

## TIMING PULLEYS

## POULIES DENTÉES

## ZAHN- SCHEIBEN

## POLEAS DENTADAS

### GENERALITY

This catalogue is a synthesis of the whole SIT range of timing pulleys.

### GÉNÉRALITÉ

Ce catalogue est une synthèse de l'entière gamme SIT des poulies dentées.

### ALLGEMEINES

In diesem Katalog ist die ganze Reihe der SIT Zahnscheiben beschrieben.

### GENERALIDAD

Este catálogo es una síntesis de la gama completa de las poleas dentadas SIT.



### Timing pulleys pitches Les pas des poulies dentées Zahnscheiben teilungen Paso de las poleas dentadas

| type<br>type<br>Typ<br>tipos    |              | MXL                      | XL                      | L                       | H                        | XH                       | XXH                        | Super Torque:<br>S 4,5 M |     |     |      | S 8 M S 14 M |     |   |    | T2,5 | T5   | T10 | T20 |
|---------------------------------|--------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|----------------------------|--------------------------|-----|-----|------|--------------|-----|---|----|------|------|-----|-----|
|                                 |              |                          |                         |                         |                          |                          |                            | TOP DRIVE® HTD:          |     |     |      |              |     |   |    |      |      |     |     |
|                                 |              |                          |                         |                         |                          |                          |                            | 3 M                      | 5 M | 8 M | 14 M |              |     |   |    | AT5  | AT10 |     |     |
| pitch<br>pas<br>Teilung<br>paso | mm<br>inches | 2,032<br>0,080<br>(2/25) | 5,080<br>0,200<br>(1/5) | 9,525<br>0,375<br>(3/8) | 12,700<br>0,500<br>(1/2) | 22,225<br>0,875<br>(7/8) | 31,750<br>1,250<br>(1 1/2) | 3                        | 4,5 | 5   | 8    | 14           | 2,5 | 5 | 10 | 20   |      |     |     |
|                                 |              |                          |                         |                         |                          |                          |                            | -                        | -   | -   | -    | -            | -   | - | -  | -    | -    | -   | -   |

### Pulley identification

SIT Timing pulleys are indicated by a conventional code consisting of 3 groups. The first group shows number of teeth. The second group shows the pitch (stated at the beginning of each table). The third group shows the belt width for which the pulley has to be used:

- for XL, L, H, XH and XXH pulleys the belt width is in hundred of an inch (100 = 1 inch)
- for Super Torque, TOP DRIVE® HTD, T2,5, T5 and T10 pulleys the belt width is in mm.

In case of timing pulley for assembly with SER-SIT® conical bush, the previous conventional code must be preceded by the letter "B".

Example:

| B                                 | 28          | L               | 050        |
|-----------------------------------|-------------|-----------------|------------|
|                                   |             |                 |            |
| pulley<br>for<br>Ser-Sit®<br>bush | n.<br>teeth | pitch<br>(1/2") | belt width |

### Designation des poulies

Les poulies dentées de série sont désignées par un code conventionnel, formé de 3 groupes.

Le premier indique le nombre de dents. Le deuxième indique le pas (en tête de chaque tableau). La troisième groupe indique la largeur de la courroie pour laquelle la poulie doit être utilisée:

- pour les poulies XL, L, H, XH et XXH la largeur de la courroie est indiquée en pouce (100 = 1 pouce);
- pour les poulies Super Torque, TOP DRIVE® HTD T2,5, T5, T10, la largeur de la courroie est indiquée en mm.

En cas de poulies dentées pour montage avec moyen amovible SER SIT®, le code conventionnel précédent doit être précédé par la lettre "B".

Example:

| B  | 28    | L   | 050 |
|--|-------|---|-----|
|  |       |   |     |
| poulie<br>pour moyen<br>amovible<br>Ser-Sit® | dents | pas<br>largeur<br>de la<br>courroie<br>(1/2") |     |

### Kennzeichen

Das konventionelle Kennzeichen für SIT Zahnscheiben soll wie folgt interpretiert werden.

Die erste Zahlengruppe zeigt die Zähneanzahl. Die zweite Buchstaben/Zahlengruppe zeigt die Teilung (am Kopf von jeden Tabelle gezeigt).

Die dritte Zahlengruppe zeigt die Breite des Riemens wofür die scheiben geeignet sind, wie folgt:

- für XL, L, H, XH und XXH Scheiben die Breite ist in Hundstel Zoll gezeigt (100=1 Zoll);
- für Super Torque, TOP DRIVE® HTD, T2,5, T5, T10 Scheiben, die Breite ist in mm gezeigt.

Falls die Scheiben mit SER SIT® Spannbuchsen ansgerüstet sind, das Kennzeichen wird ein "B" am Anfang haben.

Beispiel:

| B                            | 28              | L   | 050 |
|------------------------------|-----------------|---|-----|
|                              |                 |   |     |
| Spann-<br>buchse<br>Ser-Sit® | Zähne<br>anzahl | Teilung<br>riemen-<br>breite<br>(1/2" Zoll) |     |

### Identificación de las poleas

Las poleas dentadas SIT están referenciadas mediante un código convencional formado por tres grupos.

El primer grupo indica el número de dientes. El segundo indica el paso (tal como se precisa en la cabecera de cada tabla). El tercer grupo indica el ancho de la correa para la cual la polea será utilizada:

- para las poleas XL, L, H, XH, XXH el ancho de la correa se indica en centésimas de pulgada (100=1 pulgada);
- para la polea Super Torque, TOP DRIVE® HTD, T2,5, T5 T10 el ancho de la correa se indica en milímetros. En caso de poleas dentadas con buje conico SER SIT®, el código convencional anteriormente descrito debe ser precedido con la letra "B".

Ejemplo:

| B                                       | 28                      | L    | 050                             |
|---|-------------------------|------|---------------------------------|
|   |                         |      |                                 |
| Polea para<br>bujes cónicos<br>Ser-Sit® | número<br>de<br>dientes | paso | ancho de<br>la correa<br>(1/2") |

## PULLEY TOLERANCE DATA

Positive drive pulleys are manufactured according to:

**DIN ISO 5294**  
**DIN 7721**

## TOLERANCES DE FABRICATION DES POULIES

Les poulies dentées sont exécutées selon:

**DIN ISO 5294**  
**DIN 7721**

## DATEN ÜBER DIE ZAHNSCHEIBEN- TOLERANZEN

Die Zahnscheiben werden in engen Toleranzbereichen gefertigt nach:

**DIN ISO 5294**  
**DIN 7721**

## TOLERANCIA DE LAS POLEAS

Las poleas dentadas están fabricadas con mínimas tolerancias secundo:

**DIN ISO 5294**  
**DIN 7721**

### Pulley bore tolerances

On request a tolerance ISO 7 is normally suggested, normally pulleys are bored with H7 tolerance, of not otherwise specified.

### Tolérance d'alésage des poulies

La valeur de tolérance conseillée correspond à ISO qualité 7. Lorsqu'il n'y a pas de spécification particulière, les poulies sont fournies avec un alésage tolérance H7.

### Zahnscheiben- Bohrungstoleranzen

Der empfohlene Toleranzgrad ist ISO 7. Die Bohrung wird, wenn nicht ausdrücklich anders angegeben, nach Bohrungs-toleranz H7 ausgeführt.

### Tolerancia del agujero de la polea

El grado de tolerancia es ISO 7. Si no se especifica lo contrario las poleas se suministran con agujero con tolerancia H7

### Eccentricity pulley bore to outside diameter

### Tolérances d'excentration entre l'alésage de la poulie et le diamètre extérieur

### Zulässige Exzentrizität zwischen Bohrung und Durchmesser

### Excentricidad entre el taladro de la polea y el diametro exterior

| Outside diameter in mm<br>Diamètre extérieur in mm<br>Außendurchmesser in mm<br>Diámetro exterior in mm | Total eccentricity in mm (dial indicator reading)<br>Excentration maxi (lue an comparateur) mm<br>Max. Exzentrizität (gemessen mit dem Komparator) in mm<br>Excentricidad total (lectura sobre comparador) |
|---|--|
| up to 254<br>over 254   | 0,1270<br>0,0127 each 25,4 mm diameter   |
| jusq'à 254<br>au-dessus 254   | 0,1270<br>0,0127 par fraction de 25,4 mm   |
| bis 254<br>über 254   | 0,1270<br>0,01270 für je 25,4 mm Durchmesser   |
| hasta 254<br>otras 254  | 0,1270<br>0,01270 por cada 25,4 mm   |

### Lateral oscillation

The pulley bore must be at right angles to the vertical faces of the pulley within 0,0254 mm for each 25,4 mm radius.

### Oscillation latérale ou voilage

L'alésage de la poulie doit être perpendiculaire aux faces latérales dans une tolérance de 0,0254 mm par fraction de 25,4 mm de longueur du rayon.

### Seitenschlag

Die Zahnscheibenbohrung muß rechtwinklig zu den Zahnscheiben-Flanken ausgeführt sein, d.h. 0,0254 mm für je 25,4 mm Radius.

### Oscilación lateral

El taladro de la polea debe ser perpendicular a la cara lateral de la polea. Tolerancia admisible 0,0254 mm por cada 25,4 mm de radio.

## STANDARD PULLEYS

These pulleys have equally spaced grooves machined into the outside diameter, to give correct meshing with the belt teeth.

The pulley grooves are of a special design to give this correct meshing of the belt teeth with minimal friction. All pulleys manufactured have correct minimum meshing tolerance built in. The pitch diameter is always larger than the outside diameter. The pulleys are normally stocked in a wide range of various diameter (no. of teeth) and standard widths.

## TYPES DE SERIE

Ces poulies ont une denture taillée sur le diamètre extérieur, de façon à constituer une liaison parfaite avec les dents de la courroie correspondante.

La denture des poulies est prévue pour un engrènement pratiquement sans friction avec la courroie. Un jeu est prévu entre la denture des poulies et des courroies; d'autre part, le diamètre primitif des poulies est toujours supérieur au diamètre extérieur. Les poulies standard sont tenues en stock dans une importante gamme de diamètre et de largeurs.

## STANDARD-AUSFÜHRUNG

Die Zahnscheiben erweisen ausgleichmäßig gefräzte Zähne und Zahnücken, so daß eine korrekter Sitz zu den dem entsprechenden Riemenzähnen bestimmt wird.

Die Zahnscheiben sind so konstruiert, daß die Riemenzähne mit unbedeutender Reibung in den Zahngrund ein- bzw. auslaufen können. Alle Lager- oder Bestellung gefertigte Zahnscheiben erweisen ein Minimum an Zahnückenspiel zu dem entsprechenden Riemen. Die Zahnscheiben-Teilkreisdurchmesser sind immer größer als die entsprechenden Außendurchmesser. Sie sind in einer großen Skala von vorrätigen Breiten und Durchmessern erhältlich.

## POLEAS STANDARD

Estas poleas tienen los tallados longitudinales axiales igualmente espaciados, recortados en su superficie periférica de modo que tenga un acoplamiento correcto con los dientes de la correa al entrar en la ranura correspondiente lo hangan con un rozamiento insignificante. Todas las poleas de stock, o hechas sobre pedido, tienen un mínimo juego de acoplamiento con la correa correspondiente. El diámetro primitivo de la polea es siempre más grande que su diámetro exterior. Normalmente las poleas están en stock en los diversos diámetros (número de dientes) y anchos.

## Protective treatment

Pulleys are black phosphated.

## Protection traitement

Les poulies sont phosphatées noir.

## Oberflächenbehandlung

Die Scheiben sind schwarz phosphatiert.

## Tratamiento de protección

Las poleas son fosfatadas en negro.

## Balancing

UNI 4218 – ISO 1940 – VDI 2060

The pulleys for taper bushings (PBD – STB – HDB) are statically balanced within G 16 degree. The pulleys with full hub are not balanced, as they do not have a finished bore.

## Equilibrage

UNI 4218 – ISO 1940 – VDI 2060

Dégré d'équilibrage selon G16 pour les poulies par moyeu amovible (PBD – STB – HDB). Les poulies prévues pour des applications standard ne sont pas équilibrées car leur moyeu ne sont pas alésés.

## Auswuchtung

UNI 4218 – ISO 1940 – VDI 2060

Unsere Taper Ausführung Scheiben (PBD – STB – HDB) sind statisch ausgewuchtet. Gütestufe G 16. Die ungebohrten Scheiben werden nicht ausgewuchtet, das diese keine Fertigbohrung haben.

## Equilibrado

UNI 4218 – ISO 1940 – VDI 2060

El grado de calidad del equilibrado estático de las poleas para casquillo cónico (PBD – STB – HDB) es G 16. Las poleas para aplicaciones standard no están equilibradas dado que no tienen el taladro terminado.

## SPECIAL PULLEYS

Special pulleys with profiles **XL, L, H, XH, XXH, HTD, ST, T, AT** and of every pitch can be manufactured on customer drawing.

It is recommended that the pulleys be made of cast iron or steel. It is essential to use steel when the peripheral speed is over 30 m/s.

## TYPES SPECIAUX

Poulies spéciales avec profile **XL, L, H, XH, XXH, HTD, ST, T, AT** et avec tous pas peuvent être exécutées sur plan. Les poulies dentées sont exécutées en fonte ou en acier lorsque la vitesse circonférentielle est supérieure à 30 m/s.

## SONDERAUSFÜHRUNGEN

Auf Anfrage können wir Zahnscheiben Typ **XL, L, H, XH, XXH, HTD, ST, T, AT** nach Zeichnung herstellen.

Bei diesen Zahnscheiben werden die Gusseisen – sowie die Stahl-Ausführungen empfohlen, letztere insbesondere wenn die Umfangsgeschwindigkeit höher als 30 m/s ist.

## TIPOS ESPECIALES

Sobre demanda podemos construir poleas dentada **XL, L, H, XH, XXH, HTD, ST, T, AT** bajo plano del cliente.

Se aconseja la ejecución de las poleas dentadas en fundición o acero; particularmente en acero cuando la velocidad periférica es superior a 30 m/s.

$$\left( \begin{array}{l} \text{Peripheral speed m/s} \\ \text{Vitesse circonférentielle en m/s} \\ \text{Umfangsgeschwindigkeit in m/s} \\ \text{Velocidad periférica} \end{array} \right) = \frac{\left( \begin{array}{l} \text{Pulley diamétre in mm x revolution per min} \\ \text{Diametre de la poulie en mm x vitesse en tr/min} \\ \text{Zahnscheibendurchmesser in mm x Drehzahl pro min} \\ \text{Diámetro polea (mm) x r.p.m.} \end{array} \right)}{19100}$$

If weight is a limiting factor, pulleys can also be made in aluminium. However if aluminium is used the pulley will have a shorter life due to the lightly abrasive effect of the nylon cover of the belt. Hard anodising of the teeth is recommended to avoid this trouble.

Pour diminuer le poids d'une transmission, il est possible d'obtenir des poulies en alliage léger; il faut alors tenir compte d'une durée de vie réduite en raison de l'effet d'abrasion de l'armature intérieure en nylon de la courroie. Cet inconvénient peut néanmoins être évité par une oxydation anodique ou un chromage de la denture de la poulie.

Aus Gewichtsgründen können die Zahnscheiben auch als Leichtmetallausführung gefertigt werden; in diesem Falle muß man aber eine kürzere Lebensdauer einkalkulieren denn die Nylon-Gewebebeschichtung der Riemen an der Zahnseite hat eine leichte Abriebwirkung. Um diesem Mangel zu vermeiden ist eine Eloxal- oder Goldeloxalveredelung drigen zu empfehlen.

Por razones de peso pueden también fabricarse en metales ligeros, pero en tal caso hay que preveer una vida más corta de la polea ya que el recubrimiento de nylon de la correa tiene un efecto ligeramente abrasivo. Para evitar este inconveniente se aconseja la oxidación anódica de gran espesor sobre el dentado.

# PITCH AND OUTSIDE DIAMETER

## DIAMÈTRE PRIMITIF ET EXTÉRIEUR

### WIRK-UND AUßENDURCHMESSER

#### DIAMETRO PRIMITIVO Y EXTERIOR

Ø pr. - pitch diameter - diamètre primitif - Wirkdurchmesser - diámetro primitivo  
 Ø est. - outside diameter - diamètre extérieur - Außendurchmesser - diámetro exterior

## MXL (2.032 mm)

mm

| Type<br>Type<br>Typ<br>Tipo | Ø pr. | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr. | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr. | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr. | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr. | Ø est. |
|-----------------------------|-------|--------|-----------------------------|-------|--------|-----------------------------|-------|--------|-----------------------------|-------|--------|-----------------------------|-------|--------|
| 10 MXL                      | 6,47  | 5,96   | 39 MXL                      | 25,23 | 24,72  | 67 MXL                      | 43,34 | 42,83  | 95 MXL                      | 61,45 | 60,94  | 123 MXL                     | 79,56 | 79,05  |
| 11 MXL                      | 7,12  | 6,61   | 40 MXL                      | 25,87 | 25,36  | 68 MXL                      | 43,98 | 43,47  | 96 MXL                      | 62,09 | 61,58  | 124 MXL                     | 80,20 | 79,69  |
| 12 MXL                      | 7,76  | 7,25   | 41 MXL                      | 26,52 | 26,01  | 69 MXL                      | 44,63 | 44,12  | 97 MXL                      | 62,74 | 62,23  | 125 MXL                     | 80,85 | 80,34  |
| 13 MXL                      | 8,41  | 7,90   | 42 MXL                      | 27,17 | 26,66  | 70 MXL                      | 45,28 | 44,77  | 98 MXL                      | 63,39 | 62,88  | 126 MXL                     | 81,50 | 80,99  |
| 14 MXL                      | 9,06  | 8,55   | 43 MXL                      | 27,81 | 27,30  | 71 MXL                      | 45,92 | 45,41  | 99 MXL                      | 64,03 | 63,52  | 127 MXL                     | 82,14 | 81,63  |
| 15 MXL                      | 9,70  | 9,19   | 44 MXL                      | 28,46 | 27,95  | 72 MXL                      | 46,57 | 46,06  | 100 MXL                     | 64,68 | 64,17  | 128 MXL                     | 82,79 | 82,28  |
| 16 MXL                      | 10,35 | 9,84   | 45 MXL                      | 29,11 | 28,60  | 73 MXL                      | 47,22 | 46,71  | 101 MXL                     | 65,33 | 64,82  | 129 MXL                     | 83,44 | 82,93  |
| 17 MXL                      | 11,00 | 10,49  | 46 MXL                      | 29,75 | 29,24  | 74 MXL                      | 47,86 | 47,35  | 102 MXL                     | 65,97 | 65,46  | 130 MXL                     | 84,08 | 83,57  |
| 18 MXL                      | 11,64 | 11,13  | 47 MXL                      | 30,40 | 29,89  | 75 MXL                      | 48,51 | 48,00  | 103 MXL                     | 66,62 | 66,11  | 131 MXL                     | 84,73 | 84,22  |
| 19 MXL                      | 12,29 | 11,78  | 48 MXL                      | 31,05 | 30,54  | 76 MXL                      | 49,16 | 48,65  | 104 MXL                     | 67,27 | 66,76  | 132 MXL                     | 85,38 | 84,87  |
|                             |       |        | 49 MXL                      | 31,69 | 31,18  | 77 MXL                      | 49,80 | 49,29  | 105 MXL                     | 67,91 | 67,40  | 133 MXL                     | 86,02 | 85,51  |
| 20 MXL                      | 12,94 | 12,43  |                             |       |        | 78 MXL                      | 50,45 | 49,94  | 106 MXL                     | 68,56 | 68,05  | 134 MXL                     | 86,67 | 86,16  |
| 21 MXL                      | 13,58 | 13,07  | 50 MXL                      | 32,34 | 31,83  | 79 MXL                      | 51,10 | 50,59  | 107 MXL                     | 69,21 | 68,70  | 135 MXL                     | 87,32 | 86,81  |
| 22 MXL                      | 14,23 | 13,72  | 51 MXL                      | 32,99 | 32,48  | 80 MXL                      | 51,74 | 51,23  | 108 MXL                     | 69,85 | 69,34  | 136 MXL                     | 87,97 | 87,46  |
| 23 MXL                      | 14,88 | 14,37  | 52 MXL                      | 33,63 | 33,12  | 81 MXL                      | 52,39 | 51,88  | 109 MXL                     | 70,50 | 69,99  | 137 MXL                     | 88,61 | 88,10  |
| 24 MXL                      | 15,52 | 15,01  | 53 MXL                      | 34,28 | 33,77  | 82 MXL                      | 53,04 | 52,53  |                             |       |        | 138 MXL                     | 89,26 | 88,75  |
| 25 MXL                      | 16,17 | 15,66  | 54 MXL                      | 34,93 | 34,42  | 83 MXL                      | 53,68 | 53,17  | 110 MXL                     | 71,15 | 70,64  | 139 MXL                     | 89,91 | 89,40  |
| 26 MXL                      | 16,82 | 16,31  | 55 MXL                      | 35,57 | 35,06  | 84 MXL                      | 54,33 | 53,82  | 111 MXL                     | 71,80 | 71,29  |                             |       |        |
| 27 MXL                      | 17,46 | 16,95  | 56 MXL                      | 36,22 | 35,71  | 85 MXL                      | 54,98 | 54,47  | 112 MXL                     | 72,44 | 71,93  | 140 MXL                     | 90,55 | 90,04  |
| 28 MXL                      | 18,11 | 17,60  | 57 MXL                      | 36,87 | 36,36  | 86 MXL                      | 55,63 | 55,12  | 113 MXL                     | 73,09 | 72,58  | 141 MXL                     | 91,20 | 90,69  |
| 29 MXL                      | 18,76 | 18,25  | 58 MXL                      | 37,51 | 37,00  | 87 MXL                      | 56,27 | 55,76  | 114 MXL                     | 73,74 | 73,23  | 142 MXL                     | 91,85 | 91,34  |
|                             |       |        | 59 MXL                      | 38,16 | 37,65  | 88 MXL                      | 56,92 | 56,41  | 115 MXL                     | 74,38 | 73,87  | 143 MXL                     | 92,49 | 91,98  |
| 30 MXL                      | 19,40 | 18,89  |                             |       |        | 89 MXL                      | 57,57 | 57,06  | 116 MXL                     | 75,03 | 74,52  | 144 MXL                     | 93,14 | 92,63  |
| 31 MXL                      | 20,05 | 19,54  | 60 MXL                      | 38,81 | 38,30  |                             |       |        | 117 MXL                     | 75,68 | 75,17  | 145 MXL                     | 93,79 | 93,28  |
| 32 MXL                      | 20,70 | 20,19  | 61 MXL                      | 39,46 | 38,95  | 90 MXL                      | 58,21 | 57,70  | 118 MXL                     | 76,32 | 75,81  | 146 MXL                     | 94,43 | 93,92  |
| 33 MXL                      | 21,34 | 20,83  | 62 MXL                      | 40,10 | 39,59  | 91 MXL                      | 58,86 | 58,36  | 119 MXL                     | 76,97 | 76,46  | 147 MXL                     | 95,08 | 94,57  |
| 34 MXL                      | 21,99 | 21,48  | 63 MXL                      | 40,75 | 40,24  | 92 MXL                      | 59,51 | 59,00  |                             |       |        | 148 MXL                     | 95,73 | 95,22  |
| 35 MXL                      | 22,64 | 22,13  | 64 MXL                      | 41,40 | 40,89  | 93 MXL                      | 60,15 | 59,64  | 120 MXL                     | 77,62 | 77,11  | 149 MXL                     | 96,37 | 95,86  |
| 36 MXL                      | 23,29 | 22,78  | 65 MXL                      | 42,04 | 41,53  | 94 MXL                      | 60,80 | 60,29  | 121 MXL                     | 78,26 | 77,75  |                             |       |        |
| 37 MXL                      | 23,93 | 23,42  | 66 MXL                      | 42,69 | 42,18  |                             |       |        | 122 MXL                     | 78,91 | 78,40  | 150 MXL                     | 97,02 | 96,51  |
| 38 MXL                      | 24,58 | 24,07  |                             |       |        |                             |       |        |                             |       |        |                             |       |        |

## XL (5.080 mm)

mm

| Type<br>Type<br>Typ<br>Tipo | Ø pr. | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr. | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. |
|-----------------------------|-------|--------|-----------------------------|-------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|
| 10 XL                       | 16,17 | 15,66  | 32 XL                       | 51,74 | 51,23  | 54 XL                       | 87,32  | 86,81  | 76 XL                       | 122,89 | 122,38 | 98 XL                       | 158,47 | 157,96 |
| 11 XL                       | 17,79 | 17,28  | 33 XL                       | 53,36 | 52,85  | 55 XL                       | 88,93  | 88,42  | 77 XL                       | 124,51 | 124,00 | 99 XL                       | 160,08 | 159,57 |
| 12 XL                       | 19,40 | 18,89  | 34 XL                       | 54,98 | 54,47  | 56 XL                       | 90,55  | 90,04  | 78 XL                       | 126,13 | 125,62 |                             |        |        |
| 13 XL                       | 21,02 | 20,51  | 35 XL                       | 56,60 | 56,09  | 57 XL                       | 92,17  | 91,66  | 79 XL                       | 127,74 | 127,23 | 100 XL                      | 161,70 | 161,19 |
| 14 XL                       | 22,64 | 22,13  | 36 XL                       | 58,21 | 57,70  | 58 XL                       | 93,79  | 93,28  |                             |        |        | 101 XL                      | 163,32 | 162,81 |
| 15 XL                       | 24,26 | 23,74  | 37 XL                       | 59,83 | 59,32  | 59 XL                       | 95,40  | 94,89  | 80 XL                       | 129,36 | 128,85 | 102 XL                      | 164,93 | 164,42 |
| 16 XL                       | 25,87 | 25,36  | 38 XL                       | 61,45 | 60,94  |                             |        |        | 81 XL                       | 130,98 | 130,47 | 103 XL                      | 166,55 | 166,04 |
| 17 XL                       | 27,49 | 26,98  | 39 XL                       | 63,06 | 62,55  | 60 XL                       | 97,02  | 96,51  | 82 XL                       | 132,59 | 132,08 | 104 XL                      | 168,17 | 167,66 |
| 18 XL                       | 29,11 | 28,60  |                             |       |        | 61 XL                       | 98,64  | 98,13  | 83 XL                       | 134,21 | 133,70 | 105 XL                      | 169,79 | 169,28 |
| 19 XL                       | 30,72 | 30,21  | 40 XL                       | 64,88 | 64,37  | 62 XL                       | 100,25 | 99,74  | 84 XL                       | 135,83 | 135,32 | 106 XL                      | 171,40 | 170,89 |
|                             |       |        | 41 XL                       | 66,30 | 65,79  | 63 XL                       | 101,87 | 101,36 | 85 XL                       | 137,44 | 136,93 | 107 XL                      | 173,02 | 172,51 |
| 20 XL                       | 32,34 | 31,83  | 42 XL                       | 67,91 | 67,40  | 64 XL                       | 103,49 | 102,98 | 86 XL                       | 139,06 | 138,55 | 108 XL                      | 174,64 | 174,13 |
| 21 XL                       | 33,96 | 33,45  | 43 XL                       | 69,53 | 69,02  | 65 XL                       | 105,11 | 104,60 | 87 XL                       | 140,68 | 140,17 | 109 XL                      | 176,25 | 175,74 |
| 22 XL                       | 35,57 | 35,06  | 44 XL                       | 71,15 | 70,64  | 66 XL                       | 106,72 | 106,21 | 88 XL                       | 142,30 | 141,79 | 110 XL                      | 177,87 | 177,36 |
| 23 XL                       | 37,19 | 36,68  | 45 XL                       | 72,77 | 72,26  | 67 XL                       | 108,34 | 107,83 | 89 XL                       | 143,91 | 143,41 | 111 XL                      | 179,49 | 178,98 |
| 24 XL                       | 38,81 | 38,30  | 46 XL                       | 74,38 | 73,87  | 68 XL                       | 109,96 | 109,45 |                             |        |        | 112 XL                      | 181,10 | 180,59 |
| 25 XL                       | 40,43 | 39,92  | 47 XL                       | 76,00 | 75,49  | 69 XL                       | 111,57 | 111,06 | 90 XL                       | 145,53 | 145,02 | 113 XL                      | 182,72 | 182,21 |
| 26 XL                       | 42,04 | 41,53  | 48 XL                       | 77,62 | 77,11  |                             |        |        | 91 XL                       | 147,15 | 146,64 | 114 XL                      | 184,34 | 183,83 |
| 27 XL                       | 43,66 | 43,15  | 49 XL                       | 79,23 | 78,72  | 70 XL                       | 113,19 | 112,68 | 92 XL                       | 148,76 | 148,25 | 115 XL                      | 185,95 | 185,44 |
| 28 XL                       | 45,28 | 44,77  |                             |       |        | 71 XL                       | 114,81 | 114,30 | 93 XL                       | 150,38 | 149,87 | 116 XL                      | 187,57 | 187,06 |
| 29 XL                       | 46,89 | 46,38  | 50 XL                       | 80,85 | 80,34  | 72 XL                       | 116,43 | 115,92 | 94 XL                       | 152,00 | 151,49 | 117 XL                      | 189,19 | 188,68 |
|                             |       |        | 51 XL                       | 82,47 | 81,96  | 73 XL                       | 118,04 | 117,53 | 95 XL                       | 153,62 | 153,11 | 118 XL                      | 190,81 | 190,30 |
| 30 XL                       | 48,51 | 48,00  | 52 XL                       | 84,08 | 83,57  | 74 XL                       | 119,66 | 119,15 | 96 XL                       | 155,23 | 154,72 | 119 XL                      | 192,42 | 191,91 |
| 31 XL                       | 50,13 | 49,62  | 53 XL                       | 85,70 | 85,19  | 75 XL                       | 121,28 | 120,77 | 97 XL                       | 156,85 | 156,34 | 120 XL                      | 194,04 | 193,53 |

## L (9.525 mm)

mm

| Type<br>Type<br>Typ<br>Tipo | Ø pr. | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. |
|-----------------------------|-------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|
| 10 L                        | 30,32 | 29,56  | 33 L                        | 100,05 | 99,29  | 56 L                        | 169,79 | 169,02 | 79 L                        | 239,52 | 238,76 | 101 L                       | 306,22 | 305,46 |
| 11 L                        | 33,35 | 32,59  | 34 L                        | 103,08 | 102,32 | 57 L                        | 172,82 | 172,06 |                             |        |        | 102 L                       | 309,25 | 308,49 |
| 12 L                        | 36,38 | 35,62  | 35 L                        | 106,12 | 105,35 | 58 L                        | 175,85 | 175,09 | 80 L                        | 242,55 | 241,79 | 103 L                       | 312,29 | 311,53 |
| 13 L                        | 39,41 | 38,65  | 36 L                        | 109,15 | 108,39 | 59 L                        | 178,88 | 178,12 | 81 L                        | 245,58 | 244,82 | 104 L                       | 315,32 | 314,56 |
| 14 L                        | 42,45 | 41,69  | 37 L                        | 112,18 | 111,42 |                             |        |        | 82 L                        | 248,62 | 247,86 | 105 L                       | 318,35 | 317,59 |
| 15 L                        | 45,48 | 44,72  | 38 L                        | 115,21 | 114,45 | 60 L                        | 181,91 | 181,15 | 83 L                        | 251,65 | 250,89 | 106 L                       | 321,38 | 320,62 |
| 16 L                        | 48,51 | 47,75  | 39 L                        | 118,24 | 117,48 | 61 L                        | 184,95 | 184,19 | 84 L                        | 254,68 | 253,92 | 107 L                       | 324,41 | 323,65 |
| 17 L                        | 51,54 | 50,78  |                             |        |        | 62 L                        | 187,98 | 187,22 | 85 L                        | 257,71 | 256,95 | 108 L                       | 327,45 | 326,69 |
| 18 L                        | 54,57 | 53,81  | 40 L                        | 121,28 | 120,52 | 63 L                        | 191,01 | 190,25 | 86 L                        | 260,74 | 259,98 | 109 L                       | 330,48 | 329,72 |
| 19 L                        | 57,61 | 56,84  | 41 L                        | 124,31 | 123,55 | 64 L                        | 194,04 | 193,28 | 87 L                        | 263,78 | 263,02 |                             |        |        |
|                             |       |        | 42 L                        | 127,34 | 126,58 | 65 L                        | 197,07 | 196,31 | 88 L                        | 266,81 | 266,05 | 110 L                       | 333,51 | 332,75 |
| 20 L                        | 60,64 | 59,88  | 43 L                        | 130,37 | 129,61 | 66 L                        | 200,11 | 199,34 | 89 L                        | 269,84 | 269,08 | 111 L                       | 336,54 | 335,78 |
| 21 L                        | 63,67 | 62,91  | 44 L                        | 133,40 | 132,64 | 67 L                        | 203,14 | 202,38 |                             |        |        | 112 L                       | 339,57 | 338,81 |
| 22 L                        | 66,70 | 65,94  | 45 L                        | 136,44 | 135,67 | 68 L                        | 206,17 | 205,41 | 90 L                        | 282,87 | 282,11 | 113 L                       | 342,61 | 341,85 |
| 23 L                        | 69,73 | 68,97  | 46 L                        | 139,47 | 138,71 | 69 L                        | 209,20 | 208,44 | 91 L                        | 275,90 | 275,14 | 114 L                       | 345,64 | 344,88 |
| 24 L                        | 72,77 | 72,01  | 47 L                        | 142,50 | 141,74 |                             |        |        | 92 L                        | 278,94 | 278,18 | 115 L                       | 348,67 | 347,91 |
| 25 L                        | 75,80 | 75,04  | 48 L                        | 145,53 | 144,77 | 70 L                        | 212,23 | 211,47 | 93 L                        | 281,97 | 281,21 | 116 L                       | 351,70 | 350,94 |
| 26 L                        | 78,83 | 78,07  | 49 L                        | 148,56 | 147,80 | 71 L                        | 215,27 | 214,51 | 94 L                        | 285,00 | 284,24 | 117 L                       | 354,73 | 353,97 |
| 27 L                        | 81,86 | 81,10  |                             |        |        | 72 L                        | 218,30 | 217,54 | 95 L                        | 288,03 | 287,27 | 118 L                       | 357,76 | 357,00 |
| 28 L                        | 84,89 | 84,13  | 50 L                        | 151,60 | 150,83 | 73 L                        | 221,33 | 220,57 | 96 L                        | 291,06 | 290,30 | 119 L                       | 360,80 | 360,04 |
| 29 L                        | 87,93 | 87,16  | 51 L                        | 154,63 | 153,87 | 74 L                        | 224,36 | 223,60 | 97 L                        | 294,09 | 293,33 |                             |        |        |
|                             |       |        | 52 L                        | 157,66 | 156,90 | 75 L                        | 227,39 | 226,63 | 98 L                        | 297,13 | 296,37 | 120 L                       | 363,83 | 363,07 |
| 30 L                        | 90,96 | 90,20  | 53 L                        | 160,69 | 159,93 | 76 L                        | 230,42 | 229,66 | 99 L                        | 300,16 | 299,40 | 130 L                       | 394,15 | 393,62 |
| 31 L                        | 93,99 | 93,23  | 54 L                        | 163,72 | 162,96 | 77 L                        | 233,46 | 232,70 |                             |        |        | 140 L                       | 424,47 | 423,93 |
| 32 L                        | 97,02 | 96,26  | 55 L                        | 166,76 | 166,00 | 78 L                        | 236,49 | 235,73 | 100 L                       | 303,19 | 302,43 | 150 L                       | 454,80 | 454,25 |

## H (12.700 mm)

mm

| Type<br>Type<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Tipo | Ø pr.  | Ø est. |
|----------------------|--------|--------|----------------------|--------|--------|----------------------|--------|--------|----------------------|--------|--------|----------------------|--------|--------|
| 14 H                 | 56,60  | 55,23  | 37 H                 | 149,57 | 148,20 | 60 H                 | 242,55 | 241,18 | 83 H                 | 335,53 | 334,16 | 106 H                | 428,51 | 427,14 |
| 15 H                 | 60,64  | 59,27  | 38 H                 | 153,62 | 152,25 | 61 H                 | 246,59 | 245,22 | 84 H                 | 339,57 | 338,20 | 107 H                | 432,55 | 431,17 |
| 16 H                 | 64,68  | 63,31  | 39 H                 | 157,66 | 156,29 | 62 H                 | 250,64 | 249,27 | 85 H                 | 343,61 | 342,24 | 108 H                | 436,59 | 435,22 |
| 17 H                 | 68,72  | 67,35  |                      |        |        | 63 H                 | 254,68 | 253,31 | 86 H                 | 347,66 | 346,29 | 109 H                | 440,63 | 439,26 |
| 18 H                 | 72,77  | 71,40  | 40 H                 | 161,70 | 160,33 | 64 H                 | 258,72 | 257,35 | 87 H                 | 351,70 | 350,33 |                      |        |        |
| 19 H                 | 76,81  | 75,44  | 41 H                 | 165,74 | 164,37 | 65 H                 | 262,76 | 261,39 | 88 H                 | 355,74 | 354,37 | 110 H                | 414,68 | 443,31 |
|                      |        |        | 42 H                 | 169,79 | 168,42 | 66 H                 | 266,81 | 165,44 | 89 H                 | 359,78 | 358,41 | 111 H                | 448,72 | 447,35 |
| 20 H                 | 80,85  | 79,48  | 43 H                 | 173,83 | 172,46 | 67 H                 | 270,85 | 269,48 |                      |        |        | 112 H                | 452,76 | 451,39 |
| 21 H                 | 84,89  | 83,52  | 44 H                 | 177,87 | 176,50 | 68 H                 | 274,89 | 273,52 | 90 H                 | 363,83 | 362,46 | 113 H                | 456,80 | 455,43 |
| 22 H                 | 88,94  | 87,57  | 45 H                 | 181,91 | 180,54 | 69 H                 | 278,93 | 277,57 | 91 H                 | 367,87 | 366,50 | 114 H                | 460,85 | 459,48 |
| 23 H                 | 92,98  | 91,61  | 46 H                 | 185,96 | 184,59 |                      |        |        | 92 H                 | 371,91 | 270,54 | 115 H                | 464,89 | 463,52 |
| 24 H                 | 97,02  | 95,65  | 47 H                 | 190,00 | 188,63 | 70 H                 | 282,98 | 281,61 | 93 H                 | 375,95 | 374,58 | 116 H                | 468,93 | 467,56 |
| 25 H                 | 101,06 | 99,69  | 48 H                 | 194,04 | 192,67 | 71 H                 | 287,02 | 285,65 | 94 H                 | 380,00 | 378,63 | 117 H                | 472,97 | 471,60 |
| 26 H                 | 105,11 | 103,74 | 49 H                 | 198,08 | 196,71 | 72 H                 | 291,06 | 289,69 | 95 H                 | 384,04 | 382,67 | 118 H                | 477,02 | 475,65 |
| 27 H                 | 109,15 | 107,78 |                      |        |        | 73 H                 | 295,10 | 293,73 | 96 H                 | 388,08 | 386,71 | 119 H                | 481,06 | 479,69 |
| 28 H                 | 113,19 | 111,82 | 50 H                 | 202,13 | 200,76 | 74 H                 | 299,15 | 297,78 | 97 H                 | 392,12 | 290,75 |                      |        |        |
| 29 H                 | 117,23 | 115,86 | 51 H                 | 206,17 | 204,80 | 75 H                 | 303,19 | 301,82 | 98 H                 | 396,17 | 394,80 | 120 H                | 485,10 | 483,73 |
|                      |        |        | 52 H                 | 210,21 | 208,84 | 76 H                 | 307,23 | 305,86 | 99 H                 | 400,21 | 398,84 | 125 H                | 505,31 | 503,94 |
| 30 H                 | 121,28 | 119,91 | 53 H                 | 214,25 | 212,88 | 77 H                 | 311,27 | 309,90 |                      |        |        | 130 H                | 525,53 | 524,16 |
| 31 H                 | 125,32 | 123,95 | 54 H                 | 218,30 | 216,93 | 78 H                 | 315,32 | 313,95 | 100 H                | 404,25 | 402,88 | 135 H                | 545,74 | 544,37 |
| 32 H                 | 129,36 | 127,99 | 55 H                 | 222,34 | 220,97 | 79 H                 | 319,36 | 317,99 | 101 H                | 408,29 | 406,92 | 140 H                | 565,95 | 564,58 |
| 33 H                 | 133,40 | 132,03 | 56 H                 | 226,38 | 225,01 |                      |        |        | 102 H                | 412,34 | 410,97 | 145 H                | 586,16 | 584,79 |
| 34 H                 | 137,45 | 136,08 | 57 H                 | 230,42 | 229,05 | 80 H                 | 323,40 | 322,03 | 103 H                | 416,38 | 415,01 | 150 H                | 606,38 | 605,01 |
| 35 H                 | 141,49 | 140,12 | 58 H                 | 234,47 | 233,10 | 81 H                 | 327,44 | 326,07 | 104 H                | 420,42 | 419,05 | 156 H                | 630,63 | 629,26 |
| 36 H                 | 145,53 | 144,16 | 59 H                 | 238,51 | 237,14 | 82 H                 | 331,49 | 330,12 | 105 H                | 424,46 | 423,09 |                      |        |        |

## XH (22.225 mm)

mm

| Type<br>Type<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Tipo | Ø pr.   | Ø est.  |
|----------------------|--------|--------|----------------------|--------|--------|----------------------|--------|--------|----------------------|--------|--------|----------------------|---------|---------|
| 18 XH                | 127,34 | 124,55 | 42 XH                | 297,13 | 294,34 | 67 XH                | 473,99 | 471,20 | 91 XH                | 643,77 | 640,98 | 116 XH               | 820,63  | 817,84  |
| 19 XH                | 134,41 | 121,62 | 43 XH                | 304,20 | 301,41 | 68 XH                | 481,06 | 478,27 | 92 XH                | 650,85 | 648,06 | 117 XH               | 827,71  | 824,92  |
|                      |        |        | 44 XH                | 311,27 | 308,48 | 69 XH                | 488,13 | 485,34 | 93 XH                | 657,92 | 655,13 | 118 XH               | 834,78  | 831,99  |
| 20 XH                | 141,49 | 138,70 | 45 XH                | 318,35 | 315,56 | 70 XH                | 495,21 | 492,42 | 94 XH                | 664,99 | 662,20 | 119 XH               | 841,85  | 839,06  |
| 21 XH                | 148,56 | 145,77 | 46 XH                | 325,42 | 322,63 | 71 XH                | 502,28 | 499,49 | 95 XH                | 672,07 | 669,28 |                      |         |         |
| 22 XH                | 156,64 | 152,85 | 47 XH                | 332,50 | 329,71 | 72 XH                | 509,36 | 506,57 | 96 XH                | 679,14 | 676,36 | 120 XH               | 848,93  | 846,14  |
| 23 XH                | 162,71 | 159,92 | 48 XH                | 339,57 | 336,78 | 73 XH                | 516,43 | 513,64 | 97 XH                | 686,22 | 683,43 | 122 XH               | 863,08  | 860,29  |
| 24 XH                | 169,79 | 167,00 | 49 XH                | 346,66 | 343,87 | 74 XH                | 523,51 | 520,72 | 98 XH                | 693,29 | 690,50 | 124 XH               | 877,23  | 874,44  |
| 25 XH                | 176,86 | 174,07 |                      |        |        | 75 XH                | 530,58 | 527,79 | 99 XH                | 700,37 | 697,58 | 125 XH               | 884,30  | 881,51  |
| 26 XH                | 183,94 | 181,15 | 50 XH                | 353,72 | 350,93 | 76 XH                | 537,65 | 534,86 | 100 XH               | 707,44 | 704,65 | 126 XH               | 891,37  | 888,58  |
| 27 XH                | 191,01 | 188,22 | 51 XH                | 360,79 | 358,00 | 77 XH                | 544,73 | 541,94 | 101 XH               | 714,51 | 711,72 | 128 XH               | 905,52  | 902,73  |
| 28 XH                | 198,08 | 195,29 | 52 XH                | 367,87 | 365,08 | 78 XH                | 551,80 | 549,01 | 102 XH               | 721,59 | 718,77 | 130 XH               | 919,67  | 916,88  |
| 29 XH                | 205,16 | 202,37 | 53 XH                | 374,94 | 372,15 | 79 XH                | 558,88 | 556,09 | 103 XH               | 728,66 | 725,87 | 132 XH               | 933,82  | 931,03  |
|                      |        |        | 54 XH                | 382,02 | 379,23 |                      |        |        | 104 XH               | 735,74 | 732,95 | 134 XH               | 947,97  | 945,18  |
| 30 XH                | 212,23 | 209,44 | 55 XH                | 389,09 | 386,30 | 80 XH                | 565,95 | 563,16 | 105 XH               | 742,81 | 740,02 | 135 XH               | 955,04  | 952,25  |
| 31 XH                | 219,31 | 216,52 | 56 XH                | 396,17 | 393,38 | 81 XH                | 573,03 | 570,24 | 106 XH               | 749,89 | 747,10 | 136 XH               | 962,12  | 959,33  |
| 32 XH                | 226,38 | 223,59 | 57 XH                | 403,24 | 400,45 | 82 XH                | 580,10 | 577,31 | 107 XH               | 756,96 | 754,17 | 138 XH               | 976,27  | 973,48  |
| 33 XH                | 233,46 | 230,67 | 58 XH                | 410,32 | 407,52 | 83 XH                | 587,18 | 584,39 | 108 XH               | 764,04 | 761,25 | 140 XH               | 990,42  | 987,63  |
| 34 XH                | 240,53 | 237,74 | 59 XH                | 417,39 | 414,60 | 84 XH                | 594,25 | 591,46 | 109 XH               | 771,11 | 768,32 | 142 XH               | 1004,57 | 1001,78 |
| 35 XH                | 247,60 | 244,81 |                      |        |        | 85 XH                | 601,32 | 598,53 |                      |        |        | 144 XH               | 1018,71 | 1015,92 |
| 36 XH                | 254,68 | 251,89 | 60 XH                | 424,47 | 421,68 | 86 XH                | 608,40 | 605,61 | 110 XH               | 778,18 | 775,39 | 146 XH               | 1032,86 | 1030,07 |
| 37 XH                | 261,75 | 258,96 | 61 XH                | 431,54 | 428,75 | 87 XH                | 615,47 | 612,68 | 111 XH               | 785,26 | 782,47 | 148 XH               | 1047,01 | 1044,22 |
| 38 XH                | 268,83 | 266,03 | 62 XH                | 438,61 | 435,82 | 88 XH                | 622,55 | 619,76 | 112 XH               | 792,33 | 789,54 | 150 XH               | 1061,16 | 1058,37 |
| 39 XH                | 275,90 | 273,11 | 63 XH                | 445,69 | 442,90 | 89 XH                | 629,62 | 626,83 | 113 XH               | 799,41 | 796,62 |                      |         |         |
|                      |        |        | 64 XH                | 452,76 | 449,97 |                      |        |        | 114 XH               | 806,48 | 803,69 |                      |         |         |
| 40 XH                | 282,98 | 280,19 | 65 XH                | 459,84 | 457,05 | 90 XH                | 636,70 | 633,91 | 115 XH               | 813,56 | 810,77 |                      |         |         |
| 41 XH                | 290,05 | 287,26 | 66 XH                | 466,91 | 464,12 |                      |        |        |                      |        |        |                      |         |         |

## XXH (31,750 mm)

mm

| Type<br>Type<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Tipo | Ø pr.   | Ø est.  | Type<br>Type<br>Tipo | Ø pr.   | Ø est.  |
|----------------------|--------|--------|----------------------|--------|--------|----------------------|--------|--------|----------------------|---------|---------|----------------------|---------|---------|
| 18 XXH               | 181,91 | 178,86 | 39 XXH               | 394,15 | 391,10 | 60 XXH               | 606,38 | 603,33 | 81 XXH               | 818,61  | 815,66  | 102 XXH              | 1030,84 | 1027,79 |
| 19 XXH               | 192,02 | 188,97 |                      |        |        | 61 XXH               | 616,48 | 613,43 | 82 XXH               | 828,72  | 825,67  | 103 XXH              | 1040,95 | 1037,90 |
|                      |        |        | 40 XXH               | 404,25 | 401,20 | 62 XXH               | 626,59 | 623,54 | 83 XXH               | 838,82  | 835,77  | 104 XXH              | 1051,06 | 1048,90 |
| 20 XXH               | 202,13 | 199,08 | 41 XXH               | 414,36 | 411,31 | 63 XXH               | 636,70 | 633,65 | 84 XXH               | 848,93  | 845,88  | 105 XXH              | 1061,16 | 1058,11 |
| 21 XXH               | 212,23 | 209,18 | 42 XXH               | 424,47 | 421,42 | 64 XXH               | 646,80 | 643,75 | 85 XXH               | 859,04  | 855,99  | 106 XXH              | 1071,27 | 1068,22 |
| 22 XXH               | 222,34 | 219,29 | 43 XXH               | 434,57 | 431,52 | 65 XXH               | 656,91 | 653,86 | 86 XXH               | 869,14  | 866,09  | 107 XXH              | 1081,37 | 1078,32 |
| 23 XXH               | 232,45 | 229,40 | 44 XXH               | 444,68 | 441,63 | 66 XXH               | 667,02 | 663,97 | 87 XXH               | 879,25  | 876,20  | 108 XXH              | 1091,48 | 1088,43 |
| 24 XXH               | 242,55 | 239,50 | 45 XXH               | 454,78 | 451,73 | 67 XXH               | 677,12 | 674,07 | 88 XXH               | 889,35  | 886,30  | 109 XXH              | 1101,59 | 1098,54 |
| 25 XXH               | 252,66 | 249,61 | 46 XXH               | 464,89 | 461,84 | 68 XXH               | 687,23 | 684,18 | 89 XXH               | 899,46  | 896,41  |                      |         |         |
| 26 XXH               | 262,76 | 259,71 | 47 XXH               | 475,00 | 471,95 | 69 XXH               | 697,34 | 694,29 |                      |         |         | 110 XXH              | 1111,69 | 1108,64 |
| 27 XXH               | 272,87 | 269,82 | 48 XXH               | 485,10 | 482,05 |                      |        |        | 90 XXH               | 909,57  | 906,52  | 111 XXH              | 1121,80 | 1118,75 |
| 28 XXH               | 282,98 | 279,93 | 49 XXH               | 495,21 | 492,16 | 70 XXH               | 707,44 | 704,39 | 91 XXH               | 919,67  | 916,62  | 112 XXH              | 1131,91 | 1128,86 |
| 29 XXH               | 293,08 | 290,03 |                      |        |        | 71 XXH               | 717,55 | 714,50 | 92 XXH               | 929,78  | 926,74  | 113 XXH              | 1142,01 | 1138,96 |
|                      |        |        | 50 XXH               | 505,32 | 502,27 | 72 XXH               | 727,66 | 724,61 | 93 XXH               | 939,89  | 936,84  | 114 XXH              | 1152,12 | 1149,07 |
| 30 XXH               | 303,19 | 300,14 | 51 XXH               | 515,42 | 512,37 | 73 XXH               | 737,76 | 734,71 | 94 XXH               | 949,99  | 946,94  | 115 XXH              | 1162,23 | 1159,18 |
| 31 XXH               | 313,30 | 310,25 | 52 XXH               | 525,53 | 522,48 | 74 XXH               | 747,87 | 744,82 | 95 XXH               | 960,10  | 957,05  | 116 XXH              | 1172,33 | 1169,28 |
| 32 XXH               | 323,40 | 320,35 | 53 XXH               | 535,63 | 532,58 | 75 XXH               | 757,97 | 754,92 | 96 XXH               | 970,21  | 967,16  | 117 XXH              | 1182,44 | 1179,39 |
| 33 XXH               | 333,51 | 330,46 | 54 XXH               | 545,74 | 542,69 | 76 XXH               | 768,08 | 765,03 | 97 XXH               | 980,31  | 977,26  | 118 XXH              | 1192,54 | 1189,49 |
| 34 XXH               | 343,62 | 340,57 | 55 XXH               | 555,85 | 552,80 | 77 XXH               | 778,19 | 775,14 | 98 XXH               | 990,42  | 987,37  | 119 XXH              | 1202,65 | 1199,60 |
| 35 XXH               | 353,72 | 350,67 | 56 XXH               | 565,95 | 562,90 | 78 XXH               | 788,29 | 785,24 | 99 XXH               | 1000,52 | 997,47  |                      |         |         |
| 36 XXH               | 363,83 | 360,78 | 57 XXH               | 576,06 | 573,01 | 79 XXH               | 798,40 | 795,35 |                      |         |         | 120 XXH              | 1212,76 | 1209,71 |
| 37 XXH               | 373,93 | 370,88 | 58 XXH               | 586,17 | 583,12 |                      |        |        | 100 XXH              | 1010,63 | 1007,58 |                      |         |         |
| 38 XXH               | 384,04 | 380,99 | 59 XXH               | 596,27 | 593,22 | 80 XXH               | 808,50 | 805,45 | 101 XXH              | 1020,74 | 1017,69 |                      |         |         |





SUPER TORQUE

S 4,5 M (4,5 mm)

mm

| Type<br>Type<br>Typ<br>Tipo | Ø pr. | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr. | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr. | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. |
|-----------------------------|-------|--------|-----------------------------|-------|--------|-----------------------------|-------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|
| 16 S4,5M                    | 22,92 | 22,16  | 30 S4,5M                    | 42,97 | 42,21  | 45 S4,5M                    | 64,46 | 63,70  | 60 S4,5M                    | 85,95  | 85,19  | 75 S4,5M                    | 107,44 | 106,68 |
| 17 S4,5M                    | 24,35 | 23,59  | 31 S4,5M                    | 44,40 | 43,64  | 46 S4,5M                    | 65,89 | 65,13  | 61 S4,5M                    | 87,38  | 86,62  | 76 S4,5M                    | 108,87 | 108,11 |
| 18 S4,5M                    | 25,78 | 25,02  | 32 S4,5M                    | 45,84 | 45,08  | 47 S4,5M                    | 67,33 | 66,57  | 62 S4,5M                    | 88,81  | 88,05  | 77 S4,5M                    | 110,30 | 109,54 |
| 19 S4,5M                    | 27,21 | 26,45  | 33 S4,5M                    | 47,27 | 46,51  | 48 S4,5M                    | 68,76 | 68,00  | 63 S4,5M                    | 90,25  | 89,49  | 78 S4,5M                    | 111,74 | 110,98 |
|                             |       |        | 34 S4,5M                    | 48,70 | 47,94  | 49 S4,5M                    | 70,19 | 69,43  | 64 S4,5M                    | 91,68  | 90,92  | 79 S4,5M                    | 113,17 | 112,41 |
| 20 S4,5M                    | 28,65 | 27,89  | 35 S4,5M                    | 50,13 | 49,37  |                             |       |        | 65 S4,5M                    | 93,11  | 92,35  |                             |        |        |
| 21 S4,5M                    | 30,08 | 29,32  | 36 S4,5M                    | 51,57 | 50,81  | 50 S4,5M                    | 71,62 | 70,86  | 66 S4,5M                    | 94,54  | 93,78  | 80 S4,5M                    | 114,60 | 113,84 |
| 22 S4,5M                    | 31,51 | 30,75  | 37 S4,5M                    | 53,00 | 52,24  | 51 S4,5M                    | 73,06 | 72,30  | 67 S4,5M                    | 95,98  | 95,22  | 81 S4,5M                    | 116,03 | 115,27 |
| 23 S4,5M                    | 32,94 | 32,18  | 38 S4,5M                    | 54,43 | 53,67  | 52 S4,5M                    | 74,49 | 73,73  | 68 S4,5M                    | 97,41  | 96,65  | 82 S4,5M                    | 117,47 | 116,71 |
| 24 S4,5M                    | 34,38 | 33,62  | 39 S4,5M                    | 55,86 | 55,10  | 53 S4,5M                    | 75,92 | 75,16  | 69 S4,5M                    | 98,84  | 98,08  | 83 S4,5M                    | 118,90 | 118,14 |
| 25 S4,5M                    | 35,81 | 35,05  |                             |       |        | 54 S4,5M                    | 77,35 | 76,59  |                             |        |        | 84 S4,5M                    | 120,33 | 119,57 |
| 26 S4,5M                    | 37,24 | 36,48  | 40 S4,5M                    | 57,30 | 56,54  | 55 S4,5M                    | 78,79 | 78,03  | 70 S4,5M                    | 100,27 | 99,51  | 85 S4,5M                    | 121,76 | 121,00 |
| 27 S4,5M                    | 38,67 | 37,91  | 41 S4,5M                    | 58,73 | 57,97  | 56 S4,5M                    | 80,22 | 79,46  | 71 S4,5M                    | 101,71 | 100,95 | 86 S4,5M                    | 123,20 | 122,44 |
| 28 S4,5M                    | 40,11 | 39,35  | 42 S4,5M                    | 60,16 | 59,40  | 57 S4,5M                    | 81,65 | 80,89  | 72 S4,5M                    | 103,14 | 102,38 | 87 S4,5M                    | 124,63 | 123,87 |
| 29 S4,5M                    | 41,54 | 40,78  | 43 S4,5M                    | 61,60 | 60,84  | 58 S4,5M                    | 83,08 | 82,32  | 73 S4,5M                    | 104,57 | 103,81 | 88 S4,5M                    | 126,06 | 125,30 |
|                             |       |        | 44 S4,5M                    | 63,03 | 62,27  | 59 S4,5M                    | 84,52 | 83,76  | 74 S4,5M                    | 106,01 | 105,25 | 89 S4,5M                    | 127,49 | 126,73 |

