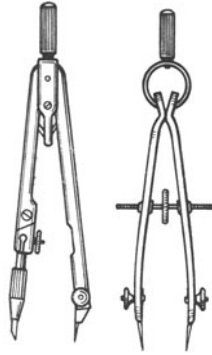
- 12.2 e T-square
d Reisschiene f
f règle f en T
nl tekenhaak m
r рейсшина f



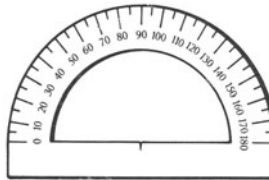
- 12.3 e triangle
d Zeichendreieck n
f équerre f de dessinateur
nl tekendriehoek m
r (чертёжный) угольник m



- 12.4 e compass
d Zirkel m
f compas m
nl passer m
r циркуль m



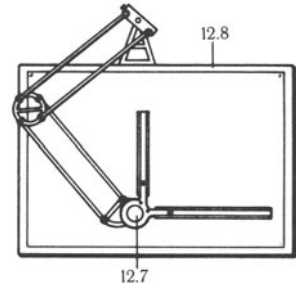
- 12.5 e protractor
d Winkelmesser m
f rapporteur m
nl gradenboog m
r транспортир m



- 12.6 e (French) curve
d Kurvenlineal n
f règle f courbe
nl tekenmal m
r лекало n

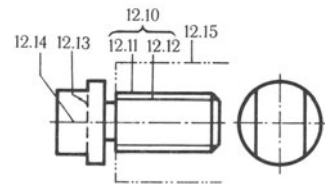


- 12.7 e drafting machine
d Zeichenmaschine f
f appareil m à dessiner
nl tekenmachine f
r чертёжный прибор m



- 12.8 e drafting board
d Reissbrett n
f planche f à dessiner
nl tekenbord n
r чертёжная доска f
(→ 12.7)

- 12.9 e line
d Linie f
f ligne f, trait m
nl lijn f(m)
r линия f



- 12.10 e continuous line
d Vollinie f
f ligne f continue
nl getrokken lijn f (m)
r сплошная линия f
(→ 12.9)

12.11 e heavy line
d breite Vollarie f
f trait m fort
nl dikke lijn f (m)
r жирная линия f
(→ 12.9)

12.12 e thin line
d schmale Vollarie f
f trait m fin
nl dunne lijn f (m)
r тонкая линия f
(→ 12.9)

12.13 e short dashes
d Strichlinie f
f trait m pointillé
nl streeplijn f (m)
r пунктирная линия f
(→ 12.9)

12.14 e long chain
d Strichpunktlinie f
f trait m interrompu mixte
nl gemengte streeplijn f (m)
r штрихпунктирная линия f
(→ 12.9)

12.15 e phantom line
d Phantomlinie f
f trait m de contour imaginaire
nl niet zichtbare begrenzingslijn f (m)
r линия f воображаемого контура
(→ 12.9)

12.16 e straight line
d gerade Linie f, Gerade f
f ligne f droite
nl rechte lijn f(m), rechte f(m)
r прямая (линия) f



12.17 e parallel line
d parallele Linie f, Parallele f
f ligne f parallèle, parallèle f
nl evenwijdige lijn f(m)
r параллельная линия f



12.18 e perpendicular (line)
d Senkrechte f
f ligne f perpendiculaire, perpendiculaire f
nl vertikale lijn f(m)
r перпендикулярная линия f, перпендикуляр m

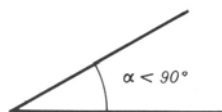


12.19 e broken line
d gebrochene Linie f
f ligne f polygonale
nl gebroken lijn f(m)
r ломаная линия f

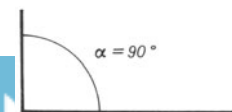


12.20 e angle
d Winkel m
f angle m
nl hoek m
r угол m
(→ 12.21 – 12.23)

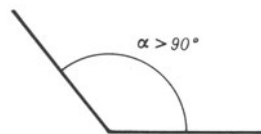
12.21 e acute angle
d spitzer Winkel m
f angle m aigu
nl scherpe hoek m
r острый угол m



12.22 e right angle
d rechter Winkel m
f angle m droit
nl rechte hoek m
r прямой угол m



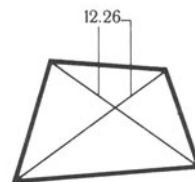
12.23 e obtuse angle
d stumpfer Winkel m
f angle m obtus
nl stompe hoek m
r тупой угол m



12.24 e triangle
d Dreieck n
f triangle m
nl driehoek m
r треугольник m

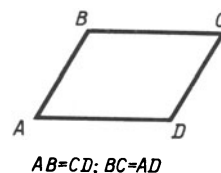


12.25 e tetragon
d Viereck n, Trapezoid n
f tétragone m
nl vierhoek m
r четырёхугольник m



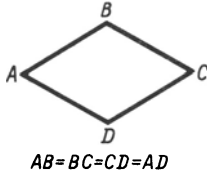
12.26 e diagonal
d Diagonale f
f diagonale f
nl diagonaal f(m)
r диагональ f
(→ 12.25)

12.27 e parallelogram
d Parallelogramm n, Romboid n
f parallélogramme m
nl parallellogram n
r параллелограмм m

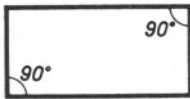


12.28

- 12.28 e rhombus
d Rhombus m
f rhombe m
nl rombus m
r ромб m



- 12.29 e rectangle
d Rechteck n
f rectangle m
nl rechthoek m
r прямоугольник m



- 12.30 e trapezoid
d Trapez n
f trapèze m
nl trapezium n
r трапеция f



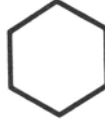
- 12.31 e square
d Quadrat n
f carré m
nl vierkant m
r квадрат m



- 12.32 e pentagon
d Fünfeck n
f pentagone m
nl vijfhoek m
r пятиугольник m



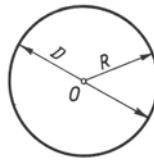
- 12.33 e hexagon
d Sechseck n
f hexagone m
nl zeshoek m
r шестиугольник m



- 12.34 e curved line, curve
d Kurve f
f ligne f courbe
nl kromme f
r кривая (линия) f



- 12.35 e circle
d Kreis m
f cercle m
nl cirkel m
r окружность f



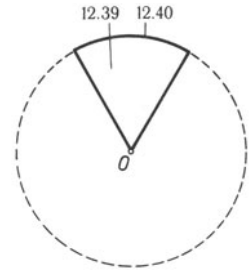
- 12.36 e centre [center] (point)
(O)
d Mittelpunkt m, Zentrum n (O)
f centre m du cercle (O)
nl middelpunt n (van een cirkel) (O)
r центр m (круга) (O)
(→ 12.35)

- 12.37 e radius (R)
d Halbmesser m, Radius m (R)
f rayon m (R)
nl straal m, f (van een cirkel), radius m (R)
r радиус m (R)
(→ 12.35)

- 12.38 e diameter (D)
d Durchmesser m (D)

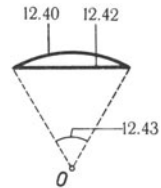
- f diamètre m (D)
nl middellijn f(m), diameter m (D)
r диаметр m (D)
(→ 12.35)

- 12.39 e (circular) sector
d Kreisausschnitt m, Sektor m
f secteur m
nl sector m (van een cirkel), cirkelsector
r сектор m (круга)



- 12.40 e arc
d Bogen m
f arc m
nl (cirkel)boog m
r дуга f
(→ 12.39, 12.41)

- 12.41 e (circular) segment
d Kreisabschnitt m, Segment n
f segment m
nl (cirkel)segment n
r сегмент m (круга)

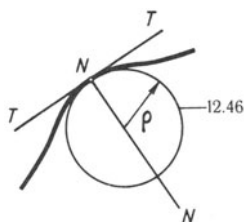


- 12.42 e chord
d Sehne f
f corde f
nl koorde f(m)
r хорда f
(→ 12.41)

- 12.43 e centre [center] angle
d Zentriwinkel m

f angle m au centre
nl centrale hoek m
r центральный угол m
(→ 12.41)

12.44 e tangent (*TT*)
d Tangente f (*TT*)
f tangente f (*TT*)
nl raaklijn f (m) (*TT*)
r касательная f (*TT*)

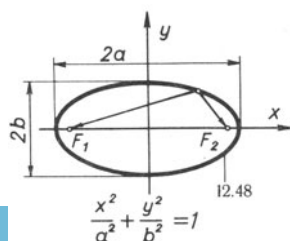


12.45 e normal (*NN*)
d Normale (*NN*)
f normale f (*NN*)
nl normaal f(m) (*NN*)
r нормаль f (*NN*)
(→ 12.44)

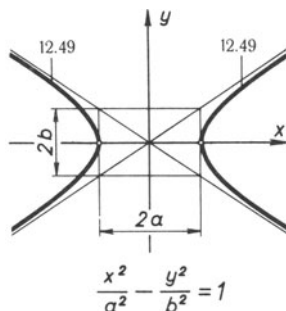
12.46 e circle of curvature
d Krümmungskreis m
f cercle m de courbure
nl cirkelomtrek m
r круг m кривизны
(→ 12.44)

12.47 e radius of curvature (ρ)
d Krümmungsradius m (ρ)
f rayon m de courbure (ρ)
nl krommingsstraal m, f, kromtestraal (ρ)
r радиус m кривизны (ρ)
(→ 12.44)

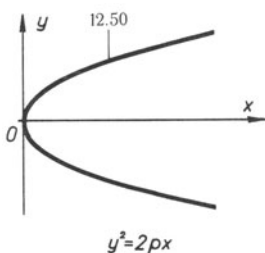
12.48 e ellipse
d Ellipse f
f ellipse f
nl ellips f(m)
r эллипс m



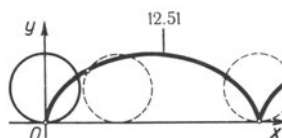
12.49 e hyperbola
d Hyperbel f
f hyperbole f
nl hyperbool f(m)
r гиперболa f



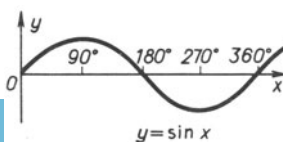
12.50 e parabola
d Parabel f
f parabole f
nl parabool f(m)
r парабола f



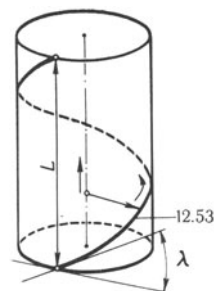
12.51 e cycloid
d Zykloide f
f cycloïde f
nl cycloïde f
r циклоида f



12.52 e sine curve
d Sinuskurve f
f sinusöide f
nl sinusöide f, sinuskrömme f(m)
r синусоида f



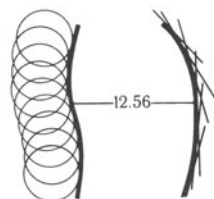
12.53 e helix
d Schraubenlinie f
f hélice f
nl schroeflijn f(m)
r винтовая линия f



12.54 e helix angle (λ)
d Steigungswinkel m (λ)
f angle m d'inclinaison d'hélice (λ)
nl schroefhoek m (λ)
r угол m подъёма винтовой линии (λ)
(→ 12.53)

12.55 e helix lead (*L*)
d Steigung f der Schraubenlinie (*L*)
f pas m d'hélice (*L*)
nl stijging f van de schroeflijn (*L*)
r ход m винтовой линии (*L*)
(→ 12.53)

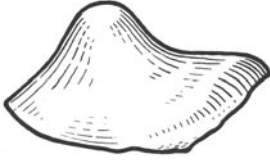
12.56 e envelope
d Umhüllungslinie f, Einhüllende f, Hüllkurve f
f enveloppe f
nl omhullende f(m)
r огибающая f



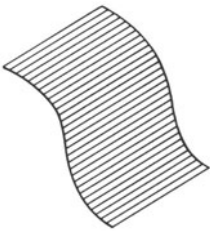
12.57 e surface
d Fläche f
f surface f
nl oppervlak n, vlak
r поверхность f
(→ 12.58 - 12.67)

12.85

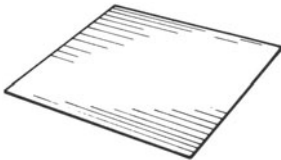
12.58 e curved surface
 d gekrümmte Fläche f
 f surface f gauche
 nl gebogen oppervlak n
 r криволинейная поверхность f



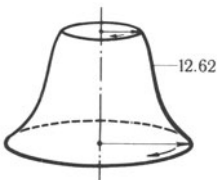
12.59 e ruled surface
 d Regelfläche f, geradlinige Fläche
 f surface f réglée
 nl rechthoekig vlak n
 r линейчатая поверхность f



12.60 e plane
 d Ebene f
 f plan m
 nl vlak n
 r плоскость f

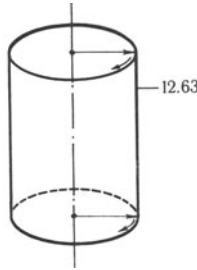


12.61 e surface of revolution [of rotation]
 d Rotationsfläche f
 f surface f de révolution
 nl omwentelingsvlak n
 r поверхность f вращения

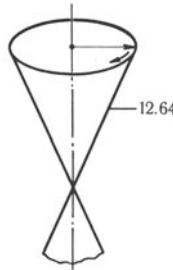


12.62 e generatrix
 d Erzeugende f
 f génératrice f
 nl generatrix f
 r образующая f
 (→ 12.61)

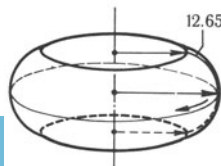
12.63 e cylindrical surface
 d Zylinderfläche f
 f surface f cylindrique
 nl cilindervlak n
 r цилиндрическая поверхность f



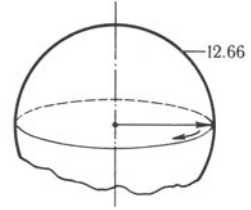
12.64 e conical surface
 d Kegelfläche f
 f surface f conique
 nl kegelvlak n
 r коническая поверхность f



12.65 e toroidal surface
 d Torusfläche f
 f surface f torique
 nl toroïdaal vlak n
 r тороидальная поверхность f



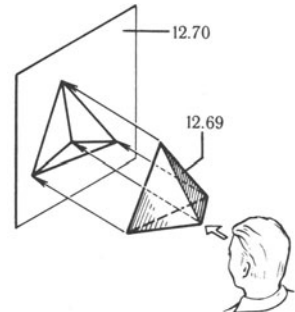
12.66 e spherical surface
 d Kugelfläche f
 f surface f sphérique
 nl boloppervlak n
 r сферическая поверхность f



12.67 e helical surface
 d Schraubenfläche f
 f surface f hélicoïdale
 nl schroefvlak n
 r винтовая поверхность f



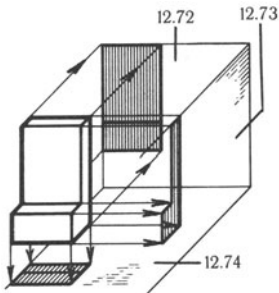
12.68 e projection
 d Projektion f
 f projection f
 nl projectie f
 r проекция f



12.69 e object
 d Gegenstand m
 f objet m
 nl voorwerp n
 r предмет m
 (→ 12.68)

12.70 e plane of projection
d Projektionsebene f
f plan m de projection
nl projectievlak n
r плоскость f проекции
(→ 12.68)

12.71 e orthographic projection
d rechtwinklige Projektion f
f projection f orthogonale
nl orthogonale projectie f
r прямоугольное проектирование n



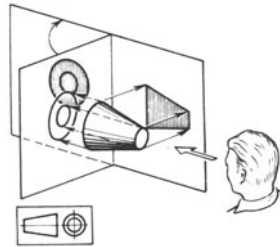
12.72 e frontal plane of projection
d vordere Projektionsebene f
f plan m frontal de projection
nl frontaal projectievlak n
r фронтальная плоскость f проекций
(→ 12.71, 12.77)

12.73 e profile plane of projection
d seitliche Projektionsfläche f
f plan m profil de projection
nl zijdelings projectievlak n
r профильная плоскость f проекций
(→ 12.71, 12.77)

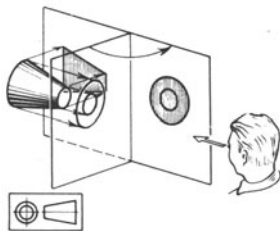
12.74 e horizontal plane of projection
d waagerechte Projektionsfläche f
f plan m horizontal de projection
nl horizontaal projectievlak n
r горизонтальная плоскость f проекций
(→ 12.71, 12.77)

12.75 e first angle projection
d europäische Projektion f
f projection f européenne

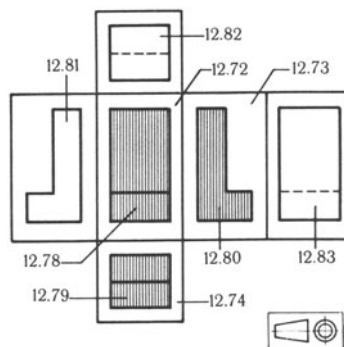
nl Europese projectie f
r европейский способ m проектирования



12.76 e third angle projection
d amerikanische Projektion f
f projection f américaine
nl Amerikaanse projectie f
r американский способ m проектирования



12.77 e view
d Ansicht f
f vue f
nl aanzicht n
r вид m



12.78 e front view [elevation]
d Vorderansicht f
f vue f de face
nl vooraanzicht n

г вид m спереди, главный вид
(→ 12.77)

12.79 e view from above, plan
d Draufsicht f, Grundriss m
f vue f de dessus
nl bovenaanzicht n
г вид m сверху
(→ 12.77)

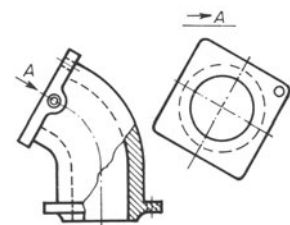
12.80 e view from the left, left-hand end view
d Seitenansicht f von links
f vue f de gauche
nl zijaanzicht n van links
г вид m слева
(→ 12.77)

12.81 e view from the right, right-hand end view
d Seitenansicht f von rechts
f vue f de droite
nl zijaanzicht n van rechts
г вид m справа
(→ 12.77)

12.82 e view from below, bottom view
d Untersicht f
f vue f de dessous
nl onderaanzicht n
г вид m снизу
(→ 12.77)