S 8 M (8 mm)

mm

| Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. |
|-----------------------------|--------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|
| 18 S8M                      | 45,84  | 44,47  | 53 S8M                      | 134,96 | 133,59 | 89 S8M                      | 226,64 | 225,27 | 124 S8M                     | 315,76 | 314,39 | 160 S8M                     | 407,44 | 400,97 |
| 19 S8M                      | 48,38  | 47,01  | 54 S8M                      | 137,51 | 136,14 |                             |        |        | 125 S8M                     | 318,31 | 316,94 | 161 S8M                     | 409,98 | 408,61 |
|                             |        |        | 55 S8M                      | 140,06 | 138,68 | 90 S8M                      | 229,18 | 227,81 | 126 S8M                     | 320,86 | 319,48 | 162 S8M                     | 412,53 | 411,16 |
| 20 S8M                      | 50,93  | 49,56  | 56 S8M                      | 142,60 | 141,23 | 91 S8M                      | 231,73 | 230,36 | 127 S8M                     | 323,41 | 322,03 | 163 S8M                     | 415,08 | 413,70 |
| 21 S8M                      | 53,48  | 52,11  | 57 S8M                      | 145,15 | 143,78 | 92 S8M                      | 234,28 | 232,90 | 128 S8M                     | 325,95 | 324,58 | 164 S8M                     | 417,62 | 416,25 |
| 22 S8M                      | 56,02  | 54,65  | 58 S8M                      | 147,70 | 146,32 | 93 S8M                      | 236,82 | 235,45 | 129 S8M                     | 328,50 | 327,12 | 165 S8M                     | 420,17 | 418,80 |
| 23 S8M                      | 58,57  | 57,20  | 59 S8M                      | 150,24 | 148,87 | 94 S8M                      | 239,37 | 238,00 |                             |        |        | 166 S8M                     | 422,72 | 421,34 |
| 24 S8M                      | 61,12  | 59,75  |                             |        |        | 95 S8M                      | 241,92 | 250,54 | 130 S8M                     | 331,04 | 329,67 | 167 S8M                     | 425,26 | 423,89 |
| 25 S8M                      | 63,66  | 62,29  | 60 S8M                      | 152,79 | 151,42 | 96 S8M                      | 244,46 | 243,09 | 131 S8M                     | 333,59 | 332,22 | 168 S8M                     | 427,81 | 426,44 |
| 26 S8M                      | 66,21  | 64,84  | 61 S8M                      | 155,34 | 153,96 | 97 S8M                      | 247,01 | 245,64 | 132 S8M                     | 336,14 | 334,76 | 169 S8M                     | 430,25 | 428,88 |
| 27 S8M                      | 68,75  | 67,38  | 62 S8M                      | 157,88 | 156,51 | 98 S8M                      | 249,55 | 248,18 | 133 S8M                     | 338,68 | 337,31 |                             |        |        |
| 28 S8M                      | 71,30  | 70,08  | 63 S8M                      | 160,43 | 159,06 | 99 S8M                      | 252,10 | 250,73 | 134 S8M                     | 341,23 | 339,86 | 170 S8M                     | 432,90 | 431,53 |
| 29 S8M                      | 73,85  | 72,62  | 64 S8M                      | 162,97 | 161,60 |                             |        |        | 135 S8M                     | 343,77 | 342,40 | 171 S8M                     | 435,45 | 434,08 |
|                             |        |        | 65 S8M                      | 165,52 | 164,15 | 100 S8M                     | 254,65 | 253,28 | 136 S8M                     | 346,32 | 344,95 | 172 S8M                     | 437,99 | 436,62 |
| 30 S8M                      | 76,39  | 75,13  | 66 S8M                      | 168,07 | 166,70 | 101 S8M                     | 257,19 | 255,82 | 137 S8M                     | 348,87 | 347,50 | 173 S8M                     | 440,54 | 439,17 |
| 31 S8M                      | 78,94  | 77,65  | 67 S8M                      | 170,61 | 169,24 | 102 S8M                     | 259,74 | 258,37 | 138 S8M                     | 351,41 | 350,04 | 174 S8M                     | 443,09 | 441,72 |
| 32 S8M                      | 81,49  | 80,15  | 68 S8M                      | 173,16 | 171,79 | 103 S8M                     | 262,29 | 260,92 | 139 S8M                     | 353,96 | 352,59 | 175 S8M                     | 445,63 | 444,26 |
| 33 S8M                      | 84,03  | 82,68  | 69 S8M                      | 175,71 | 174,34 | 104 S8M                     | 264,83 | 263,46 |                             |        |        | 176 S8M                     | 448,18 | 446,81 |
| 34 S8M                      | 86,58  | 85,22  |                             |        |        | 105 S8M                     | 267,38 | 266,01 | 140 S8M                     | 356,51 | 355,14 | 177 S8M                     | 450,73 | 449,36 |
| 35 S8M                      | 89,13  | 87,76  | 70 S8M                      | 178,25 | 176,88 | 106 S8M                     | 269,93 | 268,56 | 141 S8M                     | 359,05 | 357,68 | 178 S8M                     | 453,27 | 451,90 |
| 36 S8M                      | 91,67  | 90,30  | 71 S8M                      | 180,80 | 179,43 | 107 S8M                     | 272,47 | 271,10 | 142 S8M                     | 361,60 | 360,23 | 179 S8M                     | 455,82 | 454,45 |
| 37 S8M                      | 94,22  | 92,85  | 72 S8M                      | 183,35 | 181,97 | 108 S8M                     | 275,02 | 273,65 | 143 S8M                     | 364,15 | 362,78 |                             |        |        |
| 38 S8M                      | 96,77  | 95,39  | 73 S8M                      | 185,89 | 184,52 | 109 S8M                     | 277,57 | 276,19 | 144 S8M                     | 366,69 | 365,32 | 180 S8M                     | 458,37 | 456,99 |
| 39 S8M                      | 99,31  | 97,94  | 74 S8M                      | 188,44 | 187,07 |                             |        |        | 145 S8M                     | 369,24 | 367,87 | 181 S8M                     | 460,91 | 459,54 |
|                             |        |        | 75 S8M                      | 190,99 | 189,61 | 110 S8M                     | 280,11 | 278,74 | 146 S8M                     | 371,79 | 370,41 | 182 S8M                     | 463,46 | 462,09 |
| 40 S8M                      | 101,86 | 100,49 | 76 S8M                      | 193,53 | 192,16 | 111 S8M                     | 282,66 | 281,29 | 147 S8M                     | 374,33 | 372,96 | 183 S8M                     | 466,01 | 464,63 |
| 41 S8M                      | 104,41 | 103,03 | 77 S8M                      | 196,08 | 194,71 | 112 S8M                     | 285,21 | 283,83 | 148 S8M                     | 376,88 | 375,51 | 184 S8M                     | 468,55 | 467,18 |
| 42 S8M                      | 106,95 | 105,58 | 78 S8M                      | 198,63 | 197,25 | 113 S8M                     | 287,75 | 286,38 | 149 S8M                     | 379,43 | 378,05 | 185 S8M                     | 471,10 | 469,73 |
| 43 S8M                      | 109,50 | 108,13 | 79 S8M                      | 201,17 | 199,81 | 114 S8M                     | 290,30 | 288,93 |                             |        |        | 186 S8M                     | 473,65 | 472,27 |
| 44 S8M                      | 112,05 | 110,67 |                             |        |        | 115 S8M                     | 292,85 | 291,47 | 150 S8M                     | 381,97 | 380,60 | 187 S8M                     | 476,19 | 474,82 |
| 45 S8M                      | 114,59 | 113,22 | 80 S8M                      | 203,72 | 202,35 | 116 S8M                     | 295,39 | 294,02 | 151 S8M                     | 384,52 | 383,15 | 188 S8M                     | 478,74 | 477,37 |
| 46 S8M                      | 117,14 | 115,77 | 81 S8M                      | 206,26 | 204,89 | 117 S8M                     | 297,94 | 296,57 | 152 S8M                     | 387,06 | 385,69 | 189 S8M                     | 481,28 | 479,91 |
| 47 S8M                      | 119,68 | 118,31 | 82 S8M                      | 208,81 | 207,44 | 118 S8M                     | 300,48 | 299,11 | 153 S8M                     | 389,61 | 388,24 |                             |        |        |
| 48 S8M                      | 122,23 | 120,86 | 83 S8M                      | 211,36 | 209,99 | 119 S8M                     | 303,03 | 301,66 | 154 S8M                     | 392,16 | 390,79 | 190 S8M                     | 483,83 | 482,46 |
| 49 S8M                      | 124,78 | 123,41 | 84 S8M                      | 213,90 | 212,53 |                             |        |        | 155 S8M                     | 394,70 | 393,33 | 191 S8M                     | 486,38 | 485,01 |
|                             |        |        | 85 S8M                      | 216,45 | 215,08 | 120 S8M                     | 305,58 | 304,21 | 156 S8M                     | 397,25 | 395,88 | 192 S8M                     | 488,92 | 487,55 |
| 50 S8M                      | 127,32 | 125,95 | 86 S8M                      | 219,00 | 217,63 | 121 S8M                     | 308,12 | 306,75 | 157 S8M                     | 399,80 | 398,43 |                             |        |        |
| 51 S8M                      | 129,87 | 128,50 | 87 S8M                      | 221,54 | 220,17 | 122 S8M                     | 310,67 | 309,30 | 158 S8M                     | 402,34 | 400,97 |                             |        |        |
| 52 S8M                      | 132,42 | 131,05 | 88 S8M                      | 224,09 | 222,72 | 123 S8M                     | 313,22 | 311,85 | 159 S8M                     | 404,89 | 403,52 |                             |        |        |

S 14 M (14 mm)

mm

| Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. |
|-----------------------------|--------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|
| 28 S14M                     | 124,78 | 121,98 | 60 S14M                     | 267,38 | 264,59 | 93 S14M                     | 414,44 | 411,74 | 126 S14M                    | 561,50 | 558,70 | 159 S14M                    | 708,56 | 705,76 |
| 29 S14M                     | 129,33 | 126,44 | 61 S14M                     | 271,84 | 269,04 | 94 S14M                     | 418,90 | 416,10 | 127 S14M                    | 565,95 | 563,16 | 160 S14M                    | 713,01 | 710,22 |
|                             |        |        | 62 S14M                     | 276,29 | 273,50 | 95 S14M                     | 423,35 | 420,56 | 128 S14M                    | 570,41 | 567,62 | 161 S14M                    | 717,47 | 714,68 |
| 30 S14M                     | 133,69 | 130,90 | 63 S14M                     | 280,75 | 277,95 | 96 S14M                     | 427,81 | 423,01 | 129 S14M                    | 574,87 | 572,07 | 162 S14M                    | 721,93 | 719,13 |
| 31 S14M                     | 138,15 | 135,35 | 64 S14M                     | 285,21 | 282,41 | 97 S14M                     | 432,26 | 429,47 |                             |        |        | 163 S14M                    | 726,38 | 723,59 |
| 32 S14M                     | 142,60 | 139,81 | 65 S14M                     | 289,66 | 286,87 | 98 S14M                     | 436,72 | 433,93 | 130 S14M                    | 579,32 | 576,53 | 164 S14M                    | 730,84 | 728,05 |
| 33 S14M                     | 147,06 | 144,26 | 66 S14M                     | 294,12 | 291,32 | 99 S14M                     | 441,18 | 438,38 | 131 S14M                    | 583,78 | 580,99 | 165 S14M                    | 735,30 | 732,50 |
| 34 S14M                     | 151,51 | 148,72 | 67 S14M                     | 298,57 | 295,78 |                             |        |        | 132 S14M                    | 588,24 | 585,44 | 166 S14M                    | 739,75 | 736,96 |
| 35 S14M                     | 155,98 | 153,18 | 68 S14M                     | 303,03 | 300,24 | 100 S14M                    | 445,63 | 442,84 | 133 S14M                    | 592,69 | 589,90 | 167 S14M                    | 744,21 | 741,41 |
| 36 S14M                     | 160,43 | 157,63 | 69 S14M                     | 307,49 | 304,69 | 101 S14M                    | 450,09 | 447,30 | 134 S14M                    | 597,15 | 594,35 | 168 S14M                    | 748,66 | 745,87 |
| 37 S14M                     | 164,88 | 162,09 |                             |        |        | 102 S14M                    | 454,55 | 451,75 | 135 S14M                    | 601,61 | 598,81 | 169 S14M                    | 753,12 | 750,33 |
| 38 S14M                     | 169,34 | 166,55 | 70 S14M                     | 311,94 | 309,15 | 103 S14M                    | 459,00 | 456,21 | 136 S14M                    | 606,06 | 603,27 |                             |        |        |
| 39 S14M                     | 173,80 | 171,00 | 71 S14M                     | 316,40 | 313,61 | 104 S14M                    | 463,46 | 460,66 | 137 S14M                    | 610,52 | 607,72 | 170 S14M                    | 757,58 | 754,78 |
|                             |        |        | 72 S14M                     | 320,86 | 318,06 | 105 S14M                    | 467,92 | 465,12 | 138 S14M                    | 614,97 | 612,18 | 171 S14M                    | 762,03 | 759,24 |
| 40 S14M                     | 178,25 | 175,46 | 73 S14M                     | 325,31 | 322,52 | 106 S14M                    | 472,37 | 469,58 | 139 S14M                    | 619,43 | 616,64 | 172 S14M                    | 766,49 | 763,70 |
| 41 S14M                     | 182,71 | 179,92 | 74 S14M                     | 329,77 | 326,97 | 107 S14M                    | 476,83 | 474,03 |                             |        |        | 173 S14M                    | 770,95 | 768,15 |
| 42 S14M                     | 187,17 | 184,37 | 75 S14M                     | 334,22 | 331,43 | 108 S14M                    | 481,28 | 478,49 | 140 S14M                    | 623,59 | 621,09 | 174 S14M                    | 775,40 | 772,61 |
| 43 S14M                     | 191,62 | 188,83 | 76 S14M                     | 338,68 | 335,89 | 109 S14M                    | 485,74 | 482,95 | 141 S14M                    | 628,34 | 625,55 | 175 S14M                    | 779,86 | 777,06 |
| 44 S14M                     | 196,08 | 193,28 | 77 S14M                     | 343,14 | 340,34 |                             |        |        | 142 S14M                    | 632,80 | 630,01 | 176 S14M                    | 784,33 | 781,52 |
| 45 S14M                     | 200,53 | 197,74 | 78 S14M                     | 347,59 | 344,80 | 110 S14M                    | 490,20 | 487,40 | 143 S14M                    | 637,26 | 634,46 | 177 S14M                    | 788,77 | 785,98 |
| 46 S14M                     | 204,99 | 202,30 | 79 S14M                     | 352,05 | 349,26 | 111 S14M                    | 494,65 | 491,86 | 144 S14M                    | 641,71 | 638,92 | 178 S14M                    | 793,23 | 790,43 |
| 47 S14M                     | 209,45 | 206,65 |                             |        |        | 112 S14M                    | 499,11 | 496,32 | 145 S14M                    | 646,17 | 643,37 | 179 S14M                    | 797,68 | 794,89 |
| 48 S14M                     | 213,90 | 211,11 | 80 S14M                     | 356,51 | 353,71 | 113 S14M                    | 503,57 | 500,77 | 146 S14M                    | 650,63 | 647,83 | 180 S14M                    | 802,14 | 799,35 |
| 49 S14M                     | 218,36 | 215,57 | 81 S14M                     | 360,96 | 358,17 | 114 S14M                    | 508,02 | 505,23 | 147 S14M                    | 655,08 | 652,29 | 181 S14M                    | 806,60 | 803,80 |
|                             |        |        | 82 S14M                     | 365,42 | 362,63 | 115 S14M                    | 512,48 | 509,68 | 148 S14M                    | 659,54 | 656,74 | 182 S14M                    | 811,05 | 808,26 |
| 50 S14M                     | 222,82 | 220,02 | 83 S14M                     | 369,88 | 367,08 | 116 S14M                    | 516,93 | 514,14 | 149 S14M                    | 663,99 | 661,20 | 183 S14M                    | 815,51 | 812,72 |
| 51 S14M                     | 227,27 | 224,48 | 84 S14M                     | 374,33 | 371,54 | 117 S14M                    | 521,39 | 518,60 |                             |        |        | 184 S14M                    | 819,97 | 817,17 |
| 52 S14M                     | 231,73 | 228,94 | 85 S14M                     | 378,79 | 375,99 | 118 S14M                    | 525,85 | 523,05 | 150 S14M                    | 668,45 | 665,66 | 185 S14M                    | 824,42 | 821,63 |
| 53 S14M                     | 236,19 | 233,39 | 86 S14M                     | 383,24 | 380,45 | 119 S14M                    | 530,30 | 527,51 | 151 S14M                    | 672,91 | 670,11 | 186 S14M                    | 828,88 | 826,08 |
| 54 S14M                     | 240,64 | 237,85 | 87 S14M                     | 387,70 | 384,91 |                             |        |        | 152 S14M                    | 677,36 | 674,57 | 187 S14M                    | 833,33 | 830,54 |
| 55 S14M                     | 245,10 | 242,30 | 88 S14M                     | 392,16 | 389,36 | 120 S14M                    | 534,76 | 531,97 | 153 S14M                    | 681,82 | 679,03 | 188 S14M                    | 837,79 | 835,00 |
| 56 S14M                     | 249,55 | 246,76 | 89 S14M                     | 396,61 | 393,82 | 121 S14M                    | 539,22 | 536,42 | 154 S14M                    | 686,28 | 683,48 | 189 S14M                    | 842,25 | 839,45 |
| 57 S14M                     | 254,02 | 251,22 | 90 S14M                     | 401,07 | 398,28 | 122 S14M                    | 543,67 | 540,88 | 155 S14M                    | 690,73 | 687,94 |                             |        |        |
| 58 S14M                     | 258,47 | 255,57 | 91 S14M                     | 405,53 | 402,73 | 123 S14M                    | 548,13 | 545,34 | 156 S14M                    | 695,19 | 692,39 | 190 S14M                    | 846,70 | 843,91 |
| 59 S14M                     | 262,92 | 260,13 | 92 S14M                     | 409,98 | 407,19 | 124 S14M                    | 552,59 | 549,79 | 157 S14M                    | 699,64 | 696,85 | 191 S14M                    | 851,16 | 848,37 |
|                             |        |        | 93 S14M                     |        |        | 125 S14M                    | 557,04 | 554,25 | 158 S14M                    | 704,10 | 701,31 | 192 S14M                    | 855,62 | 852,82 |

# TOP DRIVE® HTD

## 5 M (5 mm)

mm

| Type<br>Type<br>Typ<br>Tipo | Ø pr. | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. |
|-----------------------------|-------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|
| 13 - 5M                     | 20,69 | 19,55  | 43 - 5M                     | 68,44  | 67,30  | 73 - 5M                     | 116,18 | 115,04 | 103 - 5M                    | 163,93 | 162,79 | 133 - 5M                    | 211,68 | 210,54 |
| 14 - 5M                     | 22,28 | 21,14  | 44 - 5M                     | 70,03  | 68,89  | 74 - 5M                     | 117,77 | 116,63 | 104 - 5M                    | 165,52 | 164,38 | 134 - 5M                    | 213,27 | 212,13 |
| 15 - 5M                     | 23,87 | 22,73  | 45 - 5M                     | 71,62  | 70,48  | 75 - 5M                     | 119,37 | 118,23 | 105 - 5M                    | 167,11 | 165,97 | 135 - 5M                    | 214,86 | 213,72 |
| 16 - 5M                     | 25,46 | 24,32  | 46 - 5M                     | 73,21  | 72,07  | 76 - 5M                     | 120,96 | 119,82 | 106 - 5M                    | 168,70 | 167,56 | 136 - 5M                    | 216,45 | 215,31 |
| 17 - 5M                     | 27,06 | 25,92  | 47 - 5M                     | 74,80  | 73,66  | 77 - 5M                     | 122,55 | 121,41 | 107 - 5M                    | 170,30 | 169,16 | 137 - 5M                    | 218,04 | 216,90 |
| 18 - 5M                     | 28,65 | 27,51  | 48 - 5M                     | 76,39  | 75,25  | 78 - 5M                     | 124,14 | 123,00 | 108 - 5M                    | 171,89 | 170,75 | 138 - 5M                    | 219,63 | 218,49 |
| 19 - 5M                     | 30,24 | 29,10  | 49 - 5M                     | 77,99  | 76,85  | 79 - 5M                     | 125,73 | 124,59 | 109 - 5M                    | 173,48 | 172,34 | 139 - 5M                    | 221,23 | 220,09 |
| 20 - 5M                     | 31,83 | 30,69  | 50 - 5M                     | 79,58  | 78,44  | 80 - 5M                     | 127,32 | 126,18 | 110 - 5M                    | 175,07 | 173,93 | 140 - 5M                    | 222,82 | 221,68 |
| 21 - 5M                     | 33,42 | 32,28  | 51 - 5M                     | 81,17  | 80,03  | 81 - 5M                     | 128,92 | 127,78 | 111 - 5M                    | 176,66 | 175,52 | 141 - 5M                    | 224,41 | 223,27 |
| 22 - 5M                     | 35,01 | 33,87  | 52 - 5M                     | 82,76  | 81,62  | 82 - 5M                     | 130,57 | 129,43 | 112 - 5M                    | 178,25 | 177,11 | 142 - 5M                    | 226,00 | 224,86 |
| 23 - 5M                     | 36,61 | 35,47  | 53 - 5M                     | 84,35  | 83,21  | 83 - 5M                     | 132,10 | 130,96 | 113 - 5M                    | 179,85 | 178,71 | 143 - 5M                    | 227,59 | 226,45 |
| 24 - 5M                     | 38,20 | 37,06  | 54 - 5M                     | 85,94  | 84,80  | 84 - 5M                     | 133,69 | 132,55 | 114 - 5M                    | 181,44 | 180,30 | 144 - 5M                    | 229,18 | 228,04 |
| 25 - 5M                     | 39,79 | 38,65  | 55 - 5M                     | 87,54  | 86,40  | 85 - 5M                     | 135,28 | 134,14 | 115 - 5M                    | 183,03 | 181,89 | 145 - 5M                    | 230,77 | 229,63 |
| 26 - 5M                     | 41,38 | 40,24  | 56 - 5M                     | 89,13  | 87,99  | 86 - 5M                     | 136,87 | 135,73 | 116 - 5M                    | 184,62 | 183,48 | 146 - 5M                    | 232,37 | 231,23 |
| 27 - 5M                     | 42,97 | 41,83  | 57 - 5M                     | 90,72  | 89,58  | 87 - 5M                     | 138,46 | 137,32 | 117 - 5M                    | 186,21 | 185,07 | 147 - 5M                    | 233,96 | 232,82 |
| 28 - 5M                     | 44,56 | 43,42  | 58 - 5M                     | 92,31  | 91,17  | 88 - 5M                     | 140,06 | 138,92 | 118 - 5M                    | 187,80 | 186,66 | 148 - 5M                    | 235,55 | 234,41 |
| 29 - 5M                     | 46,15 | 45,01  | 59 - 5M                     | 93,90  | 92,76  | 89 - 5M                     | 141,65 | 140,51 | 119 - 5M                    | 189,39 | 188,25 | 149 - 5M                    | 237,14 | 236,00 |
| 30 - 5M                     | 47,75 | 46,61  | 60 - 5M                     | 95,49  | 94,35  | 90 - 5M                     | 143,24 | 142,10 | 120 - 5M                    | 190,99 | 189,85 | 150 - 5M                    | 238,73 | 237,59 |
| 31 - 5M                     | 49,34 | 48,20  | 61 - 5M                     | 97,08  | 95,94  | 91 - 5M                     | 144,83 | 143,69 | 121 - 5M                    | 192,58 | 191,44 | 151 - 5M                    | 240,32 | 239,18 |
| 32 - 5M                     | 50,93 | 49,79  | 62 - 5M                     | 98,68  | 97,54  | 92 - 5M                     | 146,42 | 145,28 | 122 - 5M                    | 194,17 | 193,03 | 152 - 5M                    | 241,92 | 240,78 |
| 33 - 5M                     | 52,52 | 51,38  | 63 - 5M                     | 100,27 | 99,13  | 93 - 5M                     | 148,01 | 146,87 | 123 - 5M                    | 195,76 | 194,62 | 153 - 5M                    | 243,51 | 242,37 |
| 34 - 5M                     | 54,11 | 52,97  | 64 - 5M                     | 101,86 | 100,72 | 94 - 5M                     | 149,61 | 148,47 | 124 - 5M                    | 197,35 | 196,21 | 154 - 5M                    | 245,10 | 243,96 |
| 35 - 5M                     | 55,70 | 54,56  | 65 - 5M                     | 103,45 | 102,31 | 95 - 5M                     | 151,20 | 150,06 | 125 - 5M                    | 198,94 | 197,80 | 155 - 5M                    | 246,69 | 245,55 |
| 36 - 5M                     | 57,30 | 56,16  | 66 - 5M                     | 105,04 | 103,90 | 96 - 5M                     | 152,79 | 151,65 | 126 - 5M                    | 200,54 | 199,40 | 156 - 5M                    | 248,28 | 247,14 |
| 37 - 5M                     | 58,89 | 57,75  | 67 - 5M                     | 106,63 | 105,49 | 97 - 5M                     | 154,38 | 153,24 | 127 - 5M                    | 202,13 | 200,99 | 157 - 5M                    | 249,87 | 248,73 |
| 38 - 5M                     | 60,48 | 59,34  | 68 - 5M                     | 108,23 | 107,09 | 98 - 5M                     | 155,97 | 154,83 | 128 - 5M                    | 203,72 | 202,58 | 158 - 5M                    | 251,46 | 250,32 |
| 39 - 5M                     | 62,07 | 60,93  | 69 - 5M                     | 109,82 | 108,68 | 99 - 5M                     | 157,56 | 156,42 | 129 - 5M                    | 205,31 | 204,17 | 159 - 5M                    | 253,06 | 251,92 |
| 40 - 5M                     | 63,66 | 62,52  | 70 - 5M                     | 111,46 | 110,27 | 100 - 5M                    | 159,15 | 158,01 | 130 - 5M                    | 206,90 | 205,76 | 160 - 5M                    | 254,65 | 253,51 |
| 41 - 5M                     | 62,25 | 64,11  | 71 - 5M                     | 113,06 | 111,92 | 101 - 5M                    | 160,75 | 159,61 | 131 - 5M                    | 208,49 | 207,35 |                             |        |        |
| 42 - 5M                     | 66,85 | 65,71  | 72 - 5M                     | 114,59 | 113,45 | 102 - 5M                    | 162,34 | 161,20 | 132 - 5M                    | 210,08 | 208,94 |                             |        |        |

## 8 M (8 mm)

mm

| Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. | Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. |
|-----------------------------|--------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|-----------------------------|--------|--------|
| 18 - 8M                     | 45,84  | 44,47  | 53 - 8M                     | 134,96 | 133,59 | 89 - 8M                     | 226,64 | 225,27 | 124 - 8M                    | 315,76 | 314,39 | 160 - 8M                    | 407,44 | 400,97 |
| 19 - 8M                     | 48,38  | 47,01  | 54 - 8M                     | 137,51 | 136,14 | 90 - 8M                     | 229,18 | 227,81 | 125 - 8M                    | 318,31 | 316,94 | 161 - 8M                    | 409,98 | 408,61 |
| 20 - 8M                     | 50,93  | 49,56  | 55 - 8M                     | 140,06 | 138,68 | 91 - 8M                     | 231,73 | 230,36 | 126 - 8M                    | 320,86 | 319,49 | 162 - 8M                    | 412,53 | 411,16 |
| 21 - 8M                     | 53,48  | 52,11  | 56 - 8M                     | 142,60 | 141,23 | 92 - 8M                     | 234,28 | 232,90 | 127 - 8M                    | 323,41 | 322,03 | 163 - 8M                    | 415,08 | 413,70 |
| 22 - 8M                     | 56,02  | 54,65  | 57 - 8M                     | 145,15 | 143,78 | 93 - 8M                     | 236,82 | 235,45 | 128 - 8M                    | 325,95 | 324,58 | 164 - 8M                    | 417,62 | 416,25 |
| 23 - 8M                     | 58,57  | 57,20  | 58 - 8M                     | 147,70 | 146,32 | 94 - 8M                     | 239,37 | 238,00 | 129 - 8M                    | 328,50 | 327,12 | 165 - 8M                    | 420,17 | 418,80 |
| 24 - 8M                     | 61,12  | 59,75  | 59 - 8M                     | 150,24 | 148,87 | 95 - 8M                     | 241,92 | 240,54 | 130 - 8M                    | 331,04 | 329,67 | 166 - 8M                    | 422,72 | 421,34 |
| 25 - 8M                     | 63,66  | 62,29  | 60 - 8M                     | 152,79 | 151,42 | 96 - 8M                     | 244,46 | 243,09 | 131 - 8M                    | 333,59 | 332,22 | 167 - 8M                    | 425,26 | 423,89 |
| 26 - 8M                     | 66,21  | 64,84  | 61 - 8M                     | 155,34 | 153,96 | 97 - 8M                     | 247,01 | 245,64 | 132 - 8M                    | 336,14 | 334,76 | 168 - 8M                    | 427,81 | 426,44 |
| 27 - 8M                     | 68,75  | 67,38  | 62 - 8M                     | 157,88 | 156,51 | 98 - 8M                     | 249,55 | 248,18 | 133 - 8M                    | 338,68 | 337,31 | 169 - 8M                    | 430,25 | 428,98 |
| 28 - 8M                     | 71,30  | 70,08  | 63 - 8M                     | 160,43 | 159,06 | 99 - 8M                     | 252,10 | 250,73 | 134 - 8M                    | 341,23 | 339,86 | 170 - 8M                    | 432,90 | 431,53 |
| 29 - 8M                     | 73,85  | 72,62  | 64 - 8M                     | 162,97 | 161,60 | 100 - 8M                    | 254,65 | 253,28 | 135 - 8M                    | 343,77 | 342,40 | 171 - 8M                    | 435,45 | 434,08 |
| 30 - 8M                     | 76,39  | 75,13  | 65 - 8M                     | 165,52 | 164,15 | 101 - 8M                    | 257,19 | 255,82 | 136 - 8M                    | 346,32 | 344,95 | 172 - 8M                    | 437,99 | 436,62 |
| 31 - 8M                     | 78,94  | 77,65  | 66 - 8M                     | 168,07 | 166,70 | 102 - 8M                    | 259,74 | 258,37 | 137 - 8M                    | 348,87 | 347,50 | 173 - 8M                    | 440,54 | 439,17 |
| 32 - 8M                     | 81,49  | 80,15  | 67 - 8M                     | 170,61 | 169,24 | 103 - 8M                    | 262,29 | 260,92 | 138 - 8M                    | 351,41 | 350,04 | 174 - 8M                    | 443,09 | 441,72 |
| 33 - 8M                     | 84,03  | 82,68  | 68 - 8M                     | 173,16 | 171,79 | 104 - 8M                    | 264,83 | 263,46 | 139 - 8M                    | 353,96 | 352,59 | 175 - 8M                    | 445,63 | 444,26 |
| 34 - 8M                     | 86,58  | 85,22  | 69 - 8M                     | 175,71 | 174,34 | 105 - 8M                    | 267,38 | 266,01 | 140 - 8M                    | 356,51 | 355,14 | 176 - 8M                    | 448,18 | 446,81 |
| 35 - 8M                     | 89,13  | 87,76  | 70 - 8M                     | 178,25 | 176,88 | 106 - 8M                    | 269,93 | 268,56 | 141 - 8M                    | 359,05 | 357,68 | 177 - 8M                    | 450,73 | 449,36 |
| 36 - 8M                     | 91,67  | 90,30  | 71 - 8M                     | 180,80 | 179,43 | 107 - 8M                    | 272,47 | 271,10 | 142 - 8M                    | 361,60 | 360,23 | 178 - 8M                    | 453,27 | 451,90 |
| 37 - 8M                     | 94,22  | 92,85  | 72 - 8M                     | 183,35 | 181,97 | 108 - 8M                    | 275,02 | 273,65 | 143 - 8M                    | 364,15 | 362,78 | 179 - 8M                    | 455,82 | 454,45 |
| 38 - 8M                     | 96,77  | 95,39  | 73 - 8M                     | 185,89 | 184,52 | 109 - 8M                    | 277,57 | 276,19 | 144 - 8M                    | 366,69 | 365,32 | 180 - 8M                    | 458,37 | 456,99 |
| 39 - 8M                     | 99,31  | 97,94  | 74 - 8M                     | 188,44 | 187,07 | 110 - 8M                    | 280,11 | 278,74 | 145 - 8M                    | 369,24 | 367,87 | 181 - 8M                    | 460,91 | 459,54 |
| 40 - 8M                     | 101,86 | 100,49 | 75 - 8M                     | 190,99 | 189,61 | 111 - 8M                    | 282,66 | 281,29 | 146 - 8M                    | 371,79 | 370,42 | 182 - 8M                    | 463,46 | 462,09 |
| 41 - 8M                     | 104,41 | 103,03 | 76 - 8M                     | 193,53 | 192,16 | 112 - 8M                    | 285,21 | 283,83 | 147 - 8M                    | 374,33 | 372,96 | 183 - 8M                    | 466,01 | 464,63 |
| 42 - 8M                     | 106,95 | 105,58 | 77 - 8M                     | 196,08 | 194,71 | 113 - 8M                    | 287,75 | 286,38 | 148 - 8M                    | 376,88 | 375,51 | 184 - 8M                    | 468,55 | 467,18 |
| 43 - 8M                     | 109,50 | 108,13 | 78 - 8M                     | 198,63 | 197,25 | 114 - 8M                    | 290,30 | 288,93 | 149 - 8M                    | 379,43 | 378,05 | 185 - 8M                    | 471,10 | 469,73 |
| 44 - 8M                     | 112,05 | 110,67 | 79 - 8M                     | 201,17 | 199,81 | 115 - 8M                    | 292,85 | 291,47 | 150 - 8M                    | 381,97 | 380,60 | 186 - 8M                    | 473,65 | 472,27 |
| 45 - 8M                     | 114,59 | 113,22 | 80 - 8M                     | 203,72 | 202,35 | 116 - 8M                    | 295,39 | 294,02 | 151 - 8M                    | 384,52 | 383,15 | 187 - 8M                    | 476,19 | 474,82 |
| 46 - 8M                     | 117,14 | 115,77 | 81 - 8M                     | 206,26 | 204,89 | 117 - 8M                    | 297,94 | 296,57 | 152 - 8M                    | 387,06 | 385,70 | 188 - 8M                    | 478,74 | 477,37 |
| 47 - 8M                     | 119,68 | 118,31 | 82 - 8M                     | 208,81 | 207,44 | 118 - 8M                    | 300,48 | 299,11 | 153 - 8M                    | 389,61 | 388,24 | 189 - 8M                    | 481,28 | 479,91 |
| 48 - 8M                     | 122,23 | 120,86 | 83 - 8M                     | 211,36 | 209,99 | 119 - 8M                    | 303,03 | 301,66 | 154 - 8M                    | 392,16 | 390,79 | 190 - 8M                    | 483,83 | 482,46 |
| 49 - 8M                     | 124,78 | 123,41 | 84 - 8M                     | 213,90 | 212,53 | 120 - 8M                    | 305,58 | 304,21 | 155 - 8M                    | 394,70 | 393,33 | 191 - 8M                    | 486,38 | 485,01 |
| 50 - 8M                     | 127,32 | 125,95 | 85 - 8M                     | 216,45 | 215,08 | 121 - 8M                    | 308,12 | 306,75 | 156 - 8M                    | 397,25 | 395,88 | 192 - 8M                    | 488,92 | 487,55 |
| 51 - 8M                     | 129,87 | 128,50 | 86 - 8M                     | 219,00 | 217,63 | 122 - 8M                    | 310,67 | 309,30 | 157 - 8M                    | 399,80 | 398,43 |                             |        |        |
| 52 - 8M                     | 132,42 | 131,05 | 87 - 8M                     | 221,54 | 220,17 | 123 - 8M                    | 313,22 | 311,85 | 158 - 8M                    | 402,34 | 400,97 |                             |        |        |
|                             |        |        | 88 - 8M                     | 224,09 | 222,72 |                             |        |        | 159 - 8M                    | 404,89 | 403,52 |                             |        |        |

## 14 M (14 mm)

mm

| Type<br>Type<br>Typ<br>Tipo | Ø pr.     | Ø est.   | Type<br>Type<br>Typ<br>Tipo | Ø pr.     | Ø est.    | Type<br>Type<br>Typ<br>Tipo | Ø pr.     | Ø est.    | Type<br>Type<br>Typ<br>Tipo | Ø pr.     | Ø est.    | Type<br>Type<br>Typ<br>Tipo | Ø pr.     | Ø est.    |           |           |        |
|-----------------------------|-----------|----------|-----------------------------|-----------|-----------|-----------------------------|-----------|-----------|-----------------------------|-----------|-----------|-----------------------------|-----------|-----------|-----------|-----------|--------|
| 28 - 14M                    | 124,78    | 121,98   | 60 - 14M                    | 267,38    | 264,59    | 93 - 14M                    | 414,44    | 411,74    | 126 - 14M                   | 561,50    | 558,70    | 159 - 14M                   | 708,56    | 705,76    |           |           |        |
| 29 - 14M                    | 129,33    | 126,44   | 61 - 14M                    | 271,84    | 269,04    | 94 - 14M                    | 418,90    | 416,10    | 127 - 14M                   | 565,95    | 563,16    | 160 - 14M                   | 713,01    | 710,22    |           |           |        |
| 30 - 14M                    | 133,69    | 130,90   | 62 - 14M                    | 276,29    | 273,50    | 95 - 14M                    | 423,35    | 420,56    | 128 - 14M                   | 570,41    | 567,62    | 161 - 14M                   | 717,47    | 714,68    |           |           |        |
|                             | 138,15    | 135,35   | 63 - 14M                    | 280,75    | 277,95    | 96 - 14M                    | 427,81    | 423,01    | 129 - 14M                   | 574,87    | 572,07    | 162 - 14M                   | 721,93    | 719,13    |           |           |        |
|                             | 142,60    | 139,81   | 64 - 14M                    | 285,21    | 282,41    | 97 - 14M                    | 432,26    | 429,47    | 130 - 14M                   | 479,32    | 576,53    | 163 - 14M                   | 726,38    | 723,59    |           |           |        |
|                             | 147,06    | 144,26   | 65 - 14M                    | 289,66    | 286,87    | 98 - 14M                    | 436,62    | 433,93    |                             | 131 - 14M | 583,78    | 580,99                      | 164 - 14M | 730,84    | 728,05    |           |        |
|                             | 151,51    | 148,72   | 66 - 14M                    | 294,12    | 291,32    | 99 - 14M                    | 441,18    | 438,38    |                             | 132 - 14M | 588,24    | 585,44                      | 165 - 14M | 735,30    | 732,50    |           |        |
|                             | 155,98    | 153,18   | 67 - 14M                    | 298,57    | 295,78    | 100 - 14M                   | 445,63    | 442,84    |                             | 133 - 14M | 592,69    | 589,90                      | 166 - 14M | 739,75    | 736,96    |           |        |
|                             | 160,43    | 157,63   | 68 - 14M                    | 303,03    | 300,24    |                             | 101 - 14M | 450,09    |                             | 447,30    | 134 - 14M | 597,15                      | 594,35    | 167 - 14M | 744,21    | 741,41    |        |
|                             | 164,88    | 162,09   | 69 - 14M                    | 307,49    | 304,69    |                             | 102 - 14M | 454,55    |                             | 451,75    | 135 - 14M | 601,61                      | 598,81    | 168 - 14M | 748,66    | 745,87    |        |
|                             | 169,34    | 166,55   | 70 - 14M                    | 311,94    | 309,15    |                             | 103 - 14M | 459,00    |                             | 456,21    | 136 - 14M | 606,06                      | 603,27    | 169 - 14M | 753,12    | 750,33    |        |
| 173,80                      | 171,00    | 71 - 14M |                             | 316,40    | 313,61    |                             | 104 - 14M | 463,46    |                             | 460,66    | 137 - 14M | 610,52                      | 607,72    | 170 - 14M | 757,58    | 754,78    |        |
| 40 - 14M                    | 178,25    | 175,46   |                             | 72 - 14M  | 320,86    |                             | 318,06    | 105 - 14M |                             | 467,92    | 465,12    | 138 - 14M                   | 614,97    |           | 612,18    | 171 - 14M | 762,03 |
|                             | 182,71    | 179,92   |                             | 73 - 14M  | 325,31    |                             | 322,52    | 106 - 14M | 472,37                      | 469,58    | 139 - 14M | 619,43                      | 616,64    |           | 172 - 14M | 766,49    | 763,70 |
|                             | 187,17    | 184,37   |                             | 74 - 14M  | 329,77    |                             | 326,97    | 107 - 14M | 476,83                      | 474,03    | 140 - 14M | 623,59                      | 621,09    |           | 173 - 14M | 770,95    | 768,15 |
|                             | 191,62    | 188,83   |                             | 75 - 14M  | 334,22    |                             | 331,43    | 108 - 14M | 481,28                      | 478,49    |           | 141 - 14M                   | 628,34    |           | 625,55    | 174 - 14M | 775,40 |
|                             | 196,08    | 193,28   |                             | 76 - 14M  | 338,68    | 335,89                      | 109 - 14M | 485,74    | 482,95                      | 142 - 14M |           | 632,80                      | 630,01    |           | 175 - 14M | 779,86    | 777,06 |
|                             | 200,53    | 197,74   |                             | 77 - 14M  | 343,14    | 340,34                      | 110 - 14M | 490,20    | 487,40                      | 143 - 14M |           | 637,26                      | 634,46    |           | 176 - 14M | 784,33    | 781,52 |
|                             | 204,99    | 202,30   |                             | 78 - 14M  | 347,59    | 344,80                      |           | 111 - 14M | 494,65                      | 491,86    |           | 144 - 14M                   | 641,71    |           | 638,92    | 177 - 14M | 788,77 |
|                             | 209,45    | 206,65   | 79 - 14M                    | 352,05    | 349,26    | 112 - 14M                   |           | 499,11    | 496,32                      | 145 - 14M |           | 646,17                      | 643,37    |           | 178 - 14M | 793,23    | 790,43 |
|                             | 213,90    | 211,11   | 80 - 14M                    | 356,51    | 353,71    | 113 - 14M                   |           | 503,57    | 500,77                      | 146 - 14M |           | 650,63                      | 647,83    | 179 - 14M | 797,68    | 794,89    |        |
| 218,36                      | 215,57    | 81 - 14M |                             | 360,96    | 358,17    | 114 - 14M                   |           | 508,02    | 505,23                      | 147 - 14M |           | 655,08                      | 652,29    | 180 - 14M | 802,14    | 799,35    |        |
| 50 - 14M                    | 222,82    | 220,02   |                             | 82 - 14M  | 365,42    | 362,63                      |           | 115 - 14M | 512,48                      | 509,68    |           | 148 - 14M                   | 659,54    | 656,74    | 181 - 14M | 806,60    | 803,80 |
|                             | 227,27    | 224,48   |                             | 83 - 14M  | 369,88    | 367,08                      |           | 116 - 14M | 516,93                      | 514,14    | 149 - 14M | 663,99                      | 661,20    | 182 - 14M | 811,05    | 808,26    |        |
|                             | 231,73    | 228,94   |                             | 84 - 14M  | 374,33    | 371,54                      |           | 117 - 14M | 521,39                      | 518,60    | 150 - 14M | 668,45                      | 665,66    | 183 - 14M | 815,51    | 812,72    |        |
|                             | 236,19    | 233,39   |                             | 85 - 14M  | 378,79    | 375,99                      |           | 118 - 14M | 525,85                      | 523,05    |           | 151 - 14M                   | 672,91    | 670,11    | 184 - 14M | 819,97    | 817,17 |
|                             | 240,64    | 237,85   |                             | 86 - 14M  | 383,24    | 380,45                      | 119 - 14M | 530,30    | 527,51                      | 152 - 14M |           | 677,36                      | 674,57    | 185 - 14M | 824,42    | 821,63    |        |
|                             | 245,10    | 242,30   |                             | 87 - 14M  | 387,70    | 384,91                      | 120 - 14M | 534,76    | 531,97                      | 153 - 14M |           | 681,82                      | 679,03    | 186 - 14M | 828,88    | 826,08    |        |
|                             | 249,55    | 246,76   |                             | 88 - 14M  | 392,16    | 389,36                      |           | 121 - 14M | 539,22                      | 536,42    |           | 154 - 14M                   | 686,28    | 683,48    | 187 - 14M | 833,33    | 830,54 |
|                             | 254,02    | 251,22   | 89 - 14M                    | 396,61    | 393,82    | 122 - 14M                   |           | 543,67    | 540,88                      | 155 - 14M |           | 690,73                      | 687,94    | 188 - 14M | 837,79    | 835,00    |        |
|                             | 258,47    | 255,67   | 90 - 14M                    | 401,07    | 398,28    | 123 - 14M                   |           | 548,13    | 545,34                      | 156 - 14M |           | 695,19                      | 692,39    | 189 - 14M | 842,25    | 839,45    |        |
| 262,92                      | 260,13    | 91 - 14M |                             | 405,53    | 402,73    | 124 - 14M                   |           | 552,59    | 549,79                      | 157 - 14M |           | 699,64                      | 696,85    | 190 - 14M | 846,70    | 843,91    |        |
| 55 - 14M                    | 267,38    | 264,59   |                             | 92 - 14M  | 409,98    | 407,19                      |           | 125 - 14M | 557,04                      | 554,25    |           | 158 - 14M                   | 704,10    | 701,31    | 191 - 14M | 851,16    | 848,37 |
|                             | 56 - 14M  | 271,84   |                             | 269,04    | 93 - 14M  | 414,44                      |           | 411,74    | 126 - 14M                   | 561,50    | 558,70    | 159 - 14M                   | 708,56    | 705,76    |           |           |        |
|                             |           | 276,29   |                             | 273,50    |           | 418,90                      |           | 416,10    |                             | 565,95    | 563,16    |                             | 713,01    | 710,22    |           |           |        |
|                             |           | 280,75   |                             | 277,95    |           | 423,35                      |           | 420,56    |                             | 570,41    | 567,62    |                             | 717,47    | 714,68    |           |           |        |
|                             |           | 285,21   |                             | 282,41    |           | 427,81                      | 423,01    | 574,87    |                             | 572,07    | 721,93    |                             | 719,13    |           |           |           |        |
|                             |           | 289,66   |                             | 286,87    |           | 432,26                      | 429,47    | 130 - 14M |                             | 479,32    | 576,53    |                             | 726,38    | 723,59    |           |           |        |
|                             |           | 294,12   |                             | 291,32    |           | 436,62                      | 433,93    |           |                             | 131 - 14M | 583,78    |                             | 580,99    | 730,84    | 728,05    |           |        |
|                             |           | 298,57   | 295,78                      | 441,18    |           | 438,38                      | 132 - 14M |           |                             | 588,24    | 585,44    |                             | 735,30    | 732,50    |           |           |        |
|                             |           | 303,03   | 300,24                      | 445,63    |           | 442,84                      | 133 - 14M |           |                             | 592,69    | 589,90    |                             | 739,75    | 736,96    |           |           |        |
| 307,49                      |           | 304,69   | 450,09                      | 447,30    |           | 134 - 14M                   | 597,15    |           |                             | 594,35    | 744,21    |                             | 741,41    |           |           |           |        |
| 70 - 14M                    | 311,94    | 309,15   | 454,55                      | 451,75    | 135 - 14M | 601,61                      | 598,81    |           | 748,66                      | 745,87    |           |                             |           |           |           |           |        |
|                             | 316,40    | 313,61   | 459,00                      | 456,21    | 136 - 14M | 606,06                      | 603,27    |           | 753,12                      | 750,33    |           |                             |           |           |           |           |        |
|                             | 320,86    | 318,06   | 463,46                      | 460,66    | 137 - 14M | 610,52                      | 607,72    |           | 757,58                      | 754,78    |           |                             |           |           |           |           |        |
|                             | 325,31    | 322,52   | 467,92                      | 465,12    | 138 - 14M | 614,97                      | 612,18    |           | 762,03                      | 759,24    |           |                             |           |           |           |           |        |
|                             | 329,77    | 326,97   | 472,37                      | 469,58    | 139 - 14M | 619,43                      | 616,64    | 766,49    | 763,70                      |           |           |                             |           |           |           |           |        |
|                             | 334,22    | 331,43   | 476,83                      | 474,03    | 140 - 14M | 623,59                      | 621,09    | 770,95    | 768,15                      |           |           |                             |           |           |           |           |        |
|                             | 338,68    | 335,89   | 481,28                      | 478,49    |           | 141 - 14M                   | 628,34    | 625,55    | 775,40                      | 772,61    |           |                             |           |           |           |           |        |
|                             | 343,14    | 340,34   | 485,74                      | 482,95    |           | 142 - 14M                   | 632,80    | 630,01    | 779,86                      | 777,06    |           |                             |           |           |           |           |        |
|                             | 347,59    | 344,80   | 490,20                      | 487,40    |           | 143 - 14M                   | 637,26    | 634,46    | 784,33                      | 781,52    |           |                             |           |           |           |           |        |
| 352,05                      | 349,26    | 494,65   | 491,86                      | 144 - 14M |           | 641,71                      | 638,92    | 788,77    | 785,98                      |           |           |                             |           |           |           |           |        |
| 80 - 14M                    | 356,51    | 353,71   | 499,11                      | 496,32    |           | 145 - 14M                   | 646,17    | 643,37    | 793,23                      | 790,43    |           |                             |           |           |           |           |        |
|                             | 360,96    | 358,17   | 503,57                      | 500,77    |           | 146 - 14M                   | 650,63    | 647,83    | 797,68                      | 794,89    |           |                             |           |           |           |           |        |
|                             | 365,42    | 362,63   | 508,02                      | 505,23    |           | 147 - 14M                   | 655,08    | 652,29    | 802,14                      | 799,35    |           |                             |           |           |           |           |        |
|                             | 369,88    | 367,08   | 512,48                      | 509,68    |           | 148 - 14M                   | 659,54    | 656,74    | 806,60                      | 803,80    |           |                             |           |           |           |           |        |
|                             | 374,33    | 371,54   | 516,93                      | 514,14    | 149 - 14M | 663,99                      | 661,20    | 811,05    | 808,26                      |           |           |                             |           |           |           |           |        |
|                             | 378,79    | 375,99   | 521,39                      | 518,60    | 150 - 14M | 668,45                      | 665,66    | 815,51    | 812,72                      |           |           |                             |           |           |           |           |        |
|                             | 383,24    | 380,45   | 525,85                      | 523,05    |           | 151 - 14M                   | 672,91    | 670,11    | 819,97                      | 817,17    |           |                             |           |           |           |           |        |
|                             | 387,70    | 384,91   | 530,30                      | 527,51    |           | 152 - 14M                   | 677,36    | 674,57    | 824,42                      | 821,63    |           |                             |           |           |           |           |        |
|                             | 392,16    | 389,36   | 534,76                      | 531,97    |           | 153 - 14M                   | 681,82    | 679,03    | 828,88                      | 826,08    |           |                             |           |           |           |           |        |
| 396,61                      | 393,82    | 539,22   | 536,42                      | 154 - 14M |           | 686,28                      | 683,48    | 833,33    | 830,54                      |           |           |                             |           |           |           |           |        |
| 90 - 14M                    | 401,07    | 398,28   | 543,67                      | 540,88    |           | 155 - 14M                   | 690,73    | 687,94    | 837,79                      | 835,00    |           |                             |           |           |           |           |        |
|                             | 405,53    | 402,73   | 548,13                      | 545,34    |           | 156 - 14M                   | 695,19    | 692,39    | 842,25                      | 839,45    |           |                             |           |           |           |           |        |
|                             | 409,98    | 407,19   | 552,59                      | 549,79    |           | 157 - 14M                   | 699,64    | 696,85    | 846,70                      | 843,91    |           |                             |           |           |           |           |        |
|                             | 91 - 14M  | 414,44   | 411,74                      | 557,04    |           | 554,25                      | 158 - 14M | 704,10    | 701,31                      | 851,16    | 848,37    |                             |           |           |           |           |        |
|                             |           | 418,90   | 416,10                      | 126 - 14M | 561,50    | 558,70                      | 159 - 14M | 708,56    | 705,76                      |           |           |                             |           |           |           |           |        |
|                             |           | 423,35   | 420,56                      |           | 565,95    | 563,16                      |           | 713,01    | 710,22                      |           |           |                             |           |           |           |           |        |
|                             |           | 427,81   | 423,01                      |           | 570,41    | 567,62                      |           | 717,47    | 714,68                      |           |           |                             |           |           |           |           |        |
|                             |           | 432,26   | 429,47                      |           | 574,87    | 572,07                      |           | 721,93    | 719,13                      |           |           |                             |           |           |           |           |        |
|                             |           | 436,62   | 433,93                      |           | 578,93    | 576,14                      |           | 726,38    | 723,59                      |           |           |                             |           |           |           |           |        |
| 441,18                      |           | 438,38   | 583,78                      |           | 580,99    | 730,84                      |           | 728,05    |                             |           |           |                             |           |           |           |           |        |
| 445,63                      |           | 442,84   | 588,24                      |           | 585,44    | 735,30                      |           | 732,50    |                             |           |           |                             |           |           |           |           |        |
| 450,09                      |           | 447,30   | 592,69                      |           | 589,90    | 739,75                      |           | 736,96    |                             |           |           |                             |           |           |           |           |        |
| 454,55                      | 451,75    | 597,15   | 594,35                      |           | 744,21    | 741,41                      |           |           |                             |           |           |                             |           |           |           |           |        |
| 459,00                      | 456,21    | 601,61   | 598,81                      | 748,66    | 745,87    |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 463,46                      | 460,66    | 606,06   | 603,27                      | 753,12    | 750,33    |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 467,92                      | 465,12    | 610,52   | 607,72                      | 757,58    | 754,78    |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 472,37                      | 469,58    | 614,97   | 612,18                      | 762,03    | 759,24    |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 476,83                      | 474,03    | 619,43   | 616,64                      | 766,49    | 763,70    |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 481,28                      | 478,49    | 623,59   | 621,09                      | 770,95    | 768,15    |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 485,74                      | 482,95    | 628,34   | 625,55                      | 775,40    | 772,61    |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 110 - 14M                   | 490,20    | 487,40   | 632,80                      | 630,01    | 779,86    | 777,06                      |           |           |                             |           |           |                             |           |           |           |           |        |
|                             | 494,65    | 491,86   | 637,26                      | 634,46    | 784,33    | 781,52                      |           |           |                             |           |           |                             |           |           |           |           |        |
|                             | 499,11    | 496,32   | 641,71                      | 638,92    | 788,77    | 785,98                      |           |           |                             |           |           |                             |           |           |           |           |        |
|                             | 503,57    | 500,77   | 646,17                      | 643,37    | 793,23    | 790,43                      |           |           |                             |           |           |                             |           |           |           |           |        |
|                             | 508,02    | 505,23   | 650,63                      | 647,83    | 797,68    | 794,89                      |           |           |                             |           |           |                             |           |           |           |           |        |
|                             | 512,48    | 509,68   | 655,08                      | 652,29    | 802,14    | 799,35                      |           |           |                             |           |           |                             |           |           |           |           |        |
|                             | 516,93    | 514,14   | 659,54                      | 656,74    | 806,60    | 803,80                      |           |           |                             |           |           |                             |           |           |           |           |        |
|                             | 521,39    | 518,60   | 663,99                      | 661,20    | 811,05    | 808,26                      |           |           |                             |           |           |                             |           |           |           |           |        |
|                             | 525,85    | 523,05   | 668,45                      | 665,66    | 815,51    | 812,72                      |           |           |                             |           |           |                             |           |           |           |           |        |
| 530,30                      | 527,51    | 672,91   | 670,11                      | 819,97    | 817,17    |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 120 - 14M                   | 534,76    | 531,97   | 677,36                      | 674,57    | 824,42    | 821,63                      |           |           |                             |           |           |                             |           |           |           |           |        |
|                             | 539,22    | 536,42   | 681,82                      | 679,03    | 828,88    | 826,08                      |           |           |                             |           |           |                             |           |           |           |           |        |
|                             | 543,67    | 540,88   | 686,28                      | 683,48    | 833,33    | 830,54                      |           |           |                             |           |           |                             |           |           |           |           |        |
|                             | 548,13    | 545,34   | 690,73                      | 687,94    | 837,79    | 835,00                      |           |           |                             |           |           |                             |           |           |           |           |        |
|                             | 552,59    | 549,79   | 695,19                      | 692,39    | 842,25    | 839,45                      |           |           |                             |           |           |                             |           |           |           |           |        |
|                             | 557,04    | 554,25   | 699,64                      | 696,85    | 846,70    | 843,91                      |           |           |                             |           |           |                             |           |           |           |           |        |
|                             | 126 - 14M | 561,50   | 558,70                      | 704,10    | 701,31    | 851,16                      | 848,37    |           |                             |           |           |                             |           |           |           |           |        |
|                             |           | 565,95   | 563,16                      | 159 - 14M | 708,56    | 705,76                      |           |           |                             |           |           |                             |           |           |           |           |        |
|                             |           | 570,41   | 567,62                      |           | 713,01    | 710,22                      |           |           |                             |           |           |                             |           |           |           |           |        |
| 574,87                      |           | 572,07   | 717,47                      |           | 714,68    |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 578,93                      |           | 576,14   | 721,93                      |           | 719,13    |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 583,78                      |           | 580,99   | 726,38                      |           | 723,59    |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 588,24                      |           | 585,44   | 730,84                      |           | 728,05    |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 592,69                      |           | 589,90   | 735,30                      |           | 732,50    |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 597,15                      |           | 594,35   | 739,75                      |           | 736,96    |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 601,61                      | 598,81    | 744,21   | 741,41                      |           |           |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 606,06                      | 603,27    | 748,66   | 745,87                      |           |           |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 610,52                      | 607,72    | 753,12   | 750,33                      |           |           |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 614,97                      | 612,18    | 757,58   | 754,78                      |           |           |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 619,43                      | 616,64    | 762,03   | 759,24                      |           |           |                             |           |           |                             |           |           |                             |           |           |           |           |        |
| 130 - 14M                   | 623,59    | 621,09   | 766,49                      | 763,70    |           |                             |           |           |                             |           |           |                             |           |           |           |           |        |
|                             | 628,34    | 625,55   | 770,95                      | 768,15    |           |                             |           |           |                             |           |           |                             |           |           |           |           |        |

**T 2,5** (2,5 mm)

| Type<br>Type<br>Typ<br>Tipo | Ø pr. | Ø est. |
|-----------------------------|-------|--------|
| 12 T2,5                     | 9,55  | 9,00   |
| 14 T2,5                     | 11,15 | 10,60  |
| 16 T2,5                     | 11,94 | 11,40  |
| 18 T2,5                     | 14,33 | 13,80  |
| 19 T2,5                     | 15,13 | 14,60  |
| 20 T2,5                     | 15,92 | 15,40  |
| 22 T2,5                     | 17,55 | 17,00  |
| 24 T2,5                     | 19,11 | 18,55  |
| 25 T2,5                     | 19,90 | 19,35  |
| 26 T2,5                     | 20,70 | 20,15  |
| 28 T2,5                     | 22,30 | 21,75  |
| 30 T2,5                     | 23,88 | 23,35  |
| 32 T2,5                     | 25,48 | 24,95  |
| 36 T2,5                     | 28,66 | 28,10  |
| 40 T2,5                     | 31,85 | 31,30  |
| 44 T2,5                     | 35,05 | 34,50  |
| 48 T2,5                     | 38,22 | 37,70  |
| 60 T2,5                     | 47,77 | 47,25  |

**T 5** (5 mm)

| Type<br>Type<br>Typ<br>Tipo | Ø pr. | Ø est. |
|-----------------------------|-------|--------|
| 10 T5                       | 15,92 | 15,05  |
| 12 T5                       | 19,11 | 18,25  |
| 14 T5                       | 22,29 | 21,25  |
| 15 T5                       | 23,88 | 23,05  |
| 16 T5                       | 25,48 | 24,60  |
| 18 T5                       | 28,66 | 27,80  |
| 19 T5                       | 30,25 | 29,40  |
| 20 T5                       | 31,85 | 31,00  |
| 22 T5                       | 35,12 | 34,25  |
| 24 T5                       | 38,22 | 37,40  |
| 25 T5                       | 39,81 | 39,00  |
| 26 T5                       | 41,47 | 40,60  |
| 28 T5                       | 44,62 | 43,75  |
| 30 T5                       | 47,77 | 46,95  |
| 32 T5                       | 50,95 | 50,10  |
| 36 T5                       | 57,32 | 56,45  |
| 40 T5                       | 63,69 | 62,85  |
| 42 T5                       | 66,87 | 66,00  |
| 44 T5                       | 70,07 | 69,20  |
| 48 T5                       | 76,43 | 75,55  |
| 60 T5                       | 95,54 | 94,65  |

**T 10** (10 mm)

| Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. |
|-----------------------------|--------|--------|
| 12 T10                      | 38,22  | 36,25  |
| 14 T10                      | 44,58  | 42,70  |
| 15 T10                      | 47,77  | 45,90  |
| 16 T10                      | 50,95  | 49,05  |
| 18 T10                      | 47,32  | 55,45  |
| 19 T10                      | 60,51  | 58,60  |
| 20 T10                      | 63,69  | 61,80  |
| 22 T10                      | 70,12  | 68,15  |
| 24 T10                      | 76,43  | 74,55  |
| 25 T10                      | 79,62  | 77,70  |
| 26 T10                      | 82,87  | 80,90  |
| 28 T10                      | 89,22  | 87,25  |
| 30 T10                      | 95,54  | 93,65  |
| 32 T10                      | 101,91 | 100,00 |
| 36 T10                      | 114,65 | 112,75 |
| 40 T10                      | 127,39 | 125,45 |
| 44 T10                      | 140,17 | 138,20 |
| 48 T10                      | 152,87 | 150,95 |
| 60 T10                      | 191,08 | 189,10 |

**AT 5** (5 mm)

| Type<br>Type<br>Typ<br>Tipo | Ø pr. | Ø est. |
|-----------------------------|-------|--------|
| 12 AT5                      | 19,10 | 17,85  |
| 14 AT5                      | 22,29 | 21,05  |
| 15 AT5                      | 23,88 | 22,65  |
| 16 AT5                      | 25,47 | 24,20  |
| 18 AT5                      | 28,65 | 27,40  |
| 19 AT5                      | 30,25 | 29,00  |
| 20 AT5                      | 31,83 | 30,60  |
| 22 AT5                      | 35,02 | 33,85  |
| 24 AT5                      | 38,21 | 37,00  |
| 25 AT5                      | 39,80 | 38,60  |
| 26 AT5                      | 41,39 | 40,20  |
| 27 AT5                      | 42,98 | 41,80  |
| 28 AT5                      | 44,58 | 43,35  |
| 30 AT5                      | 47,76 | 46,55  |
| 32 AT5                      | 50,94 | 49,70  |
| 36 AT5                      | 57,31 | 56,05  |
| 40 AT5                      | 63,66 | 62,45  |
| 42 AT5                      | 66,86 | 65,60  |
| 44 AT5                      | 70,05 | 68,80  |
| 48 AT5                      | 76,42 | 75,15  |
| 60 AT5                      | 95,52 | 94,25  |

**AT 10** (10 mm)

| Type<br>Type<br>Typ<br>Tipo | Ø pr.  | Ø est. |
|-----------------------------|--------|--------|
| 15 AT10                     | 47,75  | 45,90  |
| 16 AT10                     | 50,93  | 49,05  |
| 18 AT10                     | 57,29  | 55,45  |
| 19 AT10                     | 60,48  | 58,60  |
| 20 AT10                     | 63,66  | 61,80  |
| 22 AT10                     | 70,03  | 68,15  |
| 24 AT10                     | 76,39  | 74,55  |
| 25 AT10                     | 79,58  | 77,70  |
| 26 AT10                     | 82,76  | 80,90  |
| 27 AT10                     | 85,95  | 84,10  |
| 28 AT10                     | 89,12  | 87,25  |
| 30 AT10                     | 95,49  | 93,65  |
| 32 AT10                     | 101,86 | 100,00 |
| 36 AT10                     | 114,59 | 112,75 |
| 40 AT10                     | 127,32 | 125,45 |
| 44 AT10                     | 140,05 | 138,20 |
| 48 AT10                     | 152,78 | 150,95 |
| 60 AT10                     | 190,98 | 189,10 |



# THERMOSETTING RESIN TIMING PULLEYS, TYPE «PP»

## POULIES DENTEES EN MATERIE PLASTIQUE THERMODURCISSABLE, TYPE «PP»

### KUNSTHARZ-ZAHNSCHEIBEN TYP «PP»

#### POLEAS DENTADAS EN RESINA TERMOENDURENTE, TIPO «PP»

#### Characteristics

- The toothed side is drop-moulded from thermosetting resins of high dimensional stability and reinforced with high resistance textile fibres.
- The hub is metallic, to give greater strength and better resistance for the keyway and thread. As regards the «XL» pulleys, the hub is generally in extruded light alloy of great hardness; as regards the «L» pulleys, the hub is in steel.
- An excellent precision has been obtained by absolutely original pressure-moulding system.
- The cost is considerably lower in comparison with the fully metallic pulleys.
- They are remarkably light and show an excellent tooth wear resistance.
- Specials can be manufactured to clients drawings if the quantities are sufficient.

#### Assembling

It is common knowledge that, in any transmission, the toothed belt has to be retained by at least two opposed flanges. As the plastic pulleys have only one flange, their construction has also been foreseen in the two «FF» and «FM» types, so as to meet the above mentioned condition more easily.

#### Nomenclature

To completely define a thermosetting resin timing pulley, its normal denomination has to be preceded by the letters PP and followed by the letters FF to specify a flange on the side opposite the boss or the letters FM for a flange on the side of the boss. EG: PP 10 L 050 FF is a 10 teeth thermosetting resin pulley of «L» pitch, for a 1/2" wide belt with a flange on the side opposite to the boss. A PP 10 L 050 is the same pulley with a flange on the side of the boss.

#### Caracteristiques

- Les poulies dentées sont moulées en matière plastique thermodurcissable à grande stabilité dimensionnelle, renforcée par des fibres textiles à haute résistance.
- Les moyeux sont métalliques, afin d'offrir une résistance suffisante aux rainures de clavettes et aux vis de blocage éventuelle. En principe, les moyeux sont en alliage léger extrudé de grande dureté pour les poulies type «XL» et en acier pour les poulies type «L».
- Une grande précision a été obtenue par le principe de moulage absolument original.
- La série des poulies «plastiques» est très économique par rapport aux poulies métalliques.
- Elles sont très légères, malgré une grande résistance à l'usure de la denture.
- Pour des applications par quantités, il est possible de réaliser des poulies «plastiques» spéciales sur plan.

#### Montage

Dans toutes les transmissions positives, la courroie dentée doit être maintenue sur les poulies par 2 flasques opposés. Dans le cas des poulies «plastiques», un seul flasque est prévu sur chaque poulie; néanmoins, les exécutions FF et FM permettent de satisfaire à ces exigences.

#### Nomenclature

Pour définir une poulie dentée en matière plastique thermodurcissable, on fera précéder à la dénomination classique les lettres PP; en outre, cette dénomination sera suivie par les lettres FF ou FM, suivant que la flasque se trouve du côté du moyeu débordant ou à l'opposé. EX.: PP 10 L 050 FF sera une poulie de 10 dents, pas 3/8", adaptée pour une courroie de largeur 1/2", avec flasque opposé au moyeu débordant. PP 10 L 050 FM sera la même poulie, avec flasque du côté du moyeu débordant.

#### Eigenschaften

- Das verzahnte Teil wird aus härtbarem Kunstharz zu großer Maßbeständigkeit gepresst und mit Textilfasern hohen Widerstandes armiert.
- Die Nabe ist metallisch, damit ein hoher Widerstand bei dem Faßfedernut und eventuell angebrachten Gewindebohrungen gewährleistet wird. Normalerweise besteht die Nabe bei den «XL»-Zahnscheiben aus fließgepresstem Leichtmetall großer Härte und bei den «L»-Zahnscheiben aus Stahl.
- Eine hohe Präzision wurde durch absolut neuartige Pressverfahren gewonnen.
- Die Kosten sind beträchtlich niedriger als für metallische Zahnscheiben.
- Hohe Verschleißfestigkeit wird bei geringstem Gewicht erreicht. Für hohe Stückzahlen können Sonder-Ausführungen nach Zeichnung des Kunden gefertigt werden.

#### Montage

Bekanntlich muß der Zahnriemen bei jedem Antrieb von mindestens zwei gekreuzt gegenüberliegenden Borden geführt werden. Da die Kunstharz-Zahnscheiben nur einen Bord haben, wurde die entsprechende Konstruktion nach den zwei «FF» und «FM»-Ausführungen vorgesehen, damit die oben erwähnte Forderung erreicht wird.

#### Nomenklatur

Zur Bestimmung einer Kunstharz-Zahnscheiben wird generell die Abkürzung «PP» an den Anfang gesetzt. Ist der Bord an der bündigen Seite angebracht wird die Abkürzung FF an das Ende der Gesamtbezeichnung gesetzt. Ist der Bord an der Nabenseite angebracht endet die Bezeichnung mit «FM». Beispiel: PP 10 L 050 FF ist eine Kunstharz-Zahnscheibe mit 10 Zähnen, «L» Teilung und einseitigem Bord an der bündigen Seite. Die Scheibe ist für einen 1/2" Riemen geeignet. PP 10 L 050 FM bezeichnet die gleiche Zahnscheibe jedoch als einteilige Bordscheibe mit nabenseitigem Bord.

#### Características

- La parte dentada está estampada en resina termoendurente de gran estabilidad dimensional y armada con fibra textil de alta resistencia.
- El núcleo es metálico a fin de garantizar la máxima resistencia con la correspondiente chaveta o de las eventuales ranuras. Normalmente el núcleo es de aleación ligera de gran dureza para las poleas «XL», y en acero para las poleas tipo «L».
- Hemos obtenido una excelente precisión con nuestro sistema de estampación.
- El costo es notablemente inferior respecto a la polea completamente metálica.
- Reunen dos condiciones:
  - gran ligereza
  - óptima resistencia al desgaste del diente.
- Para grandes cantidades es posible fabricar ejecuciones especiales bajo plano.

#### Montaje

En cada transmisión la correa dentada debe ser guiada al menos por dos valonas contrapuestas. Dado que las poleas dentadas en plástico tienen una sola valona, ha estado previsto la construcción según las dos ejecuciones «FF» y «FM» de manera que podamos satisfacer esta condición.

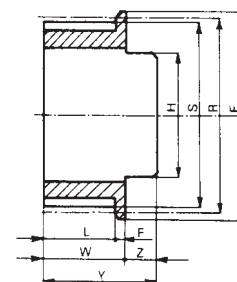
#### Nomenclatura

Para definir completamente una polea dentada en resina termoendurente se hará preceder a la denominación normal las letras «PP» e indicando «FF» si la valona se encuentra en el lado donde el núcleo está a filo o «FM» si la valona está en el lado que el núcleo sobresale. Ejemplo: PP 10 L 050 FF será una polea en resina termoendurente de 10 dientes, paso L, adaptada para una correa de ancho 1/2" con valona al lado del núcleo a filo con el dentado, mientras PP 10 L 050 FM será la misma polea con la valona en el lado donde el núcleo sobresale.

# PP ... XL 037

mm

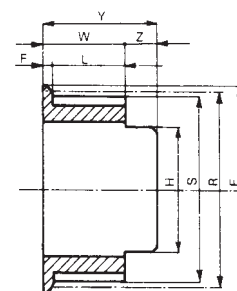
| code<br>code<br>Code<br>código | flange<br>flasque<br>Bord<br>valona | type<br>type<br>Typ<br>tipo | R<br>Ø | S<br>Ø | U<br>Ø | E<br>Ø | L  | F   | W    | H<br>Ø | Y  | Z    |
|--------------------------------|-------------------------------------|-----------------------------|--------|--------|--------|--------|----|-----|------|--------|----|------|
| PP 11 XL 037                   | FM FF                               | 1                           | 17,79  | 17,28  | –      | 20,5   | 11 | 2   | 13   | 12,5   | 21 | 8    |
| PP 12 XL 037                   | FM FF                               | 1                           | 19,40  | 18,89  | –      | 22     | 11 | 2   | 13   | 12,5   | 21 | 8    |
| PP 14 XL 037                   | FM FF                               | 1                           | 22,64  | 22,13  | –      | 25,5   | 11 | 2   | 13   | 16     | 21 | 8    |
| PP 15 XL 037                   | FM FF                               | 1                           | 24,25  | 23,74  | –      | 27     | 11 | 2   | 13   | 18     | 25 | 12   |
| PP 16 XL 037                   | FM FF                               | 1                           | 25,87  | 25,36  | –      | 28,5   | 11 | 2   | 13   | 18     | 25 | 12   |
| PP 18 XL 037                   | FM FF                               | 1                           | 29,11  | 28,60  | –      | 32     | 11 | 2   | 13   | 20     | 25 | 12   |
| PP 20 XL 037                   | FM FF                               | 1                           | 32,34  | 31,83  | –      | 35     | 11 | 2   | 13   | 20     | 25 | 12   |
| PP 21 XL 037                   | FM FF                               | 1                           | 33,96  | 33,45  | –      | 36,5   | 11 | 2   | 13   | 20     | 25 | 12   |
| PP 22 XL 037                   | FM FF                               | 1                           | 35,57  | 35,06  | –      | 38,5   | 11 | 2   | 13   | 20     | 25 | 12   |
| PP 24 XL 037                   | FM FF                               | 1                           | 38,81  | 38,30  | –      | 41,5   | 11 | 2,5 | 13,5 | 25     | 25 | 11,5 |
| PP 28 XL 037                   | FM FF                               | 1                           | 45,28  | 44,77  | –      | 48     | 11 | 2,5 | 13,5 | 25     | 25 | 11,5 |
| PP 30 XL 037                   | FM FF                               | 2                           | 48,85  | 48,00  | 40     | 51     | 11 | 2,5 | 13,5 | 25     | 25 | 11,5 |
| PP 32 XL 037                   | FM FF                               | 2                           | 51,74  | 51,23  | 42     | 54,5   | 11 | 2,5 | 13,5 | 25     | 25 | 11,5 |
| PP 36 XL 037                   | FM FF                               | 2                           | 58,21  | 57,70  | 49     | 61     | 11 | 2,5 | 13,5 | 35     | 25 | 11,5 |
| PP 40 XL 037                   | FM FF                               | 2                           | 64,68  | 64,17  | 54     | 67,5   | 11 | 2,5 | 13,5 | 35     | 25 | 11,5 |
| PP 42 XL 037                   | FM FF                               | 2                           | 67,91  | 67,40  | 57     | 70,5   | 11 | 2,5 | 13,5 | 35     | 25 | 11,5 |
| PP 44 XL 037                   | FM FF                               | 2                           | 71,15  | 70,64  | 60     | 74     | 11 | 2,5 | 13,5 | 35     | 25 | 11,5 |
| PP 48 XL 037                   | FM FF                               | 2                           | 77,62  | 77,11  | 68     | 80,5   | 11 | 2,5 | 13,5 | 35     | 25 | 11,5 |
| PP 50 XL 037                   | FM FF                               | 2                           | 80,85  | 80,34  | 71     | 83     | 11 | 2,5 | 13,5 | 35     | 25 | 11,5 |



# PP ... L 050

mm

| code<br>code<br>Code<br>código | flange<br>flasque<br>Bord<br>valona | type<br>type<br>Typ<br>tipo | R<br>Ø | S<br>Ø | U<br>Ø | E<br>Ø | L    | F   | W    | H<br>Ø | Y  | Z   |
|--------------------------------|-------------------------------------|-----------------------------|--------|--------|--------|--------|------|-----|------|--------|----|-----|
| PP 10 L 050                    | FM FF                               | 1                           | 30,32  | 29,56  | –      | 34     | 14,5 | 2   | 16,5 | 20     | 25 | 8,5 |
| PP 12 L 050                    | FM FF                               | 1                           | 36,38  | 35,62  | –      | 40     | 14,5 | 2   | 16,5 | 25     | 25 | 8,5 |
| PP 14 L 050                    | FM FF                               | 1                           | 42,45  | 41,69  | –      | 46     | 14,5 | 2,5 | 17   | 30     | 30 | 13  |
| PP 16 L 050                    | FM FF                               | 1                           | 48,51  | 47,75  | –      | 52     | 14,5 | 2,5 | 17   | 30     | 30 | 13  |
| PP 18 L 050                    | FM FF                               | 2                           | 54,57  | 53,81  | 43     | 58     | 14,5 | 2,5 | 17   | 30     | 30 | 13  |
| PP 20 L 050                    | FM FF                               | 2                           | 60,64  | 59,88  | 48     | 64     | 14,5 | 2,5 | 17   | 30     | 30 | 13  |
| PP 22 L 050                    | FM FF                               | 2                           | 66,70  | 65,94  | 56     | 70     | 14,5 | 2,5 | 17   | 40     | 30 | 13  |
| PP 24 L 050                    | FM FF                               | 2                           | 72,77  | 72,01  | 60     | 76     | 14,5 | 2,5 | 17   | 40     | 30 | 13  |
| PP 26 L 050                    | FM FF                               | 2                           | 78,83  | 78,07  | 65     | 82,5   | 14,5 | 2,5 | 17   | 40     | 30 | 13  |
| PP 28 L 050                    | FM FF                               | 2                           | 84,89  | 84,13  | 71     | 88,5   | 14,5 | 2,5 | 17   | 40     | 30 | 13  |
| PP 30 L 050                    | FM FF                               | 2                           | 90,96  | 90,20  | 76     | 94,5   | 14,5 | 2,5 | 17   | 40     | 30 | 13  |
| PP 32 L 050                    | FM FF                               | 2                           | 97,02  | 96,26  | 85     | 100,5  | 14,5 | 2,5 | 17   | 40     | 30 | 13  |
| PP 36 L 050                    | FM FF                               | 2                           | 109,15 | 108,39 | 94     | 112,5  | 14,5 | 2,5 | 17   | 50     | 40 | 23  |
| PP 40 L 050                    | FM FF                               | 2                           | 121,28 | 120,52 | 102    | 125    | 14,5 | 2,5 | 17   | 50     | 40 | 23  |

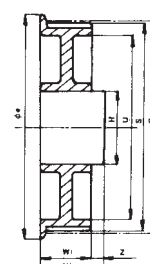
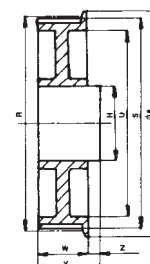


1

# PP ... L 100

mm

| code<br>code<br>Code<br>código | flange<br>flasque<br>Bord<br>valona | type<br>type<br>Typ<br>tipo | R<br>Ø | S<br>Ø | U<br>Ø | E<br>Ø | L    | F   | W    | H<br>Ø | Y  | Z    |
|--------------------------------|-------------------------------------|-----------------------------|--------|--------|--------|--------|------|-----|------|--------|----|------|
| PP 10 L 100                    | FM FF                               | 1                           | 30,32  | 29,56  | –      | 34     | 27,5 | 2   | 29,5 | 20     | 40 | 10,5 |
| PP 12 L 100                    | FM FF                               | 1                           | 36,38  | 35,62  | –      | 40     | 27,5 | 2   | 29,5 | 25     | 40 | 10,5 |
| PP 14 L 100                    | FM FF                               | 1                           | 42,45  | 41,69  | –      | 46     | 27,5 | 2,5 | 30   | 30     | 40 | 10   |
| PP 16 L 100                    | FM FF                               | 1                           | 48,51  | 47,75  | –      | 52     | 27,5 | 2,5 | 30   | 30     | 40 | 10   |
| PP 18 L 100                    | FM FF                               | 1                           | 54,57  | 53,81  | –      | 58     | 27,5 | 2,5 | 30   | 40     | 50 | 20   |
| PP 20 L 100                    | FM FF                               | 1                           | 60,64  | 59,88  | –      | 64     | 27,5 | 2,5 | 30   | 40     | 50 | 20   |
| PP 22 L 100                    | FM FF                               | 2                           | 66,70  | 65,94  | 55     | 70     | 27,5 | 2,5 | 30   | 40     | 50 | 20   |
| PP 24 L 100                    | FM FF                               | 2                           | 72,77  | 72,01  | 59     | 76     | 27,5 | 2,5 | 30   | 40     | 50 | 20   |
| PP 26 L 100                    | FM FF                               | 2                           | 78,83  | 78,07  | 64     | 82,5   | 27,5 | 2,5 | 30   | 40     | 50 | 20   |
| PP 28 L 100                    | FM FF                               | 2                           | 84,89  | 84,13  | 71     | 88,5   | 27,5 | 2,5 | 30   | 48     | 50 | 20   |
| PP 30 L 100                    | FM FF                               | 2                           | 90,96  | 90,20  | 76     | 94,5   | 27,5 | 2,5 | 30   | 48     | 50 | 20   |
| PP 32 L 100                    | FM FF                               | 2                           | 97,02  | 96,26  | 85     | 100,5  | 27,5 | 2,5 | 30   | 48     | 50 | 20   |
| PP 36 L 100                    | FM FF                               | 2                           | 109,15 | 108,39 | 92     | 112,5  | 27,5 | 2,5 | 30   | 57     | 50 | 20   |
| PP 40 L 100                    | FM FF                               | 2                           | 121,28 | 120,52 | 102    | 125    | 27,5 | 2,5 | 30   | 57     | 50 | 20   |



2

Material of hubs:  
– Aluminium (pulleys XL 037 and L 050)  
– Steel (pulleys L 100)

Materiel du moyeu:  
– Aluminium (poules XL 037 et L 050)  
– Acier (poules L 100)

Werkstoff der nabe:  
– Aluminium für XL 037 und L 050  
– zahnscheiben  
– Stahl für L 100 Zahnscheiben

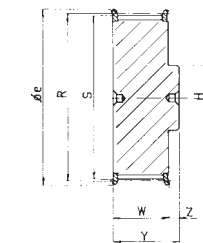
Material del núcleo:  
– Aluminio (poleas XL 037 y L 050)  
– Acero (poleas L 100)

# **STANDARD METALLIC TIMING PULLEYS** **POULIES DENTEES METALLIQUES DE SERIE** **STANDARD-METALL-ZAHNSCHEIBEN** **POLEAS DENTADAS DE SERIE METALICA**

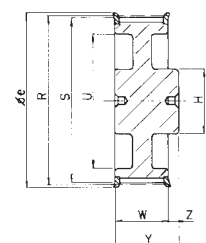
PD ... XL 037

mm

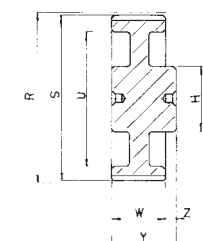
| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W    | H<br>Ø | Y  | Z    | d<br>Ø | flange<br>flasque<br>Bord<br>valona                      | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|------------------------------------|--------|--------|--------|--------|------|--------|----|------|--------|--|---|
| PD 10 XL 037                   | 1                           | 10                                 | 16,17  | 15,66  | -      | 20     | 14,3 | 12     | 25 | 10,7 | -      | with flanges<br>avec flasques<br>mit Borde<br>con valona | Aluminium - Aluminium - Aluminio              |
| PD 11 XL 037                   | 1                           | 11                                 | 17,79  | 17,28  | -      | 20     | 14,3 | 12     | 25 | 10,7 | -      |  |   |
| PD 12 XL 037                   | 1                           | 12                                 | 19,40  | 18,89  | -      | 24     | 14,3 | 12     | 25 | 10,7 | -      |  |   |
| PD 13 XL 037                   | 1                           | 13                                 | 21,02  | 20,51  | -      | 24     | 14,3 | 12     | 25 | 10,7 | -      |  |   |
| PD 14 XL 037                   | 1                           | 14                                 | 22,64  | 22,16  | -      | 27     | 14,3 | 16     | 25 | 10,7 | -      |  |   |
| PD 15 XL 037                   | 1                           | 15                                 | 24,25  | 23,74  | -      | 27     | 14,3 | 17     | 25 | 10,7 | -      |  |   |
| PD 16 XL 037                   | 1                           | 16                                 | 25,87  | 25,36  | -      | 30     | 14,3 | 20     | 25 | 10,7 | -      |  |   |
| PD 17 XL 037                   | 1                           | 17                                 | 27,49  | 26,98  | -      | 30     | 14,3 | 20     | 25 | 10,7 | -      |  |   |
| PD 18 XL 037                   | 1                           | 18                                 | 29,11  | 28,60  | -      | 33     | 14,3 | 20     | 25 | 10,7 | -      |  |   |
| PD 19 XL 037                   | 1                           | 19                                 | 30,72  | 30,21  | -      | 36     | 14,3 | 25     | 25 | 10,7 | -      |  |   |
| PD 20 XL 037                   | 1                           | 20                                 | 32,34  | 31,83  | -      | 36     | 14,3 | 25     | 25 | 10,7 | -      |  |   |
| PD 21 XL 037                   | 1                           | 21                                 | 33,96  | 33,45  | -      | 40     | 14,3 | 26     | 25 | 10,7 | -      |  |   |
| PD 22 XL 037                   | 1                           | 22                                 | 35,57  | 35,06  | -      | 40     | 14,3 | 27     | 25 | 10,7 | -      |  |   |
| PD 24 XL 037                   | 1                           | 24                                 | 38,81  | 38,30  | -      | 46     | 14,3 | 30     | 25 | 10,7 | -      |  |   |
| PD 26 XL 037                   | 1                           | 26                                 | 42,03  | 41,53  | -      | 46     | 14,3 | 30     | 25 | 10,7 | -      |  |   |
| PD 27 XL 037                   | 1                           | 27                                 | 43,66  | 43,15  | -      | 50     | 14,3 | 32     | 25 | 10,7 | -      |  |   |
| PD 28 XL 037                   | 1                           | 28                                 | 45,28  | 44,77  | -      | 50     | 14,3 | 34     | 25 | 10,7 | -      |  |   |
| PD 29 XL 037                   | 1                           | 29                                 | 46,89  | 46,38  | -      | 50     | 14,3 | 34     | 25 | 10,7 | -      |  |   |
| PD 30 XL 037                   | 1                           | 30                                 | 49,51  | 48,00  | -      | 55     | 14,3 | 38     | 25 | 10,7 | -      |  |   |
| PD 32 XL 037                   | 1                           | 32                                 | 51,74  | 51,23  | -      | -      | 14,3 | 45     | 25 | 10,7 | -      |  |   |
| PD 34 XL 037                   | 1                           | 34                                 | 54,98  | 54,47  | -      | -      | 14,3 | 45     | 25 | 10,7 | -      |  |   |
| PD 35 XL 037                   | 1                           | 35                                 | 56,60  | 56,09  | -      | -      | 14,3 | 45     | 25 | 10,7 | -      |  |   |
| PD 36 XL 037                   | 1                           | 36                                 | 58,21  | 57,70  | -      | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 38 XL 037                   | 1                           | 38                                 | 61,45  | 60,94  | -      | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 39 XL 037                   | 1                           | 39                                 | 63,06  | 62,55  | -      | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 40 XL 037                   | 1                           | 40                                 | 64,68  | 64,17  | -      | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 41 XL 037                   | 1                           | 41                                 | 66,30  | 65,79  | -      | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 42 XL 037                   | 1                           | 42                                 | 67,91  | 67,40  | -      | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 43 XL 037                   | 1                           | 43                                 | 69,53  | 69,02  | -      | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 44 XL 037                   | 1                           | 44                                 | 71,15  | 70,64  | -      | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 45 XL 037                   | 1                           | 45                                 | 72,77  | 72,26  | -      | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 46 XL 037                   | 1                           | 46                                 | 74,38  | 73,87  | -      | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 47 XL 037                   | 1                           | 47                                 | 76,00  | 75,49  | -      | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 48 XL 037                   | 1                           | 48                                 | 77,62  | 77,11  | -      | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 49 XL 037                   | 2                           | 49                                 | 76,23  | 78,72  | 54     | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 52 XL 037                   | 2                           | 52                                 | 84,08  | 83,57  | 58     | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 56 XL 037                   | 2                           | 56                                 | 90,55  | 90,04  | 65     | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 57 XL 037                   | 2                           | 57                                 | 92,17  | 91,66  | 67     | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 58 XL 037                   | 2                           | 58                                 | 93,79  | 93,28  | 69     | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 59 XL 037                   | 2                           | 59                                 | 95,40  | 94,89  | 70     | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 60 XL 037                   | 2                           | 60                                 | 97,02  | 96,51  | 71     | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 68 XL 037                   | 2                           | 68                                 | 109,96 | 109,45 | 84     | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 69 XL 037                   | 2                           | 69                                 | 111,57 | 111,06 | 86     | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 70 XL 037                   | 2                           | 70                                 | 113,19 | 112,68 | 87     | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 71 XL 037                   | 2                           | 71                                 | 114,81 | 114,30 | 89     | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |
| PD 72 XL 037                   | 2                           | 72                                 | 116,43 | 115,92 | 91     | -      | 14,3 | 52     | 25 | 10,7 | -      |  |   |



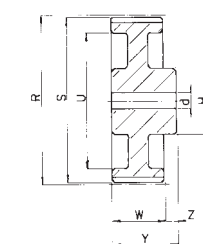
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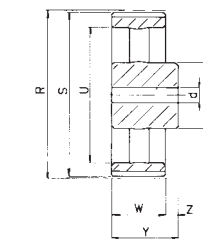
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3



4



5

PD ... L 050

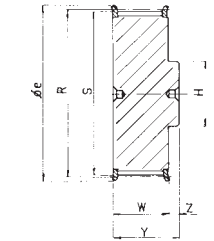
mm

| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W  | H<br>Ø | Y  | Z  | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|------------------------------------|--------|--------|--------|--------|----|--------|----|----|--------|--|---|
| PD 10 L 050                    | 1                           | 10                                 | 30,32  | 29,56  | -      | 33     | 19 | 20     | 30 | 11 | -      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PD 11 L 050                    | 1                           | 11                                 | 33,35  | 32,59  | -      | 36     | 19 | 20     | 30 | 11 | -      |  |   |
| PD 12 L 050                    | 1                           | 12                                 | 36,38  | 35,62  | -      | 40     | 19 | 27     | 30 | 11 | -      |  |   |
| PD 13 L 050                    | 1                           | 13                                 | 39,41  | 38,65  | -      | 47     | 19 | 27     | 30 | 11 | -      |  |   |
| PD 14 L 050                    | 1                           | 14                                 | 42,45  | 41,69  | -      | 46     | 19 | 29     | 30 | 11 | -      |  |   |
| PD 15 L 050                    | 1                           | 15                                 | 45,48  | 44,72  | -      | 50     | 19 | 32     | 30 | 11 | -      |  |   |
| PD 16 L 050                    | 1                           | 16                                 | 48,51  | 47,75  | -      | 55     | 19 | 37     | 30 | 11 | -      |  |   |
| PD 17 L 050                    | 1                           | 17                                 | 51,54  | 50,78  | -      | 55     | 19 | 37     | 30 | 11 | -      |  |   |
| PD 18 L 050                    | 1                           | 18                                 | 54,57  | 53,81  | -      | 62     | 19 | 41     | 30 | 11 | -      |  |   |
| PD 19 L 050                    | 1                           | 19                                 | 57,61  | 56,84  | -      | 62     | 19 | 41     | 30 | 11 | -      |  |   |
| PD 20 L 050                    | 1                           | 20                                 | 60,64  | 59,88  | -      | 67     | 19 | 47     | 30 | 11 | -      |  |   |
| PD 21 L 050                    | 1                           | 21                                 | 63,67  | 62,91  | -      | 67     | 19 | 47     | 30 | 11 | -      |  |   |
| PD 22 L 050                    | 1                           | 22                                 | 66,70  | 65,94  | -      | 73     | 19 | 50     | 30 | 11 | -      |  |   |
| PD 23 L 050                    | 1                           | 24                                 | 69,73  | 68,97  | -      | 73     | 19 | 50     | 30 | 11 | -      |  |   |
| PD 24 L 050                    | 1                           | 26                                 | 72,77  | 72,01  | -      | 80     | 19 | 57     | 32 | 13 | -      |  |   |
| PD 25 L 050                    | 1                           | 25                                 | 75,80  | 75,04  | -      | 80     | 19 | 58     | 32 | 13 | -      | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 26 L 050                    | 1                           | 26                                 | 78,83  | 78,07  | -      | 88     | 19 | 64     | 32 | 13 | -      |  |   |
| PD 27 L 050                    | 1                           | 27                                 | 81,86  | 81,10  | -      | 88     | 19 | 64     | 32 | 13 | -      |  |   |
| PD 28 L 050                    | 1                           | 28                                 | 84,89  | 84,13  | -      | 94     | 19 | 70     | 32 | 13 | -      |  |   |
| PD 29 L 050                    | 1                           | 29                                 | 87,93  | 87,16  | -      | 94     | 19 | 70     | 32 | 13 | -      |  |   |
| PD 30 L 050                    | 1                           | 30                                 | 90,96  | 90,20  | -      | 98     | 19 | 72     | 34 | 15 | -      |  |   |
| PD 32 L 050                    | 1                           | 32                                 | 97,02  | 96,26  | -      | 100    | 19 | 75     | 34 | 15 | -      |  |   |
| PD 33 L 050                    | 1                           | 33                                 | 100,05 | 99,29  | -      | 108    | 19 | 80     | 34 | 15 | -      |  |   |
| PD 34 L 050                    | 1                           | 34                                 | 103,08 | 102,32 | -      | 108    | 19 | 85     | 34 | 15 | -      |  |   |
| PD 35 L 050                    | 1                           | 35                                 | 106,12 | 105,35 | -      | 113    | 19 | 88     | 34 | 15 | -      |  |   |
| PD 36 L 050                    | 1                           | 36                                 | 109,15 | 108,39 | -      | 113    | 19 | 88     | 34 | 15 | -      |  |   |
| PD 40 L 050                    | 2                           | 40                                 | 121,28 | 120,52 | 100    | 129    | 19 | 68     | 34 | 15 | -      |  |   |
| PD 41 L 050                    | 2                           | 41                                 | 124,31 | 123,55 | 103    | 129    | 19 | 68     | 34 | 15 | -      |  |   |
| PD 42 L 050                    | 2                           | 42                                 | 127,34 | 126,58 | 106    | 137    | 19 | 68     | 34 | 15 | -      |  |   |
| PD 44 L 050                    | 2                           | 44                                 | 133,40 | 132,64 | 112    | 142    | 19 | 68     | 34 | 15 | -      |  |   |
| PD 45 L 050                    | 2                           | 45                                 | 136,44 | 135,67 | 115    | 142    | 19 | 68     | 34 | 15 | -      |  |   |
| PD 47 L 050                    | 2                           | 47                                 | 142,50 | 141,74 | 121    | 149    | 19 | 68     | 34 | 15 | -      |  |   |
| PD 48 L 050                    | 2                           | 48                                 | 145,53 | 144,77 | 124    | 151    | 19 | 68     | 46 | 27 | -      |  |   |
| PD 49 L 050                    | 3                           | 49                                 | 148,56 | 147,80 | 127    | -      | 19 | 68     | 46 | 27 | -      |  |   |
| PD 50 L 050                    | 3                           | 50                                 | 151,60 | 150,83 | 130    | -      | 19 | 68     | 46 | 27 | -      |  |   |
| PD 52 L 050                    | 3                           | 52                                 | 157,66 | 156,90 | 136    | -      | 19 | 68     | 46 | 27 | -      | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 56 L 050                    | 3                           | 56                                 | 169,79 | 169,02 | 139    | -      | 19 | 68     | 46 | 27 | -      |  |   |
| PD 57 L 050                    | 3                           | 57                                 | 172,82 | 172,06 | 152    | -      | 19 | 68     | 46 | 27 | -      |  |   |
| PD 60 L 050                    | 3                           | 60                                 | 181,91 | 181,15 | 160    | -      | 19 | 68     | 46 | 27 | -      |  |   |
| PD 65 L 050                    | 3                           | 65                                 | 197,07 | 196,31 | 176    | -      | 19 | 68     | 46 | 27 | -      |  |   |
| PD 66 L 050                    | 3                           | 66                                 | 200,11 | 199,34 | 179    | -      | 19 | 68     | 46 | 27 | -      |  |   |
| PD 72 L 050                    | 3                           | 72                                 | 218,30 | 217,54 | 197    | -      | 19 | 75     | 46 | 27 | -      |  |   |
| PD 84 L 050                    | 3                           | 84                                 | 254,68 | 253,92 | 233    | -      | 19 | 75     | 46 | 27 | -      |  |   |
| PD 90 L 050                    | 4                           | 90                                 | 272,87 | 272,11 | 252    | -      | 19 | 75     | 46 | 27 | -      |  |   |
| PD 96 L 050                    | 4                           | 96                                 | 291,06 | 290,30 | 270    | -      | 19 | 80     | 46 | 27 | -      |  |   |
| PD 120 L 050                   | 5                           | 120                                | 363,83 | 363,07 | 342    | -      | 19 | 85     | 46 | 27 | -      |  |   |

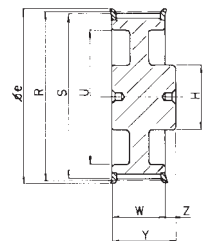
PD ... L 075

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| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W    | H<br>Ø | Y  | Z    | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|------------------------------------|--------|--------|--------|--------|------|--------|----|------|--------|--|---|
| PD 10 L 075                    | 1                           | 10                                 | 30,32  | 29,56  | -      | 33     | 25,4 | 20     | 38 | 12,6 | -      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PD 11 L 075                    | 1                           | 11                                 | 33,35  | 32,59  | -      | 36     | 25,4 | 20     | 38 | 12,6 | -      |  |   |
| PD 12 L 075                    | 1                           | 12                                 | 36,38  | 35,62  | -      | 40     | 25,4 | 27     | 38 | 12,6 | -      |  |   |
| PD 13 L 075                    | 1                           | 13                                 | 39,41  | 38,65  | -      | 47     | 25,4 | 27     | 38 | 12,6 | -      |  |   |
| PD 14 L 075                    | 1                           | 14                                 | 42,45  | 41,69  | -      | 46     | 25,4 | 29     | 38 | 12,6 | -      |  |   |
| PD 15 L 075                    | 1                           | 15                                 | 45,48  | 44,72  | -      | 50     | 25,4 | 32     | 38 | 12,6 | -      |  |   |
| PD 16 L 075                    | 1                           | 16                                 | 48,51  | 47,75  | -      | 55     | 25,4 | 37     | 38 | 12,6 | -      |  |   |
| PD 17 L 075                    | 1                           | 17                                 | 51,54  | 50,78  | -      | 55     | 25,4 | 37     | 38 | 12,6 | -      |  |   |
| PD 18 L 075                    | 1                           | 18                                 | 54,57  | 53,81  | -      | 62     | 25,4 | 41     | 38 | 12,6 | -      |  |   |
| PD 19 L 075                    | 1                           | 19                                 | 57,61  | 56,84  | -      | 62     | 25,4 | 41     | 38 | 12,6 | -      |  |   |
| PD 20 L 075                    | 1                           | 20                                 | 60,64  | 59,88  | -      | 67     | 25,4 | 47     | 38 | 12,6 | -      |  |   |
| PD 21 L 075                    | 1                           | 21                                 | 63,67  | 62,91  | -      | 67     | 25,4 | 47     | 38 | 12,6 | -      |  |   |
| PD 22 L 075                    | 1                           | 22                                 | 66,70  | 65,94  | -      | 73     | 25,4 | 50     | 38 | 12,6 | -      | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 23 L 075                    | 1                           | 24                                 | 69,73  | 68,97  | -      | 73     | 25,4 | 50     | 30 | 12,6 | -      |  |   |
| PD 24 L 075                    | 1                           | 26                                 | 72,77  | 72,01  | -      | 80     | 25,4 | 57     | 38 | 12,6 | -      |  |   |
| PD 25 L 075                    | 1                           | 25                                 | 75,80  | 75,04  | -      | 80     | 25,4 | 58     | 38 | 12,6 | -      |  |   |
| PD 26 L 075                    | 1                           | 26                                 | 78,83  | 78,07  | -      | 88     | 25,4 | 64     | 38 | 12,6 | -      |  |   |
| PD 27 L 075                    | 1                           | 27                                 | 81,86  | 81,10  | -      | 88     | 25,4 | 64     | 38 | 12,6 | -      |  |   |
| PD 28 L 075                    | 1                           | 28                                 | 84,89  | 84,13  | -      | 94     | 25,4 | 70     | 38 | 12,6 | -      |  |   |
| PD 29 L 075                    | 1                           | 29                                 | 87,93  | 87,16  | -      | 94     | 25,4 | 70     | 38 | 12,6 | -      |  |   |
| PD 30 L 075                    | 1                           | 30                                 | 90,96  | 90,20  | -      | 98     | 25,4 | 72     | 38 | 12,6 | -      |  |   |
| PD 32 L 075                    | 1                           | 32                                 | 97,02  | 96,26  | -      | 100    | 25,4 | 75     | 38 | 12,6 | -      |  |   |
| PD 33 L 075                    | 1                           | 33                                 | 100,05 | 99,29  | -      | 108    | 25,4 | 80     | 38 | 12,6 | -      |  |   |
| PD 34 L 075                    | 1                           | 34                                 | 103,08 | 102,32 | -      | 108    | 25,4 | 85     | 38 | 12,6 | -      |  |   |
| PD 35 L 075                    | 1                           | 35                                 | 106,12 | 105,35 | -      | 113    | 25,4 | 88     | 38 | 12,6 | -      |  |   |
| PD 36 L 075                    | 1                           | 36                                 | 109,15 | 108,39 | -      | 113    | 25,4 | 88     | 38 | 12,6 | -      | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 40 L 075                    | 2                           | 40                                 | 121,28 | 120,52 | 100    | 129    | 25,4 | 68     | 38 | 12,6 | -      |  |   |
| PD 41 L 075                    | 2                           | 41                                 | 124,31 | 123,55 | 103    | 129    | 25,4 | 68     | 38 | 12,6 | -      |  |   |
| PD 42 L 075                    | 2                           | 42                                 | 127,34 | 126,58 | 106    | 137    | 25,4 | 68     | 38 | 12,6 | -      |  |   |
| PD 44 L 075                    | 2                           | 44                                 | 133,40 | 132,64 | 112    | 142    | 25,4 | 68     | 38 | 12,6 | -      |  |   |
| PD 45 L 075                    | 2                           | 45                                 | 136,44 | 135,67 | 115    | 142    | 25,4 | 68     | 38 | 12,6 | -      |  |   |
| PD 47 L 075                    | 2                           | 47                                 | 142,50 | 141,74 | 121    | 149    | 25,4 | 68     | 38 | 12,6 | -      |  |   |
| PD 48 L 075                    | 2                           | 48                                 | 145,53 | 144,77 | 124    | 151    | 25,4 | 68     | 48 | 22,6 | -      |  |   |
| PD 49 L 075                    | 3                           | 49                                 | 148,56 | 147,80 | 127    | -      | 25,4 | 68     | 48 | 22,6 | -      |  |   |
| PD 50 L 075                    | 3                           | 50                                 | 151,60 | 150,83 | 130    | -      | 25,4 | 68     | 48 | 22,6 | -      |  |   |
| PD 52 L 075                    | 3                           | 52                                 | 157,66 | 156,90 | 136    | -      | 25,4 | 68     | 48 | 22,6 | -      |  |   |
| PD 56 L 075                    | 3                           | 56                                 | 169,79 | 169,02 | 139    | -      | 25,4 | 68     | 48 | 22,6 | -      |  |   |
| PD 57 L 075                    | 3                           | 57                                 | 172,82 | 172,06 | 152    | -      | 25,4 | 68     | 48 | 22,6 | -      |  |   |
| PD 60 L 075                    | 3                           | 60                                 | 181,91 | 181,15 | 160    | -      | 25,4 | 68     | 48 | 22,6 | -      |  |   |
| PD 65 L 075                    | 3                           | 65                                 | 197,07 | 196,31 | 176    | -      | 25,4 | 68     | 48 | 22,6 | -      |  |   |
| PD 66 L 075                    | 3                           | 66                                 | 200,11 | 199,34 | 179    | -      | 25,4 | 68     | 48 | 22,6 | -      | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 72 L 075                    | 3                           | 72                                 | 218,30 | 217,54 | 197    | -      | 25,4 | 75     | 48 | 22,6 | -      |  |   |
| PD 84 L 075                    | 3                           | 84                                 | 254,68 | 253,92 | 233    | -      | 25,4 | 75     | 48 | 22,6 | -      |  |   |
| PD 90 L 075                    | 4                           | 90                                 | 272,87 | 272,11 | 252    | -      | 25,4 | 75     | 48 | 22,6 | 19     |  |   |
| PD 96 L 075                    | 4                           | 96                                 | 291,06 | 290,30 | 270    | -      | 25,4 | 80     | 48 | 22,6 | 19     |  |   |
| PD 120 L 075                   | 5                           | 120                                | 363,83 | 363,07 | 342    | -      | 25,4 | 85     | 48 | 22,6 | 19     |  |   |



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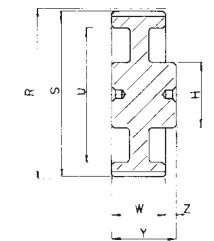


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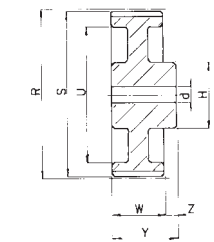
PD ... L 100

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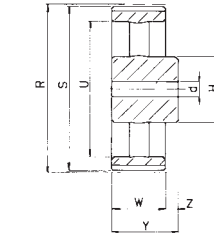
| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W  | H<br>Ø | Y  | Z  | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|------------------------------------|--------|--------|--------|--------|----|--------|----|----|--------|--|---|
| PD 10 L 100                    | 1                           | 10                                 | 30,32  | 29,56  | -      | 33     | 32 | 20     | 46 | 14 | -      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PD 11 L 100                    | 1                           | 11                                 | 33,35  | 32,59  | -      | 36     | 32 | 20     | 46 | 14 | -      |  |   |
| PD 12 L 100                    | 1                           | 12                                 | 36,38  | 35,62  | -      | 40     | 32 | 27     | 46 | 14 | -      |  |   |
| PD 13 L 100                    | 1                           | 13                                 | 39,41  | 38,65  | -      | 47     | 32 | 27     | 46 | 14 | -      |  |   |
| PD 14 L 100                    | 1                           | 14                                 | 42,45  | 41,69  | -      | 46     | 32 | 29     | 46 | 14 | -      |  |   |
| PD 15 L 100                    | 1                           | 15                                 | 45,48  | 44,72  | -      | 50     | 32 | 32     | 46 | 14 | -      |  |   |
| PD 16 L 100                    | 1                           | 16                                 | 48,51  | 47,75  | -      | 55     | 32 | 37     | 46 | 14 | -      |  |   |
| PD 17 L 100                    | 1                           | 17                                 | 51,54  | 50,78  | -      | 55     | 32 | 37     | 46 | 14 | -      |  |   |
| PD 18 L 100                    | 1                           | 18                                 | 54,57  | 53,81  | -      | 62     | 32 | 41     | 46 | 14 | -      |  |   |
| PD 19 L 100                    | 1                           | 19                                 | 57,61  | 56,84  | -      | 62     | 32 | 41     | 46 | 14 | -      |  |   |
| PD 20 L 100                    | 1                           | 20                                 | 60,64  | 59,88  | -      | 67     | 32 | 47     | 46 | 14 | -      |  |   |
| PD 21 L 100                    | 1                           | 21                                 | 63,67  | 62,91  | -      | 67     | 32 | 47     | 46 | 14 | -      |  |   |
| PD 22 L 100                    | 1                           | 22                                 | 66,70  | 65,94  | -      | 73     | 32 | 50     | 46 | 14 | -      | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 23 L 100                    | 1                           | 24                                 | 69,73  | 68,97  | -      | 73     | 32 | 50     | 46 | 14 | -      |  |   |
| PD 24 L 100                    | 1                           | 26                                 | 72,77  | 72,01  | -      | 80     | 32 | 57     | 46 | 14 | -      |  |   |
| PD 25 L 100                    | 1                           | 25                                 | 75,80  | 75,04  | -      | 80     | 32 | 58     | 46 | 14 | -      |  |   |
| PD 26 L 100                    | 1                           | 26                                 | 78,83  | 78,07  | -      | 88     | 32 | 64     | 46 | 14 | -      |  |   |
| PD 27 L 100                    | 1                           | 27                                 | 81,86  | 81,10  | -      | 88     | 32 | 64     | 46 | 14 | -      |  |   |
| PD 28 L 100                    | 1                           | 28                                 | 84,89  | 84,13  | -      | 94     | 32 | 70     | 46 | 14 | -      |  |   |
| PD 29 L 100                    | 1                           | 29                                 | 87,93  | 87,16  | -      | 94     | 32 | 70     | 46 | 14 | -      |  |   |
| PD 30 L 100                    | 1                           | 30                                 | 90,96  | 90,20  | -      | 98     | 32 | 72     | 46 | 14 | -      |  |   |
| PD 32 L 100                    | 1                           | 32                                 | 97,02  | 96,26  | -      | 100    | 32 | 75     | 46 | 14 | -      |  |   |
| PD 33 L 100                    | 1                           | 33                                 | 100,05 | 99,29  | -      | 108    | 32 | 80     | 46 | 14 | -      |  |   |
| PD 34 L 100                    | 1                           | 34                                 | 103,08 | 102,32 | -      | 108    | 32 | 85     | 46 | 14 | -      |  |   |
| PD 35 L 100                    | 1                           | 35                                 | 106,12 | 105,35 | -      | 113    | 32 | 88     | 46 | 14 | -      |  |   |
| PD 36 L 100                    | 1                           | 36                                 | 109,15 | 108,39 | -      | 113    | 32 | 88     | 46 | 14 | -      | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 40 L 100                    | 2                           | 40                                 | 121,28 | 120,52 | 100    | 129    | 32 | 68     | 46 | 14 | -      |  |   |
| PD 41 L 100                    | 2                           | 41                                 | 124,31 | 123,55 | 103    | 129    | 32 | 68     | 46 | 14 | -      |  |   |
| PD 42 L 100                    | 2                           | 42                                 | 127,34 | 126,58 | 106    | 137    | 32 | 68     | 46 | 14 | -      |  |   |
| PD 44 L 100                    | 2                           | 44                                 | 133,40 | 132,64 | 112    | 142    | 32 | 68     | 46 | 14 | -      |  |   |
| PD 45 L 100                    | 2                           | 45                                 | 136,44 | 135,67 | 115    | 142    | 32 | 68     | 46 | 14 | -      |  |   |
| PD 47 L 100                    | 2                           | 47                                 | 142,50 | 141,74 | 121    | 149    | 32 | 68     | 46 | 14 | -      |  |   |
| PD 48 L 100                    | 2                           | 48                                 | 145,53 | 144,77 | 124    | 151    | 32 | 68     | 50 | 18 | -      |  |   |
| PD 49 L 100                    | 3                           | 49                                 | 148,56 | 147,80 | 127    | -      | 32 | 68     | 50 | 18 | -      |  |   |
| PD 50 L 100                    | 3                           | 50                                 | 151,60 | 150,83 | 130    | -      | 32 | 68     | 50 | 18 | -      |  |   |
| PD 52 L 100                    | 3                           | 52                                 | 157,66 | 156,90 | 136    | -      | 32 | 68     | 50 | 18 | -      |  |   |
| PD 56 L 100                    | 3                           | 56                                 | 169,79 | 169,02 | 139    | -      | 32 | 68     | 50 | 18 | -      |  |   |
| PD 57 L 100                    | 3                           | 57                                 | 172,82 | 172,06 | 152    | -      | 32 | 68     | 50 | 18 | -      |  |   |
| PD 60 L 100                    | 3                           | 60                                 | 181,91 | 181,15 | 160    | -      | 32 | 75     | 54 | 22 | -      |  |   |
| PD 65 L 100                    | 3                           | 65                                 | 197,07 | 196,31 | 176    | -      | 32 | 75     | 54 | 22 | -      |  |   |
| PD 66 L 100                    | 3                           | 66                                 | 200,11 | 199,34 | 179    | -      | 32 | 75     | 54 | 22 | -      | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 72 L 100                    | 3                           | 72                                 | 218,30 | 217,54 | 197    | -      | 32 | 75     | 54 | 22 | -      |  |   |
| PD 84 L 100                    | 3                           | 84                                 | 254,68 | 253,92 | 233    | -      | 32 | 80     | 54 | 22 | -      |  |   |
| PD 90 L 100                    | 4                           | 90                                 | 272,87 | 272,11 | 252    | -      | 32 | 80     | 54 | 22 | 19     |  |   |
| PD 96 L 100                    | 4                           | 96                                 | 291,06 | 290,30 | 270    | -      | 32 | 80     | 54 | 22 | 19     |  |   |
| PD 120 L 100                   | 5                           | 120                                | 363,83 | 363,07 | 342    | -      | 32 | 90     | 54 | 22 | 19     |  |   |



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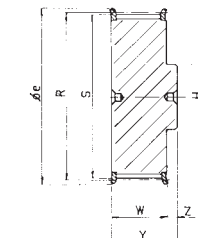




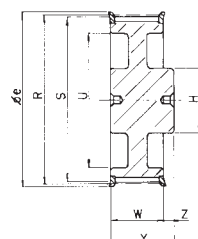
PD ... H 075

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| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W    | H<br>Ø | Y  | Z    | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|------------------------------------|--------|--------|--------|--------|------|--------|----|------|--------|--|---|
| PD 14 H 075                    | 1                           | 14                                 | 56,60  | 55,23  | -      | 62     | 25,4 | 40     | 38 | 12,6 | -      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PD 15 H 075                    | 1                           | 15                                 | 60,64  | 59,27  | -      | 67     | 25,4 | 45     | 38 | 12,6 | -      |  |   |
| PD 16 H 075                    | 1                           | 16                                 | 64,68  | 63,31  | -      | 67     | 25,4 | 47     | 38 | 12,6 | -      |  |   |
| PD 17 H 075                    | 1                           | 17                                 | 68,72  | 67,35  | -      | 77     | 25,4 | 49     | 38 | 12,6 | -      |  |   |
| PD 18 H 075                    | 1                           | 18                                 | 72,77  | 71,40  | -      | 80     | 25,4 | 57     | 38 | 12,6 | -      |  |   |
| PD 19 H 075                    | 1                           | 19                                 | 76,81  | 75,44  | -      | 84     | 25,4 | 60     | 38 | 12,6 | -      |  |   |
| PD 20 H 075                    | 1                           | 20                                 | 80,85  | 79,48  | -      | 88     | 25,4 | 64     | 38 | 12,6 | -      |  |   |
| PD 21 H 075                    | 1                           | 21                                 | 84,89  | 83,52  | -      | 94     | 25,4 | 64     | 38 | 12,6 | -      |  |   |
| PD 22 H 075                    | 1                           | 22                                 | 88,94  | 87,57  | -      | 94     | 25,4 | 70     | 38 | 12,6 | -      |  |   |
| PD 23 H 075                    | 1                           | 23                                 | 92,98  | 91,61  | -      | 98     | 25,4 | 72     | 38 | 12,6 | -      |  |   |
| PD 24 H 075                    | 1                           | 24                                 | 97,02  | 95,65  | -      | 104    | 25,4 | 80     | 38 | 12,6 | -      |  |   |
| PD 25 H 075                    | 1                           | 25                                 | 101,06 | 99,69  | -      | 104    | 25,4 | 80     | 38 | 12,6 | -      |  |   |
| PD 26 H 075                    | 1                           | 26                                 | 105,11 | 103,74 | -      | 108    | 25,4 | 85     | 38 | 12,6 | -      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PD 27 H 075                    | 1                           | 27                                 | 109,15 | 107,78 | -      | 113    | 25,4 | 88     | 38 | 12,6 | -      |  |   |
| PD 28 H 075                    | 1                           | 28                                 | 113,19 | 111,92 | -      | 118    | 25,4 | 94     | 38 | 12,6 | -      |  |   |
| PD 29 H 075                    | 1                           | 29                                 | 117,23 | 115,86 | -      | 121    | 25,4 | 96     | 38 | 12,6 | -      |  |   |
| PD 30 H 075                    | 1                           | 30                                 | 121,28 | 119,91 | -      | 129    | 25,4 | 104    | 38 | 12,6 | -      |  |   |
| PD 32 H 075                    | 1                           | 32                                 | 129,36 | 127,99 | -      | 137    | 25,4 | 112    | 38 | 12,6 | -      |  |   |
| PD 33 H 075                    | 1                           | 33                                 | 133,40 | 132,03 | -      | 137    | 25,4 | 112    | 38 | 12,6 | -      |  |   |
| PD 34 H 075                    | 1                           | 34                                 | 137,45 | 136,08 | -      | 142    | 25,4 | 118    | 38 | 12,6 | -      |  |   |
| PD 35 H 075                    | 2                           | 35                                 | 141,49 | 140,12 | 118    | 145    | 25,4 | 68     | 48 | 22,6 | -      | without flanges<br>sans flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 36 H 075                    | 2                           | 36                                 | 145,53 | 144,16 | 118    | 151    | 25,4 | 68     | 48 | 22,6 | -      |  |   |
| PD 38 H 075                    | 2                           | 38                                 | 153,62 | 152,25 | 126    | 158    | 25,4 | 68     | 48 | 22,6 | -      |  |   |
| PD 40 H 075                    | 2                           | 40                                 | 161,70 | 160,33 | 134    | 168    | 25,4 | 68     | 48 | 22,6 | -      |  |   |
| PD 44 H 075                    | 2                           | 44                                 | 177,87 | 176,50 | 150    | 191    | 25,4 | 68     | 48 | 22,6 | -      |  |   |
| PD 45 H 075                    | 2                           | 45                                 | 181,91 | 180,54 | 154    | 189    | 25,4 | 68     | 48 | 22,6 | -      |  |   |
| PD 48 H 075                    | 2                           | 48                                 | 194,04 | 192,67 | 166    | 199    | 25,4 | 68     | 48 | 22,6 | -      |  |   |
| PD 49 H 075                    | 3                           | 49                                 | 198,08 | 196,71 | 170    | -      | 25,4 | 68     | 48 | 22,6 | -      |  |   |
| PD 50 H 075                    | 3                           | 50                                 | 202,13 | 200,76 | 174    | -      | 25,4 | 68     | 48 | 22,6 | -      |  |   |
| PD 52 H 075                    | 3                           | 52                                 | 210,21 | 208,84 | 182    | -      | 25,4 | 75     | 48 | 22,6 | -      |  |   |
| PD 60 H 075                    | 3                           | 60                                 | 242,55 | 241,18 | 215    | -      | 25,4 | 75     | 48 | 22,6 | -      |  |   |
| PD 70 H 075                    | 3                           | 70                                 | 282,98 | 281,61 | 255    | -      | 25,4 | 75     | 48 | 22,6 | -      |  |   |
| PD 72 H 075                    | 3                           | 72                                 | 291,06 | 289,69 | 263    | -      | 25,4 | 80     | 48 | 22,6 | -      | without flanges<br>sans flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 82 H 075                    | 6                           | 82                                 | 331,49 | 330,12 | 304    | -      | 25,4 | 80     | 55 | 29,6 | -      |  |   |
| PD 84 H 075                    | 5                           | 84                                 | 339,57 | 338,20 | 312    | -      | 25,4 | 90     | 55 | 29,6 | 19     |  |   |
| PD 94 H 075                    | 5                           | 94                                 | 380,00 | 378,63 | 352    | -      | 25,4 | 90     | 55 | 29,6 | 19     |  |   |
| PD 96 H 075                    | 5                           | 96                                 | 388,08 | 386,71 | 360    | -      | 25,4 | 100    | 55 | 29,6 | 19     |  |   |
| PD 106 H 075                   | 5                           | 106                                | 428,51 | 427,14 | 401    | -      | 25,4 | 100    | 55 | 29,6 | 19     |  |   |
| PD 116 H 075                   | 5                           | 116                                | 468,93 | 467,56 | 441    | -      | 25,4 | 100    | 55 | 29,6 | 19     |  |   |
| PD 118 H 075                   | 5                           | 118                                | 477,02 | 475,65 | 449    | -      | 25,4 | 100    | 55 | 29,6 | 19     |  |   |
| PD 120 H 075                   | 5                           | 120                                | 485,10 | 483,73 | 458    | -      | 25,4 | 100    | 55 | 29,6 | 19     |  |   |
| PD 150 H 075                   | 5                           | 150                                | 606,38 | 605,01 | 579    | -      | 25,4 | 100    | 55 | 29,6 | 19     |  |   |
| PD 152 H 075                   | 5                           | 152                                | 614,46 | 613,09 | 587    | -      | 25,4 | 100    | 55 | 29,6 | 19     |  |   |
| PD 154 H 075                   | 5                           | 154                                | 622,55 | 621,17 | 595    | -      | 25,4 | 100    | 55 | 29,6 | 19     |  |   |
| PD 156 H 075                   | 5                           | 156                                | 630,63 | 629,26 | 603    | -      | 25,4 | 120    | 55 | 29,6 | 19     |  |   |



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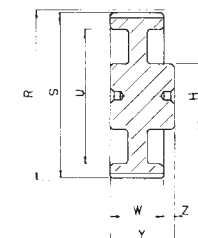


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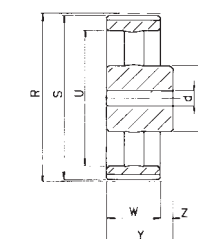
PD ... H 100