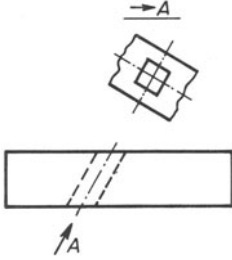
12.83 e view from behind, rear view
d Rückansicht f
f vue f d'arrière
nl achteraanzicht n
г вид m сзади
(→ 12.77)

12.84 e auxiliary view
d besondere Ansicht f
f vue f auxiliaire
nl hulpaanzicht n
г дополнительный вид m

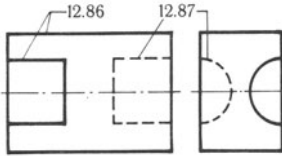


12.85

- 12.85 e partial auxiliary view
 d Teilansicht f
 f vue f partielle
 nl deenlaanzicht n
 r местный вид m

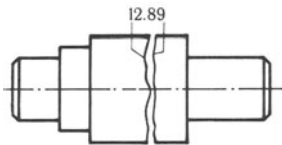


- 12.86 e visible outline
 d sichtbarer Umriss m
 f contour m apparent
 nl zichtbare omtrek m
 r видимый контур m



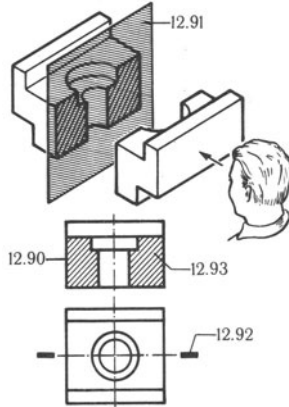
- 12.87 e hidden outline
 d verdeckter [unsichtbarer] Umriss m
 f contour m fictif
 nl onzichtbare [fictieve] omtrek m
 r невидимый контур m
 (→ 12.86)

- 12.88 e break
 d Bruch m
 f rupture f
 nl afbreking f
 r обрыв m



- 12.89 e break line
 d Bruchlinie f
 f ligne f de rupture
 nl afbreeklijn f (m)
 r линия f обрыва
 (→ 12.88)

- 12.90 e sectional view
 d Schnittdansicht f, Schnitt m
 f vue f en coupe
 nl doorsnee-aanzicht n
 r разрез m

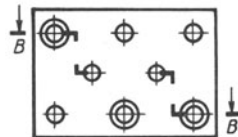


- 12.91 e cutting plane
 d Schnittebene f
 f plan m sécant
 nl snijvlak n
 r секущая плоскость f
 (→ 12.90)

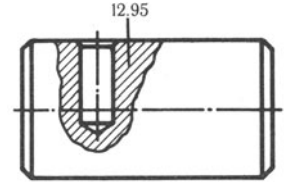
- 12.92 e cutting plane line
 d Schnittlinie f
 f trait m de section
 nl snijlijn f(m)
 r линия f сечения
 (→ 12.90)

- 12.93 e section lining, hatching
 d Schraffur f
 f trait m interrompu
 nl arcering f
 r штриховка f
 (→ 12.90)

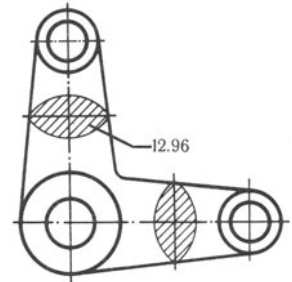
- 12.94 e offset section
 d Schnittverlauf m in verschiedenen Richtungen
 f vue f en coupe complexe
 nl gecompliceerde doorsne(d)e f(m)
 r сложный разрез m



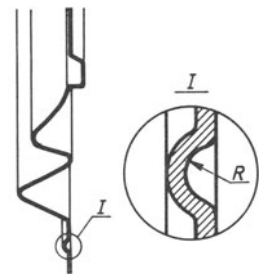
- 12.95 e broken out section(al view)
 d Teil(aus)schnitt m, Ausbruch m
 f vue f avec interruption
 nl deeldoorsnede f (m)
 r вырыв m, местный разрез m



- 12.96 e revolved section(al view)
 d Schnittfläche f innerhalb des Bildes
 f section f rabattue
 nl opgelegde doorsne(d)e f(m)
 r наложенное сечение n

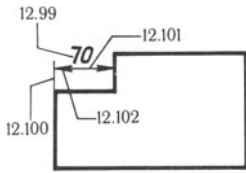


- 12.97 e detail section (I)
 d Einzelheit f (I)
 f section f sortie (I)
 nl detaildoorsnede f(m)
 r выносной элемент m (I)



- 12.98 e dimensioning
 d Masseintragung f, Bemessung f

f cotation f
 nl dimensionering f
 r нанесение n размеров



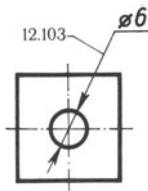
12.99 e dimension (value)
 d Masszahl f
 f cote f
 nl maatcijfer n
 r размерное число n
 (→ 12.98)

12.100 e extension line
 d Masshilfslinie f
 f ligne f de renvoi
 nl hulpmaatlijn f
 r выносная линия f
 (→ 12.98)

12.101 e dimension line
 d Masslinie f
 f ligne f de cote
 nl maatlijn f(m)
 r размерная линия f
 (→ 12.98)

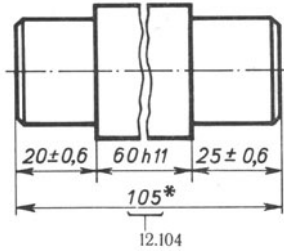
12.102 e arrow-head
 d Pfeil m
 f aiguille f
 nl pijltje n
 r стрелка f
 (→ 12.98)

12.103 e leader line
 d Bezugslinie f
 f ligne f d'attache
 nl referentielijn f(m)
 r линия-выноска f



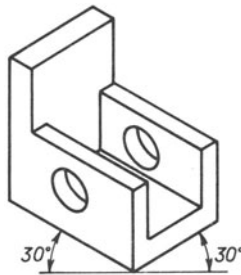
12.104 e information size
 d Hilfsmass n
 f cote f d'information

nl hulpmaat f(m)
 r справочный размер m

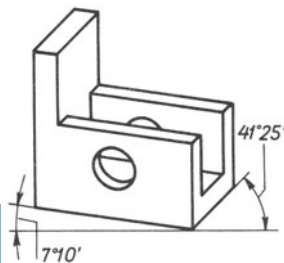


12.105 e axonometric projection
 d axonometrische Projectie f
 f projection f axonométrique
 nl axonometrische projectie f
 r аксонометрическая проекция f
 (→ 12.106, 12.107)

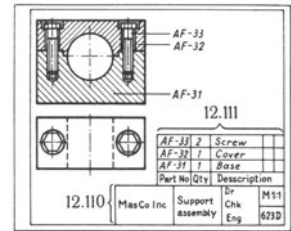
12.106 e isometric projection
 d isometrische Projektion f
 f projection f isométrique
 nl isometrische projectie f
 r изометрическая проекция f



12.107 e dimetric projection
 d dimetrische Projektion f
 f projection f dimétrique
 nl dimetrische projectie f
 r диметрическая проекция f



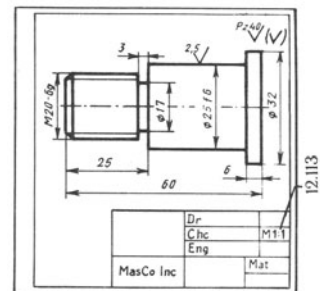
12.108 e drawing
 d Zeichnung f
 f dessin m
 nl tekening f
 r чертёж m
 (→ 12.109, 12.112, 12.114)
 12.109 e assembly drawing
 d Zusammenbau-Zeichnung f
 f dessin m de montage
 nl montagetekening f
 r сборочный чертёж m



12.110 e title block
 d Grundschriftfeld n
 f titre m
 nl rechteronderhoek m
 r штамп m, основная надпись m
 (→ 12.109)

12.111 e parts list
 d Stückliste f
 f nomenclature f
 nl stuklijst f (m)
 r спецификация f
 (→ 12.109)

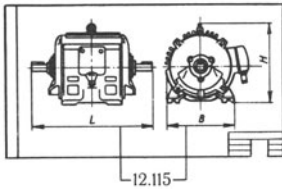
12.112 e detail drawing
 d Teil-Zeichnung f
 f dessin m d'exécution
 nl detailtekening f
 r рабочий чертёж m, чертёж детали



12.113

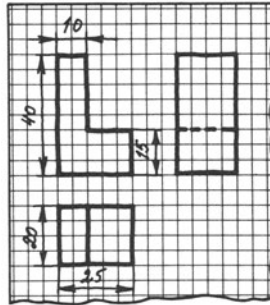
- 12.113 e scale
 d Massstab m
 f échelle f
 nl schaal f (m)
 r масштаб m
 (→ 12.112)

- 12.114 e general view
 d Gesamtzeichnung f
 f vue f générale
 nl overzichtstekening f
 r общий вид m

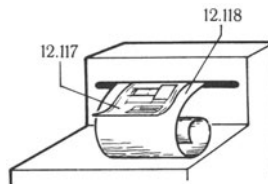


- 12.115 e overall dimension
 d Gesamtmaß n
 f cote f d'encombrement
 nl totale afmeting f
 r габаритный размер m
 (→ 12.114)

- 12.116 e sketch
 d Skizze f
 f croquis m
 nl schets f(m), schetsteke-
 ning f
 r эскиз m



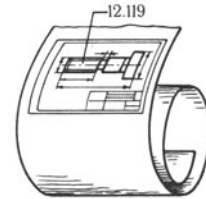
- 12.117 e tracing paper
 d Pauspapier n



- f papier m calque
 nl calqueerpapier n
 r калька f

- 12.118 e light-sensitive paper
 d Lichtpauspapier n
 f papier m au ferro-prus-
 siate
 nl lichtgevoelig papier n
 r светочувствительная бу-
 мага f
 (→ 12.117)

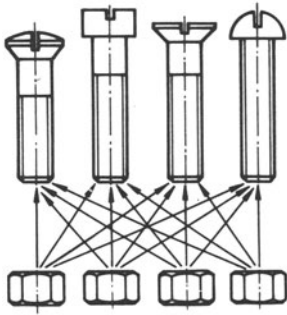
- 12.119 e blueprint
 d Lichtpause f
 f bleu m
 nl blauwdruk m, foto-
 kopie f
 r светокопия f



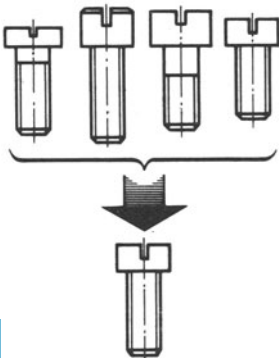
**13. ACCURACY AND MEASUREMENTS
GENAUIGKEIT UND MESSEN
PRÉCISION ET MESURES
NAUWKEURIGHEID EN METEN
ТОЧНОСТЬ И ИЗМЕРЕНИЯ**

- 13.1 e accuracy
d Genauigkeit f
f précision f
nl nauwkeurigheid f
r точность f

- 13.2 e interchangeability
d Austauschbarkeit f
f interchangeabilité f
nl uitwisselbaarheid f
r взаимозаменяемость f



- 13.3 e unification
d Unifizieren n
f unification f
nl unificatie f
r унификация f

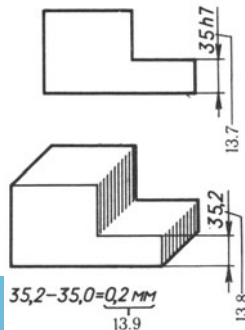


- 13.4 e standardization
d Normung f
f standardisation f
nl normalisatie f, standaardisering f
r стандартизация f

- 13.5 e standard
d Norm f, Standard m
f standard m, norme f
nl standaard m, norm m
r стандарт m
(→ 13.4)

Standard	Screws						DS 3756
							1980
	d	D	l	l_f	L	L_f	S
M 10	.....	.....	.....	.....	.....	.....	.....
M 12	.....	.....	.....	.....	.....	.....	.....
M 16	.....	.....	.....	.....	.....	.....	.....
M 20	.....	.....	.....	.....	.....	.....	.....

- 13.6 e dimension, size
d Mass n
f dimension f, cote f
nl dimensie f, maat f(m), afmeting f
r размер m

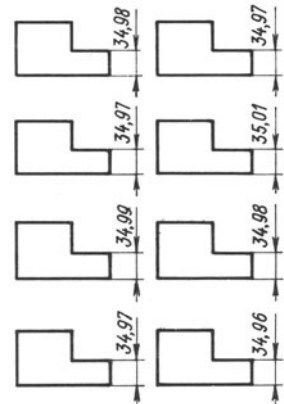


- 13.7 e nominal size
d Nennmass n
f dimension f nominale
nl nominale maat f(m)
r номинальный размер m
(→ 13.6)

- 13.8 e actual size
d Istmass n
f dimension f réelle
nl werkelijke maat f(m)
r действительный размер m
(→ 13.6)

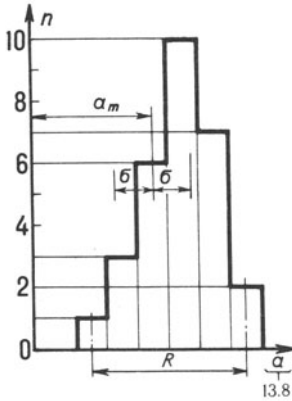
- 13.9 e (size) deviation
d Massabweichung f
f écart m (dimensionnel)
nl maatafwijking f
r отклонение n (размера)
(→ 13.6)

- 13.10 e size scatter
d Mass-Streuung f
f dispersion f de dimension
nl maatspreiding f
r рассеяние n размера



- 13.11 e distribution bar chart
d Verteilungsstabdiagramm n, Verteilungshistogramm n

- f histogramme m de distribution
- nl verdelingsdiagram n
- r гистограмма f распределения



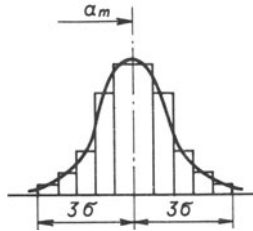
- 13.12 e range of scatter (R)
- d Streubereich m (R)
- f champ m de dispersion (R)
- nl spreidingstraject m (R)
- r поле n [диапазон m] рассеяния (R)
- (→ 13.11)

- 13.13 e average value (of size) (a_m)
- d Mittelwert m [arithmetisches Mittel n] (des Masses) (a_m)
- f moyenne f arithmétique (de dimension) (a_m)
- nl rekenkundige gemiddelde n (van de maat) (a_m)
- r среднее арифметическое значение n (размера) (a_m)
- (→ 13.11)

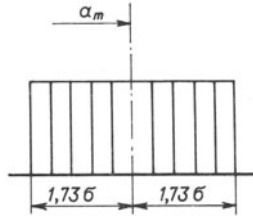
- 13.14 e standard deviation (σ)
- d Standardabweichung f (σ)
- f moyenne f quadratique (de dimension) (σ)
- nl standaardafwijking f, standaarddeviatie f (σ)
- r среднее квадратическое отклонение n (размера) (σ)
- (→ 13.11)

- 13.15 e normal [Gaussian] distribution

- d Normalverteilung f, Gaussische Verteilung
- f distribution f normale [gaussienne]
- nl normaalverdeling f, verdeling van Gauss
- r нормальное [гауссово] распределение n

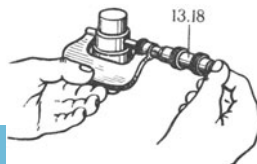


- 13.16 e uniform distribution
- d gleichmäßige Verteilung f
- f distribution f uniforme
- nl uniforme verdeling f
- r равномерное распределение n



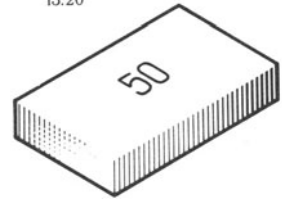
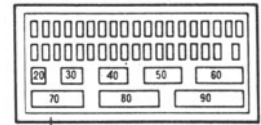
**Measuring Equipment
Messmittel
Dispositifs metrologiques
Meetinstrumenten
Средства измерений**

- 13.17 e measurement
- d Messen n
- f mesure f
- nl meten n
- r измерение n



- 13.18 e measuring equipment [means]
- d Messmittel n
- f dispositif m métrologique [de mesure]
- nl meetinstrument n, meettoestel n
- r средство n измерения

- 13.19 e ga(u)ge block
- d Parallelendmass n, Endmass
- f calibre m Johansson
- nl meetblok n
- r концевая (плоскопараллельная) мера f (длины)

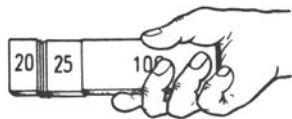


- 13.20 e set of ga(u)ge blocks
- d Parallelendmasssatz m
- f lot m de calibres Johansson
- nl stel n meetblokken
- r набор m концевых мер (→ 13.19)

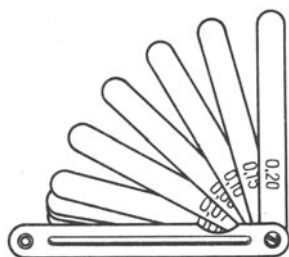
- 13.21 e wringing (ga(u)ge blocks)
- d Anschieben n [Ansprenge n] (von Endmassen)
- f rodage m (de calibres Johansson)
- nl inslijpen n (van meetblokken)
- r притирка f (концевых мер)



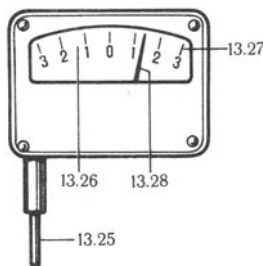
- 13.22 e stack of ga(u)ge blocks
 d Endmasskombination f
 f ensemble m de calibres
 Johansson
 nl blok n meetblokken
 r блок концевых мер



- 13.23 e feeler ga(u)ge
 d Fühlerlehre f
 f palpeur m
 nl voeler m, voelermaat f (m)
 r щуп m



- 13.24 e indicating ga(u)ge
 d Messgerät n
 f appareil m de mesure,
 mesureur m
 nl meetinstrument n
 r измерительный прибор m