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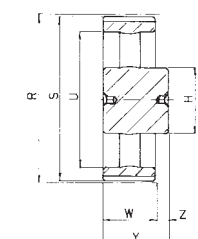
| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W    | H<br>Ø | Y  | Z    | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|------------------------------------|--------|--------|--------|--------|------|--------|----|------|--------|--|---|
| PD 14 H 100                    | 1                           | 14                                 | 56,60  | 55,23  | -      | 62     | 33,3 | 40     | 44 | 10,7 | -      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PD 15 H 100                    | 1                           | 15                                 | 60,64  | 59,27  | -      | 67     | 33,3 | 45     | 44 | 10,7 | -      |  |   |
| PD 16 H 100                    | 1                           | 16                                 | 64,68  | 63,31  | -      | 67     | 33,3 | 47     | 44 | 10,7 | -      |  |   |
| PD 17 H 100                    | 1                           | 17                                 | 68,72  | 67,35  | -      | 77     | 33,3 | 49     | 44 | 10,7 | -      |  |   |
| PD 18 H 100                    | 1                           | 18                                 | 72,77  | 71,40  | -      | 80     | 33,3 | 57     | 44 | 10,7 | -      |  |   |
| PD 19 H 100                    | 1                           | 19                                 | 76,81  | 75,44  | -      | 84     | 33,3 | 60     | 44 | 10,7 | -      |  |   |
| PD 20 H 100                    | 1                           | 20                                 | 80,85  | 79,48  | -      | 88     | 33,3 | 64     | 44 | 10,7 | -      |  |   |
| PD 21 H 100                    | 1                           | 21                                 | 84,89  | 83,52  | -      | 94     | 33,3 | 64     | 44 | 10,7 | -      |  |   |
| PD 22 H 100                    | 1                           | 22                                 | 88,94  | 87,57  | -      | 94     | 33,3 | 70     | 44 | 10,7 | -      |  |   |
| PD 23 H 100                    | 1                           | 23                                 | 92,98  | 91,61  | -      | 98     | 33,3 | 72     | 44 | 10,7 | -      |  |   |
| PD 24 H 100                    | 1                           | 24                                 | 97,02  | 95,65  | -      | 104    | 33,3 | 80     | 44 | 10,7 | -      |  |   |
| PD 25 H 100                    | 1                           | 25                                 | 101,06 | 99,69  | -      | 104    | 33,3 | 80     | 44 | 10,7 | -      | without flanges<br>sans flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 26 H 100                    | 1                           | 26                                 | 105,11 | 103,74 | -      | 108    | 33,3 | 85     | 44 | 10,7 | -      |  |   |
| PD 27 H 100                    | 1                           | 27                                 | 109,15 | 107,78 | -      | 113    | 33,3 | 88     | 44 | 10,7 | -      |  |   |
| PD 28 H 100                    | 1                           | 28                                 | 113,19 | 111,92 | -      | 118    | 33,3 | 94     | 48 | 14,7 | -      |  |   |
| PD 29 H 100                    | 1                           | 29                                 | 117,23 | 115,86 | -      | 121    | 33,3 | 96     | 48 | 14,7 | -      |  |   |
| PD 30 H 100                    | 1                           | 30                                 | 121,28 | 119,91 | -      | 129    | 33,3 | 104    | 50 | 16,7 | -      |  |   |
| PD 32 H 100                    | 1                           | 32                                 | 129,36 | 127,99 | -      | 137    | 33,3 | 112    | 52 | 18,7 | -      |  |   |
| PD 33 H 100                    | 1                           | 33                                 | 133,40 | 132,03 | -      | 137    | 33,3 | 112    | 52 | 18,7 | -      |  |   |
| PD 34 H 100                    | 1                           | 34                                 | 137,45 | 136,08 | -      | 142    | 33,3 | 118    | 52 | 18,7 | -      |  |   |
| PD 35 H 100                    | 2                           | 35                                 | 141,49 | 140,12 | 118    | 145    | 33,3 | 75     | 52 | 18,7 | -      |  |   |
| PD 36 H 100                    | 2                           | 36                                 | 145,53 | 144,16 | 118    | 151    | 33,3 | 75     | 52 | 18,7 | -      |  |   |
| PD 38 H 100                    | 2                           | 38                                 | 153,62 | 152,25 | 126    | 158    | 33,3 | 75     | 52 | 18,7 | -      |  |   |
| PD 40 H 100                    | 2                           | 40                                 | 161,70 | 160,33 | 134    | 168    | 33,3 | 75     | 54 | 20,7 | -      |  |   |
| PD 44 H 100                    | 2                           | 44                                 | 177,87 | 176,50 | 150    | 191    | 33,3 | 75     | 54 | 20,7 | -      |  |   |
| PD 45 H 100                    | 2                           | 45                                 | 181,91 | 180,54 | 154    | 189    | 33,3 | 75     | 54 | 20,7 | -      | without flanges<br>sans flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 48 H 100                    | 2                           | 48                                 | 194,04 | 192,67 | 166    | 199    | 33,3 | 75     | 60 | 26,7 | -      |  |   |
| PD 49 H 100                    | 3                           | 49                                 | 198,08 | 196,71 | 170    | -      | 33,3 | 75     | 60 | 26,7 | -      |  |   |
| PD 50 H 100                    | 3                           | 50                                 | 202,13 | 200,76 | 174    | -      | 33,3 | 75     | 60 | 26,7 | -      |  |   |
| PD 52 H 100                    | 3                           | 52                                 | 210,21 | 208,84 | 182    | -      | 33,3 | 75     | 60 | 26,7 | -      |  |   |
| PD 60 H 100                    | 3                           | 60                                 | 242,55 | 241,18 | 215    | -      | 33,3 | 80     | 60 | 26,7 | -      |  |   |
| PD 70 H 100                    | 3                           | 70                                 | 282,98 | 281,61 | 255    | -      | 33,3 | 80     | 60 | 26,7 | -      |  |   |
| PD 72 H 100                    | 3                           | 72                                 | 291,06 | 289,69 | 263    | -      | 33,3 | 80     | 60 | 26,7 | -      |  |   |
| PD 82 H 100                    | 6                           | 82                                 | 331,49 | 330,12 | 304    | -      | 33,3 | 80     | 60 | 26,7 | -      |  |   |
| PD 84 H 100                    | 5                           | 84                                 | 339,57 | 338,20 | 312    | -      | 33,3 | 90     | 60 | 26,7 | 19     |  |   |
| PD 94 H 100                    | 5                           | 94                                 | 380,00 | 378,63 | 352    | -      | 33,3 | 90     | 60 | 26,7 | 19     |  |   |
| PD 96 H 100                    | 5                           | 96                                 | 388,08 | 386,71 | 360    | -      | 33,3 | 100    | 60 | 26,7 | 19     |  |   |
| PD 106 H 100                   | 5                           | 106                                | 428,51 | 427,14 | 401    | -      | 33,3 | 100    | 60 | 26,7 | 19     |  |   |
| PD 116 H 100                   | 5                           | 116                                | 468,93 | 467,56 | 441    | -      | 33,3 | 100    | 60 | 26,7 | 19     |  |   |
| PD 118 H 100                   | 5                           | 118                                | 477,02 | 475,65 | 449    | -      | 33,3 | 100    | 60 | 26,7 | 19     |  |   |
| PD 120 H 100                   | 5                           | 120                                | 485,10 | 483,73 | 458    | -      | 33,3 | 100    | 60 | 26,7 | 19     |  |   |
| PD 150 H 100                   | 5                           | 150                                | 606,38 | 605,01 | 579    | -      | 33,3 | 100    | 60 | 26,7 | 19     |  |   |
| PD 152 H 100                   | 5                           | 152                                | 614,46 | 613,09 | 587    | -      | 33,3 | 100    | 60 | 26,7 | 19     |  |   |
| PD 154 H 100                   | 5                           | 154                                | 622,55 | 621,17 | 595    | -      | 33,3 | 100    | 60 | 26,7 | 19     |  |   |
| PD 156 H 100                   | 5                           | 156                                | 630,63 | 629,26 | 603    | -      | 33,3 | 120    | 60 | 26,7 | 19     |  |   |



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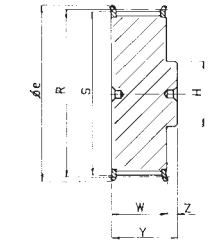
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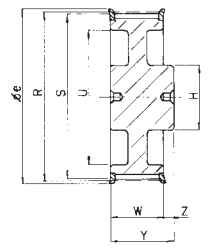
# PD ... H 150

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| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W  | H<br>Ø | Y  | Z  | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|------------------------------------|--------|--------|--------|--------|----|--------|----|----|--------|--|---|
| PD 14 H 150                    | 1                           | 14                                 | 56,60  | 55,23  | -      | 62     | 46 | 40     | 58 | 12 | -      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PD 15 H 150                    | 1                           | 15                                 | 60,64  | 59,27  | -      | 67     | 46 | 45     | 58 | 12 | -      |  |   |
| PD 16 H 150                    | 1                           | 16                                 | 64,68  | 63,31  | -      | 67     | 46 | 47     | 58 | 12 | -      |  |   |
| PD 17 H 150                    | 1                           | 17                                 | 68,72  | 67,35  | -      | 77     | 46 | 49     | 58 | 12 | -      |  |   |
| PD 18 H 150                    | 1                           | 18                                 | 72,77  | 71,40  | -      | 80     | 46 | 57     | 58 | 12 | -      |  |   |
| PD 19 H 150                    | 1                           | 19                                 | 76,81  | 75,44  | -      | 84     | 46 | 60     | 58 | 12 | -      |  |   |
| PD 20 H 150                    | 1                           | 20                                 | 80,85  | 79,48  | -      | 88     | 46 | 64     | 58 | 12 | -      |  |   |
| PD 21 H 150                    | 1                           | 21                                 | 84,89  | 83,52  | -      | 94     | 46 | 64     | 58 | 12 | -      |  |   |
| PD 22 H 150                    | 1                           | 22                                 | 88,94  | 87,57  | -      | 94     | 46 | 70     | 58 | 12 | -      |  |   |
| PD 23 H 150                    | 1                           | 23                                 | 92,98  | 91,61  | -      | 98     | 46 | 72     | 58 | 12 | -      |  |   |
| PD 24 H 150                    | 1                           | 24                                 | 97,02  | 95,65  | -      | 104    | 46 | 80     | 58 | 12 | -      |  |   |
| PD 25 H 150                    | 1                           | 25                                 | 101,06 | 99,69  | -      | 104    | 46 | 80     | 58 | 12 | -      |  |   |
| PD 26 H 150                    | 1                           | 26                                 | 105,11 | 103,74 | -      | 108    | 46 | 85     | 58 | 12 | -      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 27 H 150                    | 1                           | 27                                 | 109,15 | 107,78 | -      | 113    | 46 | 88     | 58 | 12 | -      |  |   |
| PD 28 H 150                    | 1                           | 28                                 | 113,19 | 111,92 | -      | 118    | 46 | 94     | 58 | 12 | -      |  |   |
| PD 29 H 150                    | 1                           | 29                                 | 117,23 | 115,86 | -      | 121    | 46 | 96     | 58 | 12 | -      |  |   |
| PD 30 H 150                    | 1                           | 30                                 | 121,28 | 119,91 | -      | 129    | 46 | 104    | 58 | 12 | -      |  |   |
| PD 32 H 150                    | 1                           | 32                                 | 129,36 | 127,99 | -      | 137    | 46 | 112    | 58 | 12 | -      |  |   |
| PD 33 H 150                    | 1                           | 33                                 | 133,40 | 132,03 | -      | 137    | 46 | 112    | 58 | 12 | -      |  |   |
| PD 34 H 150                    | 1                           | 34                                 | 137,45 | 136,08 | -      | 142    | 46 | 118    | 58 | 12 | -      |  |   |
| PD 35 H 150                    | 2                           | 35                                 | 141,49 | 140,12 | 118    | 145    | 46 | 75     | 58 | 22 | -      | without flanges<br>sans flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 36 H 150                    | 2                           | 36                                 | 145,53 | 144,16 | 118    | 151    | 46 | 75     | 58 | 22 | -      |  |   |
| PD 38 H 150                    | 2                           | 38                                 | 153,62 | 152,25 | 126    | 158    | 46 | 75     | 58 | 22 | -      |  |   |
| PD 40 H 150                    | 2                           | 40                                 | 161,70 | 160,33 | 134    | 168    | 46 | 75     | 70 | 24 | -      |  |   |
| PD 44 H 150                    | 2                           | 44                                 | 177,87 | 176,50 | 150    | 191    | 46 | 75     | 70 | 24 | -      |  |   |
| PD 45 H 150                    | 2                           | 45                                 | 181,91 | 180,54 | 154    | 189    | 46 | 75     | 70 | 24 | -      |  |   |
| PD 48 H 150                    | 2                           | 48                                 | 194,04 | 192,67 | 166    | 199    | 46 | 75     | 70 | 24 | -      |  |   |
| PD 49 H 150                    | 3                           | 49                                 | 198,08 | 196,71 | 170    | -      | 46 | 75     | 70 | 24 | -      |  |   |
| PD 50 H 150                    | 3                           | 50                                 | 202,13 | 200,76 | 174    | -      | 46 | 75     | 70 | 24 | -      |  |   |
| PD 52 H 150                    | 3                           | 52                                 | 210,21 | 208,84 | 182    | -      | 46 | 75     | 70 | 24 | -      |  |   |
| PD 60 H 150                    | 3                           | 60                                 | 242,55 | 241,18 | 215    | -      | 46 | 80     | 70 | 24 | -      |  |   |
| PD 70 H 150                    | 3                           | 70                                 | 282,98 | 281,61 | 255    | -      | 46 | 80     | 70 | 24 | -      |  |   |
| PD 72 H 150                    | 3                           | 72                                 | 291,06 | 289,69 | 263    | -      | 46 | 80     | 70 | 24 | -      | without flanges<br>sans flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 82 H 150                    | 6                           | 82                                 | 331,49 | 330,12 | 304    | -      | 46 | 80     | 70 | 24 | -      |  |   |
| PD 84 H 150                    | 5                           | 84                                 | 339,57 | 338,20 | 312    | -      | 46 | 90     | 70 | 24 | 19     |  |   |
| PD 94 H 150                    | 5                           | 94                                 | 380,00 | 378,63 | 352    | -      | 46 | 90     | 70 | 24 | 19     |  |   |
| PD 96 H 150                    | 5                           | 96                                 | 388,08 | 386,71 | 360    | -      | 46 | 100    | 70 | 24 | 19     |  |   |
| PD 106 H 150                   | 5                           | 106                                | 428,51 | 427,14 | 401    | -      | 46 | 100    | 70 | 24 | 19     |  |   |
| PD 116 H 150                   | 5                           | 116                                | 468,93 | 467,56 | 441    | -      | 46 | 100    | 70 | 24 | 19     |  |   |
| PD 118 H 150                   | 5                           | 118                                | 477,02 | 475,65 | 449    | -      | 46 | 100    | 70 | 24 | 19     |  |   |
| PD 120 H 150                   | 5                           | 120                                | 485,10 | 483,73 | 458    | -      | 46 | 100    | 70 | 24 | 19     |  |   |
| PD 150 H 150                   | 5                           | 150                                | 606,38 | 605,01 | 579    | -      | 46 | 100    | 70 | 24 | 19     |  |   |
| PD 152 H 150                   | 5                           | 152                                | 614,46 | 613,09 | 587    | -      | 46 | 100    | 70 | 24 | 19     |  |   |
| PD 154 H 150                   | 5                           | 154                                | 622,55 | 621,17 | 595    | -      | 46 | 100    | 70 | 24 | 19     |  |   |
| PD 156 H 150                   | 5                           | 156                                | 630,63 | 629,26 | 603    | -      | 46 | 120    | 70 | 24 | 19     |  |   |



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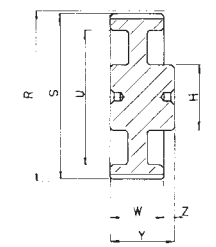


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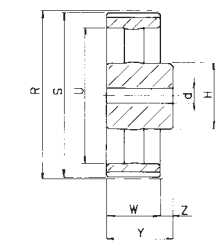
# PD ... H 200

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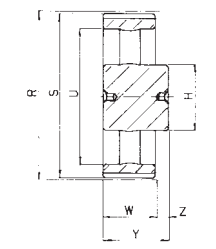
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|--------------------------------|-----------------------------|------------------------------------|--------|--------|--------|--------|------|--------|----|------|--------|--|---|
| PD 14 H 200                    | 1                           | 14                                 | 56,60  | 55,23  | -      | 62     | 59,5 | 40     | 72 | 12,5 | -      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PD 15 H 200                    | 1                           | 15                                 | 60,64  | 59,27  | -      | 67     | 59,5 | 45     | 72 | 12,5 | -      |  |   |
| PD 16 H 200                    | 1                           | 16                                 | 64,68  | 63,31  | -      | 67     | 59,5 | 47     | 72 | 12,5 | -      |  |   |
| PD 17 H 200                    | 1                           | 17                                 | 68,72  | 67,35  | -      | 77     | 59,5 | 49     | 72 | 12,5 | -      |  |   |
| PD 18 H 200                    | 1                           | 18                                 | 72,77  | 71,40  | -      | 80     | 59,5 | 57     | 72 | 12,5 | -      |  |   |
| PD 19 H 200                    | 1                           | 19                                 | 76,81  | 75,44  | -      | 84     | 59,5 | 60     | 72 | 12,5 | -      |  |   |
| PD 20 H 200                    | 1                           | 20                                 | 80,85  | 79,48  | -      | 88     | 59,5 | 64     | 72 | 12,5 | -      |  |   |
| PD 21 H 200                    | 1                           | 21                                 | 84,89  | 83,52  | -      | 94     | 59,5 | 64     | 72 | 12,5 | -      |  |   |
| PD 22 H 200                    | 1                           | 22                                 | 88,94  | 87,57  | -      | 94     | 59,5 | 70     | 72 | 12,5 | -      |  |   |
| PD 23 H 200                    | 1                           | 23                                 | 92,98  | 91,61  | -      | 98     | 59,5 | 72     | 72 | 12,5 | -      |  |   |
| PD 24 H 200                    | 1                           | 24                                 | 97,02  | 95,65  | -      | 104    | 59,5 | 80     | 72 | 12,5 | -      |  |   |
| PD 25 H 200                    | 1                           | 25                                 | 101,06 | 99,69  | -      | 104    | 59,5 | 80     | 72 | 12,5 | -      |  |   |
| PD 26 H 200                    | 1                           | 26                                 | 105,11 | 103,74 | -      | 108    | 59,5 | 85     | 72 | 12,5 | -      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 27 H 200                    | 1                           | 27                                 | 109,15 | 107,78 | -      | 113    | 59,5 | 88     | 72 | 12,5 | -      |  |   |
| PD 28 H 200                    | 1                           | 28                                 | 113,19 | 111,92 | -      | 118    | 59,5 | 94     | 72 | 12,5 | -      |  |   |
| PD 29 H 200                    | 1                           | 29                                 | 117,23 | 115,86 | -      | 121    | 59,5 | 96     | 72 | 12,5 | -      |  |   |
| PD 30 H 200                    | 1                           | 30                                 | 121,28 | 119,91 | -      | 129    | 59,5 | 104    | 72 | 12,5 | -      |  |   |
| PD 32 H 200                    | 1                           | 32                                 | 129,36 | 127,99 | -      | 137    | 59,5 | 112    | 72 | 12,5 | -      |  |   |
| PD 33 H 200                    | 1                           | 33                                 | 133,40 | 132,03 | -      | 137    | 59,5 | 112    | 72 | 12,5 | -      |  |   |
| PD 34 H 200                    | 1                           | 34                                 | 137,45 | 136,08 | -      | 142    | 59,5 | 118    | 72 | 12,5 | -      |  |   |
| PD 35 H 200                    | 2                           | 35                                 | 141,49 | 140,12 | 118    | 145    | 59,5 | 80     | 72 | 12,5 | -      |  |   |
| PD 36 H 200                    | 2                           | 36                                 | 145,53 | 144,16 | 118    | 151    | 59,5 | 80     | 72 | 12,5 | -      |  |   |
| PD 38 H 200                    | 2                           | 38                                 | 153,62 | 152,25 | 126    | 158    | 59,5 | 80     | 72 | 12,5 | -      |  |   |
| PD 40 H 200                    | 2                           | 40                                 | 161,70 | 160,33 | 134    | 168    | 59,5 | 80     | 72 | 12,5 | -      |  |   |
| PD 44 H 200                    | 2                           | 44                                 | 177,87 | 176,50 | 150    | 191    | 59,5 | 80     | 72 | 12,5 | -      |  |   |
| PD 45 H 200                    | 2                           | 45                                 | 181,91 | 180,54 | 154    | 189    | 59,5 | 80     | 72 | 12,5 | -      | without flanges<br>sans flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 48 H 200                    | 2                           | 48                                 | 194,04 | 192,67 | 166    | 199    | 59,5 | 80     | 80 | 20,5 | -      |  |   |
| PD 49 H 200                    | 3                           | 49                                 | 198,08 | 196,71 | 170    | -      | 59,5 | 80     | 80 | 20,5 | -      |  |   |
| PD 50 H 200                    | 3                           | 50                                 | 202,13 | 200,76 | 174    | -      | 59,5 | 80     | 80 | 20,5 | -      |  |   |
| PD 52 H 200                    | 3                           | 52                                 | 210,21 | 208,84 | 182    | -      | 59,5 | 80     | 80 | 20,5 | -      |  |   |
| PD 60 H 200                    | 3                           | 60                                 | 242,55 | 241,18 | 215    | -      | 59,5 | 90     | 80 | 20,5 | -      |  |   |
| PD 70 H 200                    | 3                           | 70                                 | 282,98 | 281,61 | 255    | -      | 59,5 | 90     | 80 | 20,5 | -      |  |   |
| PD 72 H 200                    | 3                           | 72                                 | 291,06 | 289,69 | 263    | -      | 59,5 | 90     | 80 | 20,5 | -      |  |   |
| PD 82 H 200                    | 6                           | 82                                 | 331,49 | 330,12 | 304    | -      | 59,5 | 90     | 80 | 20,5 | -      |  |   |
| PD 84 H 200                    | 5                           | 84                                 | 339,57 | 338,20 | 312    | -      | 59,5 | 100    | 80 | 20,5 | 19     |  |   |
| PD 94 H 200                    | 5                           | 94                                 | 380,00 | 378,63 | 352    | -      | 59,5 | 100    | 80 | 20,5 | 19     |  |   |
| PD 96 H 200                    | 5                           | 96                                 | 388,08 | 386,71 | 360    | -      | 59,5 | 100    | 80 | 20,5 | 19     |  |   |
| PD 106 H 200                   | 5                           | 106                                | 428,51 | 427,14 | 401    | -      | 59,5 | 100    | 80 | 20,5 | 19     |  |   |
| PD 116 H 200                   | 5                           | 116                                | 468,93 | 467,56 | 441    | -      | 59,5 | 100    | 80 | 20,5 | 19     |  |   |
| PD 118 H 200                   | 5                           | 118                                | 477,02 | 475,65 | 449    | -      | 59,5 | 100    | 80 | 20,5 | 19     |  |   |
| PD 120 H 200                   | 5                           | 120                                | 485,10 | 483,73 | 458    | -      | 59,5 | 120    | 80 | 20,5 | 19     |  |   |
| PD 150 H 200                   | 5                           | 150                                | 606,38 | 605,01 | 579    | -      | 59,5 | 120    | 80 | 20,5 | 19     |  |   |
| PD 152 H 200                   | 5                           | 152                                | 614,46 | 613,09 | 587    | -      | 59,5 | 120    | 80 | 20,5 | 19     |  |   |
| PD 154 H 200                   | 5                           | 154                                | 622,55 | 621,17 | 595    | -      | 59,5 | 120    | 80 | 20,5 | 19     |  |   |
| PD 156 H 200                   | 5                           | 156                                | 630,63 | 629,26 | 603    | -      | 59,5 | 130    | 80 | 20,5 | 19     |  |   |



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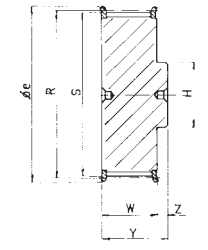


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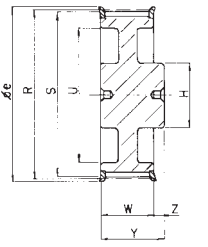
PD ... H 300

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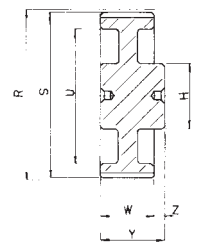
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|--------------------------------|-----------------------------|------------------------------------|--------|--------|--------|--------|------|--------|----|------|--------|--|---|
| PD 14 H 300                    | 1                           | 14                                 | 56,60  | 55,23  | -      | 62     | 85,7 | 40     | 98 | 12,3 | -      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PD 15 H 300                    | 1                           | 15                                 | 60,64  | 59,27  | -      | 67     | 85,7 | 45     | 98 | 12,3 | -      |  |   |
| PD 16 H 300                    | 1                           | 16                                 | 64,68  | 63,31  | -      | 67     | 85,7 | 47     | 98 | 12,3 | -      |  |   |
| PD 17 H 300                    | 1                           | 17                                 | 68,72  | 67,35  | -      | 77     | 85,7 | 49     | 98 | 12,3 | -      |  |   |
| PD 18 H 300                    | 1                           | 18                                 | 72,77  | 71,40  | -      | 80     | 85,7 | 57     | 98 | 12,3 | -      |  |   |
| PD 19 H 300                    | 1                           | 19                                 | 76,81  | 75,44  | -      | 84     | 85,7 | 60     | 98 | 12,3 | -      |  |   |
| PD 20 H 300                    | 1                           | 20                                 | 80,85  | 79,48  | -      | 88     | 85,7 | 64     | 98 | 12,3 | -      |  |   |
| PD 21 H 300                    | 1                           | 21                                 | 84,89  | 83,52  | -      | 94     | 85,7 | 64     | 98 | 12,3 | -      |  |   |
| PD 22 H 300                    | 1                           | 22                                 | 88,94  | 87,57  | -      | 94     | 85,7 | 70     | 98 | 12,3 | -      |  |   |
| PD 23 H 300                    | 1                           | 23                                 | 92,98  | 91,61  | -      | 98     | 85,7 | 72     | 98 | 12,3 | -      |  |   |
| PD 24 H 300                    | 1                           | 24                                 | 97,02  | 95,65  | -      | 104    | 85,7 | 80     | 98 | 12,3 | -      |  |   |
| PD 25 H 300                    | 1                           | 25                                 | 101,06 | 99,69  | -      | 104    | 85,7 | 80     | 98 | 12,3 | -      |  |   |
| PD 26 H 300                    | 1                           | 26                                 | 105,11 | 103,74 | -      | 108    | 85,7 | 85     | 98 | 12,3 | -      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 27 H 300                    | 1                           | 27                                 | 109,15 | 107,78 | -      | 113    | 85,7 | 88     | 98 | 12,3 | -      |  |   |
| PD 28 H 300                    | 1                           | 28                                 | 113,19 | 111,92 | -      | 118    | 85,7 | 94     | 98 | 12,3 | -      |  |   |
| PD 29 H 300                    | 1                           | 29                                 | 117,23 | 115,86 | -      | 121    | 85,7 | 96     | 98 | 12,3 | -      |  |   |
| PD 30 H 300                    | 1                           | 30                                 | 121,28 | 119,91 | -      | 129    | 85,7 | 104    | 98 | 12,3 | -      |  |   |
| PD 32 H 300                    | 1                           | 32                                 | 129,36 | 127,99 | -      | 137    | 85,7 | 112    | 98 | 12,3 | -      |  |   |
| PD 33 H 300                    | 1                           | 33                                 | 133,40 | 132,03 | -      | 137    | 85,7 | 112    | 98 | 12,3 | -      |  |   |
| PD 34 H 300                    | 1                           | 34                                 | 137,45 | 136,08 | -      | 142    | 85,7 | 118    | 98 | 12,3 | -      |  |   |
| PD 35 H 300                    | 2                           | 35                                 | 141,49 | 140,12 | 118    | 145    | 85,7 | 75     | 98 | 12,3 | -      |  |   |
| PD 36 H 300                    | 2                           | 36                                 | 145,53 | 144,16 | 118    | 151    | 85,7 | 80     | 98 | 12,3 | -      |  |   |
| PD 38 H 300                    | 2                           | 38                                 | 153,62 | 152,25 | 126    | 158    | 85,7 | 80     | 98 | 12,3 | -      |  |   |
| PD 40 H 300                    | 2                           | 40                                 | 161,70 | 160,33 | 134    | 168    | 85,7 | 80     | 98 | 12,3 | -      |  |   |
| PD 44 H 300                    | 2                           | 44                                 | 177,87 | 176,50 | 150    | 191    | 85,7 | 80     | 98 | 12,3 | -      |  |   |
| PD 45 H 300                    | 2                           | 45                                 | 181,91 | 180,54 | 154    | 189    | 85,7 | 80     | 98 | 12,3 | -      | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 48 H 300                    | 2                           | 48                                 | 194,04 | 192,67 | 166    | 199    | 85,7 | 90     | 98 | 12,3 | -      |  |   |
| PD 49 H 300                    | 3                           | 49                                 | 198,08 | 196,71 | 170    | -      | 85,7 | 90     | 98 | 12,3 | -      |  |   |
| PD 50 H 300                    | 3                           | 50                                 | 202,13 | 200,76 | 174    | -      | 85,7 | 90     | 98 | 12,3 | -      |  |   |
| PD 52 H 300                    | 3                           | 52                                 | 210,21 | 208,84 | 182    | -      | 85,7 | 90     | 98 | 12,3 | -      |  |   |
| PD 60 H 300                    | 3                           | 60                                 | 242,55 | 241,18 | 215    | -      | 85,7 | 100    | 98 | 12,3 | -      |  |   |
| PD 70 H 300                    | 3                           | 70                                 | 282,98 | 281,61 | 255    | -      | 85,7 | 100    | 98 | 12,3 | -      |  |   |
| PD 72 H 300                    | 3                           | 72                                 | 291,06 | 289,69 | 263    | -      | 85,7 | 100    | 98 | 12,3 | -      |  |   |
| PD 82 H 300                    | 6                           | 82                                 | 331,49 | 330,12 | 304    | -      | 85,7 | 100    | 98 | 12,3 | -      |  |   |
| PD 84 H 300                    | 5                           | 84                                 | 339,57 | 338,20 | 312    | -      | 85,7 | 100    | 98 | 12,3 | 19     |  |   |
| PD 94 H 300                    | 5                           | 94                                 | 380,00 | 378,63 | 352    | -      | 85,7 | 100    | 98 | 12,3 | 19     |  |   |
| PD 96 H 300                    | 5                           | 96                                 | 388,08 | 386,71 | 360    | -      | 85,7 | 110    | 98 | 12,3 | 19     |  |   |
| PD 106 H 300                   | 5                           | 106                                | 428,51 | 427,14 | 401    | -      | 85,7 | 110    | 98 | 12,3 | 19     |  |   |
| PD 116 H 300                   | 5                           | 116                                | 468,93 | 467,56 | 441    | -      | 85,7 | 110    | 98 | 12,3 | 19     |  |   |
| PD 118 H 300                   | 5                           | 118                                | 477,02 | 475,65 | 449    | -      | 85,7 | 110    | 98 | 12,3 | 19     |  |   |
| PD 120 H 300                   | 5                           | 120                                | 485,10 | 483,73 | 458    | -      | 85,7 | 120    | 98 | 12,3 | 19     |  |   |
| PD 150 H 300                   | 5                           | 150                                | 606,38 | 605,01 | 579    | -      | 85,7 | 120    | 98 | 12,3 | 19     |  |   |
| PD 152 H 300                   | 5                           | 152                                | 614,46 | 613,09 | 587    | -      | 85,7 | 120    | 98 | 12,3 | 19     |  |   |
| PD 154 H 300                   | 5                           | 154                                | 622,55 | 621,17 | 595    | -      | 85,7 | 120    | 98 | 12,3 | 19     |  |   |
| PD 156 H 300                   | 5                           | 156                                | 630,63 | 629,26 | 603    | -      | 85,7 | 130    | 98 | 12,3 | 19     |  |   |



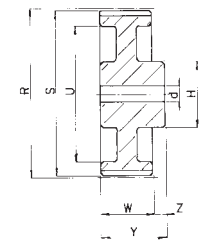
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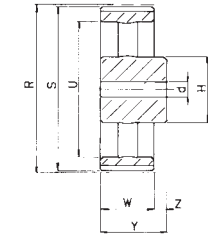
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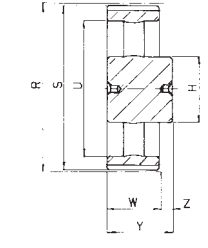
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PD ... XH 200

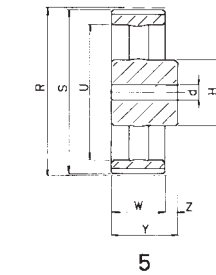
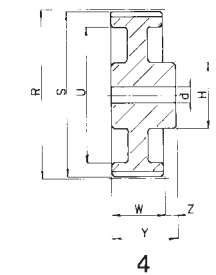
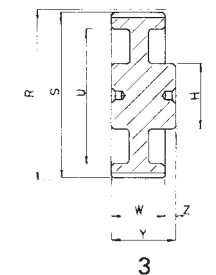
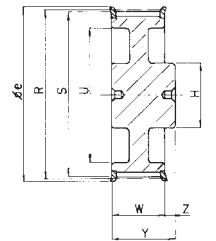
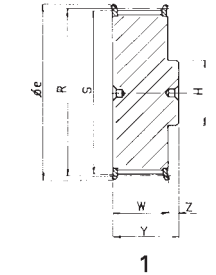
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| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W  | H<br>Ø | Y   | Z  | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|------------------------------------|--------|--------|--------|--------|----|--------|-----|----|--------|--|---|
| PD 18 XH 200                   | 1                           | 18                                 | 127,34 | 124,55 | -      | 134    | 65 | 100    | 80  | 15 | -      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 19 XH 200                   | 1                           | 19                                 | 134,41 | 131,62 | -      | 142    | 65 | 107    | 80  | 15 | -      |  |   |
| PD 20 XH 200                   | 1                           | 20                                 | 141,49 | 138,70 | -      | 150    | 65 | 114    | 80  | 15 | -      |  |   |
| PD 21 XH 200                   | 1                           | 21                                 | 148,56 | 145,77 | -      | 158    | 65 | 122    | 80  | 15 | -      |  |   |
| PD 22 XH 200                   | 1                           | 22                                 | 155,64 | 152,85 | -      | 166    | 65 | 128    | 80  | 15 | -      |  |   |
| PD 24 XH 200                   | 1                           | 24                                 | 169,79 | 167,00 | -      | 177    | 65 | 141    | 80  | 15 | -      |  |   |
| PD 25 XH 200                   | 2                           | 25                                 | 176,86 | 174,07 | -      | 186    | 65 | 90     | 80  | 15 | -      |  |   |
| PD 26 XH 200                   | 2                           | 26                                 | 183,94 | 171,15 | -      | 191    | 65 | 90     | 80  | 15 | -      |  |   |
| PD 27 XH 200                   | 1                           | 27                                 | 191,01 | 188,22 | -      | 200    | 65 | 158    | 80  | 15 | -      |  |   |
| PD 28 XH 200                   | 1                           | 28                                 | 198,08 | 195,29 | -      | 199    | 65 | 169    | 80  | 15 | -      |  |   |
| PD 30 XH 200                   | 2                           | 30                                 | 212,23 | 209,44 | 170    | 216    | 65 | 100    | 80  | 15 | -      |  |   |
| PD 32 XH 200                   | 2                           | 32                                 | 226,38 | 223,59 | 184    | 232    | 65 | 110    | 80  | 15 | -      |  |   |
| PD 34 XH 200                   | 2                           | 34                                 | 240,53 | 237,74 | 198    | 261    | 65 | 110    | 80  | 15 | -      |  |   |
| PD 38 XH 200                   | 2                           | 38                                 | 268,83 | 266,03 | 227    | 274    | 65 | 110    | 80  | 15 | -      |  |   |
| PD 40 XH 200                   | 2                           | 40                                 | 282,98 | 280,19 | 241    | 288    | 65 | 120    | 100 | 35 | -      |  |   |
| PD 46 XH 200                   | 3                           | 46                                 | 325,42 | 322,63 | 283    | -      | 65 | 120    | 100 | 35 | -      | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 48 XH 200                   | 4                           | 48                                 | 339,57 | 336,78 | 297    | -      | 65 | 120    | 100 | 35 | 19     |  |   |
| PD 58 XH 200                   | 4                           | 58                                 | 410,32 | 407,52 | 368    | -      | 65 | 120    | 100 | 35 | 19     |  |   |
| PD 60 XH 200                   | 4                           | 60                                 | 424,47 | 421,68 | 382    | -      | 65 | 130    | 100 | 35 | 19     |  |   |
| PD 70 XH 200                   | 5                           | 70                                 | 495,21 | 492,42 | 453    | -      | 65 | 130    | 100 | 35 | 19     |  |   |
| PD 72 XH 200                   | 5                           | 72                                 | 509,36 | 506,57 | 467    | -      | 65 | 140    | 100 | 35 | 19     |  |   |
| PD 78 XH 200                   | 5                           | 78                                 | 551,80 | 549,01 | 510    | -      | 65 | 140    | 100 | 35 | 19     |  |   |
| PD 80 XH 200                   | 5                           | 80                                 | 565,95 | 563,16 | 524    | -      | 65 | 140    | 100 | 35 | 19     |  |   |
| PD 82 XH 200                   | 5                           | 82                                 | 580,10 | 577,31 | 538    | -      | 65 | 140    | 100 | 35 | 19     |  |   |
| PD 84 XH 200                   | 5                           | 84                                 | 594,25 | 591,46 | 552    | -      | 65 | 150    | 100 | 35 | 19     |  |   |
| PD 94 XH 200                   | 5                           | 94                                 | 664,99 | 662,20 | 623    | -      | 65 | 150    | 100 | 35 | 19     |  |   |
| PD 96 XH 200                   | 5                           | 96                                 | 679,14 | 676,35 | 637    | -      | 65 | 160    | 100 | 35 | 19     |  |   |
| PD 118 XH 200                  | 5                           | 118                                | 834,78 | 831,99 | 792    | -      | 65 | 160    | 100 | 35 | 19     |  |   |
| PD 120 XH 200                  | 5                           | 120                                | 848,93 | 846,14 | 806    | -      | 65 | 170    | 100 | 35 | 19     |  |   |

PD ... XH 300

mm

| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W  | H<br>Ø | Y   | Z  | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |   |   |
|--------------------------------|-----------------------------|------------------------------------|--------|--------|--------|--------|----|--------|-----|----|--------|--|---|---|---|
| PD 18 XH 300                   | 1                           | 18                                 | 127,34 | 124,55 | –      | 134    | 92 | 100    | 107 | 15 | –      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición   |   |   |
| PD 19 XH 300                   | 1                           | 19                                 | 134,41 | 131,62 | –      | 142    | 92 | 107    | 107 | 15 | –      |  |   |   |   |
| PD 20 XH 300                   | 1                           | 20                                 | 141,49 | 138,70 | –      | 150    | 92 | 114    | 107 | 15 | –      |  |   |   |   |
| PD 21 XH 300                   | 1                           | 21                                 | 148,56 | 145,77 | –      | 158    | 92 | 122    | 107 | 15 | –      |  |   |   |   |
| PD 22 XH 300                   | 1                           | 22                                 | 155,64 | 152,85 | –      | 166    | 92 | 128    | 107 | 15 | –      |  |   |   |   |
| PD 24 XH 300                   | 1                           | 24                                 | 169,79 | 167,00 | –      | 177    | 92 | 141    | 107 | 15 | –      |  |   |   |   |
| PD 25 XH 300                   | 1                           | 25                                 | 176,86 | 174,07 | –      | 186    | 92 | 148    | 107 | 15 | –      |  |   |   |   |
| PD 26 XH 300                   | 1                           | 26                                 | 183,94 | 171,15 | –      | 191    | 92 | 157    | 107 | 15 | –      |  |   |   |   |
| PD 27 XH 300                   | 1                           | 27                                 | 191,01 | 188,22 | –      | 200    | 92 | 158    | 107 | 15 | –      |  |   |   |   |
| PD 28 XH 300                   | 1                           | 28                                 | 198,08 | 195,29 | –      | 199    | 92 | 169    | 107 | 15 | –      |  |   |   |   |
| PD 30 XH 300                   | 2                           | 30                                 | 212,23 | 209,44 | 170    | 216    | 92 | 110    | 107 | 15 | –      | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   | cast iron<br>fonte<br>Grauguss<br>fundición |   |
| PD 32 XH 300                   | 2                           | 32                                 | 226,38 | 223,59 | 184    | 232    | 92 | 110    | 107 | 15 | –      |  |   |   |   |
| PD 34 XH 300                   | 2                           | 34                                 | 240,53 | 237,74 | 198    | 261    | 92 | 110    | 107 | 15 | –      |  |   |   |   |
| PD 38 XH 300                   | 2                           | 38                                 | 268,83 | 266,03 | 227    | 274    | 92 | 110    | 107 | 15 | –      |  |   |   |   |
| PD 40 XH 300                   | 2                           | 40                                 | 282,98 | 280,19 | 241    | 288    | 92 | 120    | 100 | 8  | –      |  |   |   |   |
| PD 46 XH 300                   | 3                           | 46                                 | 325,42 | 322,63 | 283    | –      | 92 | 120    | 100 | 8  | –      |  |   |   |   |
| PD 48 XH 300                   | 4                           | 48                                 | 339,57 | 336,78 | 297    | –      | 92 | 120    | 100 | 8  | 19     |  |   |   |   |
| PD 58 XH 300                   | 4                           | 58                                 | 410,32 | 407,52 | 368    | –      | 92 | 120    | 100 | 8  | 19     |  |   |   |   |
| PD 60 XH 300                   | 4                           | 60                                 | 424,47 | 421,68 | 382    | –      | 92 | 120    | 100 | 8  | 19     |  |   |   |   |
| PD 70 XH 300                   | 5                           | 70                                 | 495,21 | 492,42 | 453    | –      | 92 | 130    | 100 | 8  | 19     |  |   |   |   |
| PD 72 XH 300                   | 5                           | 72                                 | 509,36 | 506,57 | 467    | –      | 92 | 140    | 120 | 28 | 19     | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |   | cast iron<br>fonte<br>Grauguss<br>fundición |
| PD 78 XH 300                   | 5                           | 78                                 | 551,80 | 549,01 | 510    | –      | 92 | 140    | 120 | 28 | 19     |  |   |   |   |
| PD 80 XH 300                   | 5                           | 80                                 | 565,95 | 563,16 | 524    | –      | 92 | 140    | 120 | 28 | 19     |  |   |   |   |
| PD 82 XH 300                   | 5                           | 82                                 | 580,10 | 577,31 | 538    | –      | 92 | 140    | 120 | 28 | 19     |  |   |   |   |
| PD 84 XH 300                   | 5                           | 84                                 | 594,25 | 591,46 | 552    | –      | 92 | 160    | 120 | 28 | 19     |  |   |   |   |
| PD 94 XH 300                   | 5                           | 94                                 | 664,99 | 662,20 | 623    | –      | 92 | 150    | 120 | 28 | 19     |  |   |   |   |
| PD 96 XH 300                   | 5                           | 96                                 | 679,14 | 676,35 | 637    | –      | 92 | 160    | 120 | 28 | 19     |  |   |   |   |
| PD 118 XH 300                  | 5                           | 118                                | 834,78 | 831,99 | 792    | –      | 92 | 160    | 120 | 28 | 19     |  |   |   |   |
| PD 120 XH 300                  | 5                           | 120                                | 848,93 | 846,14 | 806    | –      | 92 | 170    | 120 | 28 | 19     |  |   |   |   |



PD ... XH 400

mm

| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W   | H<br>Ø | Y   | Z  | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |   |   |
|--------------------------------|-----------------------------|------------------------------------|--------|--------|--------|--------|-----|--------|-----|----|--------|--|---|---|---|
| PD 18 XH 400                   | 1                           | 18                                 | 127,34 | 124,55 | –      | 134    | 119 | 100    | 135 | 16 | –      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición   |   |   |
| PD 19 XH 400                   | 1                           | 19                                 | 134,41 | 131,62 | –      | 142    | 119 | 107    | 135 | 16 | –      |  |   |   |   |
| PD 20 XH 400                   | 1                           | 20                                 | 141,49 | 138,70 | –      | 150    | 119 | 114    | 135 | 16 | –      |  |   |   |   |
| PD 21 XH 400                   | 1                           | 21                                 | 148,56 | 145,77 | –      | 158    | 119 | 122    | 135 | 16 | –      |  |   |   |   |
| PD 22 XH 400                   | 1                           | 22                                 | 155,64 | 152,85 | –      | 166    | 119 | 128    | 135 | 16 | –      |  |   |   |   |
| PD 24 XH 400                   | 1                           | 24                                 | 169,79 | 167,00 | –      | 177    | 119 | 141    | 135 | 15 | –      |  |   |   |   |
| PD 25 XH 400                   | 1                           | 25                                 | 176,86 | 174,07 | –      | 186    | 119 | 148    | 135 | 16 | –      |  |   |   |   |
| PD 26 XH 400                   | 1                           | 26                                 | 183,94 | 171,15 | –      | 191    | 119 | 157    | 135 | 16 | –      |  |   |   |   |
| PD 27 XH 400                   | 1                           | 27                                 | 191,01 | 188,22 | –      | 200    | 119 | 158    | 135 | 16 | –      |  |   |   |   |
| PD 28 XH 400                   | 1                           | 28                                 | 198,08 | 195,29 | –      | 199    | 119 | 169    | 135 | 15 | –      |  |   |   |   |
| PD 30 XH 400                   | 2                           | 30                                 | 212,23 | 209,44 | 170    | 216    | 119 | 120    | 135 | 16 | –      | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   | cast iron<br>fonte<br>Grauguss<br>fundición |   |
| PD 32 XH 400                   | 2                           | 32                                 | 226,38 | 223,59 | 184    | 232    | 119 | 120    | 135 | 15 | –      |  |   |   |   |
| PD 34 XH 400                   | 2                           | 34                                 | 240,53 | 237,74 | 198    | 261    | 119 | 120    | 135 | 16 | –      |  |   |   |   |
| PD 38 XH 400                   | 2                           | 38                                 | 268,83 | 266,03 | 227    | 274    | 119 | 120    | 135 | 15 | –      |  |   |   |   |
| PD 40 XH 400                   | 2                           | 40                                 | 282,98 | 280,19 | 241    | 288    | 119 | 120    | 135 | 16 | –      |  |   |   |   |
| PD 46 XH 400                   | 3                           | 46                                 | 325,42 | 322,63 | 283    | –      | 119 | 140    | 135 | 16 | –      |  |   |   |   |
| PD 48 XH 400                   | 4                           | 48                                 | 339,57 | 336,78 | 297    | –      | 119 | 140    | 135 | 16 | 19     |  |   |   |   |
| PD 58 XH 400                   | 4                           | 58                                 | 410,32 | 407,52 | 368    | –      | 119 | 140    | 135 | 16 | 19     |  |   |   |   |
| PD 60 XH 400                   | 4                           | 60                                 | 424,47 | 421,68 | 382    | –      | 119 | 140    | 135 | 16 | 19     |  |   |   |   |
| PD 70 XH 400                   | 5                           | 70                                 | 495,21 | 492,42 | 453    | –      | 119 | 140    | 135 | 16 | 19     |  |   |   |   |
| PD 72 XH 400                   | 5                           | 72                                 | 509,36 | 506,57 | 467    | –      | 119 | 140    | 135 | 16 | 19     | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |   | cast iron<br>fonte<br>Grauguss<br>fundición |
| PD 78 XH 400                   | 5                           | 78                                 | 551,80 | 549,01 | 510    | –      | 119 | 140    | 135 | 16 | 19     |  |   |   |   |
| PD 80 XH 400                   | 5                           | 80                                 | 565,95 | 563,16 | 524    | –      | 119 | 140    | 135 | 16 | 19     |  |   |   |   |
| PD 82 XH 400                   | 5                           | 82                                 | 580,10 | 577,31 | 538    | –      | 119 | 140    | 135 | 16 | 19     |  |   |   |   |
| PD 84 XH 400                   | 5                           | 84                                 | 594,25 | 591,46 | 552    | –      | 119 | 160    | 135 | 16 | 19     |  |   |   |   |
| PD 94 XH 400                   | 5                           | 94                                 | 664,99 | 662,20 | 623    | –      | 119 | 150    | 135 | 16 | 19     |  |   |   |   |
| PD 96 XH 400                   | 5                           | 96                                 | 679,14 | 676,35 | 637    | –      | 119 | 160    | 135 | 16 | 19     |  |   |   |   |
| PD 118 XH 400                  | 5                           | 118                                | 834,78 | 831,99 | 792    | –      | 119 | 160    | 135 | 16 | 19     |  |   |   |   |
| PD 120 XH 400                  | 5                           | 120                                | 848,93 | 846,14 | 806    | –      | 119 | 170    | 135 | 16 | 19     |  |   |   |   |

PD ... XXH 200

mm

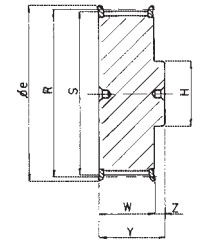
| Codice        | Tipo | N.<br>denti | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W  | H<br>Ø | Y   | Z  | d<br>Ø | Flange   | Material                                    |
|---------------|------|-------------|--------|--------|--------|--------|----|--------|-----|----|--------|--|---|
| PD 18 XXH 200 | 1    | 18          | 181,91 | 178,86 | –      | 186    | 67 | 150    | 100 | 33 | –      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición |
| PD 19 XXH 200 | 1    | 19          | 192,02 | 188,97 | –      | 200    | 67 | 150    | 100 | 33 | –      |  |   |
| PD 20 XXH 200 | 1    | 20          | 202,13 | 199,08 | –      | 209    | 67 | 150    | 100 | 33 | –      |  |   |
| PD 21 XXH 200 | 1    | 21          | 212,23 | 209,18 | –      | 216    | 67 | 150    | 100 | 33 | –      |  |   |
| PD 22 XXH 200 | 1    | 22          | 222,34 | 219,29 | –      | 232    | 67 | 150    | 100 | 33 | –      |  |   |
| PD 24 XXH 200 | 1    | 24          | 242,55 | 239,50 | –      | 261    | 67 | 150    | 100 | 33 | –      | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| PD 25 XXH 200 | 3    | 25          | 252,66 | 249,61 | 196    | –      | 67 | 150    | 100 | 33 | –      |  |   |
| PD 26 XXH 200 | 3    | 26          | 262,76 | 259,71 | 207    | –      | 67 | 150    | 100 | 33 | –      |  |   |
| PD 27 XXH 200 | 3    | 27          | 272,87 | 269,82 | 216    | –      | 67 | 150    | 100 | 33 | –      |  |   |
| PD 30 XXH 200 | 3    | 30          | 303,19 | 300,14 | 247    | –      | 67 | 170    | 100 | 33 | –      |  |   |
| PD 34 XXH 200 | 4    | 34          | 343,62 | 340,57 | 287    | –      | 67 | 170    | 100 | 33 | 19     |  |   |
| PD 40 XXH 200 | 4    | 40          | 404,25 | 401,20 | 348    | –      | 67 | 170    | 100 | 33 | 19     |  |   |
| PD 48 XXH 200 | 5    | 48          | 485,10 | 482,05 | 429    | –      | 67 | 180    | 120 | 53 | 19     |  |   |
| PD 60 XXH 200 | 5    | 60          | 606,38 | 603,33 | 547    | –      | 67 | 180    | 120 | 53 | 19     |  |   |
| PD 72 XXH 200 | 5    | 72          | 727,66 | 724,61 | 668    | –      | 67 | 180    | 120 | 53 | 19     |  |   |
| PD 90 XXH 200 | 5    | 90          | 909,57 | 906,52 | 850    | –      | 67 | 180    | 120 | 53 | 19     |  |   |



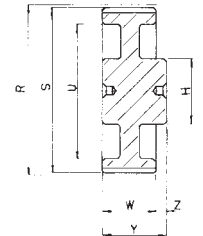
# PD ... XXH 300

mm

| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W  | H<br>Ø | Y   | Z  | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|------------------------------------|--------|--------|--------|--------|----|--------|-----|----|--------|--|---|
| PD 18 XXH 300                  | 1                           | 18                                 | 181,91 | 178,86 | –      | 186    | 94 | 150    | 110 | 16 | –      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 19 XXH 300                  | 1                           | 19                                 | 192,02 | 188,97 | –      | 200    | 94 | 150    | 110 | 16 | –      |  |   |
| PD 20 XXH 300                  | 1                           | 20                                 | 202,13 | 199,08 | –      | 209    | 94 | 150    | 110 | 16 | –      |  |   |
| PD 21 XXH 300                  | 1                           | 21                                 | 212,23 | 209,18 | –      | 216    | 94 | 150    | 110 | 16 | –      |  |   |
| PD 22 XXH 300                  | 1                           | 22                                 | 222,34 | 219,29 | –      | 232    | 94 | 150    | 110 | 16 | –      |  |   |
| PD 24 XXH 300                  | 1                           | 24                                 | 242,55 | 239,50 | –      | 261    | 94 | 150    | 110 | 16 | –      | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| PD 25 XXH 300                  | 3                           | 25                                 | 252,66 | 249,61 | 196    | –      | 94 | 150    | 110 | 16 | –      |  |   |
| PD 26 XXH 300                  | 3                           | 26                                 | 262,76 | 259,71 | 207    | –      | 94 | 150    | 110 | 16 | –      |  |   |
| PD 27 XXH 300                  | 3                           | 27                                 | 272,87 | 269,82 | 216    | –      | 94 | 150    | 110 | 16 | –      |  |   |
| PD 30 XXH 300                  | 3                           | 30                                 | 303,19 | 300,14 | 247    | –      | 94 | 170    | 110 | 16 | –      |  |   |
| PD 34 XXH 300                  | 4                           | 34                                 | 343,62 | 340,57 | 287    | –      | 94 | 170    | 110 | 16 | 19     |  |   |
| PD 40 XXH 300                  | 4                           | 40                                 | 404,25 | 401,20 | 348    | –      | 94 | 170    | 110 | 16 | 19     |  |   |
| PD 48 XXH 300                  | 5                           | 48                                 | 485,10 | 482,05 | 429    | –      | 94 | 180    | 120 | 26 | 19     |  |   |
| PD 60 XXH 300                  | 5                           | 60                                 | 606,38 | 603,33 | 547    | –      | 94 | 180    | 120 | 26 | 19     |  |   |
| PD 72 XXH 300                  | 5                           | 72                                 | 727,66 | 724,61 | 668    | –      | 94 | 180    | 120 | 26 | 19     |  |   |
| PD 90 XXH 300                  | 5                           | 90                                 | 909,57 | 906,52 | 850    | –      | 94 | 180    | 120 | 26 | 19     |  |   |



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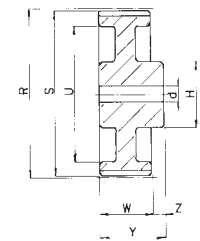


3

# PD ... XXH 400

mm

| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W   | H<br>Ø | Y   | Z  | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|------------------------------------|--------|--------|--------|--------|-----|--------|-----|----|--------|--|---|
| PD 18 XXH 400                  | 1                           | 18                                 | 181,91 | 178,86 | –      | 186    | 121 | 150    | 140 | 19 | –      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 19 XXH 400                  | 1                           | 19                                 | 192,02 | 188,97 | –      | 200    | 121 | 150    | 140 | 19 | –      |  |   |
| PD 20 XXH 400                  | 1                           | 20                                 | 202,13 | 199,08 | –      | 209    | 121 | 150    | 140 | 19 | –      |  |   |
| PD 21 XXH 400                  | 1                           | 21                                 | 212,23 | 209,18 | –      | 216    | 121 | 150    | 140 | 19 | –      |  |   |
| PD 22 XXH 400                  | 1                           | 22                                 | 222,34 | 219,29 | –      | 232    | 121 | 150    | 140 | 19 | –      |  |   |
| PD 24 XXH 400                  | 1                           | 24                                 | 242,55 | 239,50 | –      | 261    | 121 | 150    | 140 | 19 | –      | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| PD 25 XXH 400                  | 7                           | 25                                 | 252,66 | 249,61 | 196    | –      | 121 | 150    | 140 | 19 | –      |  |   |
| PD 26 XXH 400                  | 3                           | 26                                 | 262,76 | 259,71 | 207    | –      | 121 | 170    | 140 | 19 | –      |  |   |
| PD 27 XXH 400                  | 3                           | 27                                 | 272,87 | 269,82 | 216    | –      | 121 | 170    | 140 | 19 | –      |  |   |
| PD 30 XXH 400                  | 3                           | 30                                 | 303,19 | 300,14 | 247    | –      | 121 | 170    | 140 | 19 | –      |  |   |
| PD 34 XXH 400                  | 4                           | 34                                 | 343,62 | 340,57 | 287    | –      | 121 | 180    | 140 | 19 | 19     |  |   |
| PD 40 XXH 400                  | 4                           | 40                                 | 404,25 | 401,20 | 348    | –      | 121 | 180    | 110 | 19 | 19     |  |   |
| PD 48 XXH 400                  | 5                           | 48                                 | 485,10 | 482,05 | 429    | –      | 121 | 180    | 140 | 19 | 19     |  |   |
| PD 60 XXH 400                  | 5                           | 60                                 | 606,38 | 603,33 | 547    | –      | 121 | 220    | 140 | 19 | 19     |  |   |
| PD 72 XXH 400                  | 5                           | 72                                 | 727,66 | 724,61 | 668    | –      | 121 | 220    | 140 | 19 | 19     |  |   |
| PD 90 XXH 400                  | 5                           | 90                                 | 909,57 | 906,52 | 850    | –      | 121 | 220    | 140 | 19 | 19     |  |   |

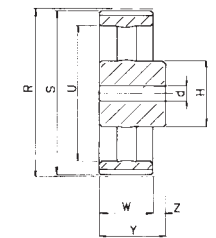


4

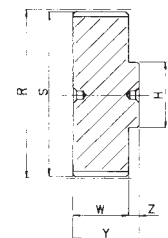
# PD ... XXH 500

mm

| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W   | H<br>Ø | Y   | Z  | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|------------------------------------|--------|--------|--------|--------|-----|--------|-----|----|--------|--|---|
| PD 18 XXH 500                  | 1                           | 18                                 | 181,91 | 178,86 | –      | 186    | 148 | 150    | 168 | 20 | –      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PD 19 XXH 500                  | 1                           | 19                                 | 192,02 | 188,97 | –      | 200    | 148 | 150    | 168 | 20 | –      |  |   |
| PD 20 XXH 500                  | 1                           | 20                                 | 202,13 | 199,08 | –      | 209    | 148 | 150    | 168 | 20 | –      |  |   |
| PD 21 XXH 500                  | 1                           | 21                                 | 212,23 | 209,18 | –      | 216    | 148 | 150    | 168 | 20 | –      |  |   |
| PD 22 XXH 500                  | 1                           | 22                                 | 222,34 | 219,29 | –      | 232    | 148 | 150    | 168 | 20 | –      |  |   |
| PD 24 XXH 500                  | 1                           | 24                                 | 242,55 | 239,50 | –      | 261    | 148 | 170    | 168 | 20 | –      | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| PD 25 XXH 500                  | 3                           | 25                                 | 252,66 | 249,61 | 196    | –      | 148 | 170    | 168 | 20 | –      |  |   |
| PD 26 XXH 500                  | 3                           | 26                                 | 262,76 | 259,71 | 207    | –      | 148 | 170    | 168 | 20 | –      |  |   |
| PD 27 XXH 500                  | 3                           | 27                                 | 272,87 | 269,82 | 216    | –      | 148 | 180    | 168 | 20 | –      |  |   |
| PD 30 XXH 500                  | 3                           | 30                                 | 303,19 | 300,14 | 247    | –      | 148 | 180    | 168 | 20 | –      |  |   |
| PD 34 XXH 500                  | 4                           | 34                                 | 343,62 | 340,57 | 287    | –      | 148 | 180    | 168 | 20 | 19     |  |   |
| PD 40 XXH 500                  | 4                           | 40                                 | 404,25 | 401,20 | 348    | –      | 148 | 180    | 168 | 20 | 19     |  |   |
| PD 48 XXH 500                  | 5                           | 48                                 | 485,10 | 482,05 | 429    | –      | 148 | 220    | 168 | 20 | 19     |  |   |
| PD 60 XXH 500                  | 5                           | 60                                 | 606,38 | 603,33 | 547    | –      | 148 | 220    | 168 | 20 | 19     |  |   |
| PD 72 XXH 500                  | 5                           | 72                                 | 727,66 | 724,61 | 668    | –      | 148 | 220    | 168 | 20 | 19     |  |   |
| PD 90 XXH 500                  | 5                           | 90                                 | 909,57 | 906,52 | 850    | –      | 148 | 220    | 168 | 20 | 19     |  |   |



5



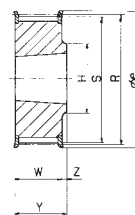
7

**STANDARD TIMING PULLEYS FOR ASSEMBLY WITH SER-SIT® CONICAL BUSHES**  
**POULIES DENTEES DE SERIE POUR MONTAGE AVEC MOYEU AMOVIBLE SER-SIT®**  
**STANDARD-ZAHNSCHEIBEN ZUR MONTAGE MIT SER-SIT® SPANNBUCHSEN**  
**POLEAS DENTADAS DE SERIE PARA MONTAJE CON BUJE CONICO SER-SIT®**

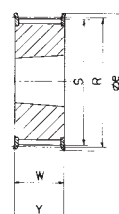
**PBD ... L 050**

mm

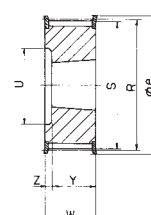
| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | bushing<br>moyeu<br>Spannbuchse<br>bujie |  | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W  | H<br>Ø | Y  | Z   | flange<br>flasque<br>Bord<br>valona                      | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|--|--|--------|--------|--------|--------|----|--------|----|-----|--|---|
|                                |                             | type<br>type<br>Typ<br>tipo              | bore<br>alesage<br>Bohrung<br>bujie<br>max |        |        |        |        |    |        |    |     |  |   |
| PBD 18 L 050                   | 1                           | 1108                                     | 28   | 54,57  | 53,81  | —      | 62     | 19 | 47     | 22 | 3   | with flanges<br>avec flasques<br>mit Borde<br>con valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PBD 19 L 050                   | 1                           | 1108                                     | 28   | 57,61  | 56,84  | —      | 62     | 19 | 47     | 22 | 3   |  |   |
| PBD 20 L 050                   | 1                           | 1108                                     | 28   | 60,64  | 59,88  | —      | 67     | 19 | 48     | 22 | 3   |  |   |
| PBD 21 L 050                   | 1                           | 1108                                     | 28   | 63,67  | 62,91  | —      | 67     | 19 | 48     | 22 | 3   |  |   |
| PBD 22 L 050                   | 1                           | 1108                                     | 28   | 66,70  | 65,94  | —      | 73     | 19 | 51     | 22 | 3   |  |   |
| PBD 23 L 050                   | 1                           | 1108                                     | 28   | 69,73  | 68,97  | —      | 73     | 19 | 51     | 22 | 3   |  |   |
| PBD 24 L 050                   | 1                           | 1108                                     | 28   | 72,77  | 72,01  | —      | 80     | 19 | 58     | 22 | 3   |  |   |
| PBD 25 L 050                   | 1                           | 1108                                     | 28   | 75,80  | 75,04  | —      | 80     | 19 | 58     | 22 | 3   |  |   |
| PBD 26 L 050                   | 1                           | 1108                                     | 28   | 78,83  | 78,07  | —      | 88     | 19 | 58     | 22 | 3   |  |   |
| PBD 27 L 050                   | 1                           | 1108                                     | 28   | 81,86  | 81,10  | —      | 88     | 19 | 58     | 22 | 3   |  |   |
| PBD 28 L 050                   | 1                           | 1108                                     | 28   | 84,89  | 84,13  | —      | 94     | 19 | 58     | 22 | 3   |  |   |
| PBD 29 L 050                   | 1                           | 1108                                     | 28   | 87,93  | 87,16  | —      | 94     | 19 | 58     | 22 | 3   |  |   |
| PBD 30 L 050                   | 1                           | 1108                                     | 28   | 90,96  | 90,20  | —      | 98     | 19 | 58     | 22 | 3   |  |   |
| PBD 32 L 050                   | 1                           | 1108                                     | 28   | 97,02  | 96,26  | —      | 100    | 19 | 58     | 22 | 3   |  |   |
| PBD 33 L 050                   | 1                           | 1108                                     | 28   | 100,05 | 99,29  | —      | 108    | 19 | 58     | 22 | 3   |  |   |
| PBD 34 L 050                   | 1                           | 1108                                     | 28   | 103,08 | 102,32 | —      | 108    | 19 | 58     | 22 | 3   |  |   |
| PBD 35 L 050                   | 6                           | 1108                                     | 28   | 106,12 | 105,35 | 84     | 113    | 19 | 58     | 22 | 3   |  |   |
| PBD 36 L 050                   | 6                           | 1108                                     | 28   | 109,15 | 108,39 | 84     | 113    | 19 | 58     | 22 | 3   |  |   |
| PBD 40 L 050                   | 1                           | 1610                                     | 42   | 121,28 | 120,52 | —      | 129    | 19 | 90     | 25 | 6   |  |   |
| PBD 41 L 050                   | 1                           | 1610                                     | 42   | 124,31 | 123,55 | —      | 129    | 19 | 90     | 25 | 6   |  |   |
| PBD 42 L 050                   | 6                           | 1610                                     | 42   | 127,34 | 126,58 | 110    | 137    | 19 | 90     | 25 | 6   |  |   |
| PBD 44 L 050                   | 6                           | 1610                                     | 42   | 133,40 | 132,64 | 110    | 142    | 19 | 90     | 25 | 6   |  |   |
| PBD 45 L 050                   | 6                           | 1610                                     | 42   | 136,44 | 135,67 | 118    | 142    | 19 | 90     | 25 | 6   |  |   |
| PBD 47 L 050                   | 6                           | 1610                                     | 42   | 142,50 | 141,74 | 126    | 149    | 19 | 90     | 25 | 6   |  |   |
| PBD 48 L 050                   | 6                           | 1610                                     | 42   | 145,53 | 144,77 | 126    | 151    | 19 | 90     | 25 | 6   |  |   |
| PBD 49 L 050                   | 9                           | 1610                                     | 42   | 148,56 | 147,80 | 132    | —      | 19 | 90     | 25 | 6   |  |   |
| PBD 50 L 050                   | 9                           | 1610                                     | 42   | 151,60 | 150,83 | 132    | —      | 19 | 90     | 25 | 6   |  |   |
| PBD 52 L 050                   | 9                           | 1610                                     | 42   | 157,66 | 156,90 | 138    | —      | 19 | 90     | 25 | 6   |  |   |
| PBD 56 L 050                   | 9                           | 1610                                     | 42   | 169,79 | 169,02 | 152    | —      | 19 | 90     | 25 | 6   |  |   |
| PBD 57 L 050                   | 9                           | 1610                                     | 42   | 172,82 | 172,06 | 152    | —      | 19 | 90     | 25 | 6   |  |   |
| PBD 60 L 050                   | 16                          | 1610                                     | 42   | 181,91 | 181,15 | 162    | —      | 19 | 90     | 25 | 3   |  |   |
| PBD 65 L 050                   | 13                          | 1610                                     | 42   | 197,07 | 196,31 | 178    | —      | 19 | 90     | 25 | 3   |  |   |
| PBD 66 L 050                   | 13                          | 1610                                     | 42   | 200,11 | 199,34 | 178    | —      | 19 | 90     | 25 | 3   |  |   |
| PBD 72 L 050                   | 13                          | 1610                                     | 42   | 218,30 | 217,54 | 199    | —      | 19 | 90     | 25 | 3   |  |   |
| PBD 84 L 050                   | 13                          | 1610                                     | 42   | 254,68 | 253,92 | 235    | —      | 19 | 90     | 25 | 3   |  |   |
| PBD 90 L 050                   | 13                          | 1610                                     | 42   | 272,87 | 272,11 | 253    | —      | 19 | 90     | 25 | 3   |  |   |
| PBD 96 L 050                   | 13                          | 2012                                     | 50   | 291,06 | 290,30 | 270    | —      | 19 | 110    | 32 | 6,5 |  |   |
| PBD 120 L 050                  | 13                          | 2012                                     | 50   | 363,83 | 363,07 | 344    | —      | 19 | 110    | 32 | 6,5 |  |   |



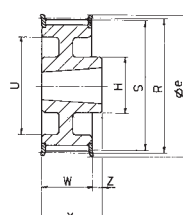
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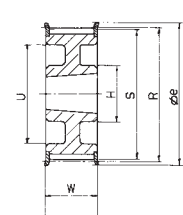
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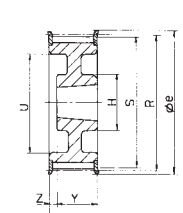
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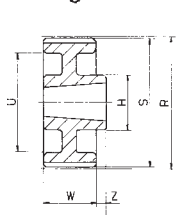
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9

**PBD ... L 075**

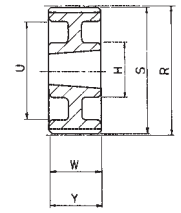
mm

| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | bushing<br>moyeu<br>Spannbuchse<br>bujie |  | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W  | H<br>Ø | Y  | Z   | flange<br>flasque<br>Bord<br>valona                      | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|--|--|--------|--------|--------|--------|----|--------|----|-----|--|---|
|                                |                             | type<br>type<br>Typ<br>tipo              | bore<br>alesage<br>Bohrung<br>bujie<br>max |        |        |        |        |    |        |    |     |  |   |
| PBD 18 L 075                   | 4                           | 1108                                     | 28   | 54,57  | 53,81  | 38     | 62     | 25 | —      | 22 | 3   | with flanges<br>avec flasques<br>mit Borde<br>con valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PBD 19 L 075                   | 4                           | 1108                                     | 28   | 57,61  | 56,84  | 38     | 62     | 25 | —      | 22 | 3   |  |   |
| PBD 20 L 075                   | 4                           | 1108                                     | 28   | 60,64  | 59,88  | 46     | 67     | 25 | —      | 22 | 3   |  |   |
| PBD 21 L 075                   | 4                           | 1108                                     | 28   | 63,67  | 62,91  | 46     | 67     | 25 | —      | 22 | 3   |  |   |
| PBD 22 L 075                   | 4                           | 1108                                     | 28   | 66,70  | 65,94  | 46     | 73     | 25 | —      | 22 | 3   |  |   |
| PBD 23 L 075                   | 4                           | 1108                                     | 28   | 69,73  | 68,97  | 46     | 73     | 25 | —      | 22 | 3   |  |   |
| PBD 24 L 075                   | 4                           | 1108                                     | 28   | 72,77  | 72,01  | 53     | 80     | 25 | —      | 22 | 3   |  |   |
| PBD 25 L 075                   | 4                           | 1108                                     | 28   | 75,80  | 75,04  | 53     | 80     | 25 | —      | 22 | 3   |  |   |
| PBD 26 L 075                   | 4                           | 1108                                     | 28   | 78,83  | 78,07  | 60     | 88     | 25 | —      | 22 | 3   |  |   |
| PBD 27 L 075                   | 4                           | 1108                                     | 28   | 81,86  | 81,10  | 60     | 88     | 25 | —      | 22 | 3   |  |   |
| PBD 28 L 075                   | 4                           | 1108                                     | 28   | 84,89  | 84,13  | 65     | 94     | 25 | —      | 22 | 3   |  |   |
| PBD 29 L 075                   | 4                           | 1108                                     | 28   | 87,93  | 87,16  | 65     | 94     | 25 | —      | 22 | 3   |  |   |
| PBD 30 L 075                   | 4                           | 1108                                     | 28   | 90,96  | 90,20  | 68     | 98     | 25 | —      | 22 | 3   |  |   |
| PBD 32 L 075                   | 4                           | 1108                                     | 28   | 97,02  | 96,26  | 76     | 100    | 25 | —      | 22 | 3   |  |   |
| PBD 33 L 075                   | 4                           | 1108                                     | 28   | 100,05 | 99,29  | 83     | 108    | 25 | —      | 22 | 3   |  |   |
| PBD 34 L 075                   | 4                           | 1108                                     | 28   | 103,08 | 102,32 | 85     | 108    | 25 | —      | 22 | 3   |  |   |
| PBD 35 L 075                   | 2                           | 1610                                     | 42   | 106,12 | 105,35 | —      | 113    | 25 | —      | 25 | —   |  |   |
| PBD 36 L 075                   | 2                           | 1610                                     | 42   | 109,15 | 108,39 | —      | 113    | 25 | —      | 25 | —   |  |   |
| PBD 40 L 075                   | 2                           | 1610                                     | 42   | 121,28 | 120,52 | —      | 129    | 25 | —      | 25 | —   |  |   |
| PBD 41 L 075                   | 2                           | 1610                                     | 42   | 124,31 | 123,55 | —      | 129    | 25 | —      | 25 | —   |  |   |
| PBD 42 L 075                   | 7                           | 1610                                     | 42   | 127,34 | 126,58 | 110    | 137    | 25 | 90     | 25 | —   |  |   |
| PBD 44 L 075                   | 7                           | 1610                                     | 42   | 133,40 | 132,64 | 110    | 142    | 25 | 90     | 25 | —   |  |   |
| PBD 45 L 075                   | 7                           | 1610                                     | 42   | 136,44 | 135,67 | 118    | 142    | 25 | 90     | 25 | —   |  |   |
| PBD 47 L 075                   | 7                           | 1610                                     | 42   | 142,50 | 141,74 | 126    | 149    | 25 | 90     | 25 | —   |  |   |
| PBD 48 L 075                   | 7                           | 1610                                     | 42   | 145,53 | 144,77 | 126    | 151    | 25 | 90     | 25 | —   |  |   |
| PBD 49 L 075                   | 10                          | 1610                                     | 42   | 148,56 | 147,80 | 132    | —      | 25 | 90     | 25 | —   |  |   |
| PBD 50 L 075                   | 10                          | 1610                                     | 42   | 151,60 | 150,83 | 132    | —      | 25 | 90     | 25 | —   |  |   |
| PBD 52 L 075                   | 10                          | 1610                                     | 42   | 157,66 | 156,90 | 138    | —      | 25 | 90     | 25 | —   |  |   |
| PBD 56 L 075                   | 10                          | 1610                                     | 42   | 169,79 | 169,02 | 152    | —      | 25 | 90     | 25 | —   |  |   |
| PBD 57 L 075                   | 10                          | 1610                                     | 42   | 172,82 | 172,06 | 152    | —      | 25 | 90     | 25 | —   |  |   |
| PBD 60 L 075                   | 10                          | 1610                                     | 42   | 181,91 | 181,15 | 162    | —      | 25 | 90     | 25 | —   |  |   |
| PBD 65 L 075                   | 10                          | 1610                                     | 42   | 197,07 | 196,31 | 178    | —      | 25 | 90     | 25 | —   |  |   |
| PBD 66 L 075                   | 10                          | 1610                                     | 42   | 200,11 | 199,34 | 178    | —      | 25 | 90     | 25 | —   |  |   |
| PBD 72 L 075                   | 14                          | 1610                                     | 42   | 218,30 | 217,54 | 199    | —      | 25 | 90     | 25 | —   |  |   |
| PBD 84 L 075                   | 13                          | 2012                                     | 50   | 254,68 | 253,92 | 235    | —      | 25 | 110    | 32 | 3,5 |  |   |
| PBD 90 L 075                   | 13                          | 2012                                     | 50   | 272,87 | 272,11 | 253    | —      | 25 | 110    | 32 | 3,5 |  |   |
| PBD 96 L 075                   | 13                          | 2012                                     | 50   | 291,06 | 290,30 | 270    | —      | 25 | 110    | 32 | 3,5 |  |   |
| PBD 120 L 075                  | 13                          | 2012                                     | 50   | 363,83 | 363,07 | 344    | —      | 25 | 110    | 32 | 3,5 |  |   |

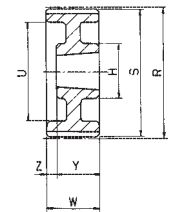
## PBD ... L 100

mm

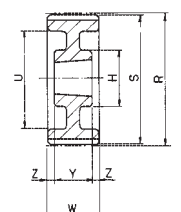
| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | bushing<br>moyeu<br>Spannbuchse<br>bujie |  | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W  | H<br>Ø | Y  | Z   | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|--|--|--------|--------|--------|--------|----|--------|----|-----|--|---|
|                                |                             | type<br>type<br>Typ<br>tipo              | bore<br>alesage<br>Bohrung<br>bujie<br>max |        |        |        |        |    |        |    |     |  |   |
| PBD 18 L 100                   | 4                           | 1108                                     | 28   | 54,57  | 53,81  | 38     | 62     | 32 | -      | 22 | 10  | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PBD 19 L 100                   | 4                           | 1108                                     | 28   | 57,61  | 56,84  | 38     | 62     | 32 | -      | 22 | 10  |  |   |
| PBD 20 L 100                   | 4                           | 1108                                     | 28   | 60,64  | 59,88  | 46     | 67     | 32 | -      | 22 | 10  |  |   |
| PBD 21 L 100                   | 4                           | 1108                                     | 28   | 63,67  | 62,91  | 46     | 67     | 32 | -      | 22 | 10  |  |   |
| PBD 22 L 100                   | 4                           | 1108                                     | 28   | 66,70  | 65,94  | 46     | 73     | 32 | -      | 22 | 10  |  |   |
| PBD 23 L 100                   | 4                           | 1108                                     | 28   | 69,73  | 68,97  | 46     | 73     | 32 | -      | 22 | 10  |  |   |
| PBD 24 L 100                   | 4                           | 1108                                     | 28   | 72,77  | 72,01  | 53     | 80     | 32 | -      | 22 | 10  |  |   |
| PBD 25 L 100                   | 4                           | 1108                                     | 28   | 75,80  | 75,04  | 53     | 80     | 32 | -      | 22 | 10  |  |   |
| PBD 26 L 100                   | 4                           | 1108                                     | 28   | 78,83  | 78,07  | 60     | 88     | 32 | -      | 22 | 10  |  |   |
| PBD 27 L 100                   | 4                           | 1108                                     | 28   | 81,86  | 81,10  | 60     | 88     | 32 | -      | 22 | 10  |  |   |
| PBD 28 L 100                   | 4                           | 1108                                     | 28   | 84,89  | 84,13  | 65     | 94     | 32 | -      | 22 | 10  |  |   |
| PBD 29 L 100                   | 4                           | 1210                                     | 32   | 87,93  | 87,16  | 68     | 94     | 32 | -      | 25 | 7   |  |   |
| PBD 30 L 100                   | 4                           | 1210                                     | 32   | 90,96  | 90,20  | 68     | 98     | 32 | -      | 25 | 7   |  |   |
| PBD 32 L 100                   | 4                           | 1210                                     | 32   | 97,02  | 96,26  | 76     | 100    | 32 | -      | 25 | 7   |  |   |
| PBD 33 L 100                   | 4                           | 1610                                     | 42   | 100,05 | 99,29  | 83     | 108    | 32 | -      | 25 | 7   |  |   |
| PBD 34 L 100                   | 4                           | 1610                                     | 42   | 103,08 | 103,32 | 85     | 108    | 32 | -      | 25 | 7   |  |   |
| PBD 35 L 100                   | 4                           | 1610                                     | 42   | 106,12 | 105,35 | 85     | 113    | 32 | -      | 25 | 7   |  |   |
| PBD 36 L 100                   | 4                           | 1610                                     | 42   | 109,15 | 108,39 | 85     | 113    | 32 | -      | 25 | 7   |  |   |
| PBD 40 L 100                   | 4                           | 1610                                     | 42   | 121,28 | 120,52 | 100    | 129    | 32 | -      | 25 | 7   |  |   |
| PBD 41 L 100                   | 4                           | 1610                                     | 42   | 124,31 | 123,55 | 100    | 129    | 32 | -      | 25 | 7   |  |   |
| PBD 42 L 100                   | 8                           | 1610                                     | 42   | 127,34 | 126,58 | 110    | 137    | 32 | 90     | 25 | 7   |  |   |
| PBD 44 L 100                   | 8                           | 1610                                     | 42   | 133,40 | 132,64 | 110    | 142    | 32 | 90     | 25 | 7   |  |   |
| PBD 45 L 100                   | 8                           | 1610                                     | 42   | 136,44 | 135,67 | 118    | 142    | 32 | 90     | 25 | 7   |  |   |
| PBD 47 L 100                   | 8                           | 1610                                     | 42   | 142,50 | 141,74 | 126    | 149    | 32 | 90     | 25 | 7   |  |   |
| PBD 48 L 100                   | 8                           | 1610                                     | 42   | 145,53 | 144,77 | 126    | 151    | 32 | 90     | 25 | 7   |  |   |
| PBD 49 L 100                   | 11                          | 1610                                     | 42   | 148,56 | 147,80 | 132    | -      | 32 | 90     | 25 | 7   |  |   |
| PBD 50 L 100                   | 11                          | 1610                                     | 42   | 151,60 | 150,83 | 132    | -      | 32 | 90     | 25 | 7   |  |   |
| PBD 52 L 100                   | 11                          | 1610                                     | 42   | 157,66 | 156,90 | 138    | -      | 32 | 90     | 25 | 7   |  |   |
| PBD 56 L 100                   | 11                          | 1610                                     | 42   | 169,79 | 169,02 | 152    | -      | 32 | 90     | 25 | 7   |  |   |
| PBD 57 L 100                   | 11                          | 1610                                     | 42   | 172,82 | 172,06 | 152    | -      | 32 | 90     | 25 | 7   |  |   |
| PBD 60 L 100                   | 12                          | 1610                                     | 42   | 181,91 | 181,15 | 162    | -      | 32 | 90     | 25 | 3,5 |  |   |
| PBD 65 L 100                   | 12                          | 1610                                     | 42   | 197,07 | 196,31 | 178    | -      | 32 | 90     | 25 | 3,5 |  |   |
| PBD 66 L 100                   | 12                          | 1610                                     | 42   | 200,11 | 199,34 | 178    | -      | 32 | 90     | 25 | 3,5 |  |   |
| PBD 72 L 100                   | 10                          | 2012                                     | 50   | 218,30 | 217,54 | 199    | -      | 32 | 110    | 32 | -   | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| PBD 84 L 100                   | 14                          | 2012                                     | 50   | 254,68 | 253,92 | 235    | -      | 32 | 110    | 32 | -   |  |   |
| PBD 90 L 100                   | 14                          | 2012                                     | 50   | 272,87 | 272,11 | 253    | -      | 32 | 110    | 32 | -   |  |   |
| PBD 96 L 100                   | 14                          | 2012                                     | 50   | 291,06 | 290,30 | 270    | -      | 32 | 110    | 32 | -   |  |   |
| PBD 120 L 100                  | 14                          | 2012                                     | 50   | 363,83 | 363,07 | 344    | -      | 32 | 110    | 32 | -   |  |   |



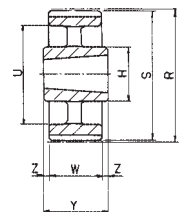
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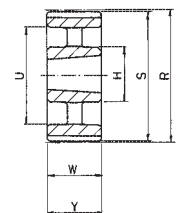
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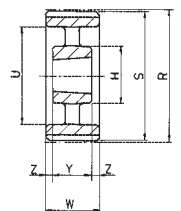
12



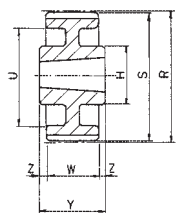
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14



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16

## PBD ... H 100

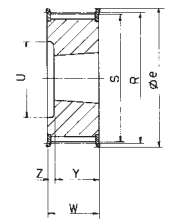
mm

| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | bushing<br>moyeu<br>Spannbuchse<br>bujie |  | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W  | H<br>Ø | Y  | Z   | flange<br>flasque<br>Bord<br>valona                      | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|--|--|--------|--------|--------|--------|----|--------|----|-----|--|---|
|                                |                             | type<br>type<br>Typ<br>tipo              | bore<br>alesage<br>Bohrung<br>bujie<br>max |        |        |        |        |    |        |    |     |  |   |
| PBD 14 H 100                   | 4                           | 1108                                     | 28   | 56,60  | 55,23  | 37     | 62     | 31 | -      | 22 | 9   | with flanges<br>avec flasques<br>mit Borde<br>con valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PBD 15 H 100                   | 4                           | 1108                                     | 28   | 60,64  | 59,27  | 37     | 67     | 31 | -      | 22 | 9   |  |   |
| PBD 16 H 100                   | 4                           | 1108                                     | 28   | 64,68  | 63,31  | 46     | 67     | 31 | -      | 22 | 9   |  |   |
| PBD 17 H 100                   | 4                           | 1210                                     | 32   | 68,72  | 67,35  | 46     | 77     | 31 | -      | 25 | 6   |  |   |
| PBD 18 H 100                   | 4                           | 1210                                     | 32   | 72,77  | 71,40  | 56     | 80     | 31 | -      | 25 | 6   |  |   |
| PBD 19 H 100                   | 4                           | 1210                                     | 32   | 76,81  | 75,44  | 56     | 84     | 31 | -      | 25 | 6   |  |   |
| PBD 20 H 100                   | 4                           | 1210                                     | 32   | 80,85  | 79,48  | 56     | 88     | 31 | -      | 25 | 6   |  |   |
| PBD 21 H 100                   | 4                           | 1210                                     | 32   | 84,89  | 83,52  | 62     | 94     | 32 | -      | 25 | 7   |  |   |
| PBD 22 H 100                   | 4                           | 1210                                     | 32   | 88,94  | 87,57  | 62     | 94     | 32 | -      | 25 | 7   |  |   |
| PBD 23 H 100                   | 4                           | 1610                                     | 42   | 92,98  | 91,61  | 71     | 98     | 32 | -      | 25 | 7   |  |   |
| PBD 24 H 100                   | 4                           | 1610                                     | 42   | 97,02  | 95,65  | 71     | 104    | 32 | -      | 25 | 7   |  |   |
| PBD 25 H 100                   | 4                           | 1610                                     | 42   | 101,06 | 99,69  | 78     | 104    | 32 | -      | 25 | 7   |  |   |
| PBD 26 H 100                   | 4                           | 1610                                     | 42   | 105,11 | 103,74 | 78     | 108    | 32 | -      | 25 | 7   |  |   |
| PBD 27 H 100                   | 4                           | 1610                                     | 42   | 109,15 | 107,78 | 86     | 113    | 32 | -      | 25 | 7   |  |   |
| PBD 28 H 100                   | 4                           | 1610                                     | 42   | 113,19 | 111,92 | 86     | 118    | 32 | -      | 25 | 7   |  |   |
| PBD 29 H 100                   | 4                           | 1610                                     | 42   | 117,23 | 115,86 | 95     | 121    | 32 | -      | 25 | 7   |  |   |
| PBD 30 H 100                   | 4                           | 1610                                     | 42   | 121,28 | 119,91 | 95     | 129    | 32 | -      | 25 | 7   |  |   |
| PBD 32 H 100                   | 8                           | 1610                                     | 42   | 129,36 | 127,99 | 110    | 137    | 32 | 82     | 25 | 7   |  |   |
| PBD 33 H 100                   | 8                           | 1610                                     | 42   | 133,40 | 132,03 | 112    | 137    | 32 | 82     | 25 | 7   |  |   |
| PBD 34 H 100                   | 8                           | 1610                                     | 42   | 137,45 | 136,08 | 112    | 142    | 32 | 82     | 25 | 7   |  |   |
| PBD 35 H 100                   | 8                           | 1610                                     | 42   | 141,49 | 140,12 | 120    | 145    | 32 | 82     | 25 | 7   |  |   |
| PBD 36 H 100                   | 8                           | 1610                                     | 42   | 145,53 | 144,16 | 120    | 151    | 32 | 82     | 25 | 7   |  |   |
| PBD 38 H 100                   | 8                           | 1610                                     | 42   | 153,62 | 152,25 | 136    | 158    | 32 | 82     | 25 | 7   |  |   |
| PBD 40 H 100                   | 8                           | 1610                                     | 42   | 161,70 | 160,33 | 136    | 168    | 32 | 82     | 25 | 7   |  |   |
| PBD 44 H 100                   | 7                           | 2012                                     | 50   | 177,87 | 176,50 | 162    | 191    | 32 | 110    | 32 | -   |  |   |
| PBD 45 H 100                   | 7                           | 2012                                     | 50   | 181,91 | 180,54 | 162    | 189    | 32 | 110    | 32 | -   |  |   |
| PBD 48 H 100                   | 7                           | 2012                                     | 50   | 194,04 | 192,67 | 168    | 199    | 32 | 110    | 32 | -   |  |   |
| PBD 49 H 100                   | 12                          | 2012                                     | 50   | 198,08 | 196,71 | 172    | -      | 34 | 110    | 32 | 1   |  |   |
| PBD 50 H 100                   | 12                          | 2012                                     | 50   | 202,13 | 200,76 | 172    | -      | 34 | 110    | 32 | 1   |  |   |
| PBD 52 H 100                   | 12                          | 2012                                     | 50   | 210,21 | 208,84 | 185    | -      | 34 | 110    | 32 | 1   |  |   |
| PBD 60 H 100                   | 12                          | 2012                                     | 50   | 242,55 | 241,18 | 217    | -      | 34 | 110    | 32 | 1   |  |   |
| PBD 70 H 100                   | 15                          | 2012                                     | 50   | 282,98 | 281,61 | 264    | -      | 34 | 110    | 32 | 1   |  |   |
| PBD 72 H 100                   | 15                          | 2012                                     | 50   | 291,06 | 289,69 | 264    | -      | 34 | 110    | 32 | 1   |  |   |
| PBD 82 H 100                   | 15                          | 2012                                     | 50   | 331,49 | 330,12 | 312    | -      | 34 | 110    | 32 | 1   |  |   |
| PBD 84 H 100                   | 15                          | 2012                                     | 50   | 339,57 | 338,20 | 312    | -      | 34 | 110    | 32 | 1   |  |   |
| PBD 94 H 100                   | 13                          | 2517                                     | 65   | 380,00 | 378,63 | 357    | -      | 34 | 120    | 45 | 5,5 |  |   |
| PBD 96 H 100                   | 13                          | 2517                                     | 65   | 388,08 | 386,71 | 357    | -      | 34 | 120    | 45 | 5,5 |  |   |
| PBD 106 H 100                  | 13                          | 2517                                     | 65   | 428,51 | 427,14 | 402    | -      | 34 | 120    | 45 | 5,5 |  |   |
| PBD 116 H 100                  | 13                          | 2517                                     | 65   | 468,93 | 467,56 | 442    | -      | 34 | 120    | 45 | 5,5 |  |   |
| PBD 118 H 100                  | 13                          | 2517                                     | 65   | 477,02 | 475,65 | 457    | -      | 34 | 120    | 45 | 5,5 |  |   |
| PBD 120 H 100                  | 13                          | 2517                                     | 65   | 485,10 | 483,73 | 457    | -      | 34 | 120    | 45 | 5,5 |  |   |

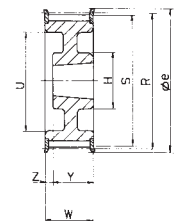
## PBD ... H 150

mm

| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | bushing<br>moyeu<br>Spannbuchse<br>bujie |  | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W  | H<br>Ø | Y  | Z   | flange<br>flasque<br>Bord<br>valona                      | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|--|--|--------|--------|--------|--------|----|--------|----|-----|--|---|
|                                |                             | type<br>type<br>Typ<br>tipo              | bore<br>alesage<br>Bohrung<br>bujie<br>max |        |        |        |        |    |        |    |     |  |   |
| PBD 14 H 150                   | 4                           | 1108                                     | 28   | 56,60  | 55,23  | 37     | 62     | 45 | —      | 22 | 23  | with flanges<br>avec flasques<br>mit Borde<br>con valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PBD 15 H 150                   | 4                           | 1108                                     | 28   | 60,64  | 59,27  | 37     | 67     | 45 | —      | 22 | 23  |  |   |
| PBD 16 H 150                   | 4                           | 1108                                     | 28   | 64,68  | 63,31  | 46     | 67     | 45 | —      | 22 | 23  |  |   |
| PBD 17 H 150                   | 4                           | 1210                                     | 32   | 68,72  | 67,35  | 46     | 77     | 45 | —      | 25 | 20  |  |   |
| PBD 18 H 150                   | 4                           | 1210                                     | 32   | 72,77  | 71,40  | 56     | 80     | 45 | —      | 25 | 20  |  |   |
| PBD 19 H 150                   | 4                           | 1210                                     | 32   | 76,81  | 75,44  | 56     | 84     | 45 | —      | 25 | 20  |  |   |
| PBD 20 H 150                   | 4                           | 1210                                     | 32   | 80,85  | 79,48  | 56     | 88     | 45 | —      | 25 | 20  |  |   |
| PBD 21 H 150                   | 4                           | 1210                                     | 32   | 84,89  | 83,52  | 62     | 94     | 45 | —      | 25 | 20  |  |   |
| PBD 22 H 150                   | 4                           | 1210                                     | 32   | 88,94  | 87,57  | 62     | 94     | 45 | —      | 25 | 20  |  |   |
| PBD 23 H 150                   | 4                           | 1610                                     | 42   | 92,98  | 91,61  | 71     | 98     | 45 | —      | 25 | 20  |  |   |
| PBD 24 H 150                   | 4                           | 1610                                     | 42   | 97,02  | 95,65  | 71     | 104    | 45 | —      | 25 | 20  |  |   |
| PBD 25 H 150                   | 4                           | 1610                                     | 42   | 101,06 | 99,69  | 78     | 104    | 45 | —      | 25 | 20  |  |   |
| PBD 26 H 150                   | 4                           | 1610                                     | 42   | 105,11 | 103,74 | 78     | 108    | 45 | —      | 25 | 20  |  |   |
| PBD 27 H 150                   | 4                           | 1610                                     | 42   | 109,15 | 107,78 | 86     | 113    | 45 | —      | 25 | 20  |  |   |
| PBD 28 H 150                   | 4                           | 1610                                     | 42   | 113,19 | 111,92 | 86     | 118    | 45 | —      | 25 | 20  |  |   |
| PBD 29 H 150                   | 4                           | 1610                                     | 42   | 117,23 | 115,86 | 95     | 121    | 45 | —      | 25 | 20  |  |   |
| PBD 30 H 150                   | 4                           | 1610                                     | 42   | 121,28 | 119,91 | 95     | 129    | 45 | —      | 25 | 20  |  |   |
| PBD 32 H 150                   | 8                           | 1610                                     | 42   | 129,36 | 127,99 | 110    | 137    | 45 | 82     | 25 | 20  |  |   |
| PBD 33 H 150                   | 8                           | 1610                                     | 42   | 133,40 | 132,03 | 112    | 137    | 45 | 82     | 25 | 20  |  |   |
| PBD 34 H 150                   | 8                           | 1610                                     | 42   | 137,45 | 136,08 | 112    | 142    | 45 | 82     | 25 | 20  |  |   |
| PBD 35 H 150                   | 8                           | 1610                                     | 42   | 141,49 | 140,12 | 120    | 145    | 45 | 82     | 25 | 20  |  |   |
| PBD 36 H 150                   | 8                           | 1610                                     | 42   | 145,53 | 144,16 | 120    | 151    | 45 | 82     | 25 | 20  |  |   |
| PBD 38 H 150                   | 8                           | 1610                                     | 42   | 153,62 | 152,25 | 136    | 158    | 45 | 82     | 25 | 20  |  |   |
| PBD 40 H 150                   | 8                           | 1610                                     | 42   | 161,70 | 160,33 | 136    | 168    | 45 | 82     | 25 | 20  |  |   |
| PBD 44 H 150                   | 8                           | 2012                                     | 50   | 177,87 | 176,50 | 162    | 191    | 45 | 110    | 32 | 13  |  |   |
| PBD 45 H 150                   | 8                           | 2012                                     | 50   | 181,91 | 180,54 | 162    | 189    | 45 | 110    | 32 | 13  |  |   |
| PBD 48 H 150                   | 8                           | 2012                                     | 50   | 194,04 | 192,67 | 168    | 199    | 45 | 110    | 32 | 13  |  |   |
| PBD 49 H 150                   | 12                          | 2012                                     | 50   | 198,08 | 196,71 | 172    | —      | 46 | 110    | 32 | 7   |  |   |
| PBD 50 H 150                   | 12                          | 2012                                     | 50   | 202,13 | 200,76 | 172    | —      | 46 | 110    | 32 | 7   |  |   |
| PBD 52 H 150                   | 12                          | 2012                                     | 50   | 210,21 | 208,84 | 185    | —      | 46 | 110    | 32 | 7   |  |   |
| PBD 60 H 150                   | 15                          | 2012                                     | 50   | 242,55 | 241,18 | 217    | —      | 46 | 110    | 32 | 7   |  |   |
| PBD 70 H 150                   | 15                          | 2012                                     | 50   | 282,98 | 281,61 | 264    | —      | 46 | 110    | 32 | 7   |  |   |
| PBD 72 H 150                   | 15                          | 2012                                     | 50   | 291,06 | 289,69 | 264    | —      | 46 | 110    | 32 | 7   |  |   |
| PBD 82 H 150                   | 15                          | 2012                                     | 50   | 331,49 | 330,12 | 312    | —      | 46 | 110    | 32 | 7   |  |   |
| PBD 84 H 150                   | 15                          | 2012                                     | 50   | 339,57 | 338,20 | 312    | —      | 46 | 110    | 32 | 7   |  |   |
| PBD 94 H 150                   | 15                          | 2517                                     | 65   | 380,00 | 378,63 | 357    | —      | 46 | 120    | 45 | 0,5 |  |   |
| PBD 96 H 150                   | 15                          | 2517                                     | 65   | 388,08 | 386,71 | 357    | —      | 46 | 120    | 45 | 0,5 |  |   |
| PBD 106 H 150                  | 15                          | 2517                                     | 65   | 428,51 | 427,14 | 402    | —      | 46 | 120    | 45 | 0,5 |  |   |
| PBD 116 H 150                  | 15                          | 2517                                     | 65   | 468,93 | 467,56 | 442    | —      | 46 | 120    | 45 | 0,5 |  |   |
| PBD 118 H 150                  | 15                          | 2517                                     | 65   | 477,02 | 475,65 | 457    | —      | 46 | 120    | 45 | 0,5 |  |   |
| PBD 120 H 150                  | 15                          | 2517                                     | 65   | 485,10 | 483,73 | 457    | —      | 46 | 120    | 45 | 0,5 |  |   |



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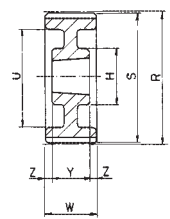


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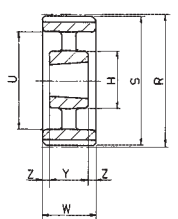
## PBD ... H 200

mm

| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | bushing<br>moyeu<br>Spannbuchse<br>bujie |  | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W  | H<br>Ø | Y  | Z   | flange<br>flasque<br>Bord<br>valona                      | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|--|--|--------|--------|--------|--------|----|--------|----|-----|--|---|
|                                |                             | type<br>type<br>Typ<br>tipo              | bore<br>alesage<br>Bohrung<br>bujie<br>max |        |        |        |        |    |        |    |     |  |   |
| PBD 16 H 200                   | 4                           | 1108                                     | 28   | 64,68  | 63,31  | 46     | 67     | 58 | —      | 22 | 36  | with flanges<br>avec flasques<br>mit Borde<br>con valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PBD 17 H 200                   | 4                           | 1210                                     | 32   | 68,72  | 67,35  | 52     | 77     | 58 | —      | 25 | 33  |  |   |
| PBD 18 H 200                   | 4                           | 1210                                     | 32   | 72,77  | 71,40  | 52     | 80     | 58 | —      | 25 | 33  |  |   |
| PBD 19 H 200                   | 4                           | 1610                                     | 42   | 76,81  | 75,44  | 56     | 84     | 58 | —      | 25 | 33  |  |   |
| PBD 20 H 200                   | 4                           | 1610                                     | 42   | 80,85  | 79,48  | 56     | 88     | 58 | —      | 25 | 33  |  |   |
| PBD 21 H 200                   | 4                           | 1610                                     | 42   | 84,89  | 83,52  | 62     | 94     | 58 | —      | 25 | 33  |  |   |
| PBD 22 H 200                   | 4                           | 1610                                     | 42   | 88,94  | 87,57  | 62     | 94     | 58 | —      | 25 | 33  |  |   |
| PBD 23 H 200                   | 4                           | 1610                                     | 42   | 92,98  | 91,61  | 71     | 98     | 58 | —      | 25 | 33  |  |   |
| PBD 24 H 200                   | 4                           | 1610                                     | 42   | 97,02  | 95,65  | 71     | 104    | 58 | —      | 25 | 33  |  |   |
| PBD 25 H 200                   | 4                           | 1610                                     | 42   | 101,06 | 99,69  | 78     | 104    | 58 | —      | 25 | 33  |  |   |
| PBD 26 H 200                   | 4                           | 1610                                     | 42   | 105,11 | 103,74 | 78     | 108    | 58 | —      | 25 | 33  |  |   |
| PBD 27 H 200                   | 4                           | 1610                                     | 42   | 109,15 | 107,78 | 86     | 113    | 58 | —      | 25 | 33  |  |   |
| PBD 28 H 200                   | 4                           | 1610                                     | 42   | 113,19 | 111,92 | 86     | 118    | 58 | —      | 25 | 33  |  |   |
| PBD 29 H 200                   | 4                           | 1610                                     | 42   | 117,23 | 115,86 | 95     | 121    | 58 | —      | 25 | 33  |  |   |
| PBD 30 H 200                   | 4                           | 1610                                     | 42   | 121,28 | 119,91 | 95     | 129    | 58 | —      | 25 | 33  |  |   |
| PBD 32 H 200                   | 4                           | 2012                                     | 50   | 129,36 | 127,99 | 110    | 137    | 58 | —      | 32 | 26  |  |   |
| PBD 33 H 200                   | 4                           | 2012                                     | 50   | 133,40 | 132,03 | 112    | 137    | 58 | —      | 32 | 26  |  |   |
| PBD 34 H 200                   | 4                           | 2012                                     | 50   | 137,45 | 136,08 | 112    | 142    | 58 | —      | 32 | 26  |  |   |
| PBD 35 H 200                   | 8                           | 2012                                     | 50   | 141,49 | 140,12 | 120    | 145    | 58 | 102    | 32 | 26  |  |   |
| PBD 36 H 200                   | 8                           | 2012                                     | 50   | 145,53 | 144,16 | 120    | 151    | 58 | 102    | 32 | 26  |  |   |
| PBD 38 H 200                   | 8                           | 2012                                     | 50   | 153,62 | 152,25 | 136    | 158    | 58 | 110    | 32 | 26  |  |   |
| PBD 40 H 200                   | 8                           | 2012                                     | 50   | 161,70 | 160,33 | 136    | 168    | 58 | 110    | 32 | 26  |  |   |
| PBD 44 H 200                   | 8                           | 2012                                     | 50   | 177,87 | 176,50 | 162    | 191    | 58 | 110    | 32 | 26  |  |   |
| PBD 45 H 200                   | 8                           | 2012                                     | 50   | 181,91 | 180,54 | 162    | 189    | 58 | 110    | 32 | 26  |  |   |
| PBD 48 H 200                   | 8                           | 2517                                     | 65   | 194,04 | 192,67 | 168    | 199    | 58 | 120    | 45 | 13  |  |   |
| PBD 49 H 200                   | 12                          | 2517                                     | 65   | 198,08 | 196,71 | 172    | —      | 60 | 120    | 45 | 7,5 |  |   |
| PBD 50 H 200                   | 12                          | 2517                                     | 65   | 202,13 | 200,76 | 172    | —      | 60 | 120    | 45 | 7,5 |  |   |
| PBD 52 H 200                   | 12                          | 2517                                     | 65   | 210,21 | 208,84 | 185    | —      | 60 | 120    | 45 | 7,5 |  |   |
| PBD 60 H 200                   | 15                          | 2517                                     | 65   | 242,55 | 241,18 | 217    | —      | 60 | 120    | 45 | 7,5 |  |   |
| PBD 70 H 200                   | 15                          | 2517                                     | 65   | 282,98 | 281,61 | 264    | —      | 60 | 120    | 45 | 7,5 |  |   |
| PBD 72 H 200                   | 15                          | 2517                                     | 65   | 291,06 | 289,69 | 264    | —      | 60 | 120    | 45 | 7,5 |  |   |
| PBD 82 H 200                   | 15                          | 2517                                     | 65   | 331,49 | 330,12 | 312    | —      | 60 | 120    | 45 | 7,5 |  |   |
| PBD 84 H 200                   | 15                          | 2517                                     | 65   | 339,57 | 338,20 | 312    | —      | 60 | 120    | 45 | 7,5 |  |   |
| PBD 94 H 200                   | 15                          | 2517                                     | 65   | 380,00 | 378,63 | 357    | —      | 60 | 120    | 45 | 7,5 |  |   |
| PBD 96 H 200                   | 15                          | 2517                                     | 65   | 388,08 | 386,71 | 357    | —      | 60 | 120    | 45 | 7,5 |  |   |
| PBD 106 H 200                  | 15                          | 2517                                     | 65   | 428,51 | 427,14 | 402    | —      | 60 | 120    | 45 | 7,5 |  |   |
| PBD 116 H 200                  | 15                          | 2517                                     | 65   | 468,93 | 467,56 | 442    | —      | 60 | 120    | 45 | 7,5 |  |   |
| PBD 118 H 200                  | 15                          | 2517                                     | 65   | 477,02 | 475,65 | 457    | —      | 60 | 120    | 45 | 7,5 |  |   |
| PBD 120 H 200                  | 15                          | 2517                                     | 65   | 485,10 | 483,73 | 457    | —      | 60 | 120    | 45 | 7,5 |  |   |



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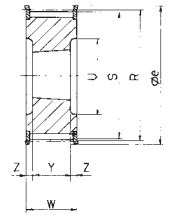
15



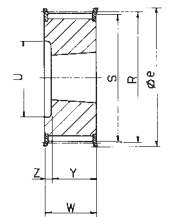
**PBD ... H 300**

mm

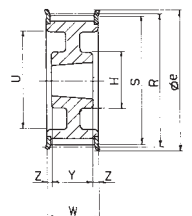
| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | bushing<br>moyeu<br>Spannbuchse<br>bujie |  | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W  | H<br>Ø | Y  | Z    | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |  |
|--------------------------------|-----------------------------|--|--|--------|--------|--------|--------|----|--------|----|------|--|---|--|
|                                |                             | type<br>type<br>Typ<br>tipo              | bore<br>alesage<br>Bohrung<br>bujie<br>max |        |        |        |        |    |        |    |      |  |   |  |
| PBD 19 H 300                   | 3                           | 1215                                     | 32   | 76,81  | 75,44  | 56     | 84     | 84 | —      | 38 | 23   | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición   |  |
| PBD 20 H 300                   | 3                           | 1615                                     | 42   | 80,85  | 79,48  | 56     | 88     | 84 | —      | 38 | 23   |  |   |  |
| PBD 21 H 300                   | 3                           | 1615                                     | 42   | 84,89  | 83,52  | 62     | 94     | 84 | —      | 38 | 23   |  |   |  |
| PBD 22 H 300                   | 3                           | 1615                                     | 42   | 88,94  | 87,57  | 62     | 94     | 84 | —      | 38 | 23   |  |   |  |
| PBD 23 H 300                   | 3                           | 1615                                     | 42   | 92,98  | 91,61  | 71     | 98     | 84 | —      | 38 | 23   |  |   |  |
| PBD 24 H 300                   | 3                           | 1615                                     | 42   | 97,02  | 95,65  | 71     | 104    | 84 | —      | 38 | 23   |  |   |  |
| PBD 25 H 300                   | 3                           | 1615                                     | 42   | 101,06 | 99,69  | 78     | 104    | 84 | —      | 38 | 23   |  |   |  |
| PBD 26 H 300                   | 3                           | 1615                                     | 42   | 105,11 | 103,74 | 78     | 108    | 84 | —      | 38 | 23   |  |   |  |
| PBD 27 H 300                   | 3                           | 2012                                     | 50   | 109,15 | 107,78 | 86     | 113    | 84 | —      | 32 | 26   |  |   |  |
| PBD 28 H 300                   | 3                           | 2012                                     | 50   | 113,19 | 111,92 | 86     | 118    | 84 | —      | 32 | 26   |  |   |  |
| PBD 29 H 300                   | 3                           | 2012                                     | 50   | 117,23 | 115,86 | 95     | 121    | 84 | —      | 32 | 26   |  |   |  |
| PBD 30 H 300                   | 3                           | 2012                                     | 50   | 121,28 | 119,91 | 95     | 129    | 84 | —      | 32 | 26   |  |   |  |
| PBD 32 H 300                   | 3                           | 2517                                     | 65   | 129,36 | 127,99 | 110    | 137    | 84 | —      | 45 | 19,5 |  |   |  |
| PBD 33 H 300                   | 3                           | 2517                                     | 65   | 133,40 | 132,03 | 112    | 137    | 84 | —      | 45 | 19,5 |  |   |  |
| PBD 34 H 300                   | 3                           | 2517                                     | 65   | 137,45 | 136,08 | 112    | 142    | 84 | —      | 45 | 19,5 |  |   |  |
| PBD 35 H 300                   | 3                           | 2517                                     | 65   | 141,49 | 140,12 | 120    | 145    | 84 | —      | 45 | 19,5 |  |   |  |
| PBD 36 H 300                   | 3                           | 2517                                     | 65   | 145,53 | 144,16 | 120    | 151    | 84 | —      | 45 | 19,5 |  |   |  |
| PBD 38 H 300                   | 5                           | 2517                                     | 65   | 153,62 | 152,25 | 136    | 158    | 84 | 120    | 45 | 19,5 |  |   |  |
| PBD 40 H 300                   | 5                           | 2517                                     | 65   | 161,70 | 160,33 | 136    | 168    | 84 | 120    | 45 | 19,5 |  |   |  |
| PBD 44 H 300                   | 5                           | 2517                                     | 65   | 177,87 | 176,50 | 162    | 191    | 86 | 120    | 45 | 20,5 |  |   |  |
| PBD 45 H 300                   | 5                           | 2517                                     | 65   | 181,91 | 180,54 | 162    | 189    | 86 | 120    | 45 | 20,5 |  |   |  |
| PBD 48 H 300                   | 5                           | 2517                                     | 65   | 194,04 | 192,67 | 168    | 199    | 86 | 120    | 45 | 20,5 |  |   |  |
| PBD 49 H 300                   | 12                          | 2517                                     | 65   | 198,08 | 196,71 | 172    | —      | 86 | 120    | 45 | 20,5 | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |  |
| PBD 50 H 300                   | 12                          | 2517                                     | 65   | 202,13 | 200,76 | 172    | —      | 86 | 120    | 45 | 20,5 |  |   |  |
| PBD 52 H 300                   | 12                          | 2517                                     | 65   | 210,21 | 208,84 | 185    | —      | 86 | 120    | 45 | 20,5 |  |   |  |
| PBD 60 H 300                   | 15                          | 2517                                     | 65   | 242,55 | 241,18 | 217    | —      | 86 | 120    | 45 | 20,5 |  |   |  |
| PBD 70 H 300                   | 15                          | 2517                                     | 65   | 282,98 | 281,61 | 264    | —      | 86 | 120    | 45 | 20,5 |  |   |  |
| PBD 72 H 300                   | 15                          | 2517                                     | 65   | 291,06 | 289,69 | 264    | —      | 86 | 120    | 45 | 20,5 |  |   |  |
| PBD 82 H 300                   | 15                          | 2517                                     | 65   | 331,49 | 330,12 | 312    | —      | 86 | 120    | 45 | 20,5 |  |   |  |
| PBD 84 H 300                   | 15                          | 2517                                     | 65   | 339,57 | 338,20 | 312    | —      | 86 | 120    | 45 | 20,5 |  |   |  |
| PBD 94 H 300                   | 15                          | 3030                                     | 75   | 380,00 | 378,63 | 357    | —      | 86 | 146    | 76 | 5    |  |   |  |
| PBD 96 H 300                   | 15                          | 3030                                     | 75   | 388,08 | 386,71 | 357    | —      | 86 | 146    | 76 | 5    |  |   |  |
| PBD 106 H 300                  | 15                          | 3030                                     | 75   | 428,51 | 427,14 | 402    | —      | 86 | 146    | 76 | 5    |  |   |  |
| PBD 116 H 300                  | 15                          | 3030                                     | 75   | 468,93 | 467,56 | 442    | —      | 86 | 146    | 76 | 5    |  |   |  |
| PBD 118 H 300                  | 15                          | 3030                                     | 75   | 477,02 | 475,65 | 457    | —      | 86 | 146    | 76 | 5    |  |   |  |
| PBD 120 H 300                  | 15                          | 3030                                     | 75   | 485,10 | 483,73 | 457    | —      | 86 | 146    | 76 | 5    |  |   |  |



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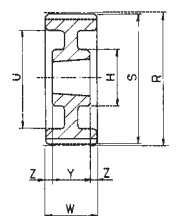


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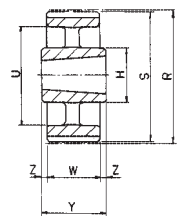
**PBD ... XH 200**

mm

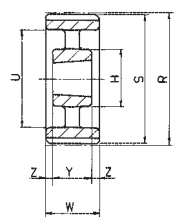
| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | bushing<br>moyeu<br>Spannbuchse<br>bujie |  | R<br>Ø | S<br>Ø | U<br>Ø | e<br>Ø | W  | H<br>Ø | Y  | Z    | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|--|--|--------|--------|--------|--------|----|--------|----|------|--|---|
|                                |                             | type<br>type<br>Typ<br>tipo              | bore<br>alesage<br>Bohrung<br>bujie<br>max |        |        |        |        |    |        |    |      |  |   |
| PBD 18 XH 200                  | 4                           | 2517                                     | 65   | 127,34 | 124,55 | 95     | 134    | 64 | —      | 45 | 19   | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PBD 19 XH 200                  | 4                           | 2517                                     | 65   | 134,41 | 131,62 | 101    | 142    | 64 | —      | 45 | 19   |  |   |
| PBD 20 XH 200                  | 4                           | 2517                                     | 65   | 141,49 | 138,70 | 101    | 150    | 64 | —      | 45 | 19   |  |   |
| PBD 21 XH 200                  | 4                           | 2517                                     | 65   | 148,56 | 145,77 | 115    | 158    | 64 | —      | 45 | 19   |  |   |
| PBD 22 XH 200                  | 4                           | 2517                                     | 65   | 155,64 | 152,85 | 115    | 166    | 64 | —      | 45 | 19   |  |   |
| PBD 24 XH 200                  | 4                           | 2517                                     | 65   | 169,79 | 167,00 | 129    | 177    | 64 | —      | 45 | 19   |  |   |
| PBD 25 XH 200                  | 4                           | 2517                                     | 65   | 176,86 | 174,07 | 143    | 186    | 64 | —      | 45 | 19   |  |   |
| PBD 26 XH 200                  | 4                           | 2517                                     | 65   | 183,94 | 171,15 | 143    | 191    | 64 | —      | 45 | 19   |  |   |
| PBD 27 XH 200                  | 5                           | 2517                                     | 65   | 191,01 | 188,22 | 157    | 200    | 64 | 120    | 45 | 9,5  |  |   |
| PBD 28 XH 200                  | 5                           | 2517                                     | 65   | 198,08 | 195,29 | 157    | 199    | 64 | 120    | 45 | 9,5  |  |   |
| PBD 30 XH 200                  | 5                           | 2517                                     | 65   | 212,23 | 209,44 | 180    | 216    | 64 | 120    | 45 | 9,5  | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| PBD 32 XH 200                  | 5                           | 2517                                     | 65   | 226,38 | 223,59 | 195    | 232    | 64 | 120    | 45 | 9,5  |  |   |
| PBD 34 XH 200                  | 5                           | 2517                                     | 65   | 240,53 | 237,74 | 208    | 261    | 64 | 120    | 45 | 9,5  |  |   |
| PBD 38 XH 200                  | 5                           | 2517                                     | 65   | 268,83 | 266,03 | 234    | 274    | 64 | 120    | 45 | 9,5  |  |   |
| PBD 40 XH 200                  | 5                           | 3020                                     | 75   | 282,98 | 280,19 | 242    | 288    | 64 | 146    | 51 | 6,5  |  |   |
| PBD 46 XH 200                  | 15                          | 3020                                     | 75   | 325,42 | 322,63 | 285    | —      | 64 | 146    | 51 | 6,5  |  |   |
| PBD 48 XH 200                  | 15                          | 3020                                     | 75   | 339,57 | 336,78 | 299    | —      | 64 | 146    | 51 | 6,5  |  |   |
| PBD 58 XH 200                  | 15                          | 3020                                     | 75   | 410,32 | 407,52 | 370    | —      | 64 | 146    | 51 | 6,5  |  |   |
| PBD 60 XH 200                  | 13                          | 3535                                     | 90   | 424,47 | 421,68 | 384    | —      | 64 | 178    | 89 | 12,5 |  |   |
| PBD 70 XH 200                  | 13                          | 3535                                     | 90   | 495,21 | 492,42 | 455    | —      | 64 | 178    | 89 | 12,5 |  |   |
| PBD 72 XH 200                  | 13                          | 3535                                     | 90   | 509,36 | 506,57 | 469    | —      | 64 | 178    | 89 | 12,5 | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| PBD 78 XH 200                  | 13                          | 3535                                     | 90   | 551,80 | 549,01 | 511    | —      | 64 | 178    | 89 | 12,5 |  |   |
| PBD 80 XH 200                  | 13                          | 3535                                     | 90   | 565,95 | 563,16 | 525    | —      | 64 | 178    | 89 | 12,5 |  |   |
| PBD 82 XH 200                  | 13                          | 3535                                     | 90   | 580,10 | 577,31 | 539    | —      | 64 | 178    | 89 | 12,5 |  |   |
| PBD 84 XH 200                  | 13                          | 3535                                     | 90   | 594,25 | 591,46 | 554    | —      | 64 | 178    | 89 | 12,5 |  |   |



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13

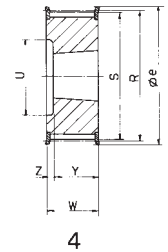


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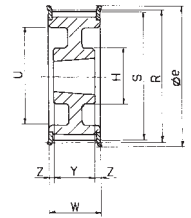
**PBD ... XH 300**

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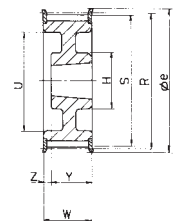
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|--------------------------------|-----------------------------|--|--|--------|--------|--------|--------|----|--------|-----|------|--|---|
|                                |                             | type<br>type<br>Typ<br>tipo              | bore<br>alesage<br>Bohrung<br>bujie<br>max |        |        |        |        |    |        |     |      |  |   |
| PBD 18 XH 300                  | 4                           | 2517                                     | 65   | 127,34 | 124,55 | 95     | 134    | 90 | -      | 45  | 45   | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PBD 19 XH 300                  | 4                           | 2517                                     | 65   | 134,41 | 131,62 | 95     | 142    | 90 | -      | 45  | 45   |  |   |
| PBD 20 XH 300                  | 4                           | 2517                                     | 65   | 141,49 | 138,70 | 101    | 150    | 90 | -      | 45  | 45   |  |   |
| PBD 21 XH 300                  | 4                           | 2517                                     | 65   | 148,56 | 145,77 | 115    | 158    | 90 | -      | 45  | 45   |  |   |
| PBD 22 XH 300                  | 4                           | 2517                                     | 65   | 155,64 | 152,85 | 115    | 166    | 90 | -      | 45  | 45   |  |   |
| PBD 24 XH 300                  | 4                           | 2517                                     | 65   | 169,79 | 167,00 | 129    | 177    | 90 | -      | 45  | 45   |  |   |
| PBD 25 XH 300                  | 4                           | 2517                                     | 65   | 176,86 | 174,07 | 143    | 186    | 90 | -      | 45  | 45   |  |   |
| PBD 26 XH 300                  | 4                           | 2517                                     | 65   | 183,94 | 171,15 | 143    | 191    | 90 | -      | 45  | 45   |  |   |
| PBD 27 XH 300                  | 8                           | 3020                                     | 75   | 191,01 | 188,22 | 157    | 200    | 90 | 146    | 51  | 39   |  |   |
| PBD 28 XH 300                  | 8                           | 3020                                     | 75   | 198,08 | 195,29 | 157    | 199    | 90 | 146    | 51  | 39   |  |   |
| PBD 30 XH 300                  | 8                           | 3020                                     | 75   | 212,23 | 209,44 | 172    | 216    | 90 | 146    | 51  | 39   | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PBD 32 XH 300                  | 8                           | 3020                                     | 75   | 226,38 | 223,59 | 186    | 232    | 90 | 146    | 51  | 39   |  |   |
| PBD 34 XH 300                  | 8                           | 3020                                     | 75   | 240,53 | 237,74 | 200    | 261    | 90 | 146    | 51  | 39   |  |   |
| PBD 38 XH 300                  | 8                           | 3020                                     | 75   | 268,83 | 266,03 | 228    | 274    | 90 | 146    | 51  | 39   |  |   |
| PBD 40 XH 300                  | 5                           | 3020                                     | 75   | 282,98 | 280,19 | 245    | 288    | 90 | 146    | 51  | 19,5 |  |   |
| PBD 46 XH 300                  | 12                          | 3020                                     | 75   | 325,42 | 322,63 | 285    | -      | 90 | 146    | 51  | 19,5 |  |   |
| PBD 48 XH 300                  | 12                          | 3020                                     | 75   | 339,57 | 336,78 | 299    | -      | 90 | 146    | 51  | 19,5 |  |   |
| PBD 58 XH 300                  | 12                          | 3535                                     | 90   | 410,32 | 407,52 | 370    | -      | 90 | 178    | 89  | 0,5  |  |   |
| PBD 60 XH 300                  | 12                          | 3535                                     | 90   | 424,47 | 421,68 | 384    | -      | 90 | 178    | 89  | 0,5  |  |   |
| PBD 70 XH 300                  | 15                          | 3535                                     | 90   | 495,21 | 492,42 | 455    | -      | 90 | 178    | 89  | 0,5  |  |   |
| PBD 72 XH 300                  | 15                          | 3535                                     | 90   | 509,36 | 506,57 | 469    | -      | 90 | 178    | 89  | 0,5  | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PBD 78 XH 300                  | 15                          | 3535                                     | 90   | 551,80 | 549,01 | 511    | -      | 90 | 178    | 89  | 0,5  |  |   |
| PBD 80 XH 300                  | 15                          | 3535                                     | 90   | 565,95 | 563,16 | 525    | -      | 90 | 178    | 89  | 0,5  |  |   |
| PBD 82 XH 300                  | 15                          | 3535                                     | 90   | 580,10 | 577,31 | 539    | -      | 90 | 178    | 89  | 0,5  |  |   |
| PBD 84 XH 300                  | 13                          | 4040                                     | 100  | 594,25 | 591,46 | 554    | -      | 90 | 215    | 102 | 6    |  |   |



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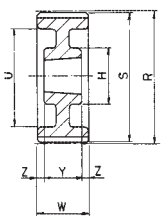