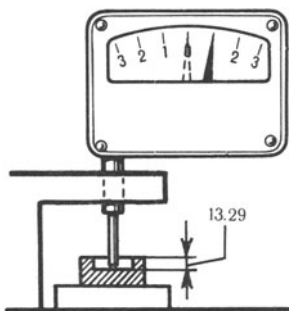
- 13.25 e sensitive contact
 d Messbolzen m
 f touche f du mesureur
 nl voelercontact n
 r измерительный наконечник m
 (→ 13.24)

- 13.26 e scale
 d Skale f
 f échelle f, cadran m,
 graduation f d'appareil
 nl schaalverdeling f
 r шкала f
 (→ 13.24)

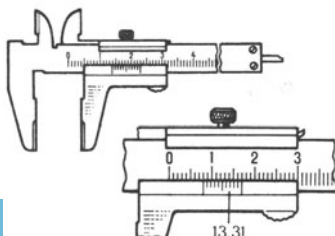
- 13.27 e scale graduation
 d Skalenteil(ung) m (f)
 f division f d'échelle
 nl schaalverdeling f
 r деление n шкалы
 (→ 13.24)

- 13.28 e indicating hand
 d Zeiger m
 f indicateur m à aiguille
 nl wijzer m
 r указатель m, стрелка f
 (→ 13.24)

- 13.29 e value of the (smallest)
 graduation
 d Skalenwert m
 f valeur f d'une division
 d'échelle
 nl kleinste schaaleenheid f
 r цена f деления (шкалы)



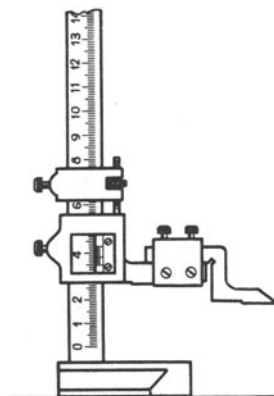
- 13.30 e vernier caliper
 d Mess-Schieber m, Schieb-
 lehre f



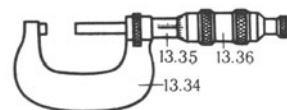
- f pied m à coulisse
 nl noniusschuifmaat f (m)
 r штангенциркуль m

- 13.31 e vernier scale
 d Nonius n
 f vernier m
 nl nonius m
 r нониус m, верньер m
 (→ 13.30)

- 13.32 e vernier height ga(u)ge
 d Höhenschieblehre f
 f pied m à profondeur
 nl hoogteschuifmaat f(m)
 r штангенрейсмус m



- 13.33 e micrometer
 d Bügelmess-Schraube f,
 Mess-Schraube, Schraub-
 lehre f
 f micromètre m
 nl micrometer m
 r микрометр m



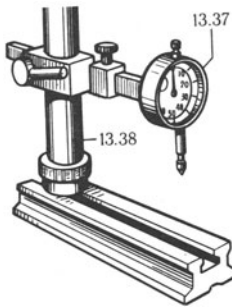
- 13.34 e frame
 d Bügel m
 f étrier m
 nl beugel m
 r скоба f
 (→ 13.33)

13.35

- 13.35 e barrel
d Skalenhülse f
f tige f
nl micrometerhuls f (m)
r стебель m
(→ 13.33)

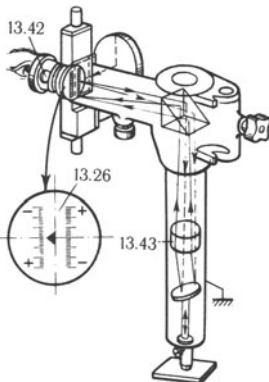
- 13.36 e thimble
d Messstrommel f
f tambour m
nl meettrommel f(m)
r барабан m
(→ 13.33)

- 13.37 e dial indicator
d Messuhr f
f indicateur m à cadran
nl meetklok f (m)
r индикатор m (часового типа)



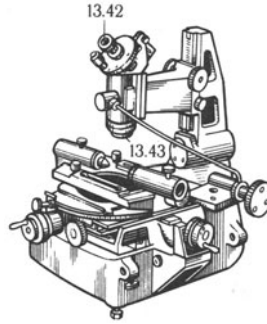
- 13.38 e stand
d Ständer m, Stativ n
f statif m
nl statief n
r стойка f, штатив m
(→ 13.37)

- 13.39 e optical ga(u)ge
d optischer Feinzeiger m

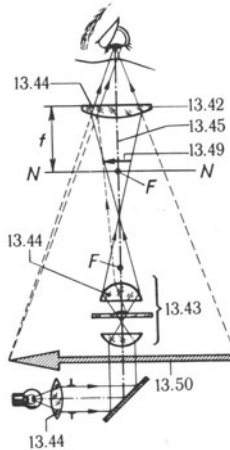


- f instrument m optique
nl optisch meetinstrument n,
optimeter m
r оптиметр m

- 13.40 e tool-maker's microscope
d Universal-Längenmesser m,
Werkzeugmikroskop n
f microscope m de mesure
nl werktuigmicroscoop m
r инструментальный микроскоп m



- 13.41 e microscope
d Mikroskop n
f microscope m
nl microscoop m
r микроскоп m



- 13.42 e eyepiece
d Okular n
f oculaire m
nl oculair n
r окуляр m
(→ 13.40, 13.41)

- 13.43 e objective
d Objektiv n
f objectif m
nl objectief n
r объектив m
(→ 13.40, 13.41)

- 13.44 e lens
d Linse f
f lentille f
nl lens f(m)
r линза f
(→ 13.41)

- 13.45 e optical axis
d optische Achse f
f axe m optique
nl optische as f(m)
r оптическая ось f
(→ 13.41)

- 13.46 e focus (F)
d Brennpunkt m (F)
f foyer m (F)
nl focus m, brandpunt n (F)
r фокус m (F)
(→ 13.41)

- 13.47 e focal plane (NN)
d Brennebene f (NN)
f plan m focal (NN)
nl brandpuntsvlak n (NN)
r фокальная плоскость f (NN)
(→ 13.41)

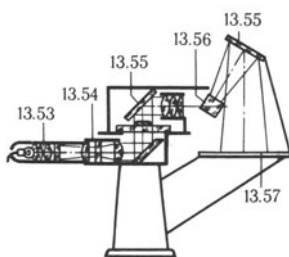
- 13.48 e focal distance [length] (f)
d Brennweite f (f)
f distance f focale (f)
nl brandpuntsafstand m (f)
r фокусное расстояние n (f)
(→ 13.41)

- 13.49 e real image
d reeles Bild n
f image f réelle
nl reëel beeld n
r действительное изображение n
(→ 13.41)

- 13.50 e virtual image
d virtuelles Bild n
f image f virtuelle
nl virtueel beeld n
r мнимое изображение n
(→ 13.41)

13.51 e magnification
d Vergrößerung f
f grossissement m
nl vergroting f
r увеличение n

13.52 e optical projector
d Messprojektor m, Projek-
tor
f projecteur m optique
nl proectietoestel n
r проектор m



13.53 e permanent collimating
lens
d fester Kondensator m
f condenseur m permanent
nl vaste condensor m
r постоянный конденсор m
(→ 13.52)

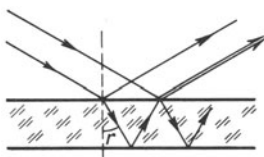
13.54 e change collimating lens
d Wechselkondensator m
f condenseur m de rechange
nl verwisselbare condensor
m
r сменный конденсор m
(→ 13.52)

13.55 e reflecting mirror
d Spiegel m
f miroir m de réflexion
nl spiegel m
r зеркало n
(→ 13.52)

13.56 e optical prism
d optisches Prisma n
f prisme m optique
nl optisch prisma n
r оптическая призма f
(→ 13.52)

13.57 e screen
d Bildschirm m, Schirm
f écran m
nl scherm n
r экран m
(→ 13.52)

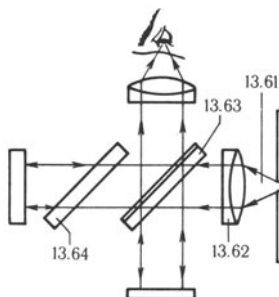
13.58 e interference of light
d Lichtinterferenz f
f interférence f de lumière
nl lichtinterferentie f
r интерференция f света



13.59 e interference fringe
d Interferenzstreifen m
f frange f d'interférence
nl interferentiestreep f(m)
r интерференционная по-
лоса f



13.60 e interferometer
d Interferenzkomparator m
f interféromètre m
nl interferometer m
r интерферометр m



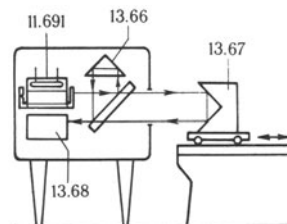
13.61 e monochromatic light
d monochromatisches Licht n
f lumière f monochromatique
nl monochromatisch licht n
r монохроматический
свет n
(→ 13.60)

13.62 e collimating lens
d Kondensator m
f condenseur m
nl condensor m
r конденсор m
(→ 13.60)

13.63 e beam divider [splitter]
d Strahlenteilungsplatte f,
Strahlenteiler m
f séparateur m de rayon,
miroir m diviseur
nl stralenscheider m
r разделительная пласти-
на f
(→ 13.60)

13.64 e compensating plate
d Kompensationsplatte f
f compensateur m optique
nl compensatieplaat f(m)
r компенсатор m
(→ 13.60)

13.65 e laser interferometer
d Laserinterferometer n
f interféromètre m de laser
nl laserinterferometer m
r лазерный интерферо-
метр m



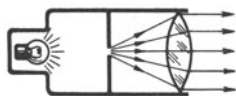
13.66 e reference reflector
d feststehender Reflektor m
f réflecteur m immobile
nl vaste reflector m
r неподвижный отража-
тель m
(→ 13.65)

13.67 e movable reflector
d verschiebbarer Reflektor m
f réflecteur m mobile
nl verstelbare reflector m
r подвижный отражатель m
(→ 13.65)

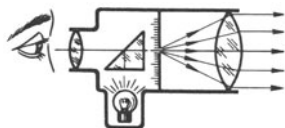
13.68 e photoelectric detector
d lichtelektrischer Empfän-
ger m
f récepteur m photo-élec-
trique

nl fotoelektrische ontvanger m
r фотозлектрический приёмник m, светоприёмник (→ 13.65)

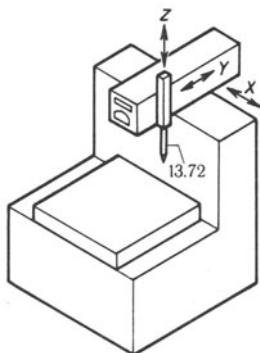
13.69 e collimator
d Kollimator m
f collimateur m
nl collimator m
r коллиматор m



13.70 e autocollimator
d Autokollimator m
f autocollimateur m
nl autocollimator m
r автоколлиматор m



13.71 e coordinate measuring machine
d Koordinatenmessmaschine f
f machine f à mesurer de coordonnées
nl coördinnees
r координатно-измерительная машина f



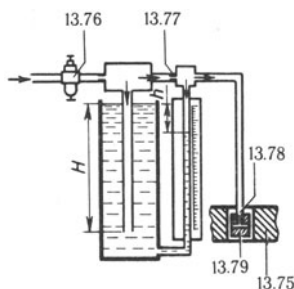
13.72 e measuring probe
d Messtaster m
f palpeur m de machine à mesurer

nl meetvoeler m, meettaster m
r измерительный щуп m (→ 13.71)

13.73 e pneumatic ga(u)ge
d pneumatisches Messgerät n
f mesureur m pneumatique
nl pneumatisch meetinstrument n
r пневматический измерительный прибор m (→ 13.74, 13.80)

13.74 e low-pressure pneumatic [water-column] ga(u)ge

d pneumatisches Niederdruckmessgerät n
f mesureur m pneumatique à basse pression
nl lagedrukmeter m
r пневматический прибор m низкого давления, манометрический длиномер m



13.75 e part to be checked
d Prüfling m
f pièce f contrôlable
nl te onderzoeken werkstuk n
r проверяемая [контролируемая] деталь f (→ 13.74)

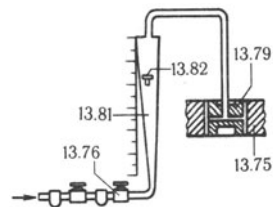
13.76 e pressure stabilizer
d Druckregler m
f stabilisateur m de pression
nl drukstabilisator m, drukregelaar m
r стабилизатор m давления (→ 13.74)

13.77 e input nozzle, restrictor
d Vordüse f
f tuyère f d'admission
nl inlaatmondstuk n
r входное сопло n (→ 13.74)

13.78 e metering [ga(u)ging] nozzle, metering orifice
d Messdüse f
f tuyère f à mesureur
nl metersproeier m
r измерительное сопло n (→ 13.74)

13.79 e ga(u)ging plug
d Normal n
f jauge f étalon
nl meetpen f (m), ijkkaliber n
r эталонный калибр m (→ 13.74, 13.80)

13.80 e high-pressure pneumatic [flow-metering] ga(u)ge
d pneumatisches Hochdruckmessgerät n
f mesureur m pneumatique à haute pression
nl pneumatische hogedrukmeter m
r пневматический прибор m высокого давления, ротаметрический длиномер m

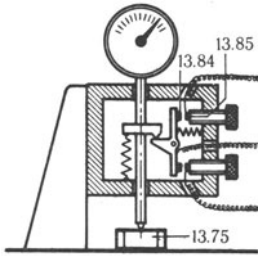


13.81 e glass tube
d Glasrohr n
f tube m de verre
nl glasbuis f(m)
r стеклянная трубка f (→ 13.80)

13.82 e float (index)
d Schwebekörper m
f indicateur m en flotteur

nl vlotterpeilschaal f(m),
vlotter m
r поплавковый указатель
m, поплавок m
(→ 13.80)

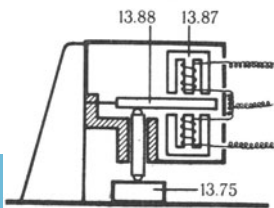
13.83 e electric (switching) ga(u)ge
head
d (elektrischer) Grenzkon-
takt-Feinzeiger m
f tête f de mesure électrique
nl elektrische contactmeet-
kop m
r электроконтактная из-
мерительная головка f



13.84 e movable contact
d beweglicher Kontakt m
f contact m mobile
nl schuifcontact n, beweeg-
baar contact
r подвижный контакт m
(→ 13.83)

13.85 e adjustable contact
d einstellbarer Kontakt m
f contact m réglable
nl instelbaar contact n
r регулируемый контакт m
(→ 13.83)

13.86 e inductance-type [movable
armature] (electronic)
ga(u)ge head
d induktiver Feinzeiger m
f tête f de mesure inductive



nl inductieve meetkop m
r индуктивная измери-
тельная головка f

13.87 e (inductance) coil
d Magnetspule f
f bobine f d'inductance [de
self]
nl inductiespoel f(m)
r индуктивная катушка f
(→ 13.86)

13.88 e (movable) armature
d beweglicher Anker m
f armature f mobile
nl beweegbaar anker n
r (подвижный) якорь m
(→ 13.86)

Fits and Tolerances Passungen und Toleranzen Tolérances et ajustements Passingen en toleranties Допуски и посадки

13.89 e mating parts
d gepaarte Teile m pl
f pièces f pl conjuguées
nl gepaarde [aan elkaar-
aangepaste] onderde-
len n pl
r сопряжённые детали f pl

13.90 e limit of size
d Grenzmass n
f cote f limite

nl grensmaat f(m)
r предельный размер m
(→ 13.89)

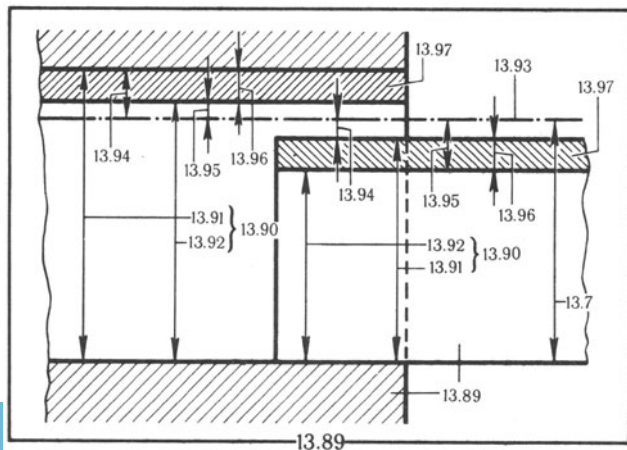
13.91 e maximum limit (of size)
d Grösstmass n
f cote f limite maximale
nl grootste grensmaat f(m)
r наибольший предельный
размер m
(→ 13.89)

13.92 e minimum limit (of size)
d Kleinstmass n
f cote f limite minimale
nl kleinste grensmaat f(m)
r наименьший предельный
размер m
(→ 13.89)

13.93 e zero [basic] line
d Nullinie f
f ligne f de zéro
nl nulstreep m
r нулевая линия f
(→ 13.89)

13.94 e upper deviation
d oberes Abmass n
f écart m supérieur
nl hoogste maatafwijking f
r верхнее отклонение n
(→ 13.89)

13.95 e lower deviation
d unteres Abmass n
f écart m inférieur
nl laagste maatafwijking f
r нижнее отклонение n
(→ 13.89)

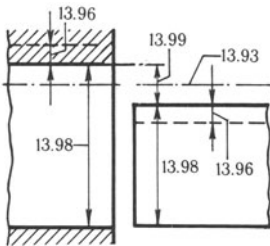


13.96

13.96 e tolerance
 d Toleranz f
 f tolérance f
 nl tolerantie f
 r допуск m
 (→ 13.89)

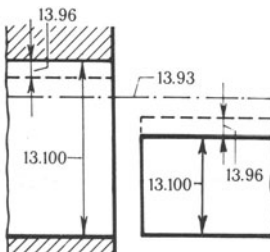
13.97 e tolerance zone [block]
 d Toleranzfeld n
 f intervalle m de tolérance
 nl tolerantieveld n
 r поле допуска
 (→ 13.89)

13.98 e maximum material limit
 d Maximum-Material-Mass n,
 Gutseite f
 f limite f maximum de
 matière
 nl maximale doorlaatmaat
 f(m), goedkeurzijde f(m)
 r проходной предел m



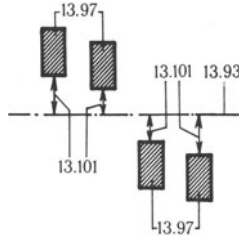
13.99 e allowance
 d Differenz f der Gutseiten
 (von gepaarten Teilen)
 f écartement m entre con-
 tacts
 nl doorlaatmaatverschil n
 (voor gepaarde onder-
 delen)
 r разность f проходных
 размеров (сопряжённых
 деталей)
 (→ 13.98)

13.100 e minimum material limit
 d Minimum-Material-Mass
 n, Ausschuss-Seite f

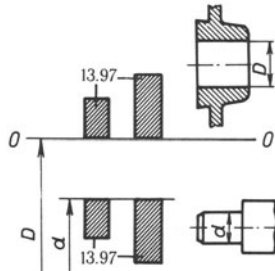


f limite f minimum de
 matière
 nl minimale doorlaatmaat
 f(m), afkeurzijde f(m)
 r непроходной предел m

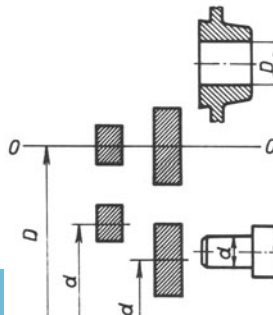
13.101 e fundamental deviation
 d Grundabmass n
 f écart m fondamental
 nl grondafwijking f, grond-
 afmaat f(m)
 r основное отклонение n



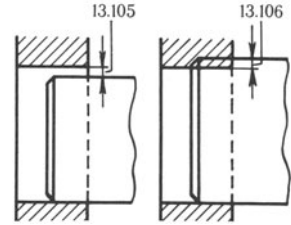
13.102 e unilateral tolerance
 d einseitige Toleranz f
 f tolérance f unilatérale
 nl eenzijdige tolerantie f
 r односторонний допуск m



13.103 e bilateral tolerance
 d zweiseitige Toleranz f
 f tolérance f bilatérale
 nl tweezijdige tolerantie f
 r двусторонний допуск m



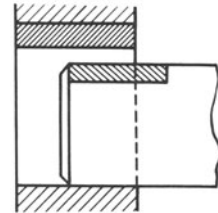
13.104 e fit
 d Passung f, Sitz m
 f ajustement m
 nl passing f
 r посадка f



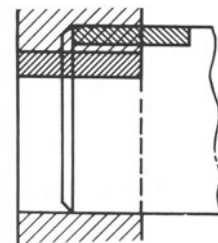
13.105 e clearance
 d Spiel n
 f jeu m
 nl speelruimte f, speling f
 r зазор m
 (→ 13.104)

13.106 e interference
 d Übermass n
 f serrage m
 nl overmaat f(m)
 r натяг m
 (→ 13.104)

13.107 e clearance fit
 d Spielpassung f
 f ajustement m avec jeu
 nl ruim lopende passing f
 r посадка f с (гаранти-
 рованным) зазором

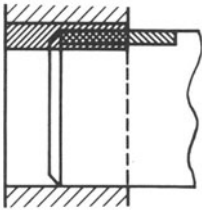


13.108 e interference fit
 d Presspassung f
 f ajustement m forcé
 [sans jeu]

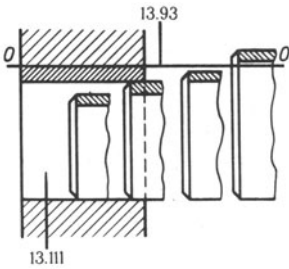


nl perspassing f
r посадка f с (гаранти-
рованным) натягом

13.109 e transition fit
d Übergangspassung f
f ajustement m incertain
nl halfvaste passing f
r переходная посадка f

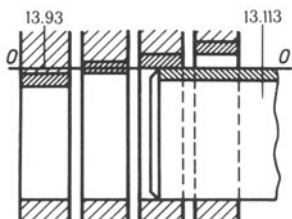


13.110 e basic-hole system
d System n Einheitsboh-
rung
f système m alésage
nl binnenbegrenzings-
maatstelsel n
r система f отверстия



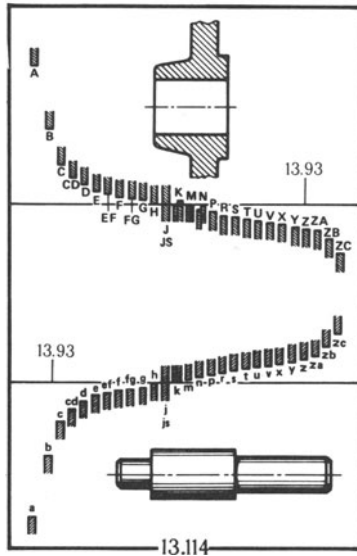
13.111 e basic hole
d Einheitsbohrung f
f alésage m principal
nl binnenbegrenzings-
norm m
r основное отверстие n
(→ 13.110)

13.112 e basic-shaft system
d System n Einheitswelle
f système m arbre
nl eenheidsastelsel n
r система f вала



13.113 e basic shaft
d Einheitswelle f
f arbre m principal
nl eenheidsas f(m)
r основной вал m
(→ 13.112)

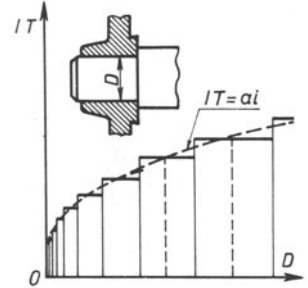
13.114 e ISO system of limits and
tolerances
d ISO-Passystem n
f système m de tolérances
et ajustements ISO
nl ISO-passingstelsel n
r система f допусков и
посадов ИСО



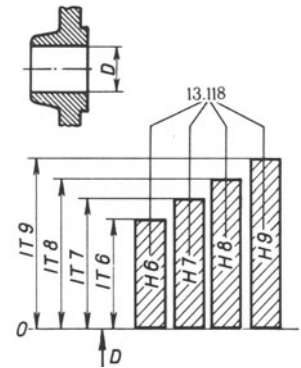
13.115 e International Standardi-
zation Organisation (ISO)
d Internationale Organisa-
tion f für Normung (ISO)
f Organisation f Interna-
tionale de Normalisation
(ISO)
nl Internationale organisatie
voor standaardisering (ISO)
r Международная орга-
низация f по стандарти-
зации (ИСО)

13.116 e international tolerance
d ISO-Toleranz(reihe) f
f ISO-tolérance f
nl ISO-tolerantie f
r допуск m ИСО
 $IT = a \cdot i$

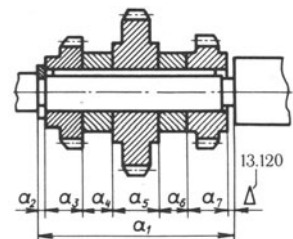
13.117 e tolerance unit
d Toleranzeinheit f
f unité f de tolérance
nl tolerantie-eenheid f
r единица f допуска
 $i = 0,45 \sqrt[3]{D} + 0,001D$
(→ 13.117)



13.118 e (ISO) accuracy degree
d (ISO-) Qualität f
f qualité f (ISO)
nl (ISO-) kwaliteit f
r квалитет m (ИСО)



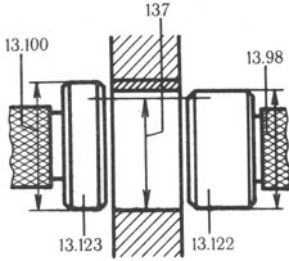
13.119 e dimension chain
d Masskette f
f chaîne f de cotes
nl maatserie f
r размерная цепь f



13.120

13.120 e closing dimension
d Schliessmass n
f cote f fermée
nl sluitmaat f(m)
r замыкающий размер m
(→ 13.119)

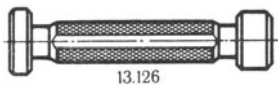
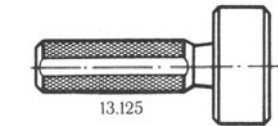
13.121 e limit ga(u)ge
d Grenzlehre f
f calibre m [jauge f] limite
nl grenskaliber n
r предельный калибр m



13.122 e Go-ga(u)ge
d Gutlehre f
f calibre m entre
nl goedkeurkaliber n
r проходной калибр m
(→ 13.121)

13.123 e Not-go-ga(u)ge
d Ausschusslehre f
f calibre m n'entre pas
nl afkeurkaliber n
r непроходной калибр m
(→ 13.121)

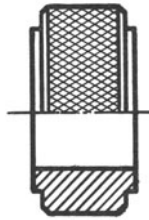
13.124 e plug ga(u)ge
d Lehrdorn m
f calibre m d'alésage
nl meetpenkaliber n
r калибр-пробка m



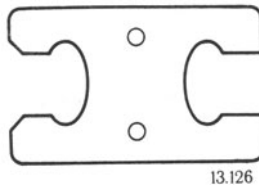
13.125 e single-ended ga(u)ge
d einseitige Lehre f
f calibre m à entaille (simple)
nl enkelzijdig kaliber n
r односторонний калибр m
(→ 13.124, 13.128)

13.126 e double-ended ga(u)ge
d doppelseitige Lehre f
f calibre m à entaille double
nl dubbelgrenskaliber n
r двусторонний калибр m
(→ 13.124, 13.128)

13.127 e ring ga(u)ge
d Lehrring m
f calibre m pour pièces mâles
nl kaliberring m
r калибр-кольцо m



13.128 e snap ga(u)ge
d Rachenlehre f
f calibre m mâchoire [à fourche]
nl bekkaliber n, grenskaliber
r калибр-скоба m



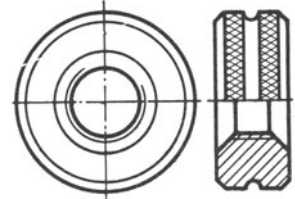
13.129 e thread ga(u)ge
d Gewindelchre f
f calibre m pour filetage
nl schroefdraadkaliber n
r резьбовой калибр m
(→ 13.130, 13.131)

13.130 e thread plug ga(u)ge
d Gewinde(grenz)lehrdorn m

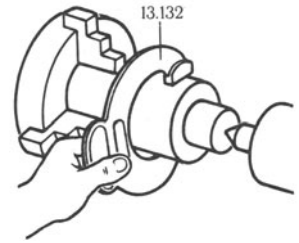
f calibre m de taraudage
nl pendraadkaliber n
r резьбовая пробка f



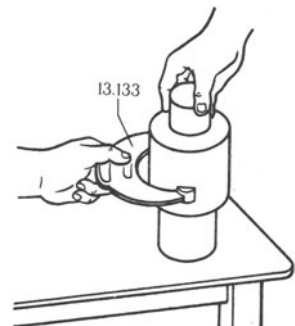
13.131 e thread ring ga(u)ge
d Gewindinglehre f
f calibre m à vis
nl ringdraadkaliber n
r резьбовое кольцо n



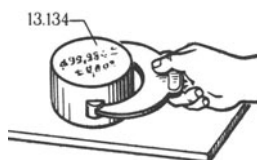
13.132 e work ga(u)ge
d Arbeitslehre f
f calibre m courant
nl werkkaliber n
r рабочий калибр m



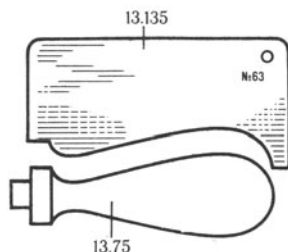
13.133 e inspection ga(u)ge
d Abnahmelehre f
f calibre m de réception
nl controlemaal m
r приёмочный калибр m



- 13.134 e master ga(u)ge
d Prüfllehre f
f calibre m de contrôle
nl proefkaliber n, controlekaliber
r контрольный калибр m, 13.137
контркалибр



- 13.135 e profile ga(u)ge
d Profillehre f
f calibre m plat de profil
nl profielkaliber n
r профильный калибр m,
шаблон m

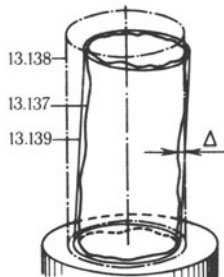


Accuracy of Form
Formgenauigkeit
Précision de la forme
Vormnauwkeurigheid
Точность формы

- 13.136 e feature
d (geometrisches) Formelement n
f élément m (géométrique)

- nl (geometrisch) vormelement n
r (геометрический) элемент m

- e actual surface
d wirkliche Oberfläche f
f surface f réelle
nl werkelijk vlak n
r реальная [действительная] поверхность f

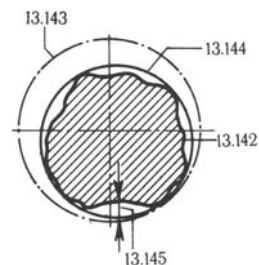


- 13.138 e nominal surface
d Nennoberfläche f
f surface f nominale
nl geometrisch [meetkundig] vlak n
r геометрическая поверхность f
(→ 13.137)

- 13.139 e adjoining surface
d angrenzende Oberfläche f
f surface f osculatrice
nl aangrenzend vlak n
r прилегающая поверхность f
(→ 13.137)

- 13.140 e form deviation (Δ)
d Formabweichung f (Δ)
f déviation f de forme (Δ)
nl vormafwijking f (Δ)
r отклонение f формы (Δ)
(→ 13.137)

- 13.141 e roundness, circularity
d Rundheit f
f circularité
nl rondheid f
r круглость f

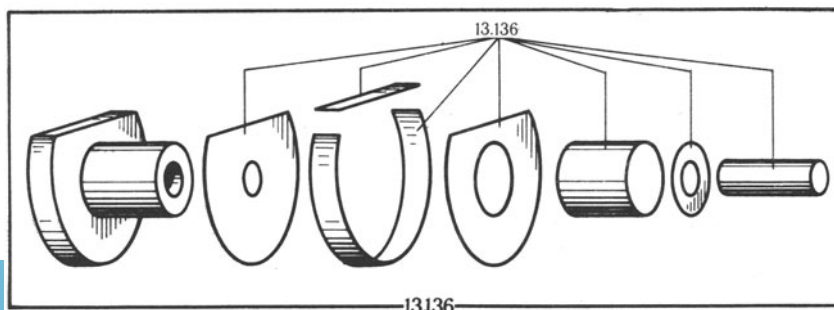


- 13.142 e actual profile
d wirkliches Profil n
f profil m réel
nl werkelijk profiel n
r реальный [действительный] профиль m
(→ 13.141)

- 13.143 e nominal profile
d Nennprofil n
f profil m nominal
nl geometrisch profiel n
r геометрический профиль m
(→ 13.141)

- 13.144 e adjoining circle
d angrenzender Kreis m
f cercle m tangent
nl aangrenzende cirkel m
r прилегающая окружность f
(→ 13.141)

- 13.145 e out-of-roundness
d Kreisformabweichung f
f écart m de circularité
nl afwijking f van de ronde vorm, onrondheid f



13.136

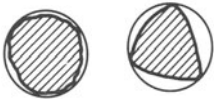
13.145

г отклонение n от круглости, некруглость f
(→ 13.141, 13.146, 13.147)

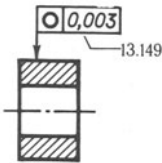
13.146 e ovality
d Ovalität f
f ovalité f
nl ovalheid f
ellipsvormigheid f
г овальность f



13.147 e lobing
d Gleichdick n
f profil m polygonal du cylindre
nl veelvlakprofiel n
г огранка f



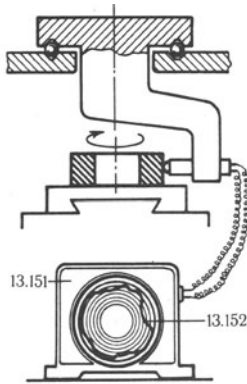
13.148 e drawing callout
d Zeichnungsangabe f
f instruction f technique
nl aanwijzing f op een tekening
г указание n на чертеже



13.149 e roundness tolerance
d Rundformtoleranz f
f tolérance f de circularité
nl rondheidstolerantie f
г допуск m круглости
(→ 13.148)

13.150 e roundness instrument
d Kreisformprüfgerät n
f appareil m de mesure de circularité

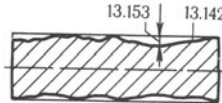
nl rondheidsmeetinstrument n
г кругломер m



13.151 e recorder
d Schreiber m
f enregistreur m
nl schrijver m, registreerapparaat n
г самописец m
(→ 13.150)

13.152 e profile chart [diagram]
d Profildigramm n
f profilogramme m
nl profielijn f(m)
г профилограмма f
(→ 13.150)

13.153 e deviation from (true) longitudinal section profile
d Abweichung f des Längsschnittprofils
f écart m de profil de section longitudinale
nl afwijking f van het langsplofiel n
г отклонение n профиля продольного сечения



13.154 e taper
d Konizität f
f conicité f
nl coniciteit f, tapsheid f
г конусообразность f



13.155 e barrel
d Balligkeit f
f bombement m

nl tonvormigheid f
г бочкообразность f



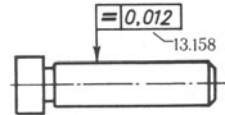
13.156 e bow
d Hohlheit f
f concavité f
nl holheid f
г седлообразность f



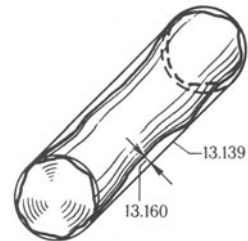
13.157 e camber
d Krümmung f
f cambrure f
nl kromming f
г изогнутость f



13.158 e tolerance for longitudinal section profile
d Längsschnittprofiltoleranz f
f tolérance f de profil de section longitudinale
nl tolerantieveld n voor het langsplofiel n
г допуск m профиля продольного сечения



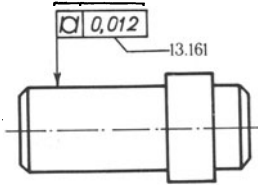
13.159 e cylindricality
d Zylindrizität f
f cylindricité f
nl cilindervormigheid f
г цилиндричность f



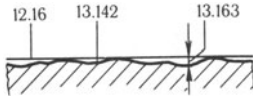
13.160 e noncylindricity
d Zylinderformabweichung f
f écart m de cylindricité
nl afwijking f van de cilindrische vorm

r отклонение п от цилиндричности, нецилиндричность f
(→ 13.159)

13.161 e cylindrical tolerance
d Zylinderformtoleranz f
f tolérance f de cylindricité
nl cilindervormigheidstolerantie f
r допуск м цилиндричности

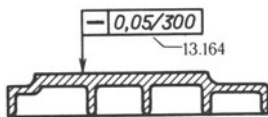


13.162 e straightness
d Geradheit f
f linéarité f
nl rechtheid f
r прямолинейность f