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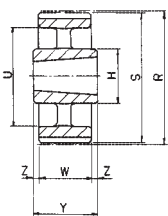
**PBD ... XH 400**

mm

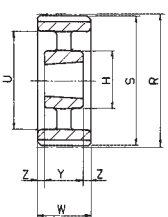
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|--------------------------------|-----------------------------|--|--|--------|--------|--------|--------|-----|--------|-----|-----|--|---|
|                                |                             | type<br>type<br>Typ<br>tipo              | bore<br>alesage<br>Bohrung<br>bujie<br>max |        |        |        |        |     |        |     |     |  |   |
| PBD 18 XH 400                  | 4                           | 2517                                     | 65   | 127,34 | 124,55 | 95     | 134    | 119 | -      | 45  | 74  | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PBD 19 XH 400                  | 4                           | 2517                                     | 65   | 134,41 | 131,62 | 95     | 142    | 119 | -      | 45  | 74  |  |   |
| PBD 20 XH 400                  | 4                           | 2517                                     | 65   | 141,49 | 138,70 | 101    | 150    | 119 | -      | 45  | 74  |  |   |
| PBD 21 XH 400                  | 4                           | 2517                                     | 65   | 148,56 | 145,77 | 115    | 158    | 119 | -      | 45  | 74  |  |   |
| PBD 22 XH 400                  | 4                           | 2517                                     | 65   | 155,64 | 152,85 | 115    | 166    | 119 | -      | 45  | 74  |  |   |
| PBD 24 XH 400                  | 4                           | 3020                                     | 75   | 169,79 | 167,00 | 129    | 177    | 119 | -      | 51  | 68  |  |   |
| PBD 25 XH 400                  | 4                           | 3020                                     | 75   | 176,86 | 174,07 | 143    | 186    | 119 | -      | 51  | 68  |  |   |
| PBD 26 XH 400                  | 4                           | 3020                                     | 75   | 183,94 | 171,15 | 143    | 191    | 119 | -      | 51  | 68  |  |   |
| PBD 27 XH 400                  | 4                           | 3020                                     | 75   | 191,01 | 188,22 | 157    | 200    | 119 | -      | 51  | 68  |  |   |
| PBD 28 XH 400                  | 4                           | 3020                                     | 75   | 198,08 | 195,29 | 157    | 199    | 119 | -      | 51  | 68  |  |   |
| PBD 30 XH 400                  | 8                           | 3020                                     | 75   | 212,23 | 209,44 | 180    | 216    | 119 | 146    | 51  | 68  | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PBD 32 XH 400                  | 8                           | 3020                                     | 75   | 226,38 | 223,59 | 195    | 232    | 119 | 146    | 51  | 68  |  |   |
| PBD 34 XH 400                  | 8                           | 3020                                     | 75   | 240,53 | 237,74 | 208    | 261    | 119 | 146    | 51  | 68  |  |   |
| PBD 38 XH 400                  | 8                           | 3020                                     | 75   | 268,83 | 266,03 | 234    | 274    | 119 | 146    | 51  | 68  |  |   |
| PBD 40 XH 400                  | 5                           | 3535                                     | 90   | 282,98 | 280,19 | 242    | 288    | 119 | 178    | 89  | 15  |  |   |
| PBD 46 XH 400                  | 12                          | 3535                                     | 90   | 325,42 | 322,63 | 285    | -      | 119 | 178    | 89  | 15  |  |   |
| PBD 48 XH 400                  | 12                          | 3535                                     | 90   | 339,57 | 336,78 | 299    | -      | 119 | 178    | 89  | 15  |  |   |
| PBD 58 XH 400                  | 15                          | 3535                                     | 90   | 410,32 | 407,52 | 370    | -      | 119 | 178    | 89  | 51  |  |   |
| PBD 60 XH 400                  | 15                          | 4040                                     | 100  | 424,47 | 421,68 | 384    | -      | 119 | 215    | 102 | 8,5 |  |   |
| PBD 70 XH 400                  | 15                          | 4040                                     | 100  | 495,21 | 492,42 | 455    | -      | 119 | 215    | 102 | 8,5 |  |   |
| PBD 72 XH 400                  | 15                          | 4040                                     | 100  | 509,36 | 506,57 | 469    | -      | 119 | 215    | 102 | 8,5 | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PBD 78 XH 400                  | 15                          | 4040                                     | 100  | 551,80 | 549,01 | 511    | -      | 119 | 215    | 102 | 8,5 |  |   |
| PBD 80 XH 400                  | 15                          | 4040                                     | 100  | 565,95 | 563,16 | 525    | -      | 119 | 90     | 102 | 8,5 |  |   |
| PBD 82 XH 400                  | 15                          | 4040                                     | 100  | 580,10 | 577,31 | 539    | -      | 119 | 90     | 102 | 8,5 |  |   |
| PBD 84 XH 400                  | 15                          | 4040                                     | 100  | 594,25 | 591,46 | 554    | -      | 119 | 90     | 102 | 8,5 |  |   |



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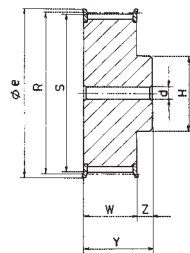
15

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«EXPORT» POULIES DENTEES  
«EXPORT» STANDARD-ZAHNSCHEIBEN  
«EXPORT» POLEAS DENTADAS

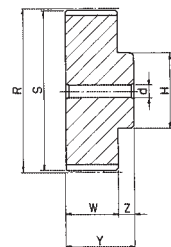
PDE ... XL 037

| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | e<br>Ø | Y    | Z    | U | H<br>Ø | W    | d<br>Ø | (Mx) | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material   |
|--------------------------------|-----------------------------|-----------------------------|------------------------------------|--------|--------|--------|------|------|---|--------|------|--------|------|--|---|
| PDE 10 XL 037                  | 1                           | 6F                          | 10                                 | 16,17  | 15,66  | 20     | 19,8 | 5,5  | - | 9,5    | 14,3 | 4      | M3   | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero                |
| PDE 11 XL 037                  | 1                           | 6F                          | 11                                 | 17,79  | 17,28  | 20     | 19,8 | 5,5  | - | 11,1   | 14,3 | 4      | M3   |  |   |
| PDE 12 XL 037                  | 1                           | 6F                          | 12                                 | 19,40  | 18,89  | 24     | 19,8 | 5,5  | - | 12,7   | 14,3 | 4      | M3   |  |   |
| PDE 14 XL 037                  | 1                           | 6F                          | 14                                 | 22,64  | 22,16  | 27     | 19,8 | 5,5  | - | 14,3   | 14,3 | 6      | M4   |  |   |
| PDE 15 XL 037                  | 1                           | 6F                          | 15                                 | 24,25  | 23,74  | 27     | 19,8 | 5,5  | - | 15,9   | 14,3 | 6      | M4   |  |   |
| PDE 16 XL 037                  | 1                           | 6F                          | 16                                 | 25,87  | 25,36  | 30     | 19,8 | 5,5  | - | 17,5   | 14,3 | 6      | M4   |  |   |
| PDE 18 XL 037                  | 1                           | 6F                          | 18                                 | 29,11  | 28,60  | 33     | 19,8 | 5,5  | - | 20,6   | 14,3 | 6      | M4   |  |   |
| PDE 20 XL 037                  | 1                           | 6F                          | 20                                 | 32,34  | 31,83  | 36     | 22,2 | 7,9  | - | 23,8   | 14,3 | 6      | M4   |  |   |
| PDE 21 XL 037                  | 1                           | 6F                          | 21                                 | 33,96  | 33,45  | 40     | 22,2 | 7,9  | - | 23,8   | 14,3 | 6      | M4   |  |   |
| PDE 22 XL 037                  | 1                           | 6F                          | 22                                 | 35,57  | 35,06  | 40     | 22,2 | 7,9  | - | 25,4   | 14,3 | 6      | M4   |  |   |
| PDE 24 XL 037                  | 1                           | 6F                          | 24                                 | 38,81  | 38,30  | 46     | 22,2 | 7,9  | - | 27,0   | 14,3 | 6      | M4   |  |   |
| PDE 26 XL 037                  | 1                           | 6F                          | 26                                 | 42,03  | 41,53  | 46     | 22,2 | 7,9  | - | 30,0   | 14,3 | 6      | M4   |  |   |
| PDE 28 XL 037                  | 1                           | 6F                          | 28                                 | 45,28  | 44,77  | 50     | 22,2 | 7,9  | - | 30,2   | 14,3 | 6      | M4   |  |   |
| PDE 30 XL 037                  | 1                           | 6F                          | 30                                 | 49,51  | 48,00  | 55     | 22,2 | 7,9  | - | 34,9   | 14,3 | 6      | M4   |  |   |
| PDE 32 XL 037                  | 2                           | 6                           | 32                                 | 51,74  | 51,23  | -      | 25,4 | 11,1 | - | 38,0   | 14,3 | 8      | M4   | without flanges<br>sans flasques<br>ohne Borde<br>sin valona | Aluminium<br>Aluminium<br>Aluminium<br>Aluminio |
| PDE 36 XL 037                  | 2                           | 6                           | 36                                 | 58,21  | 57,70  | -      | 25,4 | 11,1 | - | 38,0   | 14,3 | 8      | M4   |  |   |
| PDE 40 XL 037                  | 2                           | 6                           | 40                                 | 64,68  | 64,17  | -      | 25,4 | 11,1 | - | 38,0   | 14,3 | 8      | M4   |  |   |
| PDE 42 XL 037                  | 4                           | 6W                          | 42                                 | 67,91  | 67,40  | -      | 25,4 | 11,1 | - | 38,0   | 14,3 | 8      | M4   |  |   |
| PDE 44 XL 037                  | 4                           | 6W                          | 44                                 | 71,15  | 70,64  | -      | 25,4 | 11,1 | - | 38,0   | 14,3 | 8      | M4   |  |   |
| PDE 48 XL 037                  | 4                           | 6W                          | 48                                 | 77,62  | 77,11  | -      | 25,4 | 11,1 | - | 38,0   | 14,3 | 8      | M4   |  |   |
| PDE 60 XL 037                  | 7                           | 6A                          | 60                                 | 97,02  | 96,51  | -      | 25,4 | 11,1 | - | 38,0   | 14,3 | 8      | M4   |  |   |
| PDE 72 XL 037                  | 7                           | 6A                          | 72                                 | 116,43 | 115,92 | -      | 25,4 | 11,1 | - | 38,0   | 14,3 | 8      | M4   |  |   |

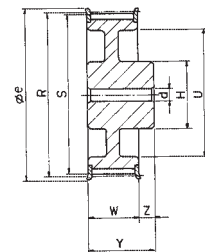
(Mx) set-screws - vis blocage - Stift-Schrauben - yornillos de bloqueo



1



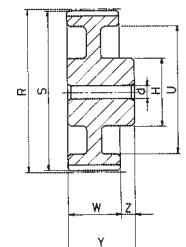
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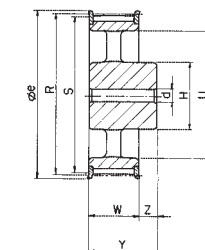
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PDE ... L 050

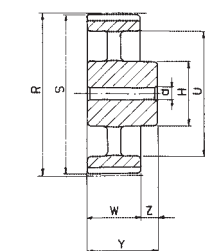
| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | e<br>Ø | Y    | Z   | U     | H<br>Ø | W    | E | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|-----------------------------|------------------------------------|--------|--------|--------|------|-----|-------|--------|------|---|--------|--|---|
| PDE 10 L 050                   | 1                           | 6F                          | 10                                 | 30,32  | 29,56  | 33     | 26,0 | 7,0 | -     | 22,0   | 19,0 | - | 6      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PDE 12 L 050                   | 1                           | 6F                          | 12                                 | 36,38  | 35,62  | 40     | 26,0 | 7,0 | -     | 28,0   | 19,0 | - | 6      |  |   |
| PDE 13 L 050                   | 1                           | 6F                          | 13                                 | 39,41  | 38,65  | 47     | 26,0 | 7,0 | -     | 30,0   | 19,0 | - | 6      |  |   |
| PDE 14 L 050                   | 1                           | 6F                          | 14                                 | 42,45  | 41,69  | 46     | 26,0 | 7,0 | -     | 33,0   | 19,0 | - | 6      |  |   |
| PDE 15 L 050                   | 1                           | 6F                          | 15                                 | 45,48  | 44,72  | 50     | 26,0 | 7,0 | -     | 36,0   | 19,0 | - | 8      |  |   |
| PDE 16 L 050                   | 1                           | 6F                          | 16                                 | 48,51  | 47,75  | 55     | 26,0 | 7,0 | -     | 38,0   | 19,0 | - | 8      |  |   |
| PDE 17 L 050                   | 1                           | 6F                          | 17                                 | 51,54  | 50,78  | 55     | 26,0 | 7,0 | -     | 40,0   | 19,0 | - | 10     |  |   |
| PDE 18 L 050                   | 1                           | 6F                          | 18                                 | 54,57  | 53,81  | 62     | 26,0 | 7,0 | -     | 40,0   | 19,0 | - | 10     |  |   |
| PDE 19 L 050                   | 1                           | 6F                          | 19                                 | 57,61  | 56,84  | 62     | 26,0 | 7,0 | -     | 40,0   | 19,0 | - | 10     |  |   |
| PDE 20 L 050                   | 1                           | 6F                          | 20                                 | 60,64  | 59,88  | 67     | 26,0 | 7,0 | -     | 46,0   | 19,0 | - | 10     |  |   |
| PDE 21 L 050                   | 1                           | 6F                          | 21                                 | 63,67  | 62,91  | 67     | 26,0 | 7,0 | -     | 46,0   | 19,0 | - | 10     |  |   |
| PDE 22 L 050                   | 1                           | 6F                          | 22                                 | 66,70  | 65,94  | 73     | 26,0 | 7,0 | -     | 50,0   | 19,0 | - | 10     |  |   |
| PDE 24 L 050                   | 1                           | 6F                          | 26                                 | 72,77  | 72,01  | 80     | 26,0 | 7,0 | -     | 50,0   | 19,0 | - | 12     |  |   |
| PDE 26 L 050                   | 1                           | 6F                          | 26                                 | 78,83  | 78,07  | 88     | 26,0 | 7,0 | -     | 50,0   | 19,0 | - | 12     |  |   |
| PDE 28 L 050                   | 1                           | 6F                          | 28                                 | 84,89  | 84,13  | 94     | 26,0 | 7,0 | -     | 50,0   | 19,0 | - | 12     |  |   |
| PDE 30 L 050                   | 1                           | 6F                          | 30                                 | 90,96  | 90,20  | 98     | 26,0 | 7,0 | -     | 50,0   | 19,0 | - | 12     | without flanges<br>sans flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PDE 32 L 050                   | 1                           | 6F                          | 32                                 | 97,02  | 96,26  | 100    | 26,0 | 7,0 | -     | 50,0   | 19,0 | - | 12     |  |   |
| PDE 36 L 050                   | 3                           | 6WF                         | 36                                 | 109,15 | 108,39 | 113    | 26,0 | 7,0 | 85,0  | 50,0   | 19,0 | - | 12     |  |   |
| PDE 40 L 050                   | 3                           | 6WF                         | 40                                 | 121,28 | 120,52 | 129    | 26,0 | 7,0 | 101,0 | 50,0   | 19,0 | - | 12     |  |   |
| PDE 44 L 050                   | 6                           | 6AF                         | 44                                 | 133,40 | 132,64 | 142    | 26,0 | 7,0 | 110,0 | 50,0   | 19,0 | - | 12     |  |   |
| PDE 48 L 050                   | 6                           | 6AF                         | 48                                 | 145,53 | 144,77 | 151    | 26,0 | 7,0 | 123,0 | 50,0   | 19,0 | - | 12     |  |   |
| PDE 50 L 050                   | 7                           | 6A                          | 50                                 | 151,60 | 150,83 | -      | 28,0 | 9,0 | 159,0 | 50,0   | 19,0 | - | 15     |  |   |
| PDE 72 L 050                   | 7                           | 6A                          | 72                                 | 218,30 | 217,54 | -      | 28,0 | 9,0 | 195,0 | 50,0   | 19,0 | - | 15     |  |   |
| PDE 84 L 050                   | 7                           | 6A                          | 84                                 | 254,68 | 253,92 | -      | 28,0 | 9,0 | 228,0 | 50,0   | 19,0 | - | 15     |  |   |



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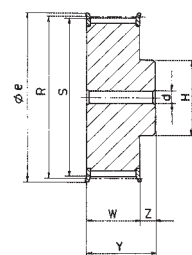


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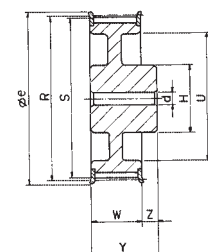
# PDE ... L 075

mm

| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | e<br>Ø | Y    | Z   | U<br>Ø | H<br>Ø | W    | E | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|-----------------------------|------------------------------------|--------|--------|--------|------|-----|--------|--------|------|---|--------|--|---|
| PDE 12 L 075                   | 1                           | 6F                          | 12                                 | 36,38  | 35,62  | 40     | 32,0 | 7,0 | -      | 28,0   | 25,0 | - | 8      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PDE 13 L 075                   | 1                           | 6F                          | 13                                 | 39,41  | 38,65  | 47     | 32,0 | 7,0 | -      | 30,0   | 25,0 | - | 8      |  |   |
| PDE 14 L 075                   | 1                           | 6F                          | 14                                 | 42,45  | 41,69  | 46     | 32,0 | 7,0 | -      | 33,0   | 25,0 | - | 8      |  |   |
| PDE 15 L 075                   | 1                           | 6F                          | 15                                 | 45,48  | 44,72  | 50     | 32,0 | 7,0 | -      | 36,0   | 25,0 | - | 8      |  |   |
| PDE 16 L 075                   | 1                           | 6F                          | 16                                 | 48,51  | 47,75  | 55     | 32,0 | 7,0 | -      | 38,0   | 25,0 | - | 8      |  |   |
| PDE 17 L 075                   | 1                           | 6F                          | 17                                 | 51,54  | 50,78  | 55     | 32,0 | 7,0 | -      | 40,0   | 25,0 | - | 10     |  |   |
| PDE 18 L 075                   | 1                           | 6F                          | 18                                 | 54,57  | 53,81  | 62     | 32,0 | 7,0 | -      | 40,0   | 25,0 | - | 10     |  |   |
| PDE 19 L 075                   | 1                           | 6F                          | 19                                 | 57,61  | 56,84  | 62     | 32,0 | 7,0 | -      | 40,0   | 25,0 | - | 10     |  |   |
| PDE 20 L 075                   | 1                           | 6F                          | 20                                 | 60,64  | 59,88  | 67     | 32,0 | 7,0 | -      | 46,0   | 25,0 | - | 10     |  |   |
| PDE 21 L 075                   | 1                           | 6F                          | 21                                 | 63,67  | 62,91  | 67     | 32,0 | 7,0 | -      | 46,0   | 25,0 | - | 10     |  |   |
| PDE 22 L 075                   | 1                           | 6F                          | 22                                 | 66,70  | 65,94  | 73     | 32,0 | 7,0 | -      | 50,0   | 25,0 | - | 10     |  |   |
| PDE 24 L 075                   | 1                           | 6F                          | 26                                 | 72,77  | 72,01  | 80     | 32,0 | 7,0 | -      | 50,0   | 25,0 | - | 12     |  |   |
| PDE 26 L 075                   | 1                           | 6F                          | 26                                 | 78,83  | 78,07  | 88     | 32,0 | 7,0 | -      | 50,0   | 25,0 | - | 12     |  |   |
| PDE 28 L 075                   | 1                           | 6F                          | 28                                 | 84,89  | 84,13  | 94     | 32,0 | 7,0 | -      | 50,0   | 25,0 | - | 12     |  |   |
| PDE 30 L 075                   | 1                           | 6F                          | 30                                 | 90,96  | 90,20  | 98     | 32,0 | 7,0 | -      | 50,0   | 25,0 | - | 12     | without flanges<br>sans flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PDE 32 L 075                   | 1                           | 6F                          | 32                                 | 97,02  | 96,26  | 100    | 32,0 | 7,0 | -      | 50,0   | 25,0 | - | 12     |  |   |
| PDE 36 L 075                   | 3                           | 6WF                         | 36                                 | 109,15 | 108,39 | 113    | 32,0 | 7,0 | 85,0   | 55,0   | 25,0 | - | 12     |  |   |
| PDE 40 L 075                   | 3                           | 6WF                         | 40                                 | 121,28 | 120,52 | 129    | 32,0 | 7,0 | 101,0  | 60,0   | 25,0 | - | 12     |  |   |
| PDE 44 L 075                   | 6                           | 6AF                         | 44                                 | 133,40 | 132,64 | 142    | 32,0 | 7,0 | 110,0  | 60,0   | 25,0 | - | 12     |  |   |
| PDE 48 L 075                   | 6                           | 6AF                         | 48                                 | 145,53 | 144,77 | 151    | 32,0 | 7,0 | 123,0  | 60,0   | 25,0 | - | 12     |  |   |
| PDE 60 L 075                   | 7                           | 6A                          | 60                                 | 181,91 | 181,15 | -      | 35,0 | 7,0 | 159,0  | 60,0   | 26,0 | - | 15     |  |   |
| PDE 72 L 075                   | 7                           | 6A                          | 72                                 | 218,30 | 217,54 | -      | 35,0 | 7,0 | 195,0  | 60,0   | 26,0 | - | 15     |  |   |
| PDE 84 L 075                   | 7                           | 6A                          | 84                                 | 254,68 | 253,92 | -      | 35,0 | 7,0 | 228,0  | 60,0   | 26,0 | - | 15     |  |   |



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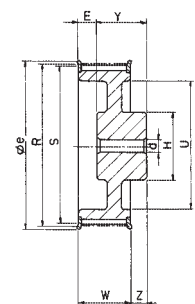


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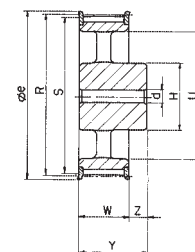
# PDE ... L 100

mm

| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | e<br>Ø | Y    | Z   | U<br>Ø | H<br>Ø | W    | E | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|-----------------------------|------------------------------------|--------|--------|--------|------|-----|--------|--------|------|---|--------|--|---|
| PDE 12 L 100                   | 1                           | 6F                          | 12                                 | 36,38  | 35,62  | 40     | 38,0 | 7,0 | -      | 28,0   | 31,0 | - | 8      | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PDE 13 L 100                   | 1                           | 6F                          | 13                                 | 39,41  | 38,65  | 47     | 38,0 | 7,0 | -      | 30,0   | 31,0 | - | 8      |  |   |
| PDE 14 L 100                   | 1                           | 6F                          | 14                                 | 42,45  | 41,69  | 46     | 38,0 | 7,0 | -      | 33,0   | 31,0 | - | 8      |  |   |
| PDE 15 L 100                   | 1                           | 6F                          | 15                                 | 45,48  | 44,72  | 50     | 38,0 | 7,0 | -      | 36,0   | 31,0 | - | 8      |  |   |
| PDE 16 L 100                   | 1                           | 6F                          | 16                                 | 48,51  | 47,75  | 55     | 38,0 | 7,0 | -      | 38,0   | 31,0 | - | 8      |  |   |
| PDE 17 L 100                   | 1                           | 6F                          | 17                                 | 51,54  | 50,78  | 55     | 38,0 | 7,0 | -      | 40,0   | 31,0 | - | 10     |  |   |
| PDE 18 L 100                   | 1                           | 6F                          | 18                                 | 54,57  | 53,81  | 62     | 38,0 | 7,0 | -      | 40,0   | 31,0 | - | 10     |  |   |
| PDE 19 L 100                   | 1                           | 6F                          | 19                                 | 57,61  | 56,84  | 62     | 38,0 | 7,0 | -      | 40,0   | 31,0 | - | 10     |  |   |
| PDE 20 L 100                   | 1                           | 6F                          | 20                                 | 60,64  | 59,88  | 67     | 38,0 | 7,0 | -      | 46,0   | 31,0 | - | 10     |  |   |
| PDE 21 L 100                   | 1                           | 6F                          | 21                                 | 63,67  | 62,91  | 67     | 38,0 | 7,0 | -      | 46,0   | 31,0 | - | 10     |  |   |
| PDE 22 L 100                   | 1                           | 6F                          | 22                                 | 66,70  | 65,94  | 73     | 38,0 | 7,0 | -      | 50,0   | 31,0 | - | 10     |  |   |
| PDE 24 L 100                   | 1                           | 6F                          | 26                                 | 72,77  | 72,01  | 80     | 38,0 | 7,0 | -      | 50,0   | 31,0 | - | 12     |  |   |
| PDE 26 L 100                   | 1                           | 6F                          | 26                                 | 78,83  | 78,07  | 88     | 38,0 | 7,0 | -      | 50,0   | 31,0 | - | 12     |  |   |
| PDE 28 L 100                   | 1                           | 6F                          | 28                                 | 84,89  | 84,13  | 94     | 38,0 | 7,0 | -      | 50,0   | 31,0 | - | 12     |  |   |
| PDE 30 L 100                   | 1                           | 6F                          | 30                                 | 90,96  | 90,20  | 98     | 38,0 | 7,0 | -      | 50,0   | 31,0 | - | 12     | without flanges<br>sans flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PDE 32 L 100                   | 1                           | 6F                          | 32                                 | 97,02  | 96,26  | 100    | 38,0 | 7,0 | -      | 50,0   | 31,0 | - | 12     |  |   |
| PDE 36 L 100                   | 5                           | 6WCF                        | 36                                 | 109,15 | 108,39 | 113    | 32,0 | 6,0 | 85,0   | 55,0   | 32,0 | 6 | 12     |  |   |
| PDE 40 L 100                   | 5                           | 6WCF                        | 40                                 | 121,28 | 120,52 | 129    | 32,0 | 6,0 | 101,0  | 60,0   | 32,0 | 6 | 12     |  |   |
| PDE 44 L 100                   | 8                           | 10AF                        | 44                                 | 133,40 | 132,64 | 142    | 32,0 | -   | 110,0  | 60,0   | 32,0 | - | 12     |  |   |
| PDE 48 L 100                   | 8                           | 10AF                        | 48                                 | 145,53 | 144,77 | 151    | 32,0 | -   | 123,0  | 60,0   | 32,0 | - | 12     |  |   |
| PDE 60 L 100                   | 7                           | 6A                          | 60                                 | 181,91 | 181,15 | -      | 35,0 | 3,0 | 159,0  | 60,0   | 32,0 | - | 15     |  |   |
| PDE 72 L 100                   | 7                           | 6A                          | 72                                 | 218,30 | 217,54 | -      | 35,0 | 3,0 | 195,0  | 60,0   | 32,0 | - | 15     |  |   |
| PDE 84 L 100                   | 7                           | 6A                          | 84                                 | 254,68 | 253,92 | -      | 35,0 | 3,0 | 228,0  | 60,0   | 32,0 | - | 15     |  |   |



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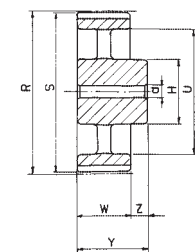


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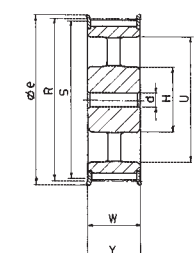
# PDE ... H 100

mm

| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | e<br>Ø | Y    | Z    | U<br>Ø | H<br>Ø | W    | E | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|-----------------------------|------------------------------------|--------|--------|--------|------|------|--------|--------|------|---|--------|--|---|
| PDE 14 H 100                   | 1                           | 6F                          | 14                                 | 56,60  | 55,23  | 62     | 41,0 | 10,0 | -      | 40,0   | 31,0 | - | 10     | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PDE 16 H 100                   | 1                           | 6F                          | 16                                 | 64,68  | 63,31  | 67     | 41,0 | 10,0 | -      | 46,0   | 31,0 | - | 10     |  |   |
| PDE 18 H 100                   | 1                           | 6F                          | 18                                 | 72,77  | 71,40  | 80     | 41,0 | 10,0 | -      | 54,0   | 31,0 | - | 12     |  |   |
| PDE 19 H 100                   | 1                           | 6F                          | 19                                 | 76,81  | 75,44  | 84     | 41,0 | 10,0 | -      | 58,0   | 31,0 | - | 12     |  |   |
| PDE 20 H 100                   | 1                           | 6F                          | 20                                 | 80,85  | 79,48  | 88     | 41,0 | 10,0 | -      | 62,0   | 31,0 | - | 12     |  |   |
| PDE 21 H 100                   | 1                           | 6F                          | 21                                 | 84,89  | 83,52  | 94     | 41,0 | 10,0 | -      | 67,0   | 31,0 | - | 12     |  |   |
| PDE 22 H 100                   | 1                           | 6F                          | 22                                 | 88,94  | 87,57  | 94     | 41,0 | 10,0 | -      | 70,0   | 31,0 | - | 12     |  |   |
| PDE 24 H 100                   | 1                           | 6F                          | 24                                 | 97,02  | 95,65  | 104    | 41,0 | 10,0 | -      | 75,0   | 31,0 | - | 12     |  |   |
| PDE 26 H 100                   | 5                           | 6WCF                        | 26                                 | 105,11 | 103,74 | 108    | 32,0 | 8,0  | 83,0   | 55,0   | 32,0 | 8 | 15     |  |   |
| PDE 28 H 100                   | 5                           | 6WCF                        | 28                                 | 113,19 | 111,92 | 118    | 32,0 | 8,0  | 92,0   | 60,0   | 32,0 | 8 | 15     |  |   |
| PDE 30 H 100                   | 5                           | 6WCF                        | 30                                 | 121,28 | 119,91 | 129    | 32,0 | 8,0  | 101,0  | 60,0   | 32,0 | 8 | 15     |  |   |
| PDE 32 H 100                   | 3                           | 6WF                         | 32                                 | 129,36 | 127,99 | 137    | 40,0 | 8,0  | 109,0  | 70,0   | 32,0 | - | 20     |  |   |
| PDE 36 H 100                   | 3                           | 6WF                         | 36                                 | 145,53 | 144,16 | 151    | 40,0 | 8,0  | 123,0  | 80,0   | 32,0 | - | 20     |  |   |
| PDE 40 H 100                   | 6                           | 6AF                         | 40                                 | 161,70 | 160,33 | 168    | 40,0 | 8,0  | 140,0  | 80,0   | 32,0 | - | 20     |  |   |
| PDE 44 H 100                   | 6                           | 6AF                         | 44                                 | 177,87 | 176,50 | 191    | 40,0 | 8,0  | 149,0  | 80,0   | 32,0 | - | 20     |  |   |
| PDE 48 H 100                   | 6                           | 6AF                         | 48                                 | 194,04 | 192,67 | 199    | 40,0 | 8,0  | 169,0  | 80,0   | 32,0 | - | 20     | without flanges<br>sans flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PDE 60 H 100                   | 7                           | 6A                          | 60                                 | 242,55 | 241,18 | -      | 45,0 | 11,0 | 215,0  | 80,0   | 32,0 | - | 20     |  |   |
| PDE 72 H 100                   | 7                           | 6A                          | 72                                 | 291,06 | 289,69 | -      | 45,0 | 11,0 | 262,0  | 80,0   | 34,0 | - | 20     |  |   |
| PDE 84 H 100                   | 7                           | 6A                          | 84                                 | 339,57 | 338,20 | -      | 45,0 | 11,0 | 312,0  | 80,0   | 34,0 | - | 20     |  |   |
| PDE 96 H 100                   | 7                           | 6A                          | 96                                 | 388,08 | 386,71 | -      | 45,0 | 11,0 | 359,0  | 80,0   | 34,0 | - | 20     |  |   |
| PDE 120 H 100                  | 7                           | 6A                          | 120                                | 485,10 | 483,73 | -      | 50,0 | 16,0 | 455,0  | 90,0   | 34,0 | - | 20     |  |   |



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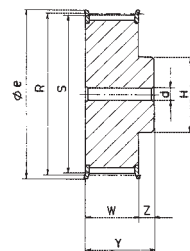


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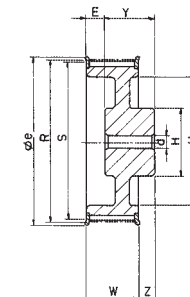


# PDE ... H 150

| code<br>Code<br>código | type<br>type<br>Typo | type<br>type<br>Typo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | e<br>Ø | Y    | Z    | U<br>Ø | H<br>Ø | W    | E  | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|------------------------|----------------------|----------------------|------------------------------------|--------|--------|--------|------|------|--------|--------|------|----|--------|--|---|
| PDE 14 H 150           | 1                    | 6F                   | 14                                 | 56,60  | 55,23  | 62     | 54,0 | 10,0 | -      | 40,0   | 44,0 | -  | 12     | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PDE 16 H 150           | 1                    | 6F                   | 16                                 | 64,68  | 63,31  | 67     | 54,0 | 10,0 | -      | 46,0   | 44,0 | -  | 12     |  |   |
| PDE 18 H 150           | 1                    | 6F                   | 18                                 | 72,77  | 71,40  | 80     | 54,0 | 10,0 | -      | 54,0   | 44,0 | -  | 12     |  |   |
| PDE 19 H 150           | 1                    | 6F                   | 19                                 | 76,81  | 75,44  | 84     | 54,0 | 10,0 | -      | 58,0   | 44,0 | -  | 12     |  |   |
| PDE 20 H 150           | 1                    | 6F                   | 20                                 | 80,85  | 79,48  | 88     | 54,0 | 10,0 | -      | 62,0   | 44,0 | -  | 12     |  |   |
| PDE 21 H 150           | 1                    | 6F                   | 21                                 | 84,89  | 83,52  | 94     | 54,0 | 10,0 | -      | 67,0   | 44,0 | -  | 12     | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PDE 22 H 150           | 1                    | 6F                   | 22                                 | 88,94  | 87,57  | 94     | 54,0 | 10,0 | -      | 70,0   | 44,0 | -  | 12     |  |   |
| PDE 24 H 150           | 1                    | 6F                   | 24                                 | 97,02  | 95,65  | 104    | 54,0 | 10,0 | -      | 75,0   | 44,0 | -  | 12     |  |   |
| PDE 26 H 150           | 5                    | 6WCF                 | 26                                 | 105,11 | 103,74 | 108    | 35,0 | 8,0  | 83,0   | 55,0   | 45,0 | 18 | 15     |  |   |
| PDE 28 H 150           | 5                    | 6WCF                 | 28                                 | 113,19 | 111,92 | 118    | 35,0 | 8,0  | 92,0   | 60,0   | 45,0 | 18 | 15     |  |   |
| PDE 30 H 150           | 5                    | 6WCF                 | 30                                 | 121,28 | 119,91 | 129    | 35,0 | 8,0  | 101,0  | 60,0   | 45,0 | 18 | 15     | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PDE 32 H 150           | 5                    | 6WF                  | 32                                 | 129,36 | 127,99 | 137    | 45,0 | 8,0  | 109,0  | 70,0   | 45,0 | 8  | 20     |  |   |
| PDE 36 H 150           | 5                    | 6WF                  | 36                                 | 145,53 | 144,16 | 151    | 45,0 | 8,0  | 123,0  | 80,0   | 45,0 | 8  | 20     |  |   |
| PDE 40 H 150           | 8                    | 10AF                 | 40                                 | 161,70 | 160,33 | 168    | 45,0 | -    | 140,0  | 80,0   | 45,0 | -  | 20     |  |   |
| PDE 44 H 150           | 8                    | 10AF                 | 44                                 | 177,87 | 176,50 | 191    | 45,0 | -    | 149,0  | 80,0   | 45,0 | -  | 20     |  |   |
| PDE 48 H 150           | 8                    | 10AF                 | 48                                 | 194,04 | 192,67 | 199    | 45,0 | -    | 169,0  | 80,0   | 45,0 | -  | 20     | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PDE 60 H 150           | 9                    | 10A                  | 60                                 | 242,55 | 241,18 | -      | 46,0 | -    | 215,0  | 85,0   | 46,0 | -  | 20     |  |   |
| PDE 72 H 150           | 9                    | 10A                  | 72                                 | 291,06 | 289,69 | -      | 46,0 | -    | 262,0  | 85,0   | 46,0 | -  | 20     |  |   |
| PDE 84 H 150           | 9                    | 10A                  | 84                                 | 339,57 | 338,20 | -      | 46,0 | -    | 312,0  | 85,0   | 46,0 | -  | 20     |  |   |
| PDE 96 H 150           | 9                    | 10A                  | 96                                 | 388,08 | 386,71 | -      | 46,0 | -    | 359,0  | 85,0   | 46,0 | -  | 20     |  |   |
| PDE 120 H 150          | 7                    | 6A                   | 120                                | 485,10 | 483,73 | -      | 55,0 | 9,0  | 455,0  | 95,0   | 46,0 | -  | 24     |  |   |



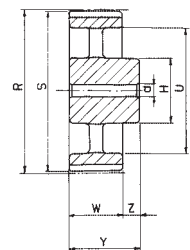
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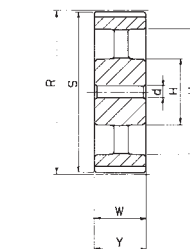
5

# PDE ... H 200

| code<br>Code<br>código | type<br>type<br>Typo | type<br>type<br>Typo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | e<br>Ø | Y    | Z    | U<br>Ø | H<br>Ø | W    | E  | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|------------------------|----------------------|----------------------|------------------------------------|--------|--------|--------|------|------|--------|--------|------|----|--------|--|---|
| PDE 14 H 200           | 1                    | 6F                   | 14                                 | 56,60  | 55,23  | 62     | 68,0 | 10,0 | -      | 40,0   | 58,0 | -  | 12     | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PDE 16 H 200           | 1                    | 6F                   | 16                                 | 64,68  | 63,31  | 67     | 68,0 | 10,0 | -      | 46,0   | 58,0 | -  | 15     |  |   |
| PDE 18 H 200           | 1                    | 6F                   | 18                                 | 72,77  | 71,40  | 80     | 68,0 | 10,0 | -      | 54,0   | 58,0 | -  | 15     |  |   |
| PDE 19 H 200           | 1                    | 6F                   | 19                                 | 76,81  | 75,44  | 84     | 68,0 | 10,0 | -      | 58,0   | 58,0 | -  | 15     |  |   |
| PDE 20 H 200           | 1                    | 6F                   | 20                                 | 80,85  | 79,48  | 88     | 68,0 | 10,0 | -      | 62,0   | 58,0 | -  | 15     |  |   |
| PDE 21 H 200           | 1                    | 6F                   | 21                                 | 84,89  | 83,52  | 94     | 68,0 | 10,0 | -      | 67,0   | 58,0 | -  | 15     | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PDE 22 H 200           | 1                    | 6F                   | 22                                 | 88,94  | 87,57  | 94     | 68,0 | 10,0 | -      | 70,0   | 58,0 | -  | 15     |  |   |
| PDE 24 H 200           | 1                    | 6F                   | 24                                 | 97,02  | 95,65  | 104    | 68,0 | 10,0 | -      | 75,0   | 58,0 | -  | 15     |  |   |
| PDE 26 H 200           | 5                    | 6WCF                 | 26                                 | 105,11 | 103,74 | 108    | 42,0 | 8,0  | 83,0   | 60,0   | 58,0 | 24 | 15     |  |   |
| PDE 28 H 200           | 5                    | 6WCF                 | 28                                 | 113,19 | 111,92 | 118    | 42,0 | 8,0  | 92,0   | 60,0   | 58,0 | 24 | 15     |  |   |
| PDE 30 H 200           | 5                    | 6WCF                 | 30                                 | 121,28 | 119,91 | 129    | 42,0 | 8,0  | 101,0  | 70,0   | 58,0 | 24 | 15     | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PDE 32 H 200           | 5                    | 6WCF                 | 32                                 | 129,36 | 127,99 | 137    | 47,0 | 8,0  | 109,0  | 70,0   | 58,0 | 19 | 20     |  |   |
| PDE 36 H 200           | 5                    | 6WCF                 | 36                                 | 145,53 | 144,16 | 151    | 47,0 | 8,0  | 123,0  | 80,0   | 58,0 | 19 | 20     |  |   |
| PDE 40 H 200           | 10                   | 11AF                 | 40                                 | 161,70 | 160,33 | 168    | 45,0 | 13,0 | 139,0  | 80,0   | 58,0 | -  | 20     |  |   |
| PDE 44 H 200           | 10                   | 11AF                 | 44                                 | 177,87 | 176,50 | 191    | 45,0 | 13,0 | 149,0  | 80,0   | 58,0 | -  | 20     |  |   |
| PDE 48 H 200           | 10                   | 11AF                 | 48                                 | 194,04 | 192,67 | 199    | 45,0 | 13,0 | 169,0  | 85,0   | 58,0 | -  | 20     | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PDE 60 H 200           | 11                   | 11A                  | 60                                 | 242,55 | 241,18 | -      | 50,0 | 10,0 | 215,0  | 90,0   | 60,0 | -  | 20     |  |   |
| PDE 72 H 200           | 11                   | 11A                  | 72                                 | 291,06 | 289,69 | -      | 50,0 | 10,0 | 262,0  | 90,0   | 60,0 | -  | 20     |  |   |
| PDE 84 H 200           | 11                   | 11A                  | 84                                 | 339,57 | 338,20 | -      | 50,0 | 10,0 | 312,0  | 90,0   | 60,0 | -  | 20     |  |   |
| PDE 96 H 200           | 11                   | 11A                  | 96                                 | 388,08 | 386,71 | -      | 50,0 | 10,0 | 359,0  | 90,0   | 60,0 | -  | 20     |  |   |
| PDE 120 H 200          | 9                    | 10A                  | 120                                | 485,10 | 483,73 | -      | 60,0 | 0,0  | 455,0  | 100,0  | 60,0 | -  | 24     |  |   |



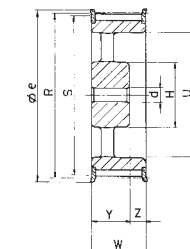
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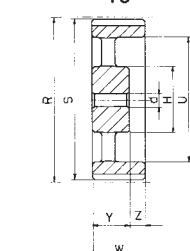
9

# PDE ... H 300

| code<br>Code<br>código | type<br>type<br>Typo | type<br>type<br>Typo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | e<br>Ø | Y    | Z    | U<br>Ø | H<br>Ø | W    | E  | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|------------------------|----------------------|----------------------|------------------------------------|--------|--------|--------|------|------|--------|--------|------|----|--------|--|---|
| PDE 16 H 300           | 1                    | 6F                   | 16                                 | 64,68  | 63,31  | 67     | 94,0 | 10,0 | -      | 46,0   | 84,0 | -  | 15     | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PDE 18 H 300           | 1                    | 6F                   | 18                                 | 72,77  | 71,40  | 80     | 94,0 | 10,0 | -      | 54,0   | 84,0 | -  | 15     |  |   |
| PDE 19 H 300           | 1                    | 6F                   | 19                                 | 76,81  | 75,44  | 84     | 94,0 | 10,0 | -      | 58,0   | 84,0 | -  | 15     |  |   |
| PDE 20 H 300           | 1                    | 6F                   | 20                                 | 80,85  | 79,48  | 88     | 94,0 | 10,0 | -      | 62,0   | 84,0 | -  | 15     |  |   |
| PDE 21 H 300           | 1                    | 6F                   | 21                                 | 84,89  | 83,52  | 94     | 94,0 | 10,0 | -      | 67,0   | 84,0 | -  | 15     |  |   |
| PDE 22 H 300           | 1                    | 6F                   | 22                                 | 88,94  | 87,57  | 94     | 94,0 | 10,0 | -      | 70,0   | 84,0 | -  | 15     | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PDE 24 H 300           | 1                    | 6F                   | 24                                 | 97,02  | 95,65  | 104    | 94,0 | 10,0 | -      | 75,0   | 84,0 | -  | 15     |  |   |
| PDE 26 H 300           | 5                    | 6WCF                 | 26                                 | 105,11 | 103,74 | 108    | 57,0 | 8,0  | 83,0   | 60,0   | 84,0 | 35 | 15     |  |   |
| PDE 28 H 300           | 5                    | 6WCF                 | 28                                 | 113,19 | 111,92 | 118    | 57,0 | 8,0  | 92,0   | 60,0   | 84,0 | 35 | 15     |  |   |
| PDE 30 H 300           | 5                    | 6WCF                 | 30                                 | 121,28 | 119,91 | 129    | 57,0 | 8,0  | 101,0  | 70,0   | 84,0 | 35 | 15     |  |   |
| PDE 32 H 300           | 5                    | 6WCF                 | 32                                 | 129,36 | 127,99 | 137    | 57,0 | 8,0  | 109,0  | 70,0   | 84,0 | 35 | 20     | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| PDE 36 H 300           | 5                    | 6WCF                 | 36                                 | 145,53 | 144,16 | 151    | 57,0 | 8,0  | 123,0  | 80,0   | 84,0 | 35 | 20     |  |   |
| PDE 40 H 300           | 10                   | 11AF                 | 40                                 | 161,70 | 160,33 | 168    | 55,0 | 29,0 | 139,0  | 80,0   | 84,0 | -  | 20     |  |   |
| PDE 44 H 300           | 10                   | 11AF                 | 44                                 | 177,87 | 176,50 | 191    | 55,0 | 29,0 | 149,0  | 80,0   | 84,0 | -  | 20     |  |   |
| PDE 48 H 300           | 10                   | 11AF                 | 48                                 | 194,04 | 192,67 | 199    | 55,0 | 29,0 | 169,0  | 85,0   | 84,0 | -  | 20     |  |   |
| PDE 60 H 300           | 11                   | 11A                  | 60                                 | 242,55 | 241,18 | -      | 55,0 | 31,0 | 215,0  | 90,0   | 86,0 | -  | 20     | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PDE 72 H 300           | 11                   | 11A                  | 72                                 | 291,06 | 289,69 | -      | 55,0 | 31,0 | 262,0  | 90,0   | 86,0 | -  | 20     |  |   |
| PDE 84 H 300           | 11                   | 11A                  | 84                                 | 339,57 | 338,20 | -      | 55,0 | 31,0 | 312,0  | 90,0   | 86,0 | -  | 20     |  |   |
| PDE 96 H 300           | 11                   | 11A                  | 96                                 | 388,08 | 386,71 | -      | 55,0 | 31,0 | 359,0  | 90,0   | 86,0 | -  | 20     |  |   |
| PDE 120 H 300          | 11                   | 11A                  | 120                                | 485,10 | 483,73 | -      | 65,0 | 21,0 | 455,0  | 100,0  | 86,0 | -  | 24     |  |   |



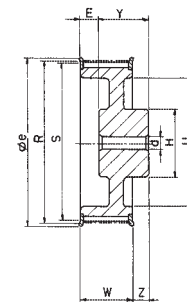
10



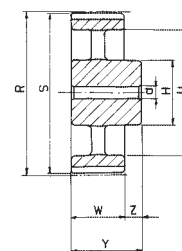
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# PDE ... XH 200 (\*)

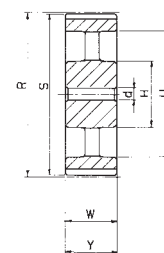
| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | e<br>Ø | Y    | Z    | U<br>Ø | H<br>Ø | W    | E  | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>Werkstoff<br>material           |
|--------------------------------|-----------------------------|-----------------------------|------------------------------------|--------|--------|--------|------|------|--------|--------|------|----|--------|--|---|
| PDE 18 XH 200                  | 12                          | 6CF                         | 18                                 | 127,34 | 124,55 | 134    | 62,0 | 18,0 | -      | 85,0   | 62,0 | 18 | 20     | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición |
| PDE 20 XH 200                  | 12                          | 6CF                         | 20                                 | 141,49 | 138,70 | 150    | 62,0 | 18,0 | -      | 95,0   | 62,0 | 18 | 20     |  |   |
| PDE 22 XH 200                  | 12                          | 6CF                         | 22                                 | 155,64 | 152,85 | 166    | 62,0 | 18,0 | -      | 110,0  | 62,0 | 18 | 20     |  |   |
| PDE 24 XH 200                  | 12                          | 6CF                         | 24                                 | 169,79 | 167,00 | 177    | 62,0 | 18,0 | -      | 125,0  | 62,0 | 18 | 25     |  |   |
| PDE 26 XH 200                  | 12                          | 6CF                         | 26                                 | 183,94 | 181,15 | 191    | 62,0 | 18,0 | -      | 140,0  | 62,0 | 18 | 25     |  |   |
| PDE 28 XH 200                  | 5                           | 6WCF                        | 28                                 | 198,08 | 195,29 | 199    | 62,0 | 18,0 | 156,0  | 120,0  | 62,0 | 18 | 25     | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| PDE 30 XH 200                  | 5                           | 6WCF                        | 30                                 | 212,23 | 209,44 | 216    | 62,0 | 18,0 | 170,0  | 120,0  | 62,0 | 18 | 25     |  |   |
| PDE 32 XH 200                  | 5                           | 6WCF                        | 32                                 | 226,38 | 223,59 | 232    | 62,0 | 18,0 | 184,0  | 130,0  | 62,0 | 18 | 25     |  |   |
| PDE 40 XH 200                  | 5                           | 6WCF                        | 40                                 | 282,98 | 280,19 | 288    | 62,0 | 18,0 | 240,0  | 140,0  | 62,0 | 18 | 25     |  |   |
| PDE 48 XH 200                  | 7                           | 6A                          | 48                                 | 339,57 | 336,78 | -      | 80,0 | 15,0 | 297,0  | 150,0  | 65,0 | -  | 30     |  |   |
| PDE 60 XH 200                  | 7                           | 6A                          | 60                                 | 424,47 | 421,68 | -      | 80,0 | 15,0 | 382,0  | 150,0  | 65,0 | -  | 30     |  |   |
| PDE 72 XH 200                  | 7                           | 6A                          | 72                                 | 509,36 | 506,57 | -      | 80,0 | 15,0 | 467,0  | 150,0  | 65,0 | -  | 40     |  |   |
| PDE 84 XH 200                  | 7                           | 6A                          | 84                                 | 594,25 | 591,46 | -      | 80,0 | 15,0 | 552,0  | 160,0  | 65,0 | -  | 40     |  |   |
| PDE 96 XH 200                  | 7                           | 6A                          | 96                                 | 679,14 | 676,35 | -      | 80,0 | 15,0 | 635,0  | 160,0  | 65,0 | -  | 40     |  |   |
| PDE 120 XH 200                 | 7                           | 6A                          | 120                                | 848,93 | 846,14 | -      | 80,0 | 15,0 | 805,0  | 160,0  | 65,0 | -  | 40     |  |   |



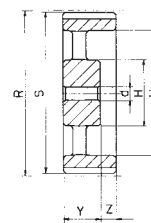
5



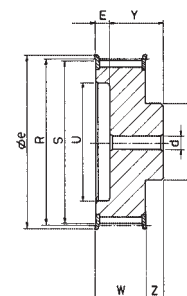
7



9



11



12

# PDE ... XH 300 (\*)

| code<br>code<br>Code<br>código | type<br>type<br>Typ<br>tipo | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | e<br>Ø | Y    | Z    | U<br>Ø | H<br>Ø | W    | E  | d<br>Ø | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|-----------------------------|-----------------------------|------------------------------------|--------|--------|--------|------|------|--------|--------|------|----|--------|--|---|
| PDE 18 XH 300                  | 12                          | 6CF                         | 18                                 | 127,34 | 124,55 | 134    | 70,0 | 16,0 | -      | 85,0   | 89,0 | 35 | 20     | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición   |
| PDE 20 XH 300                  | 12                          | 6CF                         | 20                                 | 141,49 | 138,70 | 150    | 70,0 | 16,0 | -      | 95,0   | 89,0 | 35 | 20     |  |   |
| PDE 22 XH 300                  | 12                          | 6CF                         | 22                                 | 155,64 | 152,85 | 166    | 70,0 | 16,0 | -      | 110,0  | 89,0 | 35 | 20     |  |   |
| PDE 24 XH 300                  | 12                          | 6CF                         | 24                                 | 169,79 | 167,00 | 177    | 70,0 | 16,0 | -      | 125,0  | 89,0 | 35 | 25     |  |   |
| PDE 26 XH 300                  | 12                          | 6CF                         | 26                                 | 183,94 | 181,15 | 191    | 70,0 | 16,0 | -      | 140,0  | 89,0 | 35 | 25     |  |   |
| PDE 28 XH 300                  | 5                           | 6WCF                        | 28                                 | 198,08 | 195,29 | 199    | 70,0 | 16,0 | 156,0  | 120,0  | 89,0 | 35 | 25     | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| PDE 30 XH 300                  | 5                           | 6WCF                        | 30                                 | 212,23 | 209,44 | 216    | 70,0 | 16,0 | 170,0  | 120,0  | 89,0 | 35 | 25     |  |   |
| PDE 32 XH 300                  | 5                           | 6WCF                        | 32                                 | 226,38 | 223,59 | 232    | 70,0 | 16,0 | 184,0  | 130,0  | 89,0 | 35 | 25     |  |   |
| PDE 40 XH 300                  | 5                           | 6WCF                        | 40                                 | 282,98 | 280,19 | 288    | 70,0 | 16,0 | 240,0  | 140,0  | 92,0 | 35 | 25     |  |   |
| PDE 48 XH 300                  | 9                           | 10A                         | 48                                 | 339,57 | 336,78 | -      | 92,0 | -    | 297,0  | 150,0  | 92,0 | -  | 30     |  |   |
| PDE 60 XH 300                  | 9                           | 10A                         | 60                                 | 424,47 | 421,68 | -      | 92,0 | -    | 382,0  | 150,0  | 92,0 | -  | 30     |  |   |
| PDE 72 XH 300                  | 9                           | 10A                         | 72                                 | 509,36 | 506,57 | -      | 92,0 | -    | 467,0  | 150,0  | 92,0 | -  | 40     |  |   |
| PDE 84 XH 300                  | 9                           | 10A                         | 84                                 | 594,25 | 591,46 | -      | 92,0 | -    | 552,0  | 160,0  | 92,0 | -  | 40     |  |   |
| PDE 96 XH 300                  | 9                           | 10A                         | 96                                 | 679,14 | 676,35 | -      | 92,0 | -    | 635,0  | 160,0  | 92,0 | -  | 40     |  |   |
| PDE 120 XH 300                 | 9                           | 10A                         | 120                                | 848,93 | 846,14 | -      | 92,0 | -    | 805,0  | 160,0  | 92,0 | -  | 40     |  |   |

# PDE ... XH 400 (\*)

| code<br>code<br>Code<br>código |  |    | type<br>type<br>Typ<br>tipo | type<br>type<br>Typ<br>tipo | teeth<br>dents<br>Zähne<br>dientes | R<br>Ø | S<br>Ø | e<br>Ø | Y    | Z     | U<br>Ø | H<br>Ø | W  | E  | d<br>Ø   | flange<br>flasque<br>Bord<br>valona         | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|--|----|-----------------------------|-----------------------------|------------------------------------|--------|--------|--------|------|-------|--------|--------|----|----|--|---|---|
| PDE 18 XH 400                  |  | 12 | 6CF                         | 18                          | 127,34                             | 124,55 | 134    | 85,0   | 16,0 | -     | 85,0   | 116,0  | 47 | 20 | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron<br>fonte<br>Grauguss<br>fundición |   |
| PDE 20 XH 400                  |  | 12 | 6CF                         | 20                          | 141,49                             | 138,70 | 150    | 85,0   | 16,0 | -     | 95,0   | 116,0  | 47 | 20 |  |   |   |
| PDE 22 XH 400                  |  | 12 | 6CF                         | 22                          | 155,64                             | 152,85 | 166    | 85,0   | 16,0 | -     | 110,0  | 116,0  | 47 | 20 |  |   |   |
| PDE 24 XH 400                  |  | 12 | 6CF                         | 24                          | 169,79                             | 167,00 | 177    | 85,0   | 16,0 | -     | 125,0  | 116,0  | 47 | 25 |  |   |   |
| PDE 26 XH 400                  |  | 12 | 6CF                         | 26                          | 183,94                             | 181,15 | 191    | 85,0   | 16,0 | -     | 140,0  | 116,0  | 47 | 25 |  |   |   |
| PDE 28 XH 400                  |  | 5  | 6WCF                        | 28                          | 198,08                             | 195,29 | 199    | 85,0   | 16,0 | 156,0 | 120,0  | 116,0  | 47 | 25 |  |   |   |
| PDE 30 XH 400                  |  | 5  | 6WCF                        | 30                          | 212,23                             | 209,44 | 216    | 85,0   | 16,0 | 170,0 | 120,0  | 116,0  | 47 | 25 |  |   |   |
| PDE 32 XH 400                  |  | 5  | 6WCF                        | 32                          | 226,38                             | 223,59 | 232    | 85,0   | 16,0 | 184,0 | 130,0  | 116,0  | 47 | 25 |  |   |   |
| PDE 40 XH 400                  |  | 5  | 6WCF                        | 40                          | 282,98                             | 280,19 | 288    | 85,0   | 16,0 | 240,0 | 140,0  | 116,0  | 47 | 25 |  |   |   |
| PDE 48 XH 400                  |  | 11 | 11A                         | 48                          | 339,57                             | 336,78 | -      | 92,0   | 27,0 | 297,0 | 150,0  | 119,0  | -  | 30 |  |   |   |
| PDE 60 XH 400                  |  | 11 | 11A                         | 60                          | 424,47                             | 421,68 | -      | 92,0   | 27,0 | 382,0 | 150,0  | 119,0  | -  | 30 | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |   |
| PDE 72 XH 400                  |  | 11 | 11A                         | 72                          | 509,36                             | 506,57 | -      | 92,0   | 27,0 | 467,0 | 150,0  | 119,0  | -  | 40 |  |   |   |
| PDE 84 XH 400                  |  | 11 | 11A                         | 84                          | 594,25                             | 591,46 | -      | 92,0   | 27,0 | 552,0 | 160,0  | 119,0  | -  | 40 |  |   |   |
| PDE 96 XH 400                  |  | 11 | 11A                         | 96                          | 679,14                             | 676,35 | -      | 92,0   | 27,0 | 635,0 | 160,0  | 119,0  | -  | 40 |  |   |   |
| PDE 120 XH 400                 |  | 11 | 11A                         | 120                         | 848,93                             | 846,14 | -      | 92,0   | 27,0 | 805,0 | 160,0  | 119,0  | -  | 40 |  |   |   |

(\*) Non stock pulleys. Stock pulleys XH pitch are shown at pages 22-23  
Poulies pas en stock. Pour poulies en stock pas XH voir pages 22-23  
Keine lager Scheiben, Lager Scheiben in Teilung XH erfolgen auf Seite 22-23  
No stock pleas. Poleas de stock paso XH, ver paginas 22-23.