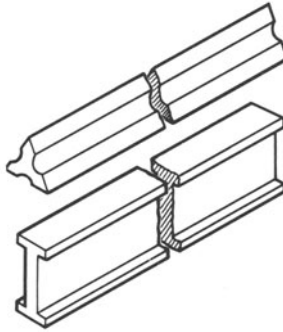
13.163 e nonstraightness
d Geradheitsabweichung f
f écart m de linéarité
nl rechtheidsafwijking f, afwijking van de rechtlijnigheid, niet-rechtlijnigheid f
r отклонение п от прямолинейности, непрямолинейность f
(→ 13.162)

13.164 e straightness tolerance
d Geradheitstoleranz f
f tolérance f de linéarité
nl rechtheidstolerantie f
r допуск м прямолинейности

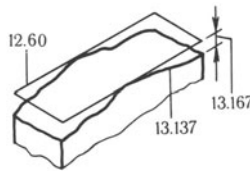


13.165 e precision straightedge
d Prüflinéal n
f règle f de précision [de référence]

nl proefliniaal f(m)
r поверочная линейка f

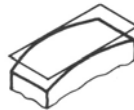


13.166 e flatness
d Ebenheit f
f planéité f
nl vlakheid f
r плоскость f



13.167 e nonflatness
d Ebenheitsabweichung f
f écart m de planéité
nl afwijking f van de vlakke vorm, onvlakheid f
r отклонение п от плоскости, неплоскость f
(→ 13.166)

13.168 e convexity
d Konvexität f
f convexité f
nl convexiteit f, bolheid f
r выпуклость f

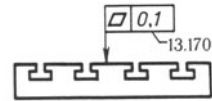


13.169 e concavity
d Konkavität f
f concavité f



nl concaviteit f, holheid f
r вогнутость f

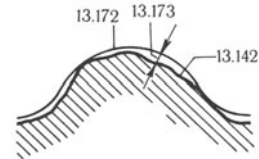
13.170 e flatness toleranz
d Ebenheitstoleranz f
f tolérance f de planéité
nl vlakheidstolerantie f
r допуск м плоскости



13.171 e surface plate
d Prüfplatte f
f plaque f de contrôle
nl vlakplaat f(m)
r поверочная плита f



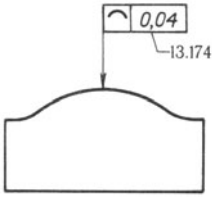
13.172 e basic profile of a line, basic line
d Nennprofilform f
f profil m théorique
nl nominaal profiel n
r номинальный профиль m



13.173 e line profile deviation
d Abweichung f von der vorgegebenen Liniensprofilform
f écart m de forme de profil
nl afwijking f van het vereiste profiel
r отклонение n формы заданного профиля
(→ 13.172)

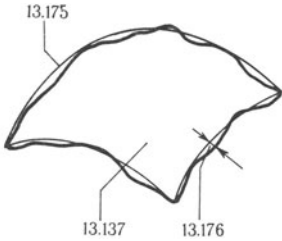
13.174 e line profile tolerance
d Liniensprofilformtoleranz f
f tolérance f de forme de profil

nl tolerantieveld n voor het vereiste profiel
 r допуск м формы заданного профиля



13.175 e basic profile of a surface
 d Nennflächenform f
 f forme f théorique de surface

nl nominale oppervlaktevorm m
 r номинальная форма f поверхности

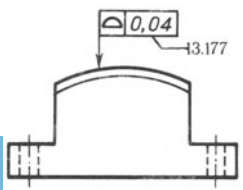


13.176 e surface profile deviation
 d Abweichung f von der vorgegebenen Profilform
 f écart m de forme de surface

nl afwijking f van de gegeven oppervlaktevorm
 r отклонение n формы заданной поверхности (→ 13.175)

13.177 e surface profile tolerance
 d Flächenprofilformtoleranz f
 f tolérance f de forme de surface

nl tolerantieveld n voor de gegeven oppervlaktevorm
 r допуск м заданной поверхности

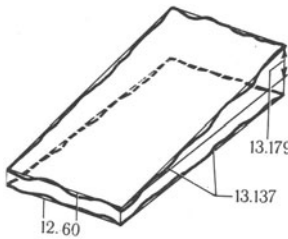


**Accuracy of Surface Position
 Oberflächenlagegenauigkeit
 Précision de position de surfaces**

Nauwkeurigheid van de oppervlakteligging

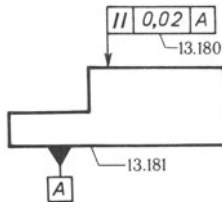
Точность расположения поверхностей

13.178 e parallelism
 d Parallelität f
 f parallélisme m
 nl paralleliteit f, evenwijdigheid f
 r параллельность f



13.179 e nonparallelity
 d Parallelitätsabweichung f
 f écart m de parallélisme
 nl onevenwijdigheid f
 r отклонение n от параллельности, непараллельность f (→ 13.178)

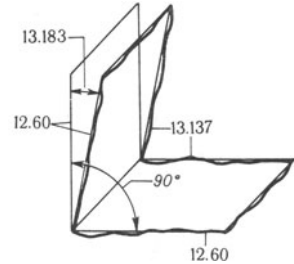
13.180 e parallelity tolerance
 d Parallelitätstoleranz f
 f tolérance f de parallélisme
 nl evenwijdigheidstolerantie f
 r допуск м параллельности



13.181 e datum surface
 d Bezugsfläche f
 f surface f de base
 nl uitgangsvlak n

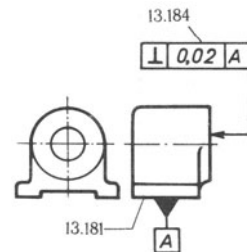
r базовая поверхность f (→ 13.180, 13.184, 13.188, 13.191, 13.194, 13.207, 13.211)

13.182 e perpendicularity, squareness
 d Rechtwinkligkeit f
 f perpendicularité f
 nl loodrechtheid f, haaksheid f
 r перпендикулярность f

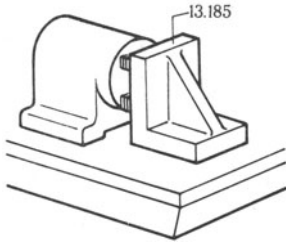


13.183 e nonperpendicularity
 d Rechtwinkligkeitsabweichung f
 f écart m de perpendicularité
 nl afwijking f van de loodrechtheid [van de haaksheid]
 r отклонение n от перпендикулярности, неперпендикулярность f (→ 13.182)

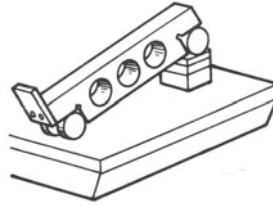
13.184 e perpendicularity tolerance
 d Rechtwinkligkeitstoleranz f
 f tolérance f de perpendicularité
 nl tolerantie f voor de loodrechtheid
 r допуск м перпендикулярности



- 13.185 e precision square
 d Prüfwinkel m
 f équerre f d'ajusteur [de précision]
 nl controlewinkellaak m
 r поверочный угольник m



- 13.189 e sine bar
 d Sinuslineal n
 f règle-sinus f
 nl sinusliniaal f(m)
 r синусная линейка f



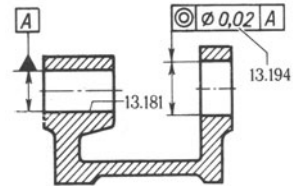
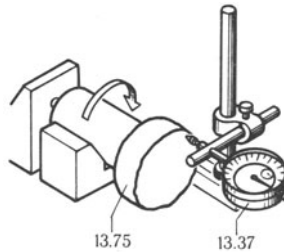
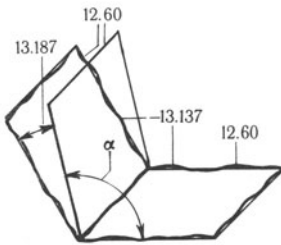
- f coaxialité f
 nl coaxialiteit f
 r соосность f

- 13.193 e eccentricity
 d Koaxialitätsabweichung f
 f écart m de coaxialité
 nl coaxialiteitsafwijking f
 r отклонение n от соосности, несоосность f (→ 13.192)

- 13.190 e camming action
 d Stirnlaufabweichung f, Planlaufabweichung f
 f voile f
 nl frontloopafwijking f
 r торцовое биение n

- 13.194 e coaxiality tolerance
 d Koaxialitätstoleranz f
 f tolérance f de coaxialité
 nl coaxialiteitstolerantie f
 r допуск m соосности

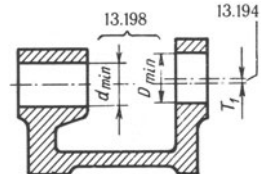
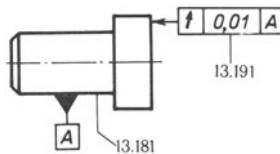
- 13.186 e angularity
 d Winkligkeit f, Neigung f
 f inclinaison f
 nl helling f
 r наклон m



- 13.195 e nonqualified tolerance, "regardless of feature size" tolerance, RFS tolerance
 d unabhängige Toleranz f
 f tolérance f indépendante
 nl onafhankelijke tolerantie f
 r независимый допуск m

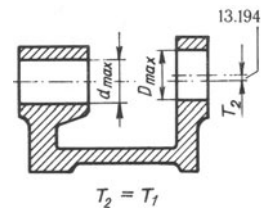
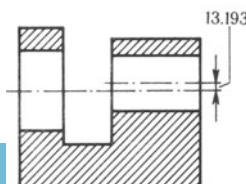
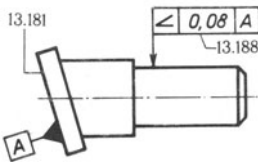
- 13.187 e angularity deviation
 d Winkligkeitsabweichung f
 f écart m d'inclinaison
 nl hoekafwijking f, afwijking f van de gegeven hellingshoek
 r отклонение n наклона (→ 13.186)

- 13.191 e camming action tolerance
 d Stirnlauftoleranz f, Planlauftoleranz f
 f tolérance f de voile
 nl frontlooptolerantie f
 r допуск m торцового биения



- 13.188 e angularity tolerance
 d Winkligkeitstoleranz f
 f tolérance f d'inclinaison
 nl hellingshoektolerantie f
 r допуск m наклона

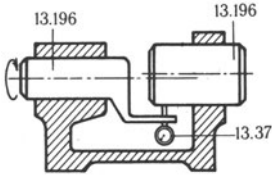
- 13.192 e coaxiality, concentricity
 d Koaxialität f



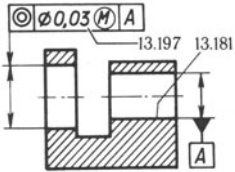
- 13.196 e ga(u)ging mandrel
 d Prüfdorn m
 f mandrin m étalon

13.196

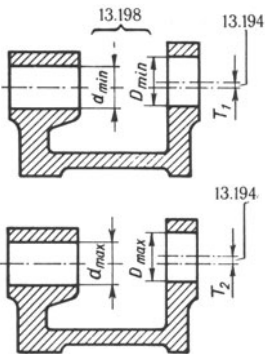
nl proefdoorn m
r контрольная оправка f



13.197 e qualified tolerance, "maximum material condition" tolerance, MMC tolerance
d abhängige Toleranz f
f tolérance f dépendante
nl afhankelijke tolerantie f
r зависимый допуск m

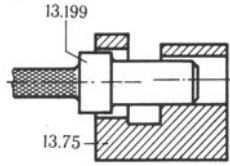


13.198 e maximum material condition
d Maximum-Material-Bedingung f
f condition f de maximum de matière
nl maximum-materiaal-voorwaarde f
r условие n максимума материала
(→ 13.195, 13.197)

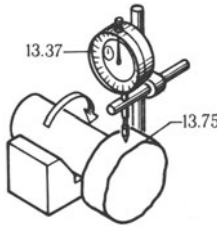


$T_2 > T_1$

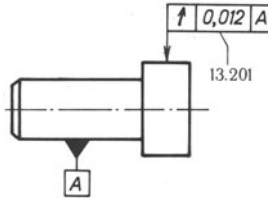
13.199 e coaxiality ga(u)ge
d Koaxialitätslehre f
f calibre m de coaxialité
nl coaxialiteitskaliber n
r калибр m соосности



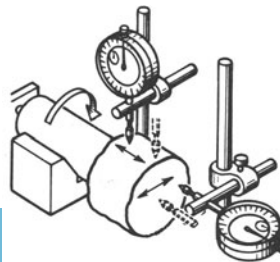
13.200 e radial [circular] runout
d Rundlaufabweichung f
f battement m radial
nl radiaal verloop n
r радиальное биение n



13.201 e radial [circular] runout tolerance
d Rundlauftoleranz f
f tolérance f de battement radial
nl radiale verloop-tolerantie f
r допуск m радиального биения

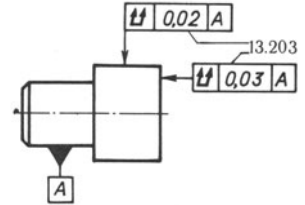


13.202 e total runout
d Gesamtlaufabweichung f

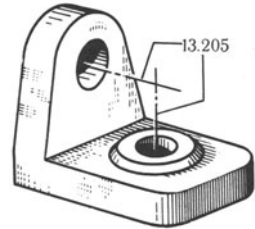


f battement m total
nl totaal radiaal verloop n

13.203 e total runout tolerance
d Gesamtlauftoleranz f
f tolérance f de battement total
nl tolerantieveld n voor de totale loopafwijking
r допуск m полного биения

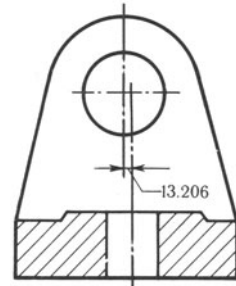


13.204 e intersection of axes
d Kreuzung f von Achsen
f intersection f d'axes
nl kruising f van assen
r пересечение n осей



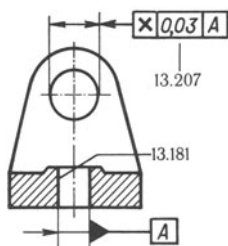
13.205 e axis, center line
d Achse f
f axe m
nl hartlijn f(m)
r ось f
(→ 13.204)

13.206 e nonintersection
d Kreuzungsabweichung f

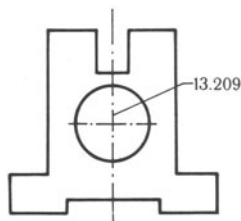


f écart m d'intersection d'axes
 nl assenkruisingsfout f(m)
 r отклонение n от пересечения осей, непересечение n

13.207 e intersection tolerance
 d Kreuzungstoleranz f
 f tolérance f d'intersection d'axes
 nl assenkruisings tolerantie f
 r допуск m пересечения осей

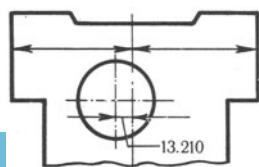


13.208 e symmetry
 d Symmetrie f
 f symétrie f
 nl symmetrie f
 r симметрия f



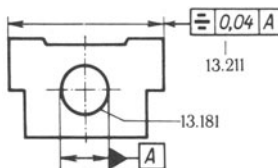
13.209 e symmetry axis
 d Symmetrieachse f
 f axe m de symétrie
 nl symmetrieas f(m)
 r ось f симметрии
 (→ 13.208)

13.210 e nonsymmetry
 d Symmetrieabweichung f
 f écart m de symétrie

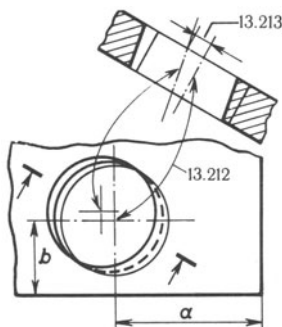


nl symmetriefwijking f, asymmetrie f
 r отклонение n симметричности, несимметричность f

13.211 e symmetry tolerance
 d Symmetrietoleranz f
 f tolérance f de symétrie
 nl symmetrietolerantie f
 r допуск m симметричности



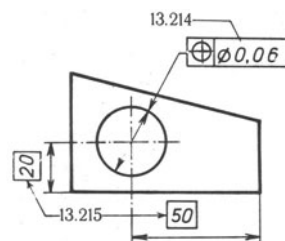
13.212 e true position (of axis)
 d geometrisch ideale [genaue] Lage f (einer Achse)
 f disposition m nominale (d'axe)
 nl nominale aspositie f
 r номинальное расположение n (оси)



13.213 e positional variation
 d Positionsabweichung f
 f écart m de position
 nl afwijking van de nominale aspositie
 r позиционное отклонение n
 (→ 13.212)

13.214 e positional tolerance
 d Positionstoleranz f
 f tolérance f de position

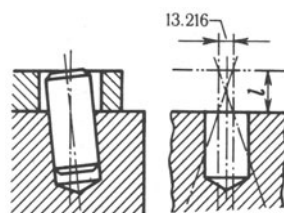
nl plaat tolerantie f
 r позиционный допуск m



13.215 e exact size
 d theoretisches Mass n
 f cote f exacte
 nl exacte maat f(m)
 r точный размер m
 (→ 13.214)

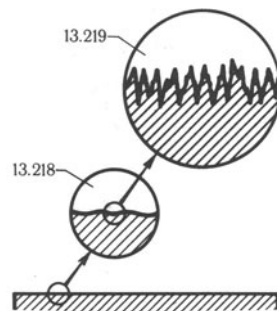
13.216 e projected tolerance zone
 d vorspringendes Toleranzfeld n
 f intervalle m saillant de tolérance

nl uitspringend tolerantieveld n
 r выступающее поле n допуска



Surface Roughness
Oberflächenrauheit
Rugosité de la surface
Oppervlakterutheid
Шероховатость поверхности

13.217 e surface irregularities
 d Rillen f pl



13.217

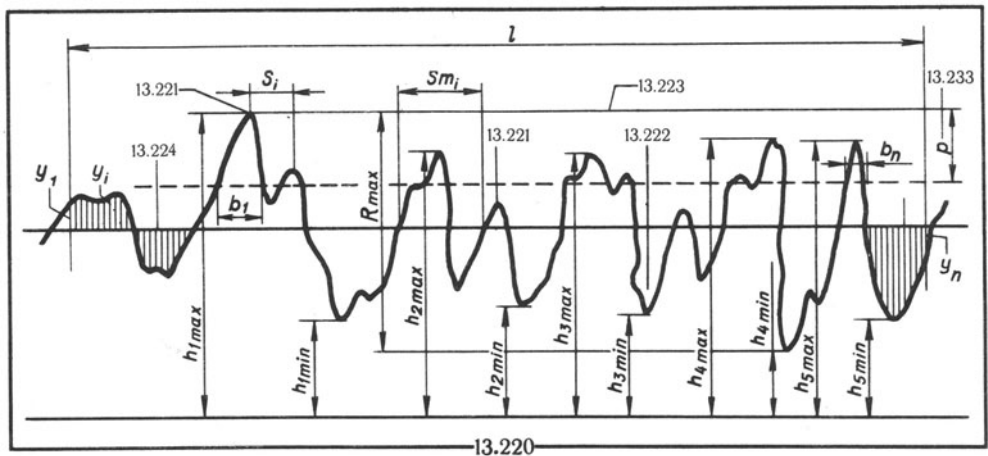
- f irrégularités *f pl* de surface 13.223 e line of profile peaks
nl oppervlakteonregelmatig- d Spitzenlinie f
heden *f pl*, oneffenheden f ligne *f* de saillies de profil
r неровности *f pl* поверх- nl profieltoplijn *f*(m)
ности r линия *f* выступов про-
филя
(→ 13.220)
13.218 e waviness 13.224 e mean line, centerline (of
d Welligkeit f the profile)
f ondulation f d mittlere Linie f
nl golving f f ligne *f* moyenne de profil
r волнистость *f* nl profielmiddenlijn *f*(m),
(→ 13.217) profielmediaan *f*(m)
13.219 e roughness r средняя линия *f* профиля
d Rauheit f 13.228 e arithmetical average de-
f rougosité *f* viation from the mean
nl ruwheid f line, centerline average
r шероховатость *f* d arithmetischer Mittenrau-
(→ 13.217) wert m
13.220 e surface profile f écart m moyen arithmé-
d Oberflächenprofil n tique de profil
f profil m de surface nl gemiddelde afwijking *f*
nl oppervlakteprofiel n van de profielmiddenlijn
r профиль m поверх- r среднее арифметическое
ности отклонение n профиля
13.221 e profile peak $Ra = \frac{1}{n} \sum_{i=1}^n |y_i|$
d Profilkamm m (→ 13.220)
f saillie *f* de profil
nl profieltop m
r выступ m профиля
(→ 13.220)
13.222 e profile valley 13.229 e ten-point height of irre-
d Profiltal n gularities ·
f creux m de profil d mittlere Rauheit f
nl profieldal n, profielkuil m f profondeur *f* d'irrégularités
r впадина *f* профиля de profil d'après dix points
(→ 13.220) nl naar tien punten gemiddel-
de hoogte van oneffenheden

$$Sm = \frac{1}{n} \sum_{i=1}^n Sm_i$$

(→ 13.220)

$$Ra = \frac{1}{n} \sum_{i=1}^n |y_i|$$

(→ 13.220)



г высота *f* неровностей
профиля по десяти точкам

$$R_z = \frac{1}{5} \left(\sum_{i=1}^5 h_{i \max} - \sum_{i=1}^5 h_{i \min} \right)$$

(→ 13.220)

13.230 e maximum height of irregularities (R_{max})

d Rauhtiefe *f* (R_{max})

f hauteur *f* maximale d'irrégularités de profil (R_{max})

nl maximale hoogte *f* van oneffenheden (R_{max})

г наибольшая высота *f* неровностей профиля (R_{max})

(→ 13.220)

13.231 e reference length of the profile

d tragende Länge *f*

f longueur *f* de référence de profil

nl uitgangsprofiellengte

г опорная длина *f* профиля

$$b_{\Sigma} = \sum_{i=1}^n b_i$$

(→ 13.220)

13.232 e relative reference length of the profile

d Profiltraganteil *m*

f longueur *f* relative de référence de profil

nl relatieve uitgangsprofiellengte *f*

г относительная опорная длина *f* профиля

$$t_p = \frac{1}{l} \sum_{i=1}^n b_i$$

(→ 13.220)

13.233 e level of the profile section (*p*)

d Niveauabstand *m* (*p*)

f niveau *m* de coupe de profil (*p*)

nl hoogte *f* van de profielsnede

г уровень *m* сечения профиля (*p*)

(→ 13.220)

13.234 e lay

d Rillenrichtung *f*

f direction *f* d'irrégularités

nl onregelmatigheidsrichting *f*, oneffenheidsrichting

г направление *n* неровностей
(→ 13.235 – 13.240)

13.235 e parallel lay

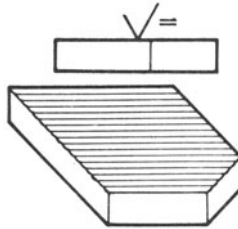
d parallele Rillenrichtung *f*

f direction *f* parallèle

(d'irrégularités)

nl parallele rillen *f*(*m*)
pl

г параллельное направление *n* (неровностей)



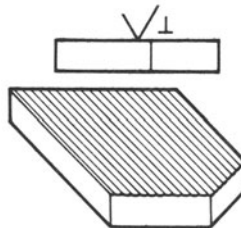
13.236 e perpendicular lay

d senkrechte Rillenrichtung *f*

f direction *f* perpendiculaire (d'irrégularités)

nl onderling loodrechte rillen *f* pl

г перпендикулярное направление *n* (неровностей)



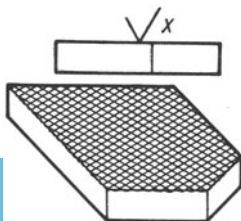
13.237 e cross-angular lay

d gekreuzte Rillenrichtung *f*

f direction *f* croisée (d'irrégularités)

nl kruisende rillen *f* pl

г перекрещивающееся направление *n* (неровностей)



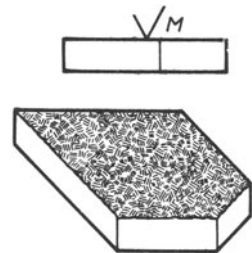
13.238 e multidirectional lay

d willkürliche Rillenrichtung *f*

f direction *f* arbitraire (d'irrégularités)

nl willekeurige rilrichting *f*

г произвольное направление *n* (неровностей)



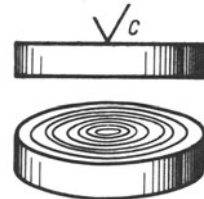
13.239 e circular lay

d kreisförmige Rillenrichtung *f*

f direction *f* circulaire (d'irrégularités)

nl circelvormige [rondlopende] rillen *f* pl

г кругообразное направление *n* (неровностей)



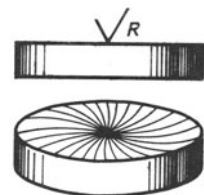
13.240 e radial lay

d radiale Rillenrichtung *f*

f direction *f* radiale (d'irrégularités)

nl radiale rilrichting *f*

г радиальное направление *n* (неровностей)

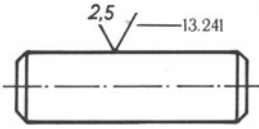


13.241 e surface roughness symbol

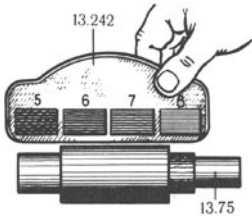
d Oberflächenbeschaffenheitssymbol *n*

13.241

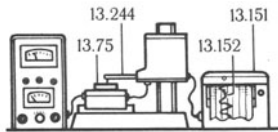
f désignation f symbolique de rugosité
 nl ruwheidssymbool n
 r условное обозначение шероховатости



13.242 e roughness comparison specimen
 d Oberflächenvergleichsstück n
 f échantillon m de rugosité
 nl ruwheidsmonster n
 r образец м шероховатости



13.243 e profile meter
 d Profilometer n, Oberflächenprüfgerät n
 f profilomètre m
 nl profielmeetinstrument n
 r профилометр m



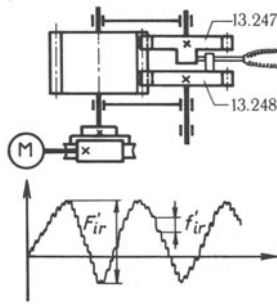
13.244 e tracing head
 d Tastkopf m
 f tête f de tracer
 nl tasterkop m, voelerkop
 r ошупывающая головка f
 (→ 13.243)

Accuracy of Gears
Präzision von Zahnrädern
Précision d'engrenages
Vorm- en maatnauwkeurigheid van tandwielen
Точность зубчатых колёс

13.245 e functional gear checking
 d Gesamtfehlerprüfung f, Wälzprüfung

f vérification f d'engrenage en travail
 nl controle f(m) van tandwielen in bedrijf
 r контроль м зубчатого колеса в зацеплении (→ 13.246, 13.251)

13.246 e single-flank rolling instrument
 d Einflankenwälzprüfgerät n
 f appareil m de contrôle d'engrenage uniprofil
 nl instrument n voor controle van tandwielen met gelijke tandflank
 r прибор м для контроля в однопрофильном зацеплении



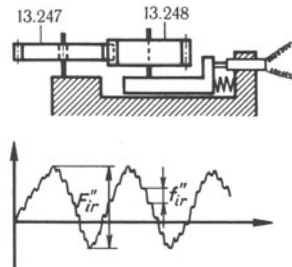
13.247 e gear to be checked
 d zu prüfendes Zahnrad n
 f roue f [engrenage m] contrôlable
 nl te controleren tandwiel n
 r контролируемое [проверяемое] колесо n
 (→ 13.246)

13.248 e master gear
 d Lehrzahnrad n
 f roue f étalon
 nl meettandwiel n
 r измерительное колесо n
 (→ 13.246)

13.249 e total composite error single flank (F_{ir}')
 d Einflankenwälzabweichung f (F_{ir}')
 f incertitude f cinématique (F_{ir}')
 nl kinematische ingreepfout f(m) (F_{ir}')
 r кинематическая погрешность f (F_{ir}')
 (→ 13.246)

13.250 e tooth-to-tooth composite error single flank (f_{ir}')
 d Einflankenwälzsprung m (f_{ir}')
 f incertitude f cinématique locale (f_{ir}')
 nl plaatselijke kinematische ingreepfout f(m) (f_{ir}')
 r местная кинематическая погрешность f (f_{ir}')
 (→ 13.246)

13.251 e variable-center-distance gear-rolling tester
 d Zweiflanken-Wälzprüfgerät n
 f mesureur m d'entr'axe
 nl centerlengtemeter m, tweeflanken-walsproeftoestel n
 r межцентромер m



13.252 e total composite error double flank (F_{ir}'')
 d Gesamtschwankung f des Achsabstandes, Zweiflankenwälzabweichung f (F_{ir}'')
 f erreur f d'entr'axe en seule révolution d'engrenage (F_{ir}'')
 nl totale assenafstandvariatie f per omwenteling (van een tandwiel) (F_{ir}'')
 r колебание n измерительного межосевого расстояния за оборот (зубчатого колеса) (F_{ir}'')
 (→ 13.251)

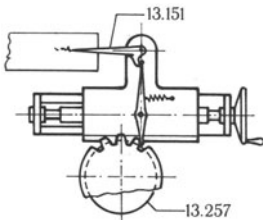
13.253 e tooth-to-tooth composite error double flank (f_{ir}'')
 d Zweiflankenwälzsprung m (f_{ir}'')
 f erreur f d'entr'axe en seule dent (f_{ir}'')
 nl assenafstandvariatie f per tand (f_{ir}'')
 r колебание n измерительного межосевого

расстояния на одном зубе (f_{fr})
(→ 13.251)

- 13.254 e analytical gear checking
d Einzelfehlerprüfung f
f vérification f individuelle d'engrenage
nl analyserende tandwielbeproeving f
r дифференцированный контроль m зубчатого колеса
(→ 13.256, 13.259)

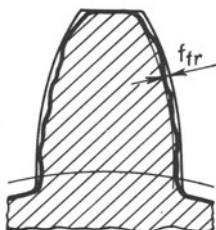
- 13.255 e involute check
d Evolventenprüfung f
f vérification f de profil (de dents) en développante
nl controle f(m) van het evolventenprofiel
r контроль m эвольвентного профиля (зуба)
(→ 13.256)

- 13.256 e involute-profile measuring instrument, involute-profile checker
d Evolventenprüfgerät n
f mesureur m de profil (de dents) en développante
nl tandflankencontroloes-tel n
r эвольвентомер m



- 13.257 e master (base) cylinder
d Wälzylinder m
f disque m de référence
nl rollenschijf f(m)
r обкатный диск m
(→ 13.256)

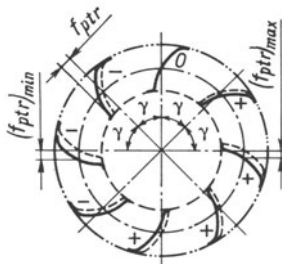
- 13.258 e tooth profile error (f_{fr})
d Flankenformfehler m,



Profil-Formabweichung f (f_{fr})

- f erreur f de profil de dent (f_{fr})
nl tandprofielfout f(m) (f_{fr})
r погрешность f профиля зуба (f_{fr})

- 13.259 e pitch variation (f_{ptr})
d Einzelteilungsfehler m, Teilungs-Einzelabweichung f (f_{ptr})
f erreur f de pas (f_{ptr})
nl steekfout f(m) (f_{ptr})
r отклонение n шага (f_{ptr})



$$F_{pr} = (f_{ptr})_{max} - (f_{ptr})_{min}$$

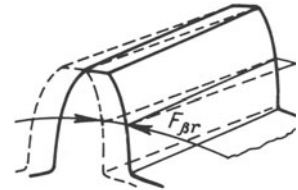
- 13.260 e cumulative [accumulated] pitch variation, index variation (F_{pr})
d Summenteilungsfehler m, Teilungs-Gesamtabweichung f (F_{pr})
f erreur f de pas accumulée (F_{pr})
nl cumulatieve steekfout f(m) (F_{pr})
r накопленная погрешность f шага по зубчатому колесу (F_{pr})
(→ 13.259)

- 13.261 e bearing [tooth-contact] pattern
d Tragbild n
f plage f de contact (de dents)

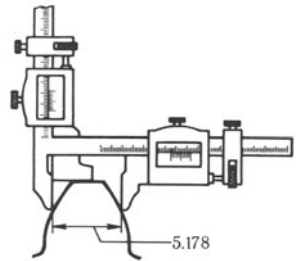


nl tandcontactafduk m
r пятно n контакта (зубьев)

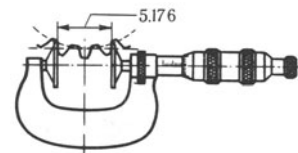
- 13.262 e total error of distortion ($F_{\beta r}$)
d Flankenrichtungsfehler m ($F_{\beta r}$)
f erreur f de direction de dent ($F_{\beta r}$)
nl flankrichtingsfout f(m)
r погрешность f направления зуба ($F_{\beta r}$)



- 13.263 e vernier (gear-)tooth caliper
d Zahnmess-Schieber m
f calibre m à coulisse pour dents d'engrenages, pied m à module
nl tandschuifmaat f(m)
r штангензубомер m



- 13.264 e micrometer for span measurement
d Zahnweitenmessgerät n
f mesureur m de corde d'engrenage
nl micrometer m voor tandbreedten
r нормалемер m



14. MISCELLANEOUS MA-
CHINES
DIVERSE MASCHINEN
MACHINES DIFFÉREN-
TES
VERSCHILLENDE MA-
CHINES
РАЗНЫЕ МАШИНЫ

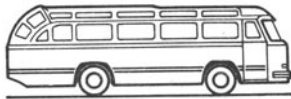
Transport Machines
Transportmaschinen
Machines de transport
Voertuige

Транспортные машины

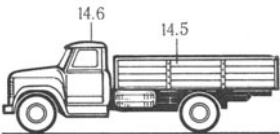
- 14.1 e motor vehicle
d Kraftfahrzeug n, Kraft-
wagen m
f auto(mobile) f
nl motorvoertuig n, auto m
r автомобиль m
(→ 14.2 – 14.4, 14.7,
14.8)
- 14.2 e (passenger) car
d Personenkraftwagen m
f voiture f particulière
nl personenwagen m
r легковой автомобиль m



- 14.3 e bus
d Omnibus m, Bus
f autobus m
nl autobus m, f
r автобус m



- 14.4 e lorry, truck
d Lastkraftwagen m
f camion m

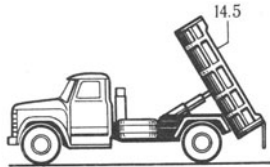


- nl vrachtauto m
r грузовой автомобиль m,
грузовик m

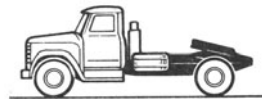
- 14.5 e body
d Aufbau m
f carrosserie f
nl laadbak m
koetswerk n
r кузов m
(→ 14.4, 14.7)

- 14.6 e driver's cabin
d Fahrerhaus n
f cabine f
nl cabine f
r кабина f (водителя)
(→ 14.4)

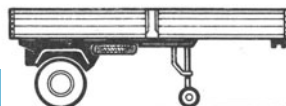
- 14.7 e dump (body) truck
d Dumper m, Kipper m, Kipp-
auto n
f camion-benne m
nl kipper m
r самосвал m



- 14.8 e truck trailer
d Zugmaschine f
f remorqueur m
nl trekker m
r тягач m

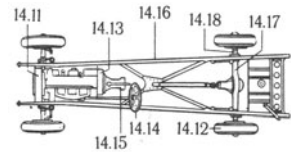


- 14.9 e trailer
d Anhänger m



- f remorque f
nl aanhanger m
r прицеп m

- 14.10 e chassis
d Fahrgestell n, Chassis n
f châssis m
nl chassis n
r шасси n



- 14.11 e radiator
d Kühler m
f radiateur m
nl radiateur m
r радиатор m
(→ 14.10)

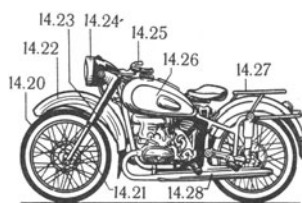
- 14.12 e wheel
d Rad n
f roue f
nl wiel n
r колесо n
(→ 14.10)