# STANDARD «SUPER TORQUE» TIMING PULLEYS

## POULIES DENTEES «SUPER TORQUE» DE SERIE

### STANDARD-ZAHNSCHEIBEN «SUPER TORQUE»

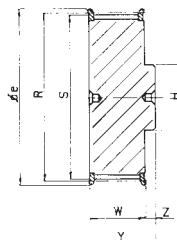
### POLEAS DENTADAS «SUPER TORQUE» DE SERIE

Pitch - Pas  
Teilung - Paso

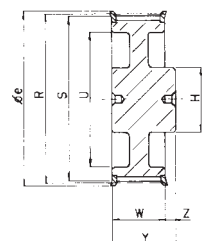
**8 mm**

#### S 8 M-20

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 18 S 8 M 20                    | 18                                 | 1                           | 45,84   | 44,46   | 50       | -       | 28      | 32      | 38      | 10      | -        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| 20 S 8 M 20                    | 20                                 | 1                           | 50,93   | 49,56   | 55       | -       | 28      | 36      | 38      | 10      | -        |  |   |
| 22 S 8 M 20                    | 22                                 | 1                           | 56,02   | 54,65   | 62       | -       | 28      | 43      | 38      | 10      | -        |  |   |
| 24 S 8 M 20                    | 24                                 | 1                           | 61,12   | 59,74   | 67       | -       | 28      | 49      | 38      | 10      | -        |  |   |
| 26 S 8 M 20                    | 26                                 | 1                           | 66,21   | 64,84   | 73       | -       | 28      | 50      | 38      | 10      | -        |  |   |
| 28 S 8 M 20                    | 28                                 | 1                           | 71,30   | 69,93   | 77       | -       | 28      | 55      | 38      | 10      | -        |  |   |
| 30 S 8 M 20                    | 30                                 | 1                           | 76,39   | 75,02   | 84       | -       | 28      | 60      | 38      | 10      | -        |  |   |
| 32 S 8 M 20                    | 32                                 | 1                           | 81,49   | 80,12   | 88       | -       | 28      | 64      | 38      | 10      | -        |  |   |
| 34 S 8 M 20                    | 34                                 | 1                           | 86,58   | 85,21   | 94       | -       | 28      | 70      | 38      | 10      | -        |  |   |
| 36 S 8 M 20                    | 36                                 | 1                           | 91,67   | 90,30   | 98       | -       | 28      | 75      | 38      | 10      | -        |  |   |
| 38 S 8 M 20                    | 38                                 | 1                           | 96,77   | 95,39   | 104      | -       | 28      | 80      | 38      | 10      | -        |  |   |
| 40 S 8 M 20                    | 40                                 | 1                           | 101,86  | 100,49  | 108      | -       | 28      | 85      | 38      | 10      | -        |  |   |
| 44 S 8 M 20                    | 44                                 | 1                           | 112,05  | 110,67  | 121      | -       | 28      | 96      | 38      | 10      | -        |  |   |
| 48 S 8 M 20                    | 48                                 | 1                           | 122,23  | 120,86  | 129      | -       | 28      | 104     | 38      | 10      | -        |  |   |
| 56 S 8 M 20                    | 56                                 | 2                           | 142,60  | 141,23  | 149      | 117     | 28      | 80      | 38      | 10      | -        | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| 60 S 8 M 20                    | 60                                 | 2                           | 152,79  | 151,42  | 158      | 127     | 28      | 80      | 38      | 10      | -        |  |   |
| 64 S 8 M 20                    | 64                                 | 2                           | 162,97  | 161,60  | 168      | 137     | 28      | 80      | 38      | 10      | -        |  |   |
| 72 S 8 M 20                    | 72                                 | 2                           | 183,35  | 181,97  | 191      | 158     | 28      | 80      | 38      | 10      | -        |  |   |
| 80 S 8 M 20                    | 80                                 | 6                           | 203,72  | 202,35  | -        | 179     | 28      | 90      | 38      | 10      | -        |  |   |
| 84 S 8 M 20                    | 84                                 | 6                           | 213,90  | 212,53  | -        | 190     | 28      | 90      | 38      | 10      | -        |  |   |
| 90 S 8 M 20                    | 90                                 | 6                           | 229,18  | 227,81  | -        | 204     | 28      | 90      | 38      | 10      | -        |  |   |
| 112 S 8 M 20                   | 112                                | 5                           | 285,21  | 283,83  | -        | 260     | 28      | 90      | 38      | 10      | 19       |  |   |
| 144 S 8 M 20                   | 144                                | 5                           | 366,69  | 365,32  | -        | 342     | 28      | 90      | 38      | 10      | 19       |  |   |
| 168 S 8 M 20                   | 168                                | 5                           | 427,80  | 426,42  | -        | 403     | 28      | 100     | 38      | 10      | 19       |  |   |
| 192 S 8 M 20                   | 192                                | 5                           | 488,92  | 487,54  | -        | 465     | 28      | 100     | 38      | 10      | 19       |  |   |



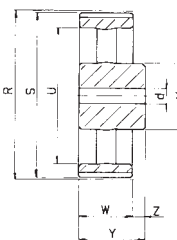
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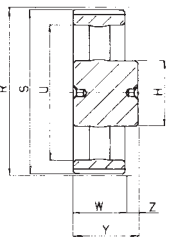
2

#### S 8 M-30

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 18 S 8 M 30                    | 18                                 | 1                           | 45,84   | 44,46   | 50       | -       | 38      | 32      | 48      | 10      | -        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| 20 S 8 M 30                    | 20                                 | 1                           | 50,93   | 49,56   | 55       | -       | 38      | 36      | 48      | 10      | -        |  |   |
| 22 S 8 M 30                    | 22                                 | 1                           | 56,02   | 54,65   | 62       | -       | 38      | 43      | 48      | 10      | -        |  |   |
| 24 S 8 M 30                    | 24                                 | 1                           | 61,12   | 59,74   | 67       | -       | 38      | 49      | 48      | 10      | -        |  |   |
| 26 S 8 M 30                    | 26                                 | 1                           | 66,21   | 64,84   | 73       | -       | 38      | 50      | 48      | 10      | -        |  |   |
| 28 S 8 M 30                    | 28                                 | 1                           | 71,30   | 69,93   | 77       | -       | 38      | 55      | 48      | 10      | -        |  |   |
| 30 S 8 M 30                    | 30                                 | 1                           | 76,39   | 75,02   | 84       | -       | 38      | 60      | 48      | 10      | -        |  |   |
| 32 S 8 M 30                    | 32                                 | 1                           | 81,49   | 80,12   | 88       | -       | 38      | 64      | 48      | 10      | -        |  |   |
| 34 S 8 M 30                    | 34                                 | 1                           | 86,58   | 85,21   | 94       | -       | 38      | 70      | 48      | 10      | -        |  |   |
| 36 S 8 M 30                    | 36                                 | 1                           | 91,67   | 90,30   | 98       | -       | 38      | 75      | 48      | 10      | -        |  |   |
| 38 S 8 M 30                    | 38                                 | 1                           | 96,77   | 95,39   | 104      | -       | 38      | 80      | 48      | 10      | -        |  |   |
| 40 S 8 M 30                    | 40                                 | 1                           | 101,86  | 100,49  | 108      | -       | 38      | 85      | 48      | 10      | -        |  |   |
| 44 S 8 M 30                    | 44                                 | 1                           | 112,05  | 110,67  | 121      | -       | 38      | 96      | 48      | 10      | -        |  |   |
| 48 S 8 M 30                    | 48                                 | 1                           | 122,23  | 120,86  | 129      | -       | 38      | 104     | 48      | 10      | -        |  |   |
| 56 S 8 M 30                    | 56                                 | 2                           | 142,60  | 141,23  | 149      | 117     | 38      | 90      | 48      | 10      | -        | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| 60 S 8 M 30                    | 60                                 | 2                           | 152,79  | 151,42  | 158      | 127     | 38      | 90      | 48      | 10      | -        |  |   |
| 64 S 8 M 30                    | 64                                 | 2                           | 162,97  | 161,60  | 168      | 137     | 38      | 90      | 48      | 10      | -        |  |   |
| 72 S 8 M 30                    | 72                                 | 2                           | 183,35  | 181,97  | 191      | 158     | 38      | 95      | 48      | 10      | -        |  |   |
| 80 S 8 M 30                    | 80                                 | 6                           | 203,72  | 202,35  | -        | 179     | 38      | 100     | 48      | 10      | -        |  |   |
| 84 S 8 M 30                    | 84                                 | 6                           | 213,90  | 212,53  | -        | 190     | 38      | 100     | 48      | 10      | -        |  |   |
| 90 S 8 M 30                    | 90                                 | 6                           | 229,18  | 227,81  | -        | 204     | 38      | 100     | 48      | 10      | -        |  |   |
| 112 S 8 M 30                   | 112                                | 5                           | 285,21  | 283,83  | -        | 260     | 38      | 100     | 48      | 10      | 19       |  |   |
| 144 S 8 M 30                   | 144                                | 5                           | 366,69  | 365,32  | -        | 342     | 38      | 100     | 48      | 10      | 19       |  |   |
| 168 S 8 M 30                   | 168                                | 5                           | 427,80  | 426,42  | -        | 403     | 38      | 100     | 48      | 10      | 19       |  |   |
| 192 S 8 M 30                   | 192                                | 5                           | 488,92  | 487,54  | -        | 465     | 38      | 100     | 48      | 10      | 19       |  |   |



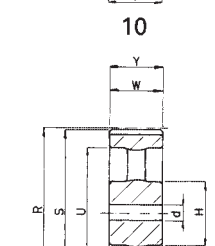
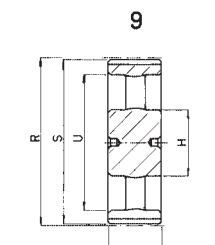
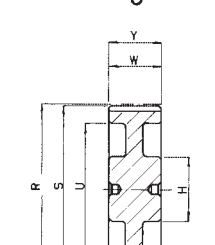
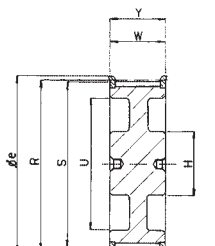
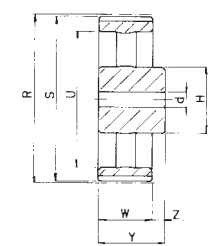
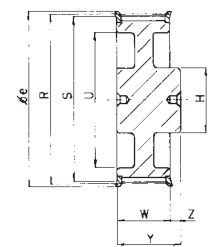
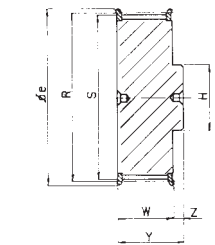
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6

## S 8 M-50

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Stahl<br>material   |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 18 S 8 M 50                    | 18                                 | 1                           | 45,84   | 44,46   | 50       | -       | 60      | 32      | 70      | 10      | -        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero            |
| 20 S 8 M 50                    | 20                                 | 1                           | 50,93   | 49,56   | 55       | -       | 60      | 36      | 70      | 10      | -        |  |   |
| 22 S 8 M 50                    | 22                                 | 1                           | 56,02   | 54,65   | 62       | -       | 60      | 43      | 70      | 10      | -        |  |   |
| 24 S 8 M 50                    | 24                                 | 1                           | 61,12   | 59,74   | 67       | -       | 60      | 49      | 70      | 10      | -        |  |   |
| 26 S 8 M 50                    | 26                                 | 1                           | 66,21   | 64,84   | 73       | -       | 60      | 50      | 70      | 10      | -        |  |   |
| 28 S 8 M 50                    | 28                                 | 1                           | 71,30   | 69,93   | 77       | -       | 60      | 55      | 70      | 10      | -        |  |   |
| 30 S 8 M 50                    | 30                                 | 1                           | 76,39   | 75,02   | 84       | -       | 60      | 60      | 70      | 10      | -        |  |   |
| 32 S 8 M 50                    | 32                                 | 1                           | 81,49   | 80,12   | 88       | -       | 60      | 64      | 70      | 10      | -        |  |   |
| 34 S 8 M 50                    | 34                                 | 1                           | 86,58   | 85,21   | 94       | -       | 60      | 70      | 70      | 10      | -        |  |   |
| 36 S 8 M 50                    | 36                                 | 1                           | 91,67   | 90,30   | 98       | -       | 60      | 75      | 70      | 10      | -        |  |   |
| 38 S 8 M 50                    | 38                                 | 1                           | 96,77   | 95,39   | 104      | -       | 60      | 80      | 70      | 10      | -        |  |   |
| 40 S 8 M 50                    | 40                                 | 1                           | 101,86  | 100,49  | 108      | -       | 60      | 85      | 70      | 10      | -        |  |   |
| 44 S 8 M 50                    | 44                                 | 1                           | 112,05  | 110,67  | 121      | -       | 60      | 96      | 70      | 10      | -        |  |   |
| 48 S 8 M 50                    | 48                                 | 1                           | 122,23  | 120,86  | 129      | -       | 60      | 104     | 70      | 10      | -        |  |   |
| 56 S 8 M 50                    | 56                                 | 8                           | 142,60  | 141,23  | 149      | 117     | 60      | 90      | 60      | -       | -        | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición |
| 60 S 8 M 50                    | 60                                 | 8                           | 152,79  | 151,42  | 158      | 127     | 60      | 100     | 60      | -       | -        |  |   |
| 64 S 8 M 50                    | 64                                 | 8                           | 162,97  | 161,60  | 168      | 137     | 60      | 100     | 60      | -       | -        |  |   |
| 72 S 8 M 50                    | 72                                 | 8                           | 183,35  | 181,97  | 191      | 158     | 60      | 100     | 60      | -       | -        |  |   |
| 80 S 8 M 50                    | 80                                 | 8                           | 203,72  | 202,35  | -        | 179     | 60      | 110     | 60      | -       | -        |  |   |
| 84 S 8 M 50                    | 84                                 | 10                          | 213,90  | 212,53  | -        | 190     | 60      | 110     | 60      | -       | -        |  |   |
| 90 S 8 M 50                    | 90                                 | 10                          | 229,18  | 227,81  | -        | 204     | 60      | 110     | 60      | -       | -        |  |   |
| 112 S 8 M 50                   | 112                                | 11                          | 285,21  | 283,83  | -        | 260     | 60      | 110     | 60      | -       | 19       |  |   |
| 144 S 8 M 50                   | 144                                | 11                          | 366,69  | 365,32  | -        | 342     | 60      | 110     | 60      | -       | 19       |  |   |
| 168 S 8 M 50                   | 168                                | 11                          | 427,80  | 426,42  | -        | 403     | 60      | 120     | 60      | -       | 19       |  |   |
| 192 S 8 M 50                   | 192                                | 11                          | 488,92  | 487,54  | -        | 465     | 60      | 130     | 60      | -       | 19       |  |   |



## S 8 M-85

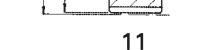
| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Stahl<br>material   |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 22 S 8 M 85                    | 22                                 | 1                           | 56,02   | 54,65   | 62       | -       | 95      | 43      | 105     | 10      | -        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero            |
| 24 S 8 M 85                    | 24                                 | 1                           | 61,12   | 59,74   | 67       | -       | 95      | 49      | 105     | 10      | -        |  |   |
| 26 S 8 M 85                    | 26                                 | 1                           | 66,21   | 64,84   | 73       | -       | 95      | 50      | 105     | 10      | -        |  |   |
| 28 S 8 M 85                    | 28                                 | 1                           | 71,30   | 69,93   | 77       | -       | 95      | 55      | 105     | 10      | -        |  |   |
| 30 S 8 M 85                    | 30                                 | 1                           | 76,39   | 75,02   | 84       | -       | 95      | 60      | 105     | 10      | -        |  |   |
| 32 S 8 M 85                    | 32                                 | 1                           | 81,49   | 80,12   | 88       | -       | 95      | 64      | 105     | 10      | -        |  |   |
| 34 S 8 M 85                    | 34                                 | 1                           | 86,58   | 85,21   | 94       | -       | 95      | 70      | 105     | 10      | -        |  |   |
| 36 S 8 M 85                    | 36                                 | 1                           | 91,67   | 90,30   | 98       | -       | 95      | 75      | 105     | 10      | -        |  |   |
| 38 S 8 M 85                    | 38                                 | 1                           | 96,77   | 95,39   | 104      | -       | 95      | 80      | 105     | 10      | -        |  |   |
| 40 S 8 M 85                    | 40                                 | 1                           | 101,86  | 100,49  | 108      | -       | 95      | 85      | 105     | 10      | -        |  |   |
| 44 S 8 M 85                    | 44                                 | 1                           | 112,05  | 110,67  | 121      | -       | 95      | 96      | 105     | 10      | -        |  |   |
| 48 S 8 M 85                    | 48                                 | 1                           | 122,23  | 120,86  | 129      | -       | 95      | 104     | 105     | 10      | -        |  |   |
| 56 S 8 M 85                    | 56                                 | 1                           | 142,60  | 141,23  | 149      | -       | 95      | 107     | 105     | 10      | -        |  |   |
| 60 S 8 M 85                    | 60                                 | 1                           | 152,79  | 151,42  | 158      | -       | 95      | 132     | 105     | 10      | -        |  |   |
| 64 S 8 M 85                    | 64                                 | 8                           | 162,97  | 161,60  | 168      | 137     | 95      | 100     | 95      | -       | -        | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición |
| 72 S 8 M 85                    | 72                                 | 8                           | 183,35  | 181,97  | 191      | 158     | 95      | 110     | 95      | -       | -        |  |   |
| 80 S 8 M 85                    | 80                                 | 9                           | 203,72  | 202,35  | -        | 179     | 95      | 110     | 95      | -       | -        |  |   |
| 84 S 8 M 85                    | 84                                 | 9                           | 213,90  | 212,53  | -        | 190     | 95      | 110     | 95      | -       | -        |  |   |
| 90 S 8 M 85                    | 90                                 | 10                          | 229,18  | 227,81  | -        | 204     | 95      | 110     | 95      | -       | -        |  |   |
| 112 S 8 M 85                   | 112                                | 11                          | 285,21  | 283,83  | -        | 260     | 95      | 110     | 95      | -       | 19       |  |   |
| 144 S 8 M 85                   | 144                                | 11                          | 366,69  | 365,32  | -        | 342     | 95      | 120     | 95      | -       | 19       |  |   |
| 168 S 8 M 85                   | 168                                | 11                          | 427,80  | 426,42  | -        | 403     | 95      | 120     | 95      | -       | 19       |  |   |
| 192 S 8 M 85                   | 192                                | 11                          | 488,92  | 487,54  | -        | 465     | 95      | 130     | 95      | -       | 19       |  |   |

Pitch - Pas  
Teilung - Paso

14 mm

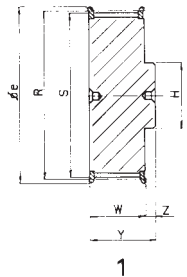
## S 14 M-40

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 28 S 14 M 40                   | 28                                 | 1                           | 124,78  | 121,98  | 134      | –       | 54      | 100     | 69      | 15      | –        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| 29 S 14 M 40                   | 29                                 | 1                           | 129,23  | 126,44  | 134      | –       | 54      | 107     | 69      | 15      | –        |  |   |
| 30 S 14 M 40                   | 30                                 | 1                           | 133,69  | 130,90  | 142      | –       | 54      | 107     | 69      | 15      | –        |  |   |
| 32 S 14 M 40                   | 32                                 | 1                           | 142,60  | 139,81  | 150      | –       | 54      | 114     | 69      | 15      | –        |  |   |
| 34 S 14 M 40                   | 34                                 | 1                           | 151,51  | 148,72  | 158      | –       | 54      | 122     | 69      | 15      | –        |  |   |
| 36 S 14 M 40                   | 36                                 | 1                           | 160,43  | 157,63  | 166      | –       | 54      | 128     | 69      | 15      | –        |  |   |
| 38 S 14 M 40                   | 38                                 | 1                           | 169,34  | 166,55  | 177      | –       | 54      | 141     | 69      | 15      | –        |  |   |
| 40 S 14 M 40                   | 40                                 | 1                           | 178,25  | 175,46  | 186      | –       | 54      | 148     | 69      | 15      | –        |  |   |
| 44 S 14 M 40                   | 44                                 | 2                           | 196,08  | 193,28  | 209      | 154     | 54      | 120     | 69      | 15      | –        |  |   |
| 48 S 14 M 40                   | 48                                 | 2                           | 213,90  | 211,11  | 216      | 172     | 54      | 135     | 69      | 15      | –        |  |   |
| 56 S 14 M 40                   | 56                                 | 2                           | 249,56  | 246,76  | 261      | 207     | 54      | 135     | 69      | 15      | –        |  |   |
| 60 S 14 M 40                   | 60                                 | 2                           | 267,38  | 264,59  | 274      | 225     | 54      | 135     | 69      | 15      | –        |  |   |
| 64 S 14 M 40                   | 64                                 | 2                           | 285,21  | 282,41  | 288      | 243     | 54      | 135     | 69      | 15      | –        |  |   |
| 72 S 14 M 40                   | 72                                 | 5                           | 320,86  | 318,06  | –        | 279     | 54      | 135     | 69      | 15      | 19       | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| 80 S 14 M 40                   | 80                                 | 5                           | 356,51  | 353,71  | –        | 314     | 54      | 135     | 69      | 15      | 19       |  |   |
| 84 S 14 M 40                   | 84                                 | 5                           | 374,33  | 371,54  | –        | 332     | 54      | 135     | 69      | 15      | 19       |  |   |
| 90 S 14 M 40                   | 90                                 | 5                           | 401,07  | 398,28  | –        | 359     | 54      | 135     | 69      | 15      | 19       |  |   |
| 112 S 14 M 40                  | 112                                | 5                           | 499,11  | 496,32  | –        | 457     | 54      | 135     | 69      | 15      | 19       |  |   |
| 144 S 14 M 40                  | 144                                | 5                           | 641,71  | 638,92  | –        | 600     | 54      | 135     | 69      | 15      | 19       |  |   |



## S 14 M-55

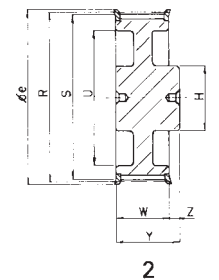
| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 28 S 14 M 55                   | 28                                 | 1                           | 124,78  | 121,98  | 134      | –       | 70      | 100     | 85      | 15      | –        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| 29 S 14 M 55                   | 29                                 | 1                           | 129,23  | 126,44  | 134      | –       | 70      | 107     | 85      | 15      | –        |  |   |
| 30 S 14 M 55                   | 30                                 | 1                           | 133,69  | 130,90  | 142      | –       | 70      | 107     | 85      | 15      | –        |  |   |
| 32 S 14 M 55                   | 32                                 | 1                           | 142,60  | 139,81  | 150      | –       | 70      | 114     | 85      | 15      | –        |  |   |
| 34 S 14 M 55                   | 34                                 | 1                           | 151,51  | 148,72  | 158      | –       | 70      | 122     | 85      | 15      | –        |  |   |
| 36 S 14 M 55                   | 36                                 | 1                           | 160,43  | 157,63  | 166      | –       | 70      | 128     | 85      | 15      | –        |  |   |
| 38 S 14 M 55                   | 38                                 | 1                           | 169,34  | 166,55  | 177      | –       | 70      | 141     | 85      | 15      | –        |  |   |
| 40 S 14 M 55                   | 40                                 | 1                           | 178,25  | 175,46  | 186      | –       | 70      | 148     | 85      | 15      | –        |  |   |
| 44 S 14 M 55                   | 44                                 | 2                           | 196,08  | 193,28  | 209      | 154     | 70      | 120     | 85      | 15      | –        |  |   |
| 48 S 14 M 55                   | 48                                 | 8                           | 213,90  | 211,11  | 216      | 172     | 70      | 135     | 70      | –       | –        |  |   |
| 56 S 14 M 55                   | 56                                 | 8                           | 249,56  | 246,76  | 261      | 207     | 70      | 135     | 70      | –       | –        |  |   |
| 60 S 14 M 55                   | 60                                 | 8                           | 267,38  | 264,59  | 274      | 225     | 70      | 135     | 70      | –       | –        |  |   |
| 64 S 14 M 55                   | 64                                 | 8                           | 285,21  | 282,41  | 288      | 243     | 70      | 135     | 70      | –       | –        |  |   |
| 72 S 14 M 55                   | 72                                 | 11                          | 320,86  | 318,06  | –        | 279     | 70      | 135     | 70      | –       | 19       | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| 80 S 14 M 55                   | 80                                 | 11                          | 356,51  | 353,71  | –        | 314     | 70      | 135     | 70      | –       | 19       |  |   |
| 84 S 14 M 55                   | 84                                 | 11                          | 374,33  | 371,54  | –        | 332     | 70      | 135     | 70      | –       | 19       |  |   |
| 90 S 14 M 55                   | 90                                 | 11                          | 401,07  | 398,28  | –        | 359     | 70      | 135     | 70      | –       | 19       |  |   |
| 112 S 14 M 55                  | 112                                | 11                          | 499,11  | 496,32  | –        | 457     | 70      | 135     | 70      | –       | 19       |  |   |
| 144 S 14 M 55                  | 144                                | 11                          | 641,71  | 638,92  | –        | 600     | 70      | 135     | 70      | –       | 19       |  |   |



1

## S 14 M-85

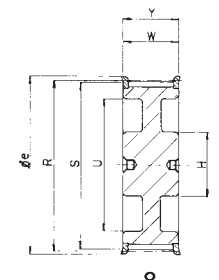
| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 28 S 14 M 85                   | 28                                 | 1                           | 124,78  | 121,98  | 134      | -       | 102     | 100     | 117     | 15      | -        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| 29 S 14 M 85                   | 29                                 | 1                           | 129,23  | 126,44  | 134      | -       | 102     | 107     | 117     | 15      | -        |  |   |
| 30 S 14 M 85                   | 30                                 | 1                           | 133,69  | 130,90  | 142      | -       | 102     | 107     | 117     | 15      | -        |  |   |
| 32 S 14 M 85                   | 32                                 | 1                           | 142,60  | 139,81  | 150      | -       | 102     | 114     | 117     | 15      | -        |  |   |
| 34 S 14 M 85                   | 34                                 | 1                           | 151,51  | 148,72  | 158      | -       | 102     | 122     | 117     | 15      | -        |  |   |
| 36 S 14 M 85                   | 36                                 | 1                           | 160,43  | 157,63  | 166      | -       | 102     | 128     | 117     | 15      | -        |  |   |
| 38 S 14 M 85                   | 38                                 | 1                           | 169,34  | 166,55  | 177      | -       | 102     | 141     | 117     | 15      | -        |  |   |
| 40 S 14 M 85                   | 40                                 | 1                           | 178,25  | 175,46  | 186      | -       | 102     | 148     | 117     | 15      | -        |  |   |
| 44 S 14 M 85                   | 44                                 | 1                           | 196,08  | 193,28  | 209      | -       | 102     | 169     | 117     | 15      | -        |  |   |
| 48 S 14 M 85                   | 48                                 | 1                           | 213,90  | 211,11  | 216      | -       | 102     | 186     | 117     | 15      | -        |  |   |
| 56 S 14 M 85                   | 56                                 | 8                           | 249,56  | 246,76  | 261      | 207     | 102     | 150     | 102     | -       | -        |  |   |
| 60 S 14 M 85                   | 60                                 | 8                           | 267,38  | 264,59  | 274      | 225     | 102     | 150     | 102     | -       | -        |  |   |
| 64 S 14 M 85                   | 64                                 | 8                           | 285,21  | 282,41  | 288      | 243     | 102     | 150     | 102     | -       | -        |  |   |
| 72 S 14 M 85                   | 72                                 | 11                          | 320,86  | 318,06  | -        | 279     | 102     | 150     | 102     | -       | 19       | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| 80 S 14 M 85                   | 80                                 | 11                          | 356,51  | 353,71  | -        | 314     | 102     | 150     | 102     | -       | 19       |  |   |
| 84 S 14 M 85                   | 84                                 | 11                          | 374,33  | 371,54  | -        | 332     | 102     | 150     | 102     | -       | 19       |  |   |
| 90 S 14 M 85                   | 90                                 | 11                          | 401,07  | 398,28  | -        | 359     | 102     | 150     | 102     | -       | 19       |  |   |
| 112 S 14 M 85                  | 112                                | 11                          | 499,11  | 496,32  | -        | 457     | 102     | 150     | 102     | -       | 19       |  |   |
| 144 S 14 M 85                  | 144                                | 11                          | 641,71  | 638,92  | -        | 600     | 102     | 150     | 102     | -       | 19       |  |   |



2

## S 14 M-115

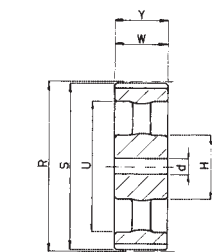
| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 28 S 14 M 115                  | 28                                 | 1                           | 124,78  | 121,98  | 134      | -       | 133     | 100     | 148     | 15      | -        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| 29 S 14 M 115                  | 29                                 | 1                           | 129,23  | 126,44  | 134      | -       | 133     | 107     | 148     | 15      | -        |  |   |
| 30 S 14 M 115                  | 30                                 | 1                           | 133,69  | 130,90  | 142      | -       | 133     | 107     | 148     | 15      | -        |  |   |
| 32 S 14 M 115                  | 32                                 | 1                           | 142,60  | 139,81  | 150      | -       | 133     | 114     | 148     | 15      | -        |  |   |
| 34 S 14 M 115                  | 34                                 | 1                           | 151,51  | 148,72  | 158      | -       | 133     | 122     | 148     | 15      | -        |  |   |
| 36 S 14 M 115                  | 36                                 | 1                           | 160,43  | 157,63  | 166      | -       | 133     | 128     | 148     | 15      | -        |  |   |
| 38 S 14 M 115                  | 38                                 | 1                           | 169,34  | 166,55  | 177      | -       | 133     | 141     | 148     | 15      | -        |  |   |
| 40 S 14 M 115                  | 40                                 | 1                           | 178,25  | 175,46  | 186      | -       | 133     | 148     | 148     | 15      | -        |  |   |
| 44 S 14 M 115                  | 44                                 | 1                           | 196,08  | 193,28  | 209      | -       | 133     | 169     | 148     | 15      | -        |  |   |
| 48 S 14 M 115                  | 48                                 | 1                           | 213,90  | 211,11  | 216      | -       | 133     | 186     | 148     | 15      | -        |  |   |
| 56 S 14 M 115                  | 56                                 | 2                           | 249,56  | 246,76  | 261      | 207     | 133     | 150     | 133     | -       | -        |  |   |
| 60 S 14 M 115                  | 60                                 | 8                           | 267,38  | 264,59  | 274      | 225     | 133     | 150     | 133     | -       | -        |  |   |
| 64 S 14 M 115                  | 64                                 | 8                           | 285,21  | 282,41  | 288      | 243     | 133     | 150     | 133     | -       | -        |  |   |
| 72 S 14 M 115                  | 72                                 | 11                          | 320,86  | 318,06  | -        | 279     | 133     | 150     | 133     | -       | 19       | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| 80 S 14 M 115                  | 80                                 | 11                          | 356,51  | 353,71  | -        | 314     | 133     | 150     | 133     | -       | 19       |  |   |
| 84 S 14 M 115                  | 84                                 | 11                          | 374,33  | 371,54  | -        | 332     | 133     | 150     | 133     | -       | 19       |  |   |
| 90 S 14 M 115                  | 90                                 | 11                          | 401,07  | 398,28  | -        | 359     | 133     | 150     | 133     | -       | 19       |  |   |
| 112 S 14 M 115                 | 112                                | 11                          | 499,11  | 496,32  | -        | 457     | 133     | 150     | 133     | -       | 19       |  |   |
| 144 S 14 M 115                 | 144                                | 11                          | 641,71  | 638,92  | -        | 600     | 133     | 150     | 133     | -       | 19       |  |   |



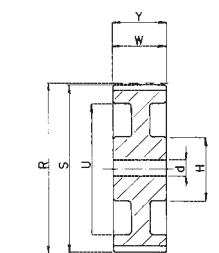
8

## S 14 M-170

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 28 S 14 M 170                  | 28                                 | 1                           | 124,78  | 121,98  | 134      | –       | 187     | 100     | 202     | 15      | –        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| 29 S 14 M 170                  | 29                                 | 1                           | 129,23  | 126,44  | 134      | –       | 187     | 107     | 202     | 15      | –        |  |   |
| 30 S 14 M 170                  | 30                                 | 1                           | 133,69  | 130,90  | 142      | –       | 187     | 107     | 202     | 15      | –        |  |   |
| 32 S 14 M 170                  | 32                                 | 1                           | 142,60  | 139,81  | 150      | –       | 187     | 114     | 202     | 15      | –        |  |   |
| 34 S 14 M 170                  | 34                                 | 1                           | 151,51  | 148,72  | 158      | –       | 187     | 122     | 202     | 15      | –        |  |   |
| 36 S 14 M 170                  | 36                                 | 1                           | 160,43  | 157,63  | 166      | –       | 187     | 128     | 202     | 15      | –        |  |   |
| 38 S 14 M 170                  | 38                                 | 1                           | 169,34  | 166,55  | 177      | –       | 187     | 141     | 202     | 15      | –        |  |   |
| 40 S 14 M 170                  | 40                                 | 1                           | 178,25  | 175,46  | 186      | –       | 187     | 148     | 202     | 15      | –        |  |   |
| 44 S 14 M 170                  | 44                                 | 1                           | 196,08  | 193,28  | 209      | –       | 187     | 169     | 202     | 15      | –        |  |   |
| 48 S 14 M 170                  | 48                                 | 1                           | 213,90  | 211,11  | 216      | –       | 187     | 186     | 202     | 15      | –        |  |   |
| 56 S 14 M 170                  | 56                                 | 2                           | 249,56  | 246,76  | 261      | 207     | 187     | 160     | 202     | 15      | –        |  |   |
| 60 S 14 M 170                  | 60                                 | 2                           | 267,38  | 264,59  | 274      | 225     | 187     | 160     | 202     | 15      | –        |  |   |
| 64 S 14 M 170                  | 64                                 | 2                           | 285,21  | 282,41  | 288      | 243     | 187     | 180     | 202     | 15      | –        |  |   |
| 72 S 14 M 170                  | 72                                 | 12                          | 320,86  | 318,06  | –        | 279     | 187     | 180     | 187     | –       | 19       | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| 80 S 14 M 170                  | 80                                 | 12                          | 356,51  | 353,71  | –        | 314     | 187     | 180     | 187     | –       | 19       |  |   |
| 84 S 14 M 170                  | 84                                 | 11                          | 374,33  | 371,54  | –        | 332     | 187     | 180     | 187     | –       | 19       |  |   |
| 90 S 14 M 170                  | 90                                 | 11                          | 401,07  | 398,28  | –        | 359     | 187     | 180     | 187     | –       | 19       |  |   |
| 112 S 14 M 170                 | 112                                | 11                          | 499,11  | 496,32  | –        | 457     | 187     | 200     | 187     | –       | 19       |  |   |
| 144 S 14 M 170                 | 144                                | 11                          | 641,71  | 638,92  | –        | 600     | 187     | 220     | 187     | –       | 19       |  |   |



11



12



# STANDARD «SUPER TORQUE» TIMING PULLEYS FOR ASSEMBLY WITH SER-SIT® CONICAL BUSHES

## POULIES DENTEES DE SERIE «SUPER TORQUE» POUR MONTAGE AVEC MOYEU AMOVIBLE SER-SIT®

## STANDARD-ZAHNSCHEIBEN «SUPER TORQUE» ZUR MONTAGE MIT SER-SIT® SPANNBUCHSEN

## POLEAS DENTADAS DE SERIE «SUPER TORQUE» PARA MONTAJE CON BUJE CONICO SER-SIT®

Pitch - Pas  
Teilung - Paso

**8 mm**

### S 8 M-20

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT®<br>code | flange<br>flasque<br>Bord<br>valona                      | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|------------------|--|---|
| B 22 S 8 M 20                  | 22                                 | 4                           | 56,02   | 54,65   | 62       | 38      | 28      | –       | 6       | 22      | 1008             | with flanges<br>avec flasques<br>mit Borde<br>con valona | cast iron - fonte - Grauguss - fundición      |
| B 24 S 8 M 20                  | 24                                 | 4                           | 61,12   | 59,74   | 67       | 42      | 28      | –       | 6       | 22      | 1108             |  |   |
| B 26 S 8 M 20                  | 26                                 | 4                           | 66,21   | 64,84   | 73       | 45      | 28      | –       | 6       | 22      | 1108             |  |   |
| B 28 S 8 M 20                  | 28                                 | 4                           | 71,30   | 69,93   | 77       | 52      | 28      | –       | 6       | 22      | 1108             |  |   |
| B 30 S 8 M 20                  | 30                                 | 4                           | 76,39   | 75,02   | 84       | 56      | 28      | –       | 6       | 22      | 1108             |  |   |
| B 32 S 8 M 20                  | 32                                 | 4                           | 81,49   | 80,12   | 88       | 65      | 28      | –       | 3       | 25      | 1610             |  |   |
| B 34 S 8 M 20                  | 34                                 | 4                           | 86,58   | 85,21   | 94       | 66      | 28      | –       | 3       | 25      | 1610             |  |   |
| B 36 S 8 M 20                  | 36                                 | 4                           | 91,67   | 90,30   | 98       | 68      | 28      | –       | 3       | 25      | 1610             |  |   |
| B 38 S 8 M 20                  | 38                                 | 4                           | 96,77   | 95,39   | 104      | 76      | 28      | –       | 3       | 25      | 1610             |  |   |
| B 40 S 8 M 20                  | 40                                 | 4                           | 101,86  | 100,49  | 108      | 80      | 28      | –       | 3       | 25      | 1610             |  |   |
| B 44 S 8 M 20                  | 44                                 | 1                           | 112,05  | 110,67  | 121      | –       | 28      | 99      | 4       | 32      | 2012             |  |   |
| B 48 S 8 M 20                  | 48                                 | 1                           | 122,23  | 120,86  | 129      | –       | 28      | 105     | 4       | 32      | 2012             |  |   |
| B 56 S 8 M 20                  | 56                                 | 1                           | 142,60  | 141,23  | 149      | –       | 28      | 105     | 4       | 32      | 2012             |  |   |
| B 64 S 8 M 20                  | 64                                 | 6                           | 162,97  | 161,60  | 168      | 140     | 28      | 110     | 4       | 32      | 2012             |  |   |
| B 72 S 8 M 20                  | 72                                 | 6                           | 183,35  | 181,97  | 191      | 158     | 28      | 110     | 4       | 32      | 2012             |  |   |
| B 80 S 8 M 20                  | 80                                 | 9                           | 203,72  | 202,35  | –        | 178     | 28      | 110     | 4       | 32      | 2012             | ★  |   |
| B 90 S 8 M 20                  | 90                                 | 12                          | 229,18  | 227,81  | –        | 204     | 28      | 110     | 4       | 32      | 2012             |  |   |

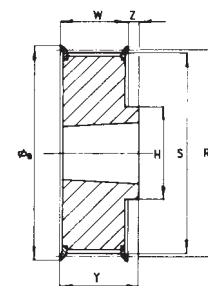
\* without flanges - sous flasques - ohne Borde - sin valona

### S 8 M-30

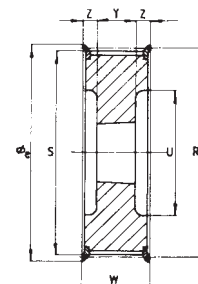
| code<br>code<br>Code<br>código                               | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT®<br>code | flange<br>flasque<br>Bord<br>valona                      | material<br>materiel<br>Werkstoff<br>material |
|--|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|------------------|--|---|
| B 22 S 8 M 30  | 22                                 | 4                           | 56,02   | 54,65   | 62       | 38      | 38      | –       | 16      | 22      | 1008             | with flanges<br>avec flasques<br>mit Borde<br>con valona | cast iron - fonte - Grauguss - fundición      |
| B 24 S 8 M 30  | 24                                 | 4                           | 61,12   | 59,74   | 67       | 42      | 38      | –       | 16      | 22      | 1108             |  |   |
| B 26 S 8 M 30  | 26                                 | 4                           | 66,21   | 64,84   | 73       | 45      | 38      | –       | 16      | 22      | 1108             |  |   |
| B 28 S 8 M 30  | 28                                 | 4                           | 71,30   | 69,93   | 77       | 52      | 38      | –       | 16      | 22      | 1108             |  |   |
| B 30 S 8 M 30  | 30                                 | 8                           | 76,39   | 75,02   | 84       | –       | 38      | –       | –       | 38      | 1615             |  |   |
| B 32 S 8 M 30  | 32                                 | 8                           | 81,49   | 80,12   | 88       | –       | 38      | –       | –       | 38      | 1615             |  |   |
| B 34 S 8 M 30  | 34                                 | 8                           | 86,58   | 85,21   | 94       | –       | 38      | –       | –       | 38      | 1615             |  |   |
| B 36 S 8 M 30  | 36                                 | 8                           | 91,67   | 90,30   | 98       | –       | 38      | –       | –       | 38      | 1615             |  |   |
| B 38 S 8 M 30  | 38                                 | 8                           | 96,77   | 95,39   | 104      | –       | 38      | –       | –       | 38      | 1615             |  |   |
| B 40 S 8 M 30  | 40                                 | 8                           | 101,86  | 100,49  | 108      | –       | 38      | –       | –       | 38      | 1615             |  |   |
| B 44 S 8 M 30  | 44                                 | 2                           | 112,05  | 110,67  | 121      | 90      | 38      | –       | –       | 32      | 2012             |  |   |
| B 48 S 8 M 30  | 48                                 | 2                           | 122,23  | 120,86  | 129      | 98      | 38      | –       | 3       | 32      | 2012             |  |   |
| B 56 S 8 M 30  | 56                                 | 2                           | 142,60  | 141,23  | 149      | 118     | 38      | –       | 3       | 32      | 2012             |  |   |
| B 64 S 8 M 30  | 64                                 | 6                           | 162,97  | 161,60  | 168      | 140     | 38      | 120     | 3       | 45      | 2517             |  |   |
| B 72 S 8 M 30  | 72                                 | 6                           | 183,35  | 181,97  | 191      | 158     | 38      | 120     | 7       | 45      | 2517             |  |   |
| B 80 S 8 M 30  | 80                                 | 9                           | 203,72  | 202,35  | –        | 178     | 38      | 120     | 7       | 45      | 2517             |  |   |
| B 90 S 8 M 30  | 90                                 | 12                          | 229,18  | 227,81  | –        | 204     | 38      | 120     | 7       | 45      | 2517             |  |   |
| B 112 S 8 M 30   | 112                                | 12                          | 285,21  | 283,83  | –        | 260     | 38      | 120     | 7       | 45      | 2517             |  |   |
| B 144 S 8 M 30   | 144                                | 12                          | 366,69  | 365,32  | –        | 341     | 38      | 120     | 7       | 45      | 2517             |  |   |
| without flanges<br>sous flasques<br>ohne Borde<br>sin valona |                                    |                             |         |         |          |         |         |         |         |         |                  |  |   |

### S 8 M-50

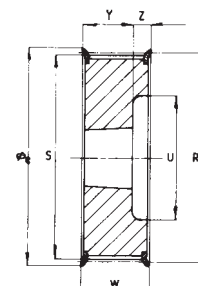
| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT®<br>code | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|------------------|--|---|
| B 28 S 8 M 50                  | 28                                 | 2                           | 71,30   | 69,93   | 77       | 52      | 60      | –       | 19      | 22      | 1108             | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| B 30 S 8 M 50                  | 30                                 | 4                           | 76,39   | 75,02   | 84       | 58      | 60      | –       | 22      | 38      | 1615             |  |   |
| B 32 S 8 M 50                  | 32                                 | 4                           | 81,49   | 80,12   | 88       | 60      | 60      | –       | 22      | 38      | 1615             |  |   |
| B 34 S 8 M 50                  | 34                                 | 4                           | 86,58   | 85,21   | 94       | 66      | 60      | –       | 22      | 38      | 1615             |  |   |
| B 36 S 8 M 50                  | 36                                 | 4                           | 91,67   | 90,30   | 98       | 68      | 60      | –       | 22      | 38      | 1615             |  |   |
| B 38 S 8 M 50                  | 38                                 | 4                           | 96,77   | 95,39   | 104      | 75      | 60      | –       | 22      | 38      | 1615             |  |   |
| B 40 S 8 M 50                  | 40                                 | 2                           | 101,86  | 100,49  | 108      | 80      | 60      | –       | 14      | 32      | 2012             |  |   |
| B 44 S 8 M 50                  | 44                                 | 2                           | 112,05  | 110,67  | 121      | 90      | 60      | –       | 14      | 32      | 2012             |  |   |
| B 48 S 8 M 50                  | 48                                 | 2                           | 122,23  | 120,86  | 129      | 100     | 60      | –       | 14      | 32      | 2012             |  |   |
| B 56 S 8 M 50                  | 56                                 | 2                           | 142,60  | 141,23  | 149      | 120     | 60      | –       | 7,5     | 45      | 2517             |  |   |
| B 64 S 8 M 50                  | 64                                 | 5                           | 162,97  | 161,60  | 168      | 138     | 60      | 120     | 7,5     | 45      | 2517             |  |   |
| B 72 S 8 M 50                  | 72                                 | 5                           | 183,35  | 181,97  | 191      | 158     | 60      | 120     | 7,5     | 45      | 2517             |  |   |
| B 80 S 8 M 50                  | 80                                 | 7                           | 203,72  | 202,35  | –        | 178     | 60      | 140     | 4,5     | 51      | 3020             |  |   |
| B 90 S 8 M 50                  | 90                                 | 7                           | 229,18  | 227,81  | –        | 204     | 60      | 146     | 4,5     | 51      | 3020             |  |   |
| B 112 S 8 M 50                 | 112                                | 14                          | 285,21  | 283,83  | –        | 260     | 60      | 146     | 4,5     | 51      | 3020             | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| B 144 S 8 M 50                 | 144                                | 14                          | 366,69  | 365,32  | –        | 341     | 60      | 146     | 4,5     | 51      | 3020             |  |   |
| B 168 S 8 M 50                 | 168                                | 14                          | 427,80  | 426,42  | –        | 402     | 60      | 146     | 4,5     | 51      | 3020             |  |   |
| B 192 S 8 M 50                 | 192                                | 14                          | 488,92  | 487,54  | –        | 462     | 60      | 146     | 4,5     | 51      | 3020             |  |   |



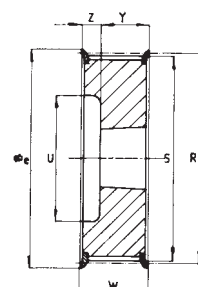
1



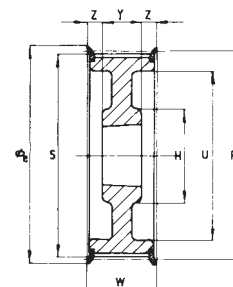
2



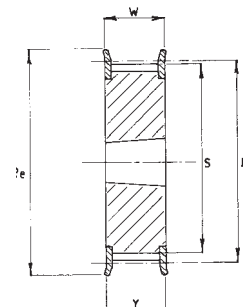
3



4



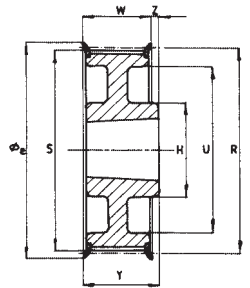
5



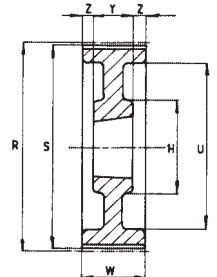
8

## S 8 M-85

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT®<br>code | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|------------------|--|---|
| B 34 S 8 M 85                  | 34                                 | 2                           | 86,58   | 85,21   | 94       | 66      | 95      | –       | 28,5    | 38      | 1615             | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| B 36 S 8 M 85                  | 36                                 | 2                           | 91,67   | 90,30   | 98       | 68      | 95      | –       | 28,5    | 38      | 1615             |  |   |
| B 38 S 8 M 85                  | 38                                 | 2                           | 96,77   | 95,39   | 104      | 75      | 95      | –       | 28,5    | 38      | 1615             |  |   |
| B 40 S 8 M 85                  | 40                                 | 2                           | 101,86  | 100,49  | 108      | 80      | 95      | –       | 31,5    | 32      | 2012             |  |   |
| B 44 S 8 M 85                  | 44                                 | 2                           | 112,05  | 110,67  | 121      | 90      | 95      | –       | 31,5    | 32      | 2012             |  |   |
| B 48 S 8 M 85                  | 48                                 | 2                           | 122,23  | 120,86  | 129      | 100     | 95      | –       | 25      | 45      | 2517             |  |   |
| B 56 S 8 M 85                  | 56                                 | 2                           | 142,60  | 141,23  | 149      | 120     | 95      | –       | 25      | 45      | 2517             |  |   |
| B 64 S 8 M 85                  | 64                                 | 2                           | 162,97  | 161,60  | 168      | 138     | 95      | –       | 25      | 45      | 2517             |  |   |
| B 72 S 8 M 85                  | 72                                 | 2                           | 183,35  | 181,97  | 191      | 158     | 95      | –       | 22      | 51      | 3020             |  |   |
| B 80 S 8 M 85                  | 80                                 | 7                           | 203,72  | 202,35  | –        | 178     | 95      | 140     | 22      | 51      | 3020             |  |   |
| B 90 S 8 M 85                  | 90                                 | 7                           | 229,18  | 227,81  | –        | 204     | 95      | 146     | 22      | 51      | 3020             | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| B 112 S 8 M 85                 | 112                                | 14                          | 285,21  | 283,83  | –        | 260     | 95      | 146     | 22      | 51      | 3020             |  |   |
| B 144 S 8 M 85                 | 144                                | 14                          | 366,69  | 365,32  | –        | 341     | 95      | 140     | 9,5     | 76      | 3030             |  |   |
| B 168 S 8 M 85                 | 168                                | 14                          | 427,80  | 426,42  | –        | 402     | 95      | 140     | 9,5     | 76      | 3030             |  |   |
| B 192 S 8 M 85                 | 192                                | 14                          | 488,92  | 487,54  | –        | 462     | 95      | 140     | 9,5     | 76      | 3030             |  |   |



6



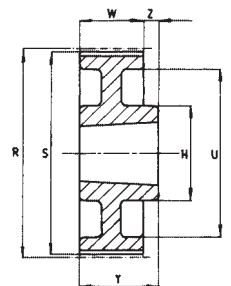
7

Pitch - Pas  
Teilung - Paso

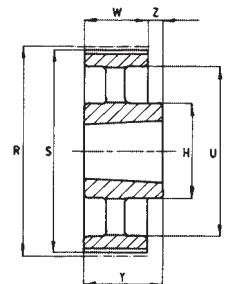
14 mm

## S 14 M-40

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT®<br>code | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|------------------|--|---|
| B 28 S 14 M 40                 | 28                                 | 2                           | 124,78  | 121,98  | 134      | 98      | 54      | –       | 11      | 32      | 2012             | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| B 29 S 14 M 40                 | 29                                 | 2                           | 129,23  | 126,44  | 134      | 100     | 54      | –       | 11      | 32      | 2012             |  |   |
| B 30 S 14 M 40                 | 30                                 | 2                           | 133,69  | 130,90  | 142      | 100     | 54      | –       | 11      | 32      | 2012             |  |   |
| B 32 S 14 M 40                 | 32                                 | 2                           | 142,60  | 139,81  | 150      | 104     | 54      | –       | 11      | 32      | 2012             |  |   |
| B 34 S 14 M 40                 | 34                                 | 2                           | 151,51  | 148,72  | 158      | 110     | 54      | –       | 4,5     | 45      | 2517             |  |   |
| B 36 S 14 M 40                 | 36                                 | 2                           | 160,43  | 157,63  | 166      | 120     | 54      | –       | 4,5     | 45      | 2517             |  |   |
| B 38 S 14 M 40                 | 38                                 | 2                           | 169,34  | 166,55  | 177      | 130     | 54      | –       | 4,5     | 45      | 2517             |  |   |
| B 40 S 14 M 40                 | 40                                 | 2                           | 178,25  | 175,46  | 186      | 138     | 54      | –       | 4,5     | 45      | 2517             |  |   |
| B 44 S 14 M 40                 | 44                                 | 2                           | 196,08  | 193,28  | 209      | 154     | 54      | –       | 1,5     | 51      | 3020             |  |   |
| B 48 S 14 M 40                 | 48                                 | 2                           | 213,90  | 211,11  | 216      | 172     | 54      | –       | 1,5     | 51      | 3020             |  |   |
| B 56 S 14 M 40                 | 56                                 | 5                           | 249,56  | 246,76  | 261      | 207     | 54      | 146     | 1,5     | 51      | 3020             | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| B 64 S 14 M 40                 | 64                                 | 5                           | 285,21  | 282,41  | 288      | 243     | 54      | 146     | 1,5     | 51      | 3020             |  |   |
| B 72 S 14 M 40                 | 72                                 | 7                           | 320,86  | 318,06  | –        | 279     | 54      | 146     | 1,5     | 51      | 3020             |  |   |
| B 80 S 14 M 40                 | 80                                 | 14                          | 356,51  | 353,71  | –        | 314     | 54      | 146     | 1,5     | 51      | 3020             |  |   |
| B 90 S 14 M 40                 | 90                                 | 14                          | 401,07  | 398,28  | –        | 359     | 54      | 146     | 1,5     | 51      | 3020             |  |   |
| B 112 S 14 M 40                | 112                                | 14                          | 499,11  | 496,32  | –        | 457     | 54      | 146     | 1,5     | 51      | 3020             |  |   |
| B 144 S 14 M 40                | 144                                | 14                          | 641,71  | 638,92  | –        | 600     | 54      | 146     | 1,5     | 51      | 3020             |  |   |



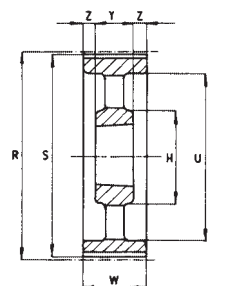
9



12

## S 14 M-55

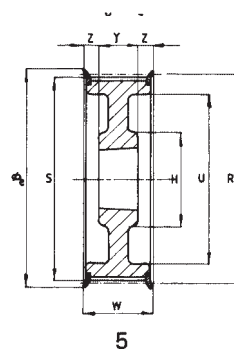
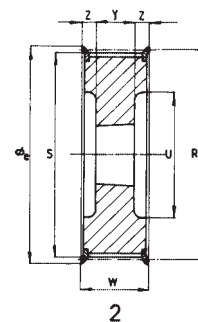
| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT®<br>code | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|------------------|--|---|
| B 28 S 14 M 55                 | 28                                 | 2                           | 124,78  | 121,98  | 134      | 98      | 70      | –       | 19      | 32      | 2012             | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| B 29 S 14 M 55                 | 29                                 | 2                           | 129,23  | 126,44  | 134      | 100     | 70      | –       | 19      | 32      | 2012             |  |   |
| B 30 S 14 M 55                 | 30                                 | 2                           | 133,69  | 130,90  | 142      | 100     | 70      | –       | 12,5    | 45      | 2517             |  |   |
| B 32 S 14 M 55                 | 32                                 | 2                           | 142,60  | 139,81  | 150      | 104     | 70      | –       | 12,5    | 45      | 2517             |  |   |
| B 34 S 14 M 55                 | 34                                 | 2                           | 151,51  | 148,72  | 158      | 110     | 70      | –       | 12,5    | 45      | 2517             |  |   |
| B 36 S 14 M 55                 | 36                                 | 2                           | 160,43  | 157,63  | 166      | 120     | 70      | –       | 12,5    | 45      | 2517             |  |   |
| B 38 S 14 M 55                 | 38                                 | 2                           | 169,34  | 166,55  | 177      | 130     | 70      | –       | 12,5    | 45      | 2517             |  |   |
| B 40 S 14 M 55                 | 40                                 | 2                           | 178,25  | 175,46  | 186      | 138     | 70      | –       | 12,5    | 45      | 2517             |  |   |
| B 44 S 14 M 55                 | 44                                 | 2                           | 196,08  | 193,28  | 209      | 154     | 70      | –       | 9,5     | 51      | 3020             |  |   |
| B 48 S 14 M 55                 | 48                                 | 2                           | 213,90  | 211,11  | 216      | 172     | 70      | –       | 9,5     | 51      | 3020             |  |   |
| B 56 S 14 M 55                 | 56                                 | 5                           | 249,56  | 246,76  | 261      | 207     | 70      | 146     | 9,5     | 51      | 3020             | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| B 64 S 14 M 55                 | 64                                 | 5                           | 285,21  | 282,41  | 288      | 243     | 70      | 146     | 9,5     | 51      | 3020             |  |   |
| B 72 S 14 M 55                 | 72                                 | 7                           | 320,86  | 318,06  | –        | 279     | 70      | 146     | 9,5     | 51      | 3020             |  |   |
| B 80 S 14 M 55                 | 80                                 | 14                          | 356,51  | 353,71  | –        | 314     | 70      | 146     | 9,5     | 51      | 3020             |  |   |
| B 90 S 14 M 55                 | 90                                 | 14                          | 401,07  | 398,28  | –        | 359     | 70      | 146     | 9,5     | 51      | 3020             |  |   |
| B 112 S 14 M 55                | 112                                | 14                          | 499,11  | 496,32  | –        | 457     | 70      | 146     | 9,5     | 51      | 3020             |  |   |
| B 144 S 14 M 55                | 144                                | 14                          | 641,71  | 638,92  | –        | 600     | 70      | 146     | 9,5     | 51      | 3020             |  |   |



14

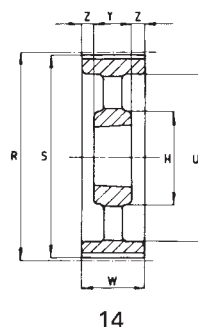
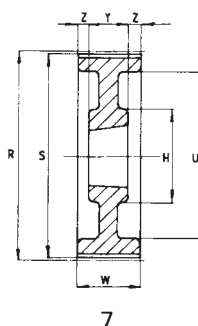
## S 14 M-85

| code<br>code<br>Code<br>código                               | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT<br>code | flange<br>flasque<br>Bord<br>valona                      | material<br>materiel<br>Werkstoff<br>material |
|--|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|-----------------|--|---|
| B 28 S 14 M 85   | 28                                 | 2                           | 124,78  | 121,98  | 134      | 98      | 102     | –       | 28,5    | 45      | 2517            | with flanges<br>avec flasques<br>mit Borde<br>con valona | cast iron - fonte - Grauguss - fundición      |
| B 29 S 14 M 85   | 29                                 | 2                           | 129,23  | 126,44  | 134      | 100     | 102     | –       | 28,5    | 45      | 2517            |  |   |
| B 30 S 14 M 85   | 30                                 | 2                           | 133,69  | 130,90  | 142      | 100     | 102     | –       | 28,5    | 45      | 2517            |  |   |
| B 32 S 14 M 85   | 32                                 | 2                           | 142,60  | 139,81  | 150      | 104     | 102     | –       | 28,5    | 45      | 2517            |  |   |
| B 34 S 14 M 85   | 34                                 | 2                           | 151,51  | 148,72  | 158      | 110     | 102     | –       | 28,5    | 45      | 2517            |  |   |
| B 36 S 14 M 85   | 36                                 | 2                           | 160,43  | 157,63  | 166      | 120     | 102     | –       | 25,5    | 51      | 3020            |  |   |
| B 38 S 14 M 85   | 38                                 | 2                           | 169,34  | 166,55  | 177      | 130     | 102     | –       | 25,5    | 51      | 3020            |  |   |
| B 40 S 14 M 85   | 40                                 | 2                           | 178,25  | 175,46  | 186      | 138     | 102     | –       | 25,5    | 51      | 3020            |  |   |
| B 44 S 14 M 85   | 44                                 | 2                           | 196,08  | 193,28  | 209      | 154     | 102     | –       | 13      | 76      | 3030            |  |   |
| B 48 S 14 M 85   | 48                                 | 2                           | 213,90  | 211,11  | 216      | 172     | 102     | –       | 13      | 76      | 3030            |  |   |
| B 56 S 14 M 85   | 56                                 | 2                           | 249,56  | 246,76  | 261      | 207     | 102     | –       | 6,5     | 89      | 3535            |  |   |
| B 64 S 14 M 85   | 64                                 | 5                           | 285,21  | 282,41  | 288      | 243     | 102     | 178     | 6,5     | 89      | 3535            |  |   |
| B 72 S 14 M 85   | 72                                 | 7                           | 320,86  | 318,06  | –        | 279     | 102     | 178     | 6,5     | 89      | 3535            |  |   |
| B 80 S 14 M 85   | 80                                 | 14                          | 356,51  | 353,71  | –        | 314     | 102     | 178     | 6,5     | 89      | 3535            |  |   |
| B 90 S 14 M 85   | 90                                 | 14                          | 401,07  | 398,28  | –        | 359     | 102     | 178     | 6,5     | 89      | 3535            |  |   |
| B 112 S 14 M 85  | 112                                | 14                          | 499,11  | 496,32  | –        | 457     | 102     | 178     | 6,5     | 89      | 3535            |  |   |
| B 144 S 14 M 85  | 144                                | 14                          | 641,71  | 638,92  | –        | 600     | 102     | 178     | 6,5     | 89      | 3535            |  |   |
| without flanges<br>sans flasques<br>ohne Borde<br>sin valona |                                    |                             |         |         |          |         |         |         |         |         |                 |  |   |



## S 14 M-115

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT<br>code | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|-----------------|--|---|
| B 28 S 14 M 115                | 28                                 | 2                           | 124,78  | 121,98  | 134      | 98      | 133     | –       | 44      | 45      | 2517            | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| B 29 S 14 M 115                | 29                                 | 2                           | 129,23  | 126,44  | 134      | 100     | 133     | –       | 44      | 45      | 2517            |  |   |
| B 30 S 14 M 115                | 30                                 | 2                           | 133,69  | 130,90  | 142      | 100     | 133     | –       | 44      | 45      | 2517            |  |   |
| B 32 S 14 M 115                | 32                                 | 2                           | 142,60  | 139,81  | 150      | 104     | 133     | –       | 44      | 45      | 2517            |  |   |
| B 34 S 14 M 115                | 34                                 | 2                           | 151,51  | 148,72  | 158      | 110     | 133     | –       | 44      | 45      | 2517            |  |   |
| B 36 S 14 M 115                | 36                                 | 2                           | 160,43  | 157,63  | 166      | 120     | 133     | –       | 41      | 51      | 3020            |  |   |
| B 38 S 14 M 115                | 38                                 | 2                           | 169,34  | 166,55  | 177      | 130     | 133     | –       | 41      | 51      | 3020            |  |   |
| B 40 S 14 M 115                | 40                                 | 2                           | 178,25  | 175,46  | 186      | 138     | 133     | –       | 41      | 51      | 3020            |  |   |
| B 44 S 14 M 115                | 44                                 | 2                           | 196,08  | 193,28  | 209      | 154     | 133     | –       | 28,5    | 76      | 3030            |  |   |
| B 48 S 14 M 115                | 48                                 | 2                           | 213,90  | 211,11  | 216      | 172     | 133     | –       | 28,5    | 76      | 3030            |  |   |
| B 56 S 14 M 115                | 56                                 | 2                           | 249,56  | 246,76  | 261      | 207     | 133     | –       | 22      | 89      | 3535            |  |   |
| B 64 S 14 M 115                | 64                                 | 5                           | 285,21  | 282,41  | 288      | 243     | 133     | 178     | 22      | 89      | 3535            |  |   |
| B 72 S 14 M 115                | 72                                 | 7                           | 320,86  | 318,06  | –        | 279     | 133     | 178     | 22      | 89      | 3535            | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| B 80 S 14 M 115                | 80                                 | 14                          | 356,51  | 353,71  | –        | 314     | 133     | 178     | 22      | 89      | 3535            |  |   |
| B 90 S 14 M 115                | 90                                 | 14                          | 401,07  | 398,28  | –        | 359     | 133     | 178     | 22      | 89      | 3535            |  |   |
| B 112 S 14 M 115               | 112                                | 14                          | 499,11  | 496,32  | –        | 457     | 133     | 178     | 22      | 89      | 3535            |  |   |
| B 144 S 14 M 115               | 144                                | 14                          | 641,71  | 638,92  | –        | 600     | 133     | 215     | 15,5    | 102     | 4040            |  |   |