- 14.13 e clutch housing
d Kupplungsgehäuse n
f carter m d'embrayage
nl koppelingshuis n
r картер m сцепления
(→ 14.10)

- 14.14 e steering gear
d Lenkgetriebe n
f mécanisme m de direction
nl stuurinrichting f
r рулевое управление n
(→ 14.10)

- 14.15 e gearbox casing
d Getriebegehäuse n
f carter m de boîte de vitesses
nl versnellingsbak m
r картер m коробки передач
(→ 14.10)

- 14.16 e frame
d Rahmen m
f cadre m
nl chassisraam n
r рама f
(→ 14.10)
- 14.17 e rear axle
d Hinterachsbrücke f
f pont m arrière
nl achterbrug f(m)
r задний мост m
(→ 14.10)
- 14.18 e rear axle shaft
d Hinterachswelle f
f arbre m de roue
nl achteras f(m)
r полуось f
(→ 14.10)
- 14.19 e motorcycle
d Motorrad n
f motocycle m
nl motorrij wiel n, motorfiets m, f
r мотоцикл m



- 14.20 e tyre
d Reifen m
f pneu(matique) m
nl (lucht)band m
r шина f
(→ 14.19)
- 14.21 e spoke
d Speiche f
f rayon m
nl spaak f
r спица f
(→ 14.19)
- 14.22 e front fender, mudguard
d Kotflügel m
f aile f avant
nl spatbord n
r переднее крыло n
(→ 14.19)
- 14.23 e front fork
d Vorderradgabel f
f fourche f avant
nl voorvork f(m)
r передняя вилка f
(→ 14.19)

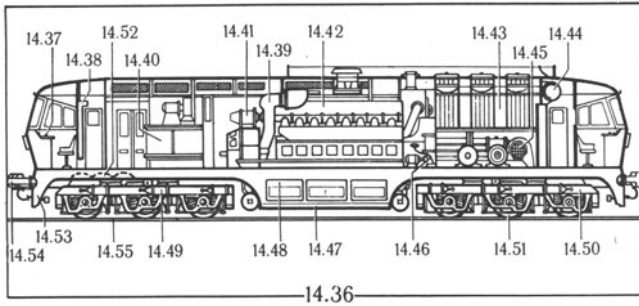
- 14.24 e head lamp
d Scheinwerfer m
f phare m
nl koplamp f(m)
r фара f
(→ 14.19)
- 14.25 e handlebars
d Lenker m
f volant m
nl stuur n
r руль m
(→ 14.19)
- 14.26 e gasoline [petrol] tank
d Kraftstoffbehälter m
f réservoir m à essence
nl benzinetank m
r бензобак m
(→ 14.19)
- 14.27 e (luggage) carrier
d Gepäckbrücke f
f coffre m (à bagages)
nl bagagedrager m
r багажник m
(→ 14.19)
- 14.28 e muffler
d Auspuffgeräuschdämpfer m,
Schalldämpfer
f silencieux m
nl knaldemper m
r глушитель m
(→ 14.19)
- 14.29 e tractor
d Schlepper m
f tracteur m
nl tractor m, trekker m
r трактор m
(→ 14.30, 14.31)
- 14.30 e wheel-type tractor
d Radschlepper m
f tracteur m à roues
nl wieltrekker m
r колёсный трактор m



- 14.31 e crawler tractor
d Raupenschlepper m, Gleiskettenschlepper
f tracteur m à chenilles



- 14.32 e track (chain)
d Raupe f, Gleiskette f
f chenille f
nl rupsband m
r гусеница f
(→ 14.31)
- 14.33 e support roller
d Stützrolle f
f galet m de support
nl steunrol f(m)
r поддерживающий каток m
(→ 14.31)
- 14.34 e track wheel
d Laufrolle f
f galet m porteur
nl loorwiel'n
r опорный каток m
(→ 14.31)
- 14.35 e locomotive
d Lokomotive f
f locomotive f
nl locomotief f(m)
r локомотив m
(→ 14.36, 14.56)
- 14.36 e diesel locomotive
d Diesellokomotive f
f locomotive f diesel
nl diesellocomotief f(m)
r тепловоз m
- 14.37 e control desk
d Schaltpult n, Steuerpult
f pupitre m de commande
nl bedieningspaneel n
r пульт m управления
(→ 14.36)
- 14.38 e sand bunker [box]
d Sandkasten m
f silo m à sable
nl zandkist f(m)
r песочный бункер m
(→ 14.36)



14.39 e motor fan
d Lüftersatz m
f moteur-ventilateur m
nl motor-ventilator m
r мотор-вентилятор м, вентиляторный агрегат м
(→ 14.36)

14.40 e power rectifier unit
d Gleichrichtersatz m
f installation f de puissance de redresseurs
nl vermogensgelijkrichterinstallatie f
r силовая выпрямительная установка f
(→ 14.36)

14.41 e starter-generator
d Anlassgenerator m
f dynamo-démarrreur f, dynamoteur m
nl startgenerator m
r стартер-генератор м
(→ 14.36)

14.42 e engine compartment
d Motorraum m
f salle f de diesel
nl motorruimte f
r дизельное помещение n
(→ 14.36)

14.43 e water cooling section
d Wasserkühlsektion f
f compartiment m de refroidissement d'eau
nl waterkoelruimte f
r секция f охлаждения воды
(→ 14.36)

14.44 e water tank
d Wasserbehälter m
f bac m d'eau
nl watertank m
r водяной бак м
(→ 14.36)

14.45 e refrigerator compartment
d Kühlraum m
f chambre f froide
nl koelruimte f
r холодильная камера f
(→ 14.36)

14.46 e fuel-feed unit
d Kraftstoffspeisepumpe f
f pompe f à carburant
nl brandstofpomp f(m)
r топливоподкачивающий агрегат м
(→ 14.36)

14.47 e fuel tank
d Kraftstoffbehälter m
f réservoir m à carburant
nl brandstoftank n
r топливный бак м
(→ 14.36)

14.48 e accumulator battery
d Akkumulatorenbatterie f
f batterie f d'accumulateurs
nl accubatterij f
r аккумуляторная батарея f
(→ 14.36)

14.49 e brake cylinder
d Bremszylinder m
f cylindre m de frein
nl remcilinder m, f
r тормозной цилиндр м
(→ 14.36)

14.50 e bogie
d Drehgestell n
f chariot m de roues
nl draaistel n
r колёсная тележка f
(→ 14.36)

14.51 e wheel pair
d Radsatz m
f paire f de roues
nl wielstel n

r колёсная пара f
(→ 14.36)

14.52 e traction electric motor
d Fahrmotor m
f électromoteur m de traction
nl (elektrische) tractiemotor m

r тяговый электродвигатель м
(→ 14.36)

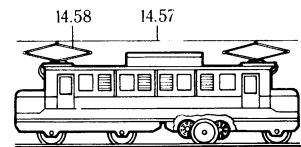
14.53 e track cleaner
d Schienenräumer m
f chasse-sable m
nl baanruimer m

r путеочиститель м
(→ 14.36)

14.54 e automatic coupling
d automatische Kupplung f
f attelage m automatique
nl automatische koppeling f
r автосцепка f
(→ 14.36)

14.55 e rail
d Schiene f
f rail m
nl rail f(m), spoorstaaf f
r рельс м
(→ 14.36)

14.56 e electric locomotive
d Elektrolokomotive f
f locomotive f électrique
nl elektrische locomotief) f(m)
r электровоз м

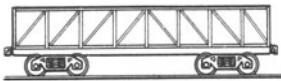


14.57 e overhead contact wire, aerial line
d Fahrleitung f
f fil m de trolley
nl stroomdraad m
r контактный провод м
(→ 14.56)

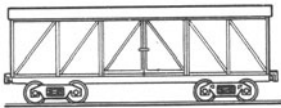
14.58 e current collector, pantograph
d Stromabnehmer m, Scheinstromabnehmer
f prise f de courant, pantographe m
nl stroomafnemer m, pantograaf m
r токосъёмник м, пантограф м
(→ 14.56)

- 14.59 e freight car
d Güterwagen m
f wagon m de marchandises
nl goederenwagon m
r грузовой [товарный] вагон m
(→ 14.60 – 14.62)

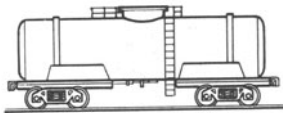
- 14.60 e gondola, open car
d offener Güterwagen m
f wagon m découvert
nl open goederenwagon m
r полувагон m



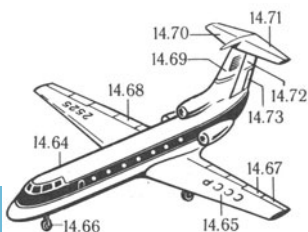
- 14.61 e box freight car
d gedeckter Güterwagen m
f wagon m couvert
nl gesloten goederenwagon m
r крытый грузовой вагон m



- 14.62 e tank car
d Kesselwagen m, Tankwagen
f wagon-citerne m, wagon-réservoir m
nl tankwagon m
r вагон-цистерна f



- 14.63 e aircraft
d Flugzeug n
f avion m
nl vliegtuig n
r самолёт m



- 14.64 e fuselage
d Rumpf m
f fuselage m
nl romp m
r фюзеляж m
(→ 14.63)

- 14.65 e wing
d Flügel m
f aile f
nl vleugel m
r крыло n
(→ 14.63)

- 14.66 e undercarriage
d Bugfahrwerk n
f train m (d'atterissage)
nl landings(ge)stel n, neuswiel n
r шасси n
(→ 14.63)

- 14.67 e aileron
d Querruder n
f aileron m
nl rolroer n
r элерон m
(→ 14.63)

- 14.68 e flap
d Klappe f
f volet m
nl klep f(m)
r закрылок m
(→ 14.63)

- 14.69 e fin
d Seitenflosse f
f dérive f
nl kielvlak n, kielvin f(m)
r киль m
(→ 14.63)

- 14.70 e tailplane
d Höhenflosse f
f stabilisateur m
nl stabilisatievlak n
r стабилизатор m
(→ 14.63)

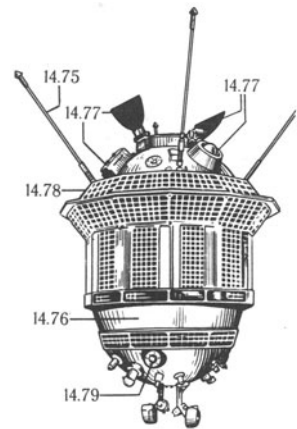
- 14.71 e elevator
d Höhenruder n
f gouvernail m de profondeur
nl hoogteroer n
r руль m высоты
(→ 14.63)

- 14.72 e rudder
d Seitenruder n
f gouvernail m de direction
nl richtingsroer n
r руль m направления
(→ 14.63)

- 14.73 e trimming tab
d Trimmflügel m, Trimmeruder n

- f tab m (de compensation), trim m
nl trimvlak n
r триммер m
(→ 14.63)

- 14.74 e interplanetary station
d Raumstation f, interplanetare Station
f station f interplanétaire
nl ruimtestation n
r межпланетная станция f



- 14.75 e antenna
d Antenne f
f antenne f
nl antenne f(m)
r антенна f
(→ 14.74)

- 14.76 e thermal screen
d Thermoschild m
f écran m thermique
nl hitteschild n
r тепловой экран m
(→ 14.74)

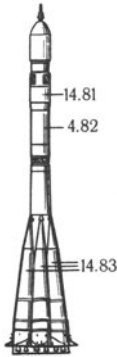
- 14.77 e scientific instruments
d wissenschaftliche Apparatur f
f instruments m pl scientifiques
nl wetenschappelijke apparatuur f
r научная аппаратура f
(→ 14.74)

- 14.78 e solar battery
d Sonnenbatterie f
f pile f [accumulateur m] solaire
nl zonnecelbatterij f
r солнечная батарея f
(→ 14.74)

14.79

- 14.79 e orientation engine
 d Orientationsmotor m
 f moteur m d'orientation
 nl oriëntatiemotor m
 r двигатель м ориентации
 (→ 14.74)

- 14.80 e launch rocket
 d Startrakete f
 f fusée f porteuse
 nl draagraket f(m)
 r ракета-носитель f



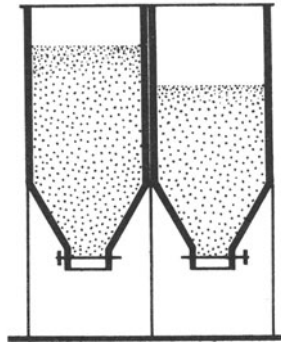
- 14.81 e final rocket stage
 d obere Raketstufe f
 f étage m final de fusée
 nl (raket)eindtrap m
 r последняя ступень f ра-
 кеты
 (→ 14.80)

- 14.82 e second rocket stage
 d zweite Raketstufe f
 f deuxième étage m de fusée
 nl tweede rakettrap m
 r вторая ступень f ракеты
 (→ 14.80)

- 14.83 e booster
 d Startbeschleuniger m
 f accélérateur m
 nl aanjager m, booster m
 r ускоритель m
 (→ 14.80)

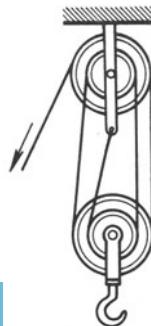
Material Handling Machinery
Hebe- und Transportgeräte
Matériel de manutention et de
transport
Hijis- en transportinrichtingen
Подъёмно-транспортное
оборудование

- 14.84 e hopper-type bin
 d Bunker m
 f trémie f
 nl laadtrechter m, silo m
 r бункер m

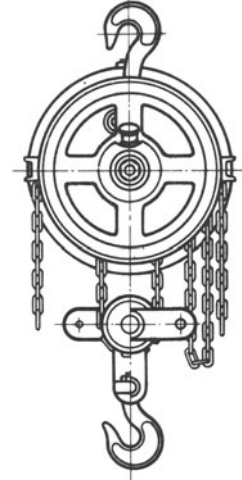


- 14.85 e hoist
 d Lastzug m, Hebezeug n
 f ascenseur m, monte-charge m
 nl hijswerktuig n
 r подъёмник m
 (→ 14.86 – 14.89)

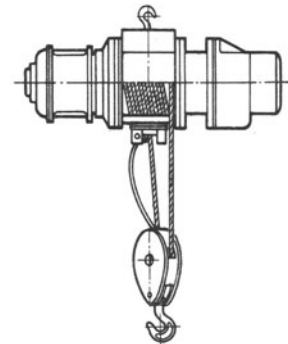
- 14.86 e block and tackle
 d Flasenzug m, Rollenzug
 f palan m
 nl takel m, n, blok n
 r полиспаст m



- 14.87 e pulley block hoist
 d Kettenflasenzug m
 f moufle f, palan m
 nl takel m, n
 r таль f

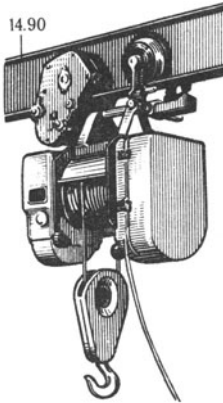


- 14.88 e overhead electric hoist
 d Elektrozug m
 f palan m électrique
 nl elektrische takel m, n
 r электроталь f



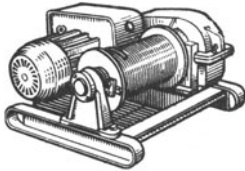
- 14.89 e monorail motor hoist
 d Einschieneaufkatze f
 f palan m (électrique) à mo-
 norail

nl loopkat f(m)
r (электро) тельфер m

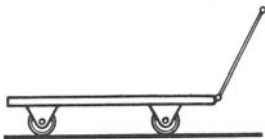


14.90 e monorail
d Einschiengleis n
f monorail m
nl (mono)rail f(m)
r монорельс m
(→ 14.89)

14.91 e winch
d Winde f
f treuil m
nl lier f(m)
r лебёдка f

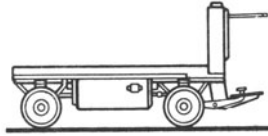


14.92 e truck
d Wagen m
f charrette f
nl (transport)wagen m, magazijnwagen
r транспортная тележка f



14.93 e battery-driven truck
d Elektrostandwagen m, Elektrokarre f
f chariot m électrique

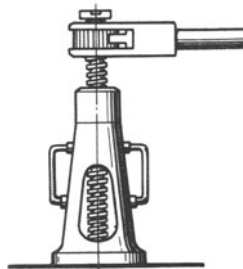
nl elektrotruck m
r электрокар m



14.94 e power lift truck
d Gabelstapler m, Hubstapler
f autochargeur m
nl heftruck m, pallettruck
r автопогрузчик m



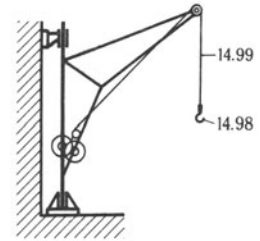
14.95 e jack
d Heber m, Hebebock m
f cric m
nl krik m
r домкрат m



14.96 e crane
d Kran m
f grue f, bigue f
nl (hij)s kraan f(m)
r подъёмный кран m
(→ 14.97, 14.100 – 14.102)

14.97 e wall-jib crane
d Schwenkkran m
f grue f murale

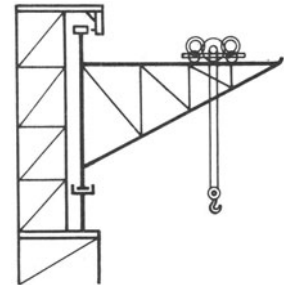
nl wanddraaikraan f(m)
r поворотный настенный кран m



14.98 e hook
d Haken m
f crochet m
nl haak m
r крюк m
(→ 14.97)

14.99 e rope
d Seil n
f câble m
nl kabel m, reep m
r канат m
(→ 14.97)

14.100 e bracket crane
d Konsolkraan m
f grue f à console
nl consolekraan f(m)
r консольный кран m



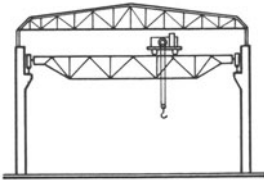
14.101 e motorized crane
d Fahrzeugkran m
f camion-grue m



14.101

nl kraanwagen m
r автокран m

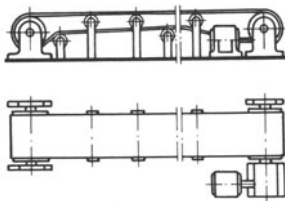
14.102 e gantry crane
d Brückenkran m
f pont m roulant
nl bokkraan f(m)
r мостовой кран m



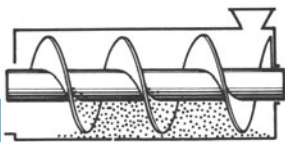
14.103 e conveyor, conveyer
d Stetigförderer m
f convoyeur m, transporteur m

nl transporteur m, transportbaan f
r транспортёр m, конвейер m
(→ 14.104 – 14.108)

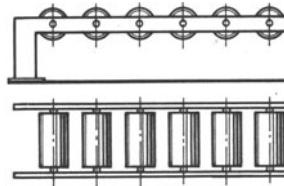
14.104 e belt conveyer
d Gurt(band)förderer m
f transporteur m à bande
nl transportband n, m
r ленточный транспортёр m



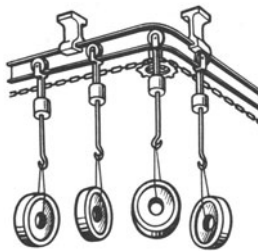
14.105 e screw conveyer
d Schneckenförderer m
f transporteur m à vis
nl schroeftransporteur m
r шнековый транспортёр m



14.106 e roller conveyer
d Rollbahn f, Rollgang m
f transporteur m à rouleaux
nl rollenbaan f
r рольганг m



14.107 e overhead conveyer
d Hängebahn f
f transporteur m aérien
nl hangbaantransporteur m
r подвесной транспортёр m



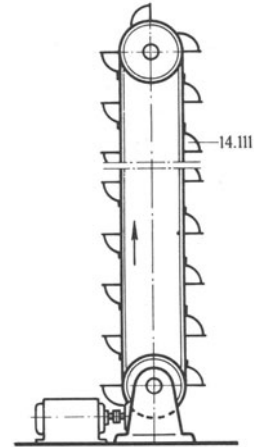
14.108 e truck conveyer
d Wagenförderer m
f transporteur m à chariots
nl wagentransporteur m
r тележечный конвейер m



14.109 e elevator
d Elevator m, Aufzug m
f élévateur m
nl elevator m, jacobsladder m
r элеватор m
(→ 14.110)

14.110 e bucket elevator
d Becherwerk n
f élévateur m à godets

nl emmerelevator m
r ковшовый элеватор m



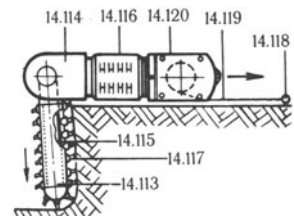
14.111 e bucket
d Becher m
f godet m
nl emmer m
r ковш m
(→ 14.110)

Mining and Petroleum Machinery

Berg- und Erdölmaschinen
Équipement minier et pétrolier

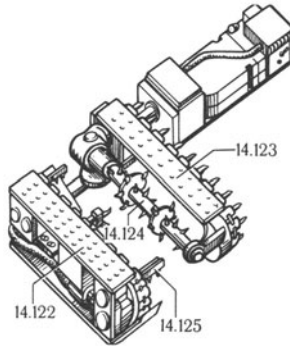
Delfstofwinningsmachines
Горное и нефтепромысловое оборудование

14.112 e coal-cutter
d Kettenschrämmaschine f
f haveuse f, engin m dc havage
nl schaaft(machine) f
r врубовая машина



- 14.113 e jib
d Schrärmarm m
f bras m de havage
nl schaafarm m
r бар м
(→ 14.112)
- 14.114 e gearhead
d Schrämkopf m
f réducteur m
nl reductiekast f(m)
r редуктор м
(→ 14.112)
- 14.115 e cutting chain
d Schrämkette f
f chaîne f de havage
nl schaaftetting m, f
r режущая цепь f
(→ 14.112)
- 14.116 e power unit
d Antriebseinheit f
f bloc m d'entraînement
nl aandrijfeenheid f
r приводной узел м
(→ 14.112)
- 14.117 e (cutter) pick
d Schrämmeißel m,
Schrämpicke f
f pic m (de havage)
nl schaaftand m
r зубок м
(→ 14.112)
- 14.118 e anchor prop
d Strebstempel m
f étauçon m (de boisage)
nl verankering f
r стойка f (забойной
крепи)
(→ 14.112)
- 14.119 e haulage rope
d Förderseil n
f câble m tracteur
nl trekkabel m
r тяговый канат м
(→ 14.112)
- 14.120 e haulage unit
d Vorschubwinde f
f dispositif m d'avance
nl toevoerwerk n
r механизм м подачи
(→ 14.112)

- 14.121 e combined cutter-loader,
coal getter-loader
d Kohlen-Schräm- und
Lademaschine f
f abatouse-chargeuse f
d'houille
nl dwarslader m
r угольный комбайн м



- 14.122 e loader
d Lader m
f engin m de chargement
nl laadinrichting f
r погрузчик м
(→ 14.121)

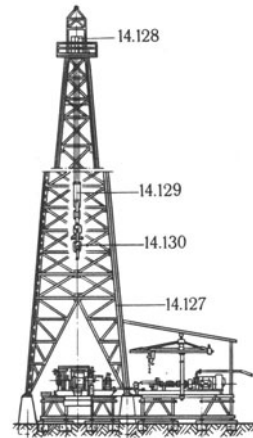
- 14.123 e face conveyer
d Abbauförderer m
f convoyeur m de taille
nl pijlertransporteur m
r забойный конвейер м
(→ 14.121)

- 14.124 e cutting shaft
d Abbaustange f
f barre f d'abattage
nl winningsstang f
r отбойная штанга f
(→ 14.121)

- 14.125 e scraper
d Querlader m
f scraper m
nl schraarpijzer n
r скребок м
(→ 14.121)

- 14.126 e drilling rig
d Bohranlage f
f installation f de forage

- nl boorinstallatie f
r буровая установка f



- 14.127 e derrick
d Bohrturm m
f derrick m
nl boortoren m
r вышка f
(→ 14.126)

- 14.128 e crown block
d Turmrolle f
f moufle f fixe
nl kroonblok n
r кронблок м
(→ 14.126)

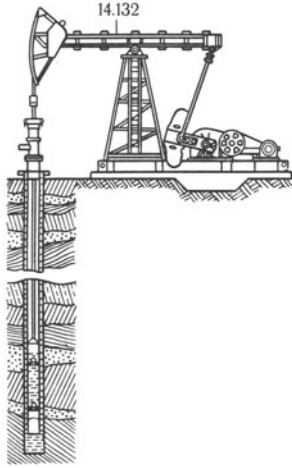
- 14.129 e tackle block
d Flaschenzug m
f moufle f mobile
nl takefblok n
r талевый блок м
(→ 14.126)

- 14.130 e swivel
d Drehkopf m
f émerillon m
nl spoelkop m
r вертлюг м
(→ 14.126)

- 14.131 e pumping jack
d Pumpenbock m, Pum-
penwinde f
f pompe f à balancier

14.131

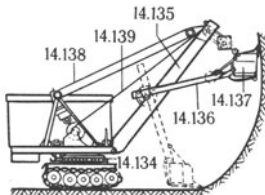
nl jaknikker m
r станок-качалка m



14.132 e beam
d Pumpenschwengel m
f levier m de battage
nl romphefboom m
r балансир m
(→ 14.131)

Building Machinery
Baumaschinen
Matériel de chantier
Bouwmachines
Строительное оборудование

14.133 e (power) excavator
d Universalbagger m,
Bagger
f excavateur m
nl graafmachine f
r экскаватор m



f plate-forme f pivotante
nl draaiplatform n
r поворотная платфор-
ма f
(→ 14.133)

14.135 e (shovel) boom
d Ausleger m
f flèche f (de pelle)
nl kraanarm m
r стрела f
(→ 14.133)

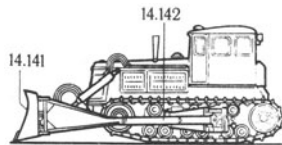
14.136 e bucket arm, dipper stick
d Löffelstiel m
f bras m (de pelle)
nl lepelsteel m
r рукоять f
(→ 14.133)

14.137 e digging bucket, dipper
d Löffel m
f benne f excavatrice,
godet m
nl sleepemmer m
r ковш m
(→ 14.133)

14.138 e boom hoist rope
d Auslegerhalteseil n
f câble m de flèche
nl giek kabel m
r стреловой канат f
(→ 14.133)

14.139 e bucket rope
d Hub- und Vorstoss-Seil n
f câble m de benne
nl emmerkabel m
r ковшовый канат m
(→ 14.133)

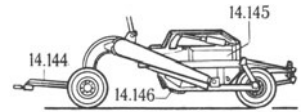
14.140 e dozer, bulldozer
d Planierraupe f
f bulldozer m
nl bulldozer m
r бульдозер m



f lame f (de bulldozer)
nl duwblad n, ploegschaar
f(m)
r отвал m
(→ 14.140)

14.142 e push rod beam
d Stoss-Stange f
f barre f de traction
nl duwbalk m
r брус m толкателя,
толкающий брус n
(→ 14.140)

14.143 e scraper
d Schürf(kübel)gerät n
f scraper m
nl grondschraper m
r скрепер m

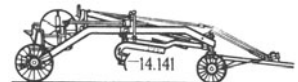


14.144 e tow bar
d Deichsel f
f timon m
nl dissel m, trekstang f
r дышло n
(→ 14.143)

14.145 e scraper bowl
d Kübel m
f caisse f (de scraper),
benne f racluse
nl schraperbak m
r ковш m (скрепера)
(→ 14.143)

14.146 e cutting blade
d Kübelschneide f
f lame f (de scraper)
nl (schraper)mes n
r днище n
(→ 14.143)

14.147 e (motor) grader
d Grader m
f grader m
nl grondschaaf f(m), motor-
grader m
r грейдер m



14.134 e revolving platform
d Oberwagen m

14.141 e plough share
d Planierschild m

Farming Machinery

Landmaschinen

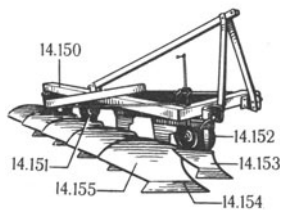
Machines agricoles

Landbouwmachines

Сельскохозяйственные машины

- 14.148 e plough
d Pflug m
f charrue f
nl ploeg m, f
r плуг m
(→ 14.149, 14.156)

- 14.149 e mounted plough
d Anbaupflug m
f charrue f portée
nl aanbouwploeg m, f
r навесной плуг m



- 14.150 e frame, beam
d Rahmen m
f bâti m (de charrue)
nl ploegraam n
r рама f
(→ 14.149)

- 14.151 e disk coulter
d Scheibensech n
f couteau m circulaire
nl schijfkouter m
r дисковый нож m
(→ 14.149)

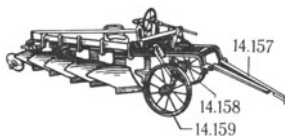
- 14.152 e supporting wheel
d Stützrad n
f roue f de support
nl steunwiel n
r опорное колесо n
(→ 14.149)

- 14.153 e skim
d Vorschäler m
f avant-corps m, pelloir m
nl voorschaar f(m)
r предплужник m
(→ 14.149)

- 14.154 e ploughshare
d Schar n
f soc m
nl ploegschaar f
r лемех m
(→ 14.149)

- 14.155 e mouldboard, breast
d Streichblech n
f versoir m (de charrue)
nl strijkbord n, molbord
r отвал m
(→ 14.149)

- 14.156 e trailing plough
d Anhängerflug m
f charrue f traînée
nl aanhangploeg m, f
r прицепной плуг m



- 14.157 e hitch
d Schleppergrindel m
f accrochage m
nl koppelingsstang f
r прицеп m, сница f
(→ 14.156)

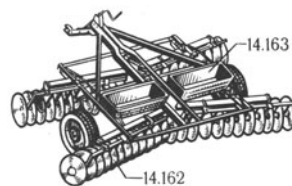
- 14.158 e land wheel
d Landrad n
f roue f de charrue
nl landwiel n
r полевое колесо n
(→ 14.156)

- 14.159 e furrow wheel
d Furchenrad n
f roue f de raie [de sillon]
nl vorenwiel n
r бороздное колесо n
(→ 14.156)

- 14.160 e harrow
d Egge f
f herse f, pulvériseur m
nl eg(ge) f(m)
r борона f
(→ 14.161, 14.164)

- 14.161 e trailed disk harrow
d Anhängescheibenegge f

- f pulvériseur m à disques [traîné(e)]
nl aanhangschijveneg(ge) f(m)
r прицепная дисковая борона f



- 14.162 e disk section gang
d Scheibensatz m
f batterie f de disques
nl schijvenstel n
r батарея f дисков
(→ 14.161)

- 14.163 e ballast box
d Ballastkasten m
f caisson m de lestage (de semoir)
nl ballastkist f(m)
r балластный ящик m
(→ 14.161)

- 14.164 e spike tooth harrow
d Ackeregge f, Zinkenegge
f herse f traïnante
nl tandeneg f(m)
r зубовая борона f

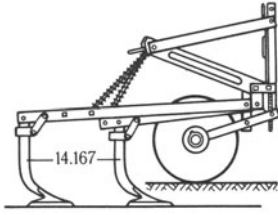


- 14.165 e evener bar
d Brackholz n, Zugscheit n
f levier m de manoeuvre
nl balansbalk m
r vara f
(→ 14.164)

- 14.166 e cultivator
d Grubber m, Kultivator m
f cultivateur m

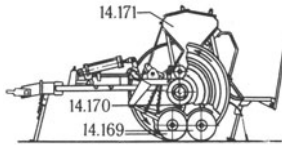
14.166

nl cultivator m
r культиватор m



14.167 e sweep
d Grubberzinke f
f dent f (de cultivateur)
nl ganzevoet m
r лапа f
(→ 14.166)

14.168 e seeder, drill
d Sämaschine f
f semoir m, semeuse f
nl saaimachine f
r сеялка f



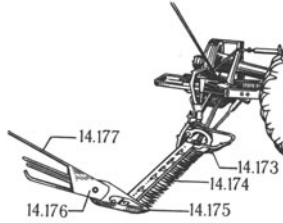
14.169 e coulter
d Drillschar n
f coudre m (de semoir)
nl zaaihouder m
r сошник m
(→ 14.168)

14.170 e seed tube
d Saatleitungsrohr n
f tube m de descente
nl zaad(toevoer)pijp f(m)
r семяпровод m
(→ 14.168)

14.171 e grain-and-fertilizer box
d Saatkasten m, Säkasten
f caisse f à grains et d'engrais minéraux
nl zaadbak m
r зернотуковый ящик m
(→ 14.168)

14.172 e mowing machine
d Mähmaschine f

f faucheuse f
nl maaimachine f
r косилка f



14.173 e inner shoe
d Innenschuh m
f sabot m intérieur
nl binnenschoen m
r внутренний башмак m
(→ 14.172)

14.174 e cutter bar
d Messerbalken m
f lame f (de faucheuse)
nl maaibalk m
r режущий аппарат m
(→ 14.172)

14.175 e outer shoe
d Aussenschuh m
f sabot m extérieur
nl buitenschoen m
r наружный башмак m
(→ 14.172)

14.176 e swath board
d Schwad(en)brett n, Spurbrett
f planche f à andains (de faucheuse)
nl zwad(e)bord n
r полевая доска f
(→ 14.172)

14.177 e swath stick
d Abweisstab m
f barre f d'évacuation de tiges
nl zwaadlegger m
r пруток-стеблеотвод m
(→ 14.172)

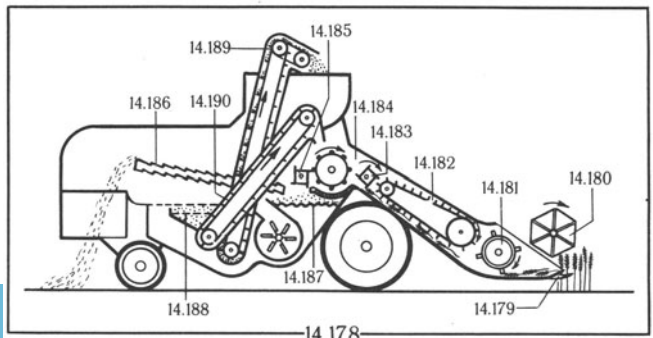
14.178 e combine harvester
d Mährescher m
f moissonneuse-batteuse f, kombaine m
nl maaidorser m
r зерноуборочный комбайн m

14.179 e cutting bar
d Mähwerk n
f barre f de coupe
nl maaibalk m
r режущий аппарат m
(→ 14.178)

14.180 e reel
d Haspel f
f (volant-)rabatteur m
nl haspel m
r мотовило n
(→ 14.178)

14.181 e auger
d Einzugtrommel f
f tambour m d'admission
nl voortrommel f(m)
r барабан m
(→ 14.178)

14.182 e feed elevator
d Zuführungselevator m
f élévateur m incliné
nl opvoerelevator m,
toevoertransporteur m



- г наклонный транспор-
тёр m
(→ 14.178)
- 14.183 e front beater
d Einlegehaspel f
f tambour m [bateur m]
d'introduction
nl doorvoerhaspel m
r приёмный бигер m
(→ 14.178)
- 14.184 e threshing drum
d Dreschtrommel f
f tambour m de batteuse
nl dorstrommel f(m)
r молотильный аппарат m
(→ 14.178)
- 14.185 e rear beater
d Strohleitungshaspel f,
Umlenkhaspel
- f tambour m [bateur m]
de dégagement
- nl strohaspel m
r отбойный бигер m
(→ 14.178)
- 14.186 e straw walker
d Schüttler m
f secoueur m de paille
nl schudder m
r соломотряс m
(→ 14.178)
- 14.187 e grain pan
d Schwingablaufbrett n,
Körnerzulaufboden m
f planche f à secousses
nl korenschudbord n
r стрясная доска f
(→ 14.178)
- 14.188 e sieve
d Sieb n
f tamis m (à grains)
nl zeef f(m)
r решето n
(→ 14.178)
- 14.189 e grain elevator
d Körnerelevator m
f élévateur m à grains
nl graanelevator m
r зерновой элеватор m
(→ 14.178)
- 14.190 e tailings elevator
d Ährenförderer m
f élévateur m d'épis
nl arenelevator m
r колосовой элеватор m
(→ 14.178)

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