## S 14 M-170

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT<br>code | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|-----------------|--|---|
| B 38 S 14 M 170                | 38                                 | 2                           | 169,34  | 166,55  | 177      | 130     | 187     | –       | 55,5    | 76      | 3030            | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte<br>Grauguss - fundición     |
| B 40 S 14 M 170                | 40                                 | 2                           | 178,25  | 175,46  | 186      | 138     | 187     | –       | 55,5    | 76      | 3030            |  |   |
| B 44 S 14 M 170                | 44                                 | 2                           | 196,08  | 193,28  | 209      | 154     | 187     | –       | 49      | 89      | 3535            |  |   |
| B 48 S 14 M 170                | 48                                 | 2                           | 213,90  | 211,11  | 216      | 172     | 187     | –       | 49      | 89      | 3535            |  |   |
| B 56 S 14 M 170                | 56                                 | 2                           | 249,56  | 246,76  | 261      | 207     | 187     | –       | 49      | 89      | 3535            |  |   |
| B 64 S 14 M 170                | 64                                 | 2                           | 285,21  | 282,41  | 288      | 243     | 187     | –       | 42,5    | 102     | 4040            | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| B 72 S 14 M 170                | 72                                 | 2                           | 320,86  | 318,06  | –        | 279     | 187     | 215     | 42,5    | 102     | 4040            |  |   |
| B 80 S 14 M 170                | 80                                 | 7                           | 356,51  | 353,71  | –        | 314     | 187     | 215     | 42,5    | 102     | 4040            |  |   |
| B 90 S 14 M 170                | 90                                 | 14                          | 401,07  | 398,28  | –        | 359     | 187     | 215     | 42,5    | 102     | 4040            |  |   |
| B 112 S 14 M 170               | 112                                | 14                          | 499,11  | 496,32  | –        | 457     | 187     | 267     | 30      | 127     | 5050            |  |   |
| B 144 S 14 M 170               | 144                                | 14                          | 641,71  | 638,92  | –        | 600     | 187     | 267     | 30      | 127     | 5050            |  |   |

# STANDARD «TOP DRIVE® HTD» TIMING PULLEYS

## POULIES DENTEES «TOP DRIVE® HTD» DE SERIE

### STANDARD-ZAHNSCHEIBEN «TOP DRIVE® HTD»

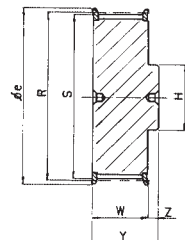
### POLEAS DENTADAS «TOP DRIVE® HTD» DE SERIE

Pitch - Pas  
Teilung - Paso

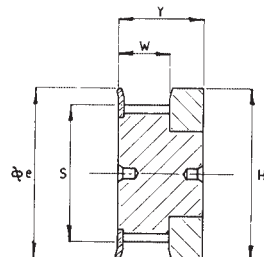
**3 mm**

**3 M 09**

| code<br>code<br>Código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | H<br>mm | W<br>mm | Y<br>mm | Z<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material   |
|------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|--|---|
| 10 - 3 M 09            | 10                                 | 3                           | 9,55    | 8,79    | 12,0     | 12,0    | 10,2    | 17,5    | 7,3     | with flanges<br>avec flasques<br>mit Borde<br>con valona     | Aluminium<br>Aluminium<br>Aluminium<br>Aluminio |
| 12 - 3 M 09            | 12                                 | 3                           | 11,46   | 10,70   | 16,0     | 15,0    | 10,2    | 17,5    | 7,3     |  |   |
| 14 - 3 M 09            | 14                                 | 3                           | 13,37   | 12,61   | 18,0     | 18,0    | 10,2    | 17,5    | 7,3     |  |   |
| 15 - 3 M 09            | 15                                 | 3                           | 14,32   | 13,56   | 16,0     | 18,0    | 10,2    | 17,5    | 7,3     |  |   |
| 16 - 3 M 09            | 16                                 | 1                           | 15,28   | 14,52   | 20,0     | 10,0    | 12,8    | 20,6    | 7,8     |  |   |
| 18 - 3 M 09            | 18                                 | 1                           | 17,19   | 16,43   | 20,0     | 11,0    | 12,8    | 20,6    | 7,8     |  |   |
| 20 - 3 M 09            | 20                                 | 1                           | 19,10   | 18,34   | 23,0     | 13,0    | 12,8    | 20,6    | 7,8     |  |   |
| 21 - 3 M 09            | 21                                 | 1                           | 20,05   | 19,29   | 24,0     | 14,0    | 12,8    | 20,6    | 7,8     |  |   |
| 22 - 3 M 09            | 22                                 | 1                           | 21,01   | 20,05   | 25,0     | 14,0    | 12,8    | 20,6    | 7,8     |  |   |
| 24 - 3 M 09            | 24                                 | 1                           | 22,92   | 22,16   | 27,0     | 14,0    | 12,8    | 20,6    | 7,8     |  |   |
| 26 - 3 M 09            | 26                                 | 1                           | 24,83   | 24,07   | 27,0     | 16,0    | 12,8    | 20,6    | 7,8     |  |   |
| 28 - 3 M 09            | 28                                 | 1                           | 26,74   | 25,98   | 30,0     | 18,0    | 12,8    | 20,6    | 7,8     |  |   |
| 30 - 3 M 09            | 30                                 | 1                           | 28,65   | 27,89   | 33,0     | 20,0    | 12,8    | 20,6    | 7,8     |  |   |
| 32 - 3 M 09            | 32                                 | 1                           | 30,56   | 29,80   | 33,0     | 22,0    | 12,8    | 20,6    | 7,8     |  |   |
| 36 - 3 M 09            | 36                                 | 1                           | 34,38   | 33,62   | 40,0     | 26,0    | 13,4    | 22,2    | 8,8     |  |   |
| 40 - 3 M 09            | 40                                 | 1                           | 38,20   | 37,44   | 46,0     | 28,0    | 13,4    | 22,2    | 8,8     |  |   |
| 44 - 3 M 09            | 44                                 | 1                           | 42,02   | 41,26   | 46,0     | 33,0    | 13,4    | 22,2    | 8,8     |  |   |
| 48 - 3 M 09            | 48                                 | 7                           | 45,84   | 45,08   | -        | 33,0    | 13,4    | 22,2    | 8,8     | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| 60 - 3 M 09            | 60                                 | 7                           | 57,30   | 56,54   | -        | 33,0    | 13,4    | 22,2    | 8,8     |  |   |
| 72 - 3 M 09            | 72                                 | 7                           | 68,75   | 67,99   | -        | 33,0    | 13,4    | 22,2    | 8,8     |  |   |



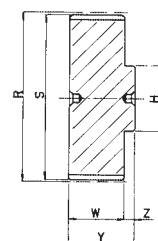
1



3

**3 M 15**

| code<br>code<br>Código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | H<br>mm | W<br>mm | Y<br>mm | Z<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material   |
|------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|--|---|
| 10 - 3 M 15            | 10                                 | 3                           | 9,55    | 8,79    | 12,0     | 12,0    | 17,0    | 26,0    | 9       | with flanges<br>avec flasques<br>mit Borde<br>con valona     | Aluminium<br>Aluminium<br>Aluminium<br>Aluminio |
| 12 - 3 M 15            | 12                                 | 3                           | 11,46   | 10,70   | 16,0     | 15,0    | 17,0    | 26,0    | 9       |  |   |
| 14 - 3 M 15            | 14                                 | 3                           | 13,37   | 12,61   | 18,0     | 18,0    | 17,0    | 26,0    | 9       |  |   |
| 15 - 3 M 15            | 15                                 | 3                           | 14,32   | 13,56   | 16,0     | 18,0    | 17,0    | 26,0    | 9       |  |   |
| 16 - 3 M 15            | 16                                 | 1                           | 15,28   | 14,52   | 20,0     | 10,0    | 19,5    | 26,0    | 6,5     |  |   |
| 18 - 3 M 15            | 18                                 | 1                           | 17,19   | 16,43   | 20,0     | 11,0    | 19,5    | 26,0    | 6,5     |  |   |
| 20 - 3 M 15            | 20                                 | 1                           | 19,10   | 18,34   | 23,0     | 13,0    | 19,5    | 26,0    | 6,5     |  |   |
| 21 - 3 M 15            | 21                                 | 1                           | 20,05   | 19,29   | 24,0     | 14,0    | 19,5    | 26,0    | 6,5     |  |   |
| 22 - 3 M 15            | 22                                 | 1                           | 21,01   | 20,05   | 25,0     | 14,0    | 19,5    | 26,0    | 6,5     |  |   |
| 24 - 3 M 15            | 24                                 | 1                           | 22,92   | 22,16   | 27,0     | 14,0    | 19,5    | 26,0    | 6,5     |  |   |
| 26 - 3 M 15            | 26                                 | 1                           | 24,83   | 24,07   | 27,0     | 16,0    | 19,5    | 26,0    | 6,5     |  |   |
| 28 - 3 M 15            | 28                                 | 1                           | 26,74   | 25,98   | 30,0     | 18,0    | 19,5    | 26,0    | 6,5     |  |   |
| 30 - 3 M 15            | 30                                 | 1                           | 28,65   | 27,89   | 33,0     | 20,0    | 19,5    | 26,0    | 6,5     |  |   |
| 32 - 3 M 15            | 32                                 | 1                           | 30,56   | 29,80   | 33,0     | 22,0    | 19,5    | 26,0    | 6,5     |  |   |
| 36 - 3 M 15            | 36                                 | 1                           | 34,38   | 33,62   | 40,0     | 26,0    | 20,0    | 30,0    | 10      |  |   |
| 40 - 3 M 15            | 40                                 | 1                           | 38,20   | 37,44   | 46,0     | 28,0    | 20,0    | 30,0    | 10      |  |   |
| 44 - 3 M 15            | 44                                 | 1                           | 42,02   | 41,26   | 46,0     | 33,0    | 20,0    | 30,0    | 10      |  |   |
| 48 - 3 M 15            | 48                                 | 7                           | 45,84   | 45,08   | -        | 33,0    | 20,0    | 30,0    | 10      | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| 60 - 3 M 15            | 60                                 | 7                           | 57,30   | 56,54   | -        | 33,0    | 20,0    | 30,0    | 10      |  |   |
| 72 - 3 M 15            | 72                                 | 7                           | 68,75   | 67,99   | -        | 33,0    | 20,0    | 30,0    | 10      |  |   |



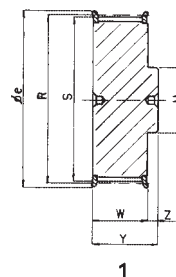
7

Pitch - Pas  
Teilung - Paso

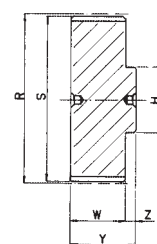
5 mm

## 5 M 09

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|--|---|
| 12 - 5 M 09                    | 12                                 | 1                           | 19,10   | 17,96   | 23       | -       | 14,5    | 13,0    | 20,0    | 5,5     | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| 14 - 5 M 09                    | 14                                 | 1                           | 22,28   | 21,14   | 24       | -       | 14,5    | 14,0    | 20,0    | 5,5     |  |   |
| 15 - 5 M 09                    | 15                                 | 1                           | 23,87   | 22,73   | 27       | -       | 14,5    | 16,0    | 20,0    | 5,5     |  |   |
| 16 - 5 M 09                    | 16                                 | 1                           | 25,47   | 24,32   | 27       | -       | 14,5    | 16,5    | 20,0    | 5,5     |  |   |
| 18 - 5 M 09                    | 18                                 | 1                           | 28,65   | 27,51   | 30       | -       | 14,5    | 20,0    | 20,0    | 5,5     |  |   |
| 20 - 5 M 09                    | 20                                 | 1                           | 31,83   | 30,69   | 33       | -       | 14,5    | 23,0    | 22,5    | 8,0     |  |   |
| 21 - 5 M 09                    | 21                                 | 1                           | 33,42   | 32,28   | 36       | -       | 14,5    | 24,0    | 22,5    | 8,0     |  |   |
| 22 - 5 M 09                    | 22                                 | 1                           | 35,01   | 33,87   | 36       | -       | 14,5    | 25,0    | 22,5    | 8,0     |  |   |
| 24 - 5 M 09                    | 24                                 | 1                           | 38,19   | 37,06   | 40       | -       | 14,5    | 27,0    | 22,5    | 8,0     |  |   |
| 26 - 5 M 09                    | 26                                 | 1                           | 41,38   | 40,24   | 46       | -       | 14,5    | 30,0    | 22,5    | 8,0     |  |   |
| 28 - 5 M 09                    | 28                                 | 1                           | 44,56   | 43,42   | 50       | -       | 14,5    | 30,5    | 22,5    | 8,0     |  |   |
| 30 - 5 M 09                    | 30                                 | 1                           | 47,75   | 46,61   | 50       | -       | 14,5    | 35,0    | 22,5    | 8,0     |  |   |
| 32 - 5 M 09                    | 32                                 | 1                           | 50,93   | 49,79   | 55       | -       | 14,5    | 38,0    | 22,5    | 8,0     |  |   |
| 36 - 5 M 09                    | 36                                 | 1                           | 57,30   | 56,16   | 62       | -       | 14,5    | 38,0    | 22,5    | 8,0     |  |   |
| 40 - 5 M 09                    | 40                                 | 1                           | 63,66   | 62,52   | 67       | -       | 14,5    | 38,0    | 22,5    | 8,0     | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | Aluminium<br>Aluminium<br>Aluminio            |
| 44 - 5 M 09                    | 44                                 | 7                           | 70,03   | 68,89   | -        | -       | 14,5    | 38,0    | 25,5    | 11,0    |  |   |
| 48 - 5 M 09                    | 48                                 | 7                           | 76,39   | 75,25   | -        | -       | 14,5    | 45,0    | 25,5    | 11,0    |  |   |
| 60 - 5 M 09                    | 60                                 | 7                           | 95,49   | 94,35   | -        | -       | 14,5    | 45,0    | 25,5    | 11,0    |  |   |
| 72 - 5 M 09                    | 72                                 | 3                           | 114,59  | 113,45  | -        | 90      | 14,5    | 45,0    | 25,5    | 11,0    |  |   |



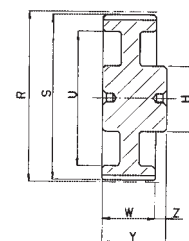
1



7

## 5 M 15

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|--|---|
| 12 - 5 M 15                    | 12                                 | 1                           | 19,10   | 17,96   | 23       | -       | 20,5    | 13,0    | 26,0    | 5,5     | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| 14 - 5 M 15                    | 14                                 | 1                           | 22,28   | 21,14   | 24       | -       | 20,5    | 14,0    | 26,0    | 5,5     |  |   |
| 15 - 5 M 15                    | 15                                 | 1                           | 23,87   | 22,73   | 27       | -       | 20,5    | 16,0    | 26,0    | 5,5     |  |   |
| 16 - 5 M 15                    | 16                                 | 1                           | 25,47   | 24,32   | 27       | -       | 20,5    | 16,5    | 26,0    | 5,5     |  |   |
| 18 - 5 M 15                    | 18                                 | 1                           | 28,65   | 27,51   | 30       | -       | 20,5    | 20,0    | 26,0    | 5,5     |  |   |
| 20 - 5 M 15                    | 20                                 | 1                           | 31,83   | 30,69   | 33       | -       | 20,5    | 23,0    | 26,0    | 5,5     |  |   |
| 21 - 5 M 15                    | 21                                 | 1                           | 33,42   | 32,28   | 36       | -       | 20,5    | 24,0    | 26,0    | 5,5     |  |   |
| 22 - 5 M 15                    | 22                                 | 1                           | 35,01   | 33,87   | 36       | -       | 20,5    | 25,5    | 26,0    | 5,5     |  |   |
| 24 - 5 M 15                    | 24                                 | 1                           | 38,19   | 37,06   | 40       | -       | 20,5    | 27,0    | 28,0    | 7,5     |  |   |
| 26 - 5 M 15                    | 26                                 | 1                           | 41,38   | 40,24   | 46       | -       | 20,5    | 30,0    | 28,0    | 7,5     |  |   |
| 28 - 5 M 15                    | 28                                 | 1                           | 44,56   | 43,42   | 50       | -       | 20,5    | 30,5    | 28,0    | 7,5     |  |   |
| 30 - 5 M 15                    | 30                                 | 1                           | 47,75   | 46,61   | 50       | -       | 20,5    | 35,0    | 28,0    | 7,5     |  |   |
| 32 - 5 M 15                    | 32                                 | 1                           | 50,93   | 49,79   | 55       | -       | 20,5    | 38,0    | 28,0    | 7,5     |  |   |
| 36 - 5 M 15                    | 36                                 | 1                           | 57,30   | 56,16   | 62       | -       | 20,5    | 38,0    | 28,0    | 7,5     |  |   |
| 40 - 5 M 15                    | 40                                 | 1                           | 63,66   | 62,52   | 67       | -       | 20,5    | 38,0    | 28,0    | 7,5     | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | Aluminium<br>Aluminium<br>Aluminio            |
| 44 - 5 M 15                    | 44                                 | 7                           | 70,03   | 68,89   | -        | -       | 20,5    | 38,0    | 30,0    | 9,5     |  |   |
| 48 - 5 M 15                    | 48                                 | 7                           | 76,39   | 75,25   | -        | -       | 20,5    | 38,0    | 30,0    | 9,5     |  |   |
| 60 - 5 M 15                    | 60                                 | 7                           | 95,49   | 94,35   | -        | -       | 20,5    | 50,0    | 30,0    | 9,5     |  |   |
| 72 - 5 M 15                    | 72                                 | 3                           | 114,59  | 113,45  | -        | 90      | 20,5    | 50,0    | 30,0    | 9,5     |  |   |



3

## 5 M 25

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|--|---|
| 12 - 5 M 25                    | 12                                 | 1                           | 19,10   | 17,96   | 23       | -       | 30,0    | 13,0    | 36,0    | 6       | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| 14 - 5 M 25                    | 14                                 | 1                           | 22,28   | 21,14   | 24       | -       | 30,0    | 14,0    | 36,0    | 6       |  |   |
| 15 - 5 M 25                    | 15                                 | 1                           | 23,87   | 22,73   | 27       | -       | 30,0    | 16,0    | 36,0    | 6       |  |   |
| 16 - 5 M 25                    | 16                                 | 1                           | 25,47   | 24,32   | 27       | -       | 30,0    | 16,5    | 36,0    | 6       |  |   |
| 18 - 5 M 25                    | 18                                 | 1                           | 28,65   | 27,51   | 30       | -       | 30,0    | 20,0    | 36,0    | 6       |  |   |
| 20 - 5 M 25                    | 20                                 | 1                           | 31,83   | 30,69   | 33       | -       | 30,0    | 23,0    | 36,0    | 6       |  |   |
| 21 - 5 M 25                    | 21                                 | 1                           | 33,42   | 32,28   | 36       | -       | 30,0    | 24,0    | 38,0    | 8       |  |   |
| 22 - 5 M 25                    | 22                                 | 1                           | 35,01   | 33,87   | 36       | -       | 30,0    | 25,5    | 38,0    | 8       |  |   |
| 24 - 5 M 25                    | 24                                 | 1                           | 38,19   | 37,06   | 40       | -       | 30,0    | 27,0    | 38,0    | 8       |  |   |
| 26 - 5 M 25                    | 26                                 | 1                           | 41,38   | 40,24   | 46       | -       | 30,0    | 30,0    | 38,0    | 8       |  |   |
| 28 - 5 M 25                    | 28                                 | 1                           | 44,56   | 43,42   | 50       | -       | 30,0    | 30,5    | 38,0    | 8       |  |   |
| 30 - 5 M 25                    | 30                                 | 1                           | 47,75   | 46,61   | 50       | -       | 30,0    | 35,0    | 38,0    | 8       |  |   |
| 32 - 5 M 25                    | 32                                 | 1                           | 50,93   | 49,79   | 55       | -       | 30,0    | 38,0    | 38,0    | 8       |  |   |
| 36 - 5 M 25                    | 36                                 | 1                           | 57,30   | 56,16   | 62       | -       | 30,0    | 38,0    | 38,0    | 8       |  |   |
| 40 - 5 M 25                    | 40                                 | 1                           | 63,66   | 62,52   | 67       | -       | 30,0    | 38,0    | 38,0    | 8       | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | Aluminium<br>Aluminium<br>Aluminio            |
| 44 - 5 M 25                    | 44                                 | 7                           | 70,03   | 68,89   | -        | -       | 30,0    | 38,0    | 40,0    | 10      |  |   |
| 48 - 5 M 25                    | 48                                 | 7                           | 76,39   | 75,25   | -        | -       | 30,0    | 38,0    | 40,0    | 10      |  |   |
| 60 - 5 M 25                    | 60                                 | 7                           | 95,49   | 94,35   | -        | -       | 30,0    | 50,0    | 40,0    | 10      |  |   |
| 72 - 5 M 25                    | 72                                 | 3                           | 114,59  | 113,45  | -        | 90      | 30,0    | 50,0    | 40,0    | 10      |  |   |

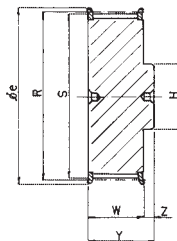


Pitch - Pas  
Teilung - Paso

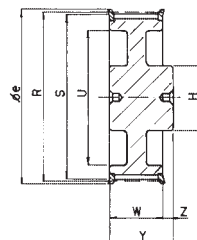
8 mm

## 8 M 20

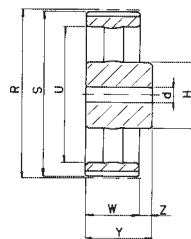
| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 18 - 8 M 20                    | 18                                 | 1                           | 45,84   | 44,46   | 50       | –       | 28      | 32      | 38      | 10      | –        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| 20 - 8 M 20                    | 20                                 | 1                           | 50,93   | 49,56   | 55       | –       | 28      | 36      | 38      | 10      | –        |  |   |
| 22 - 8 M 20                    | 22                                 | 1                           | 56,02   | 54,65   | 62       | –       | 28      | 43      | 38      | 10      | –        |  |   |
| 24 - 8 M 20                    | 24                                 | 1                           | 61,12   | 59,74   | 67       | –       | 28      | 49      | 38      | 10      | –        |  |   |
| 26 - 8 M 20                    | 26                                 | 1                           | 66,21   | 64,84   | 73       | –       | 28      | 50      | 38      | 10      | –        |  |   |
| 28 - 8 M 20                    | 28                                 | 1                           | 71,30   | 69,93   | 77       | –       | 28      | 55      | 38      | 10      | –        |  |   |
| 30 - 8 M 20                    | 30                                 | 1                           | 76,39   | 75,02   | 84       | –       | 28      | 60      | 38      | 10      | –        |  |   |
| 32 - 8 M 20                    | 32                                 | 1                           | 81,49   | 80,12   | 88       | –       | 28      | 64      | 38      | 10      | –        |  |   |
| 34 - 8 M 20                    | 34                                 | 1                           | 86,58   | 85,21   | 94       | –       | 28      | 70      | 38      | 10      | –        |  |   |
| 36 - 8 M 20                    | 36                                 | 1                           | 91,67   | 90,30   | 98       | –       | 28      | 75      | 38      | 10      | –        |  |   |
| 38 - 8 M 20                    | 38                                 | 1                           | 96,77   | 95,39   | 104      | –       | 28      | 80      | 38      | 10      | –        |  |   |
| 40 - 8 M 20                    | 40                                 | 1                           | 101,86  | 100,49  | 108      | –       | 28      | 85      | 38      | 10      | –        |  |   |
| 44 - 8 M 20                    | 44                                 | 1                           | 112,05  | 110,67  | 121      | –       | 28      | 96      | 38      | 10      | –        |  |   |
| 48 - 8 M 20                    | 48                                 | 1                           | 122,23  | 120,86  | 129      | –       | 28      | 104     | 38      | 10      | –        |  |   |
| 56 - 8 M 20                    | 56                                 | 2                           | 142,60  | 141,23  | 149      | 117     | 28      | 80      | 38      | 10      | –        | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| 60 - 8 M 20                    | 60                                 | 2                           | 152,79  | 151,42  | 158      | 127     | 28      | 80      | 38      | 10      | –        |  |   |
| 64 - 8 M 20                    | 64                                 | 2                           | 162,97  | 161,60  | 168      | 137     | 28      | 80      | 38      | 10      | –        |  |   |
| 72 - 8 M 20                    | 72                                 | 2                           | 183,35  | 181,97  | 191      | 158     | 28      | 80      | 38      | 10      | –        |  |   |
| 80 - 8 M 20                    | 80                                 | 6                           | 203,72  | 202,35  | –        | 179     | 28      | 90      | 38      | 10      | –        |  |   |
| 84 - 8 M 20                    | 84                                 | 6                           | 213,90  | 212,53  | –        | 190     | 28      | 90      | 38      | 10      | –        |  |   |
| 90 - 8 M 20                    | 90                                 | 6                           | 229,18  | 227,81  | –        | 204     | 28      | 90      | 38      | 10      | –        |  |   |
| 112 - 8 M 20                   | 112                                | 5                           | 285,21  | 283,83  | –        | 260     | 28      | 90      | 38      | 10      | 19       |  |   |
| 144 - 8 M 20                   | 144                                | 5                           | 366,69  | 365,32  | –        | 342     | 28      | 90      | 38      | 10      | 19       |  |   |
| 168 - 8 M 20                   | 168                                | 5                           | 427,80  | 426,42  | –        | 403     | 28      | 100     | 38      | 10      | 19       |  |   |
| 192 - 8 M 20                   | 192                                | 5                           | 488,92  | 487,54  | –        | 465     | 28      | 100     | 38      | 10      | 19       |  |   |



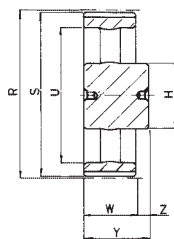
1



2



5



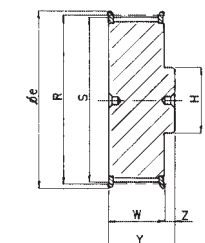
6

## 8 M-30

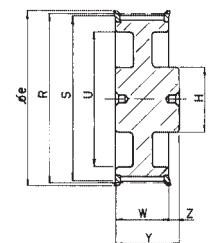
| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 18 - 8 M 30                    | 18                                 | 1                           | 45,84   | 44,46   | 50       | –       | 38      | 32      | 48      | 10      | –        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| 20 - 8 M 30                    | 20                                 | 1                           | 50,93   | 49,56   | 55       | –       | 38      | 36      | 48      | 10      | –        |  |   |
| 22 - 8 M 30                    | 22                                 | 1                           | 56,02   | 54,65   | 62       | –       | 38      | 43      | 48      | 10      | –        |  |   |
| 24 - 8 M 30                    | 24                                 | 1                           | 61,12   | 59,74   | 67       | –       | 38      | 49      | 48      | 10      | –        |  |   |
| 26 - 8 M 30                    | 26                                 | 1                           | 66,21   | 64,84   | 73       | –       | 38      | 50      | 48      | 10      | –        |  |   |
| 28 - 8 M 30                    | 28                                 | 1                           | 71,30   | 69,93   | 77       | –       | 38      | 55      | 48      | 10      | –        |  |   |
| 30 - 8 M 30                    | 30                                 | 1                           | 76,39   | 75,02   | 84       | –       | 38      | 60      | 48      | 10      | –        |  |   |
| 32 - 8 M 30                    | 32                                 | 1                           | 81,49   | 80,12   | 88       | –       | 38      | 64      | 48      | 10      | –        |  |   |
| 34 - 8 M 30                    | 34                                 | 1                           | 86,58   | 85,21   | 94       | –       | 38      | 70      | 48      | 10      | –        |  |   |
| 36 - 8 M 30                    | 36                                 | 1                           | 91,67   | 90,30   | 98       | –       | 38      | 75      | 48      | 10      | –        |  |   |
| 38 - 8 M 30                    | 38                                 | 1                           | 96,77   | 95,39   | 104      | –       | 38      | 80      | 48      | 10      | –        |  |   |
| 40 - 8 M 30                    | 40                                 | 1                           | 101,86  | 100,49  | 108      | –       | 38      | 85      | 48      | 10      | –        |  |   |
| 44 - 8 M 30                    | 44                                 | 1                           | 112,05  | 110,67  | 121      | –       | 38      | 96      | 48      | 10      | –        |  |   |
| 48 - 8 M 30                    | 48                                 | 1                           | 122,23  | 120,86  | 129      | –       | 38      | 104     | 48      | 10      | –        |  |   |
| 56 - 8 M 30                    | 56                                 | 2                           | 142,60  | 141,23  | 149      | 117     | 38      | 90      | 48      | 10      | –        | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| 60 - 8 M 30                    | 60                                 | 2                           | 152,79  | 151,42  | 158      | 127     | 38      | 90      | 48      | 10      | –        |  |   |
| 64 - 8 M 30                    | 64                                 | 2                           | 162,97  | 161,60  | 168      | 137     | 38      | 90      | 48      | 10      | –        |  |   |
| 72 - 8 M 30                    | 72                                 | 2                           | 183,35  | 181,97  | 191      | 158     | 38      | 95      | 48      | 10      | –        |  |   |
| 80 - 8 M 30                    | 80                                 | 6                           | 203,72  | 202,35  | –        | 179     | 38      | 100     | 48      | 10      | –        |  |   |
| 84 - 8 M 30                    | 84                                 | 6                           | 213,90  | 212,53  | –        | 190     | 38      | 100     | 48      | 10      | –        |  |   |
| 90 - 8 M 30                    | 90                                 | 6                           | 229,18  | 227,81  | –        | 204     | 38      | 100     | 48      | 10      | –        |  |   |
| 112 - 8 M 30                   | 112                                | 5                           | 285,21  | 283,83  | –        | 260     | 38      | 100     | 48      | 10      | 19       |  |   |
| 144 - 8 M 30                   | 144                                | 5                           | 366,69  | 365,32  | –        | 342     | 38      | 100     | 48      | 10      | 19       |  |   |
| 168 - 8 M 30                   | 168                                | 5                           | 427,80  | 426,42  | –        | 403     | 38      | 100     | 48      | 10      | 19       |  |   |
| 192 - 8 M 30                   | 192                                | 5                           | 488,92  | 487,54  | –        | 465     | 38      | 100     | 48      | 10      | 19       |  |   |

# 8 M 50

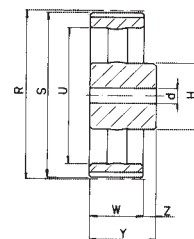
| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Stahl<br>material   |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 18 - 8 M 50                    | 18                                 | 1                           | 45,84   | 44,46   | 50       | -       | 60      | 32      | 70      | 10      | -        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero            |
| 20 - 8 M 50                    | 20                                 | 1                           | 50,93   | 49,56   | 55       | -       | 60      | 36      | 70      | 10      | -        |  |   |
| 22 - 8 M 50                    | 22                                 | 1                           | 56,02   | 54,65   | 62       | -       | 60      | 43      | 70      | 10      | -        |  |   |
| 24 - 8 M 50                    | 24                                 | 1                           | 61,12   | 59,74   | 67       | -       | 60      | 49      | 70      | 10      | -        |  |   |
| 26 - 8 M 50                    | 26                                 | 1                           | 66,21   | 64,84   | 73       | -       | 60      | 50      | 70      | 10      | -        |  |   |
| 28 - 8 M 50                    | 28                                 | 1                           | 71,30   | 69,93   | 77       | -       | 60      | 55      | 70      | 10      | -        |  |   |
| 30 - 8 M 50                    | 30                                 | 1                           | 76,39   | 75,02   | 84       | -       | 60      | 60      | 70      | 10      | -        |  |   |
| 32 - 8 M 50                    | 32                                 | 1                           | 81,49   | 80,12   | 88       | -       | 60      | 64      | 70      | 10      | -        |  |   |
| 34 - 8 M 50                    | 34                                 | 1                           | 86,58   | 85,21   | 94       | -       | 60      | 70      | 70      | 10      | -        |  |   |
| 36 - 8 M 50                    | 36                                 | 1                           | 91,67   | 90,30   | 98       | -       | 60      | 75      | 70      | 10      | -        |  |   |
| 38 - 8 M 50                    | 38                                 | 1                           | 96,77   | 95,39   | 104      | -       | 60      | 80      | 70      | 10      | -        |  |   |
| 40 - 8 M 50                    | 40                                 | 1                           | 101,86  | 100,49  | 108      | -       | 60      | 85      | 70      | 10      | -        |  |   |
| 44 - 8 M 50                    | 44                                 | 1                           | 112,05  | 110,67  | 121      | -       | 60      | 96      | 70      | 10      | -        |  |   |
| 48 - 8 M 50                    | 48                                 | 1                           | 122,23  | 120,86  | 129      | -       | 60      | 104     | 70      | 10      | -        |  |   |
| 56 - 8 M 50                    | 56                                 | 8                           | 142,60  | 141,23  | 149      | 117     | 60      | 90      | 60      | -       | -        |  |   |
| 60 - 8 M 50                    | 60                                 | 8                           | 152,79  | 151,42  | 158      | 127     | 60      | 100     | 60      | -       | -        |  |   |
| 64 - 8 M 50                    | 64                                 | 8                           | 162,97  | 161,60  | 168      | 137     | 60      | 100     | 60      | -       | -        | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición |
| 72 - 8 M 50                    | 72                                 | 8                           | 183,35  | 181,97  | 191      | 158     | 60      | 100     | 60      | -       | -        |  |   |
| 80 - 8 M 50                    | 80                                 | 9                           | 203,72  | 202,35  | -        | 179     | 60      | 110     | 60      | -       | -        |  |   |
| 84 - 8 M 50                    | 84                                 | 10                          | 213,90  | 212,53  | -        | 190     | 60      | 110     | 60      | -       | -        |  |   |
| 90 - 8 M 50                    | 90                                 | 10                          | 229,18  | 227,81  | -        | 204     | 60      | 110     | 60      | -       | -        |  |   |
| 112 - 8 M 50                   | 112                                | 11                          | 285,21  | 283,83  | -        | 260     | 60      | 110     | 60      | -       | 19       |  |   |
| 144 - 8 M 50                   | 144                                | 11                          | 366,69  | 365,32  | -        | 342     | 60      | 110     | 60      | -       | 19       |  |   |
| 168 - 8 M 50                   | 168                                | 11                          | 427,80  | 426,42  | -        | 403     | 60      | 120     | 60      | -       | 19       |  |   |
| 192 - 8 M 50                   | 192                                | 11                          | 488,92  | 487,54  | -        | 465     | 60      | 130     | 60      | -       | 19       |  |   |



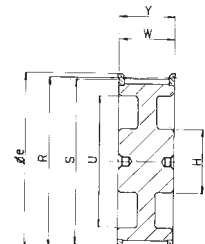
1



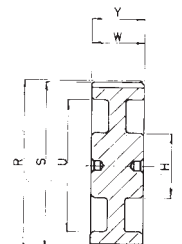
2



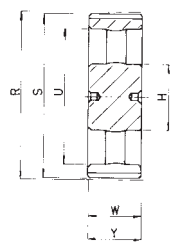
5



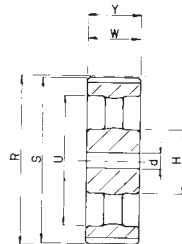
8



9



10



11

# 8 M 85

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Stahl<br>material   |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 22 - 8 M 85                    | 22                                 | 1                           | 56,02   | 54,65   | 62       | -       | 95      | 43      | 105     | 10      | -        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero            |
| 24 - 8 M 85                    | 24                                 | 1                           | 61,12   | 59,74   | 67       | -       | 95      | 49      | 105     | 10      | -        |  |   |
| 26 - 8 M 85                    | 26                                 | 1                           | 66,21   | 64,84   | 73       | -       | 95      | 50      | 105     | 10      | -        |  |   |
| 28 - 8 M 85                    | 28                                 | 1                           | 71,30   | 69,93   | 77       | -       | 95      | 55      | 105     | 10      | -        |  |   |
| 30 - 8 M 85                    | 30                                 | 1                           | 76,39   | 75,02   | 84       | -       | 95      | 60      | 105     | 10      | -        |  |   |
| 32 - 8 M 85                    | 32                                 | 1                           | 81,49   | 80,12   | 88       | -       | 95      | 64      | 105     | 10      | -        |  |   |
| 34 - 8 M 85                    | 34                                 | 1                           | 86,58   | 85,21   | 94       | -       | 95      | 70      | 105     | 10      | -        |  |   |
| 36 - 8 M 85                    | 36                                 | 1                           | 91,67   | 90,30   | 98       | -       | 95      | 75      | 105     | 10      | -        |  |   |
| 38 - 8 M 85                    | 38                                 | 1                           | 96,77   | 95,39   | 104      | -       | 95      | 80      | 105     | 10      | -        |  |   |
| 40 - 8 M 85                    | 40                                 | 1                           | 101,86  | 100,49  | 108      | -       | 95      | 85      | 105     | 10      | -        |  |   |
| 44 - 8 M 85                    | 44                                 | 1                           | 112,05  | 110,67  | 121      | -       | 95      | 96      | 105     | 10      | -        |  |   |
| 48 - 8 M 85                    | 48                                 | 1                           | 122,23  | 120,86  | 129      | -       | 95      | 104     | 105     | 10      | -        |  |   |
| 56 - 8 M 85                    | 56                                 | 1                           | 142,60  | 141,23  | 149      | -       | 95      | 107     | 105     | 10      | -        |  |   |
| 60 - 8 M 85                    | 60                                 | 1                           | 152,79  | 151,42  | 158      | -       | 95      | 132     | 105     | 10      | -        |  |   |
| 64 - 8 M 85                    | 64                                 | 8                           | 162,97  | 161,60  | 168      | 137     | 95      | 100     | 95      | -       | -        |  |   |
| 72 - 8 M 85                    | 72                                 | 8                           | 183,35  | 181,97  | 191      | 158     | 95      | 110     | 95      | -       | -        |  |   |
| 80 - 8 M 85                    | 80                                 | 9                           | 203,72  | 202,35  | -        | 179     | 95      | 110     | 95      | -       | -        | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición |
| 84 - 8 M 85                    | 84                                 | 9                           | 213,90  | 212,53  | -        | 190     | 95      | 110     | 95      | -       | -        |  |   |
| 90 - 8 M 85                    | 90                                 | 10                          | 229,18  | 227,81  | -        | 204     | 95      | 110     | 95      | -       | -        |  |   |
| 112 - 8 M 85                   | 112                                | 11                          | 285,21  | 283,83  | -        | 260     | 95      | 110     | 95      | -       | 19       |  |   |
| 144 - 8 M 85                   | 144                                | 11                          | 366,69  | 365,32  | -        | 342     | 95      | 120     | 95      | -       | 19       |  |   |
| 168 - 8 M 85                   | 168                                | 11                          | 427,80  | 426,42  | -        | 403     | 95      | 120     | 95      | -       | 19       |  |   |
| 192 - 8 M 85                   | 192                                | 11                          | 488,92  | 487,54  | -        | 465     | 95      | 130     | 95      | -       | 19       |  |   |

Pitch - Pas  
Teilung - Paso

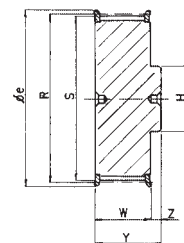
14 mm

# 14 M 40

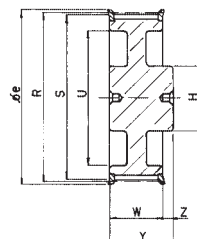
| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 28 - 14 M 40                   | 28                                 | 1                           | 124,78  | 122,12  | 134      | –       | 54      | 100     | 69      | 15      | –        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| 29 - 14 M 40                   | 29                                 | 1                           | 129,23  | 126,57  | 134      | –       | 54      | 107     | 69      | 15      | –        |  |   |
| 30 - 14 M 40                   | 30                                 | 1                           | 133,69  | 130,99  | 142      | –       | 54      | 107     | 69      | 15      | –        |  |   |
| 32 - 14 M 40                   | 32                                 | 1                           | 142,60  | 139,88  | 150      | –       | 54      | 114     | 69      | 15      | –        |  |   |
| 34 - 14 M 40                   | 34                                 | 1                           | 151,51  | 148,79  | 158      | –       | 54      | 122     | 69      | 15      | –        |  |   |
| 36 - 14 M 40                   | 36                                 | 1                           | 160,43  | 157,68  | 166      | –       | 54      | 128     | 69      | 15      | –        |  |   |
| 38 - 14 M 40                   | 38                                 | 1                           | 169,34  | 166,60  | 177      | –       | 54      | 141     | 69      | 15      | –        |  |   |
| 40 - 14 M 40                   | 40                                 | 1                           | 178,25  | 175,49  | 186      | –       | 54      | 148     | 69      | 15      | –        |  |   |
| 44 - 14 M 40                   | 44                                 | 2                           | 196,08  | 193,28  | 209      | 154     | 54      | 120     | 69      | 15      | –        |  |   |
| 48 - 14 M 40                   | 48                                 | 2                           | 213,90  | 211,11  | 216      | 172     | 54      | 135     | 69      | 15      | –        |  |   |
| 56 - 14 M 40                   | 56                                 | 2                           | 249,56  | 246,76  | 261      | 207     | 54      | 135     | 69      | 15      | –        |  |   |
| 60 - 14 M 40                   | 60                                 | 2                           | 267,38  | 264,59  | 274      | 225     | 54      | 135     | 69      | 15      | –        |  |   |
| 64 - 14 M 40                   | 64                                 | 2                           | 285,21  | 282,41  | 288      | 243     | 54      | 135     | 69      | 15      | –        |  |   |
| 72 - 14 M 40                   | 72                                 | 5                           | 320,86  | 318,06  | –        | 279     | 54      | 135     | 69      | 15      | 19       | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| 80 - 14 M 40                   | 80                                 | 5                           | 356,51  | 353,71  | –        | 314     | 54      | 135     | 69      | 15      | 19       |  |   |
| 84 - 14 M 40                   | 84                                 | 5                           | 374,33  | 371,54  | –        | 332     | 54      | 135     | 69      | 15      | 19       |  |   |
| 90 - 14 M 40                   | 90                                 | 5                           | 401,07  | 398,28  | –        | 359     | 54      | 135     | 69      | 15      | 19       |  |   |
| 112 - 14 M 40                  | 112                                | 5                           | 499,11  | 496,32  | –        | 457     | 54      | 135     | 69      | 15      | 19       |  |   |
| 144 - 14 M 40                  | 144                                | 5                           | 641,71  | 638,92  | –        | 600     | 54      | 135     | 69      | 15      | 19       |  |   |

## 14 M 55

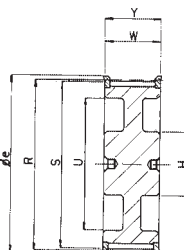
| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 28 - 14 M 55                   | 28                                 | 1                           | 124,78  | 122,12  | 134      | -       | 70      | 100     | 85      | 15      | -        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| 29 - 14 M 55                   | 29                                 | 1                           | 129,23  | 126,57  | 134      | -       | 70      | 107     | 85      | 15      | -        |  |   |
| 30 - 14 M 55                   | 30                                 | 1                           | 133,69  | 130,99  | 142      | -       | 70      | 107     | 85      | 15      | -        |  |   |
| 32 - 14 M 55                   | 32                                 | 1                           | 142,60  | 139,88  | 150      | -       | 70      | 114     | 85      | 15      | -        |  |   |
| 34 - 14 M 55                   | 34                                 | 1                           | 151,51  | 148,79  | 158      | -       | 70      | 122     | 85      | 15      | -        |  |   |
| 36 - 14 M 55                   | 36                                 | 1                           | 160,43  | 157,68  | 166      | -       | 70      | 128     | 85      | 15      | -        |  |   |
| 38 - 14 M 55                   | 38                                 | 1                           | 169,34  | 166,60  | 177      | -       | 70      | 141     | 85      | 15      | -        |  |   |
| 40 - 14 M 55                   | 40                                 | 1                           | 178,25  | 175,49  | 186      | -       | 70      | 148     | 85      | 15      | -        |  |   |
| 44 - 14 M 55                   | 44                                 | 2                           | 196,08  | 193,28  | 209      | 154     | 70      | 120     | 85      | 15      | -        |  |   |
| 48 - 14 M 55                   | 48                                 | 8                           | 213,90  | 211,11  | 216      | 172     | 70      | 135     | 70      | -       | -        |  |   |
| 56 - 14 M 55                   | 56                                 | 8                           | 249,56  | 246,76  | 261      | 207     | 70      | 135     | 70      | -       | -        |  |   |
| 60 - 14 M 55                   | 60                                 | 8                           | 267,38  | 264,59  | 274      | 225     | 70      | 135     | 70      | -       | -        |  |   |
| 64 - 14 M 55                   | 64                                 | 8                           | 285,21  | 282,41  | 288      | 243     | 70      | 135     | 70      | -       | -        |  |   |
| 72 - 14 M 55                   | 72                                 | 11                          | 320,86  | 318,06  | -        | 279     | 70      | 135     | 70      | -       | 19       | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| 80 - 14 M 55                   | 80                                 | 11                          | 356,51  | 353,71  | -        | 314     | 70      | 135     | 70      | -       | 19       |  |   |
| 84 - 14 M 55                   | 84                                 | 11                          | 374,33  | 371,54  | -        | 332     | 70      | 135     | 70      | -       | 19       |  |   |
| 90 - 14 M 55                   | 90                                 | 11                          | 401,07  | 398,28  | -        | 359     | 70      | 135     | 70      | -       | 19       |  |   |
| 112 - 14 M 55                  | 112                                | 11                          | 499,11  | 496,32  | -        | 457     | 70      | 135     | 70      | -       | 19       |  |   |
| 144 - 14 M 55                  | 144                                | 11                          | 641,71  | 638,92  | -        | 600     | 70      | 135     | 70      | -       | 19       |  |   |



1



2



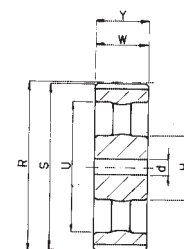
8

## 14 M 85

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 28 - 14 M 85                   | 28                                 | 1                           | 124,78  | 122,12  | 134      | -       | 102     | 100     | 117     | 15      | -        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| 29 - 14 M 85                   | 29                                 | 1                           | 129,23  | 126,57  | 134      | -       | 102     | 107     | 117     | 15      | -        |  |   |
| 30 - 14 M 85                   | 30                                 | 1                           | 133,69  | 130,99  | 142      | -       | 102     | 107     | 117     | 15      | -        |  |   |
| 32 - 14 M 85                   | 32                                 | 1                           | 142,60  | 139,88  | 150      | -       | 102     | 114     | 117     | 15      | -        |  |   |
| 34 - 14 M 85                   | 34                                 | 1                           | 151,51  | 148,79  | 158      | -       | 102     | 122     | 117     | 15      | -        |  |   |
| 36 - 14 M 85                   | 36                                 | 1                           | 160,43  | 157,68  | 166      | -       | 102     | 128     | 117     | 15      | -        |  |   |
| 38 - 14 M 85                   | 38                                 | 1                           | 169,34  | 166,60  | 177      | -       | 102     | 141     | 117     | 15      | -        |  |   |
| 40 - 14 M 85                   | 40                                 | 1                           | 178,25  | 175,49  | 186      | -       | 102     | 148     | 117     | 15      | -        |  |   |
| 44 - 14 M 85                   | 44                                 | 1                           | 196,08  | 193,28  | 209      | -       | 102     | 169     | 117     | 15      | -        |  |   |
| 48 - 14 M 85                   | 48                                 | 1                           | 213,90  | 211,11  | 216      | -       | 102     | 186     | 117     | 15      | -        |  |   |
| 56 - 14 M 85                   | 56                                 | 8                           | 249,56  | 246,76  | 261      | 207     | 102     | 150     | 102     | -       | -        | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| 60 - 14 M 85                   | 60                                 | 8                           | 267,38  | 264,59  | 274      | 225     | 102     | 150     | 102     | -       | -        |  |   |
| 64 - 14 M 85                   | 64                                 | 8                           | 285,21  | 282,41  | 288      | 243     | 102     | 150     | 102     | -       | -        |  |   |
| 72 - 14 M 85                   | 72                                 | 11                          | 320,86  | 318,06  | -        | 279     | 102     | 150     | 102     | -       | 19       |  |   |
| 80 - 14 M 85                   | 80                                 | 11                          | 356,51  | 353,71  | -        | 314     | 102     | 150     | 102     | -       | 19       |  |   |
| 84 - 14 M 85                   | 84                                 | 11                          | 374,33  | 371,54  | -        | 332     | 102     | 150     | 102     | -       | 19       |  |   |
| 90 - 14 M 85                   | 90                                 | 11                          | 401,07  | 398,28  | -        | 359     | 102     | 150     | 102     | -       | 19       |  |   |
| 112 - 14 M 85                  | 112                                | 11                          | 499,11  | 496,32  | -        | 457     | 102     | 150     | 102     | -       | 19       |  |   |
| 144 - 14 M 85                  | 144                                | 11                          | 641,71  | 638,92  | -        | 600     | 102     | 150     | 102     | -       | 19       |  |   |

## 14 M 115

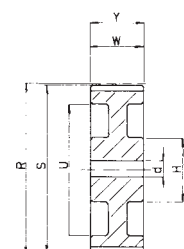
| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 28 - 14 M 115                  | 28                                 | 1                           | 124,78  | 122,12  | 134      | -       | 133     | 100     | 148     | 15      | -        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| 29 - 14 M 115                  | 29                                 | 1                           | 129,23  | 126,57  | 134      | -       | 133     | 107     | 148     | 15      | -        |  |   |
| 30 - 14 M 115                  | 30                                 | 1                           | 133,69  | 130,99  | 142      | -       | 133     | 107     | 148     | 15      | -        |  |   |
| 32 - 14 M 115                  | 32                                 | 1                           | 142,60  | 139,88  | 150      | -       | 133     | 114     | 148     | 15      | -        |  |   |
| 34 - 14 M 115                  | 34                                 | 1                           | 151,51  | 148,79  | 158      | -       | 133     | 122     | 148     | 15      | -        |  |   |
| 36 - 14 M 115                  | 36                                 | 1                           | 160,43  | 157,68  | 166      | -       | 133     | 128     | 148     | 15      | -        |  |   |
| 38 - 14 M 115                  | 38                                 | 1                           | 169,34  | 166,60  | 177      | -       | 133     | 141     | 148     | 15      | -        |  |   |
| 40 - 14 M 115                  | 40                                 | 1                           | 178,25  | 175,49  | 186      | -       | 133     | 148     | 148     | 15      | -        |  |   |
| 44 - 14 M 115                  | 44                                 | 1                           | 196,08  | 193,28  | 209      | -       | 133     | 169     | 148     | 15      | -        |  |   |
| 48 - 14 M 115                  | 48                                 | 1                           | 213,90  | 211,11  | 216      | -       | 133     | 186     | 148     | 15      | -        |  |   |
| 56 - 14 M 115                  | 56                                 | 2                           | 249,56  | 246,76  | 261      | 207     | 133     | 150     | 148     | -       | -        | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| 60 - 14 M 115                  | 60                                 | 8                           | 267,38  | 264,59  | 274      | 225     | 133     | 150     | 133     | -       | -        |  |   |
| 64 - 14 M 115                  | 64                                 | 8                           | 285,21  | 282,41  | 288      | 243     | 133     | 150     | 133     | -       | -        |  |   |
| 72 - 14 M 115                  | 72                                 | 11                          | 320,86  | 318,06  | -        | 279     | 133     | 150     | 133     | -       | 19       |  |   |
| 80 - 14 M 115                  | 80                                 | 11                          | 356,51  | 353,71  | -        | 314     | 133     | 150     | 133     | -       | 19       |  |   |
| 84 - 14 M 115                  | 84                                 | 11                          | 374,33  | 371,54  | -        | 332     | 133     | 150     | 133     | -       | 19       |  |   |
| 90 - 14 M 115                  | 90                                 | 11                          | 401,07  | 398,28  | -        | 359     | 133     | 150     | 133     | -       | 19       |  |   |
| 112 - 14 M 115                 | 112                                | 11                          | 499,11  | 496,32  | -        | 457     | 133     | 150     | 133     | -       | 19       |  |   |
| 144 - 14 M 115                 | 144                                | 11                          | 641,71  | 638,92  | -        | 600     | 133     | 150     | 133     | -       | 19       |  |   |



11

## 14 M 170

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | Ød<br>mm | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|----------|--|---|
| 28 - 14 M 170                  | 28                                 | 1                           | 124,78  | 122,12  | 134      | -       | 187     | 100     | 202     | 15      | -        | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| 29 - 14 M 170                  | 29                                 | 1                           | 129,23  | 126,57  | 134      | -       | 187     | 107     | 202     | 15      | -        |  |   |
| 30 - 14 M 170                  | 30                                 | 1                           | 133,69  | 130,99  | 142      | -       | 187     | 107     | 202     | 15      | -        |  |   |
| 32 - 14 M 170                  | 32                                 | 1                           | 142,60  | 139,88  | 150      | -       | 187     | 114     | 202     | 15      | -        |  |   |
| 34 - 14 M 170                  | 34                                 | 1                           | 151,51  | 148,79  | 158      | -       | 187     | 122     | 202     | 15      | -        |  |   |
| 36 - 14 M 170                  | 36                                 | 1                           | 160,43  | 157,68  | 166      | -       | 187     | 128     | 202     | 15      | -        |  |   |
| 38 - 14 M 170                  | 38                                 | 1                           | 169,34  | 166,60  | 177      | -       | 187     | 141     | 202     | 15      | -        |  |   |
| 40 - 14 M 170                  | 40                                 | 1                           | 178,25  | 175,49  | 186      | -       | 187     | 148     | 202     | 15      | -        |  |   |
| 44 - 14 M 170                  | 44                                 | 1                           | 196,08  | 193,28  | 209      | -       | 187     | 169     | 202     | 15      | -        |  |   |
| 48 - 14 M 170                  | 48                                 | 1                           | 213,90  | 211,11  | 216      | -       | 187     | 186     | 202     | 15      | -        |  |   |
| 56 - 14 M 170                  | 56                                 | 2                           | 249,56  | 246,76  | 261      | 207     | 187     | 160     | 202     | 15      | -        | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| 60 - 14 M 170                  | 60                                 | 2                           | 267,38  | 264,59  | 274      | 225     | 187     | 160     | 202     | 15      | -        |  |   |
| 64 - 14 M 170                  | 64                                 | 2                           | 285,21  | 282,41  | 288      | 243     | 187     | 180     | 202     | 15      | -        |  |   |
| 72 - 14 M 170                  | 72                                 | 12                          | 320,86  | 318,06  | -        | 279     | 187     | 180     | 187     | -       | 19       |  |   |
| 80 - 14 M 170                  | 80                                 | 12                          | 356,51  | 353,71  | -        | 314     | 187     | 180     | 187     | -       | 19       |  |   |
| 84 - 14 M 170                  | 84                                 | 11                          | 374,33  | 371,54  | -        | 332     | 187     | 180     | 187     | -       | 19       |  |   |
| 90 - 14 M 170                  | 90                                 | 11                          | 401,07  | 398,28  | -        | 359     | 187     | 180     | 187     | -       | 19       |  |   |
| 112 - 14 M 170                 | 112                                | 11                          | 499,11  | 496,32  | -        | 457     | 187     | 200     | 187     | -       | 19       |  |   |
| 144 - 14 M 170                 | 144                                | 11                          | 641,71  | 638,92  | -        | 600     | 187     | 220     | 187     | -       | 19       |  |   |



12

# STANDARD «TOP DRIVE® HTD» TIMING PULLEYS FOR ASSEMBLY WITH SER-SIT® CONICAL BUSHES

## POULIES DENTEES DE SERIE «TOP DRIVE® HTD» POUR MONTAGE AVEC MOYEU AMOVIBLE SER-SIT®

## STANDARD-ZAHNSCHEIBEN «TOP DRIVE® HTD» ZUR MONTAGE MIT SER-SIT® SPANNBUCHSEN

## POLEAS DENTADAS DE SERIE «TOP DRIVE® HTD» PARA MONTAJE CON BUJE CONICO SER-SIT®

Pitch - Pas  
Teilung - Paso **5 mm**

5 M 15

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Y<br>mm | Z<br>mm | SER-SIT®<br>code | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|------------------|--|---|
| B 34 - 5 M 15                  | 34                                 | 8                           | 54,11   | 52,97   | 57       | —       | 22      | —       | 22      | —       | 1008             | with flanges<br>avec flasques<br>mit Borde<br>con valona     | steel<br>acier<br>Stahl<br>acero              |
| B 36 - 5 M 15                  | 36                                 | 8                           | 57,30   | 56,16   | 62       | —       | 22      | —       | 22      | —       | 1108             |  |   |
| B 38 - 5 M 15                  | 38                                 | 8                           | 60,48   | 59,34   | 67       | —       | 22      | —       | 22      | —       | 1108             |  |   |
| B 40 - 5 M 15                  | 40                                 | 8                           | 63,66   | 62,52   | 73       | —       | 22      | —       | 22      | —       | 1108             |  |   |
| B 44 - 5 M 15                  | 44                                 | 8                           | 70,03   | 68,89   | 73       | —       | 22      | —       | 22      | —       | 1108             |  |   |
| B 48 - 5 M 15                  | 48                                 | 1                           | 76,39   | 75,25   | 84       | —       | 20,5    | 64      | 25      | 4,5     | 1210             |  |   |
| B 56 - 5 M 15                  | 56                                 | 1                           | 89,13   | 87,99   | 94       | —       | 20,5    | 70      | 25      | 4,5     | 1210             |  |   |
| B 64 - 5 M 15                  | 64                                 | 1                           | 101,86  | 100,72  | 108      | —       | 20,5    | 78      | 25      | 4,5     | 1210             |  |   |
| B 72 - 5 M 15                  | 72                                 | 1                           | 114,59  | 113,45  | 121      | —       | 20,5    | 90      | 25      | 4,5     | 1610             |  |   |
| B 80 - 5 M 15                  | 80                                 | 1                           | 127,32  | 126,18  | 131      | —       | 20,5    | 92      | 25      | 4,5     | 1610             |  |   |
| B 90 - 5 M 15                  | 90                                 | 15                          | 143,24  | 142,10  | —        | 122     | 20,5    | 92      | 25      | 4,5     | 1610             | without flanges<br>sous flasques<br>ohne Borde<br>sin valona | cast iron<br>fonte<br>Grauguss<br>fundición   |
| B 112 - 5 M 15                 | 112                                | 15                          | 178,25  | 177,11  | —        | 157     | 20,5    | 92      | 25      | 4,5     | 1610             |  |   |
| B 136 - 5 M 15                 | 136                                | 15                          | 216,45  | 215,31  | —        | 195     | 20,5    | 110     | 32      | 5,8     | 2012             |  |   |
| B 150 - 5 M 15                 | 150                                | 15                          | 238,73  | 237,59  | —        | 217     | 20,5    | 110     | 32      | 5,8     | 2012             |  |   |

Pitch - Pas  
Teilung - Paso **8 mm**

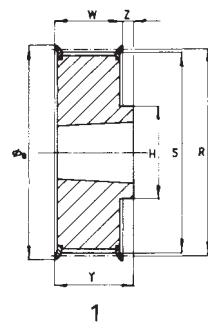
8 M 20

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT®<br>code | flange<br>flasque<br>Bord<br>valona                      | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|------------------|--|---|
| B 22 - 8 M 20                  | 22                                 | 4                           | 56,02   | 54,65   | 62       | 38      | 28      | —       | 6       | 22      | 1008             | with flanges<br>avec flasques<br>mit Borde<br>con valona | cast iron - fonte - Grauguss - fundición      |
| B 24 - 8 M 20                  | 24                                 | 4                           | 61,12   | 59,74   | 67       | 42      | 28      | —       | 6       | 22      | 1108             |  |   |
| B 26 - 8 M 20                  | 26                                 | 4                           | 66,21   | 64,84   | 73       | 45      | 28      | —       | 6       | 22      | 1108             |  |   |
| B 28 - 8 M 20                  | 28                                 | 4                           | 71,30   | 69,93   | 77       | 52      | 28      | —       | 6       | 22      | 1108             |  |   |
| B 30 - 8 M 20                  | 30                                 | 4                           | 76,39   | 75,02   | 84       | 56      | 28      | —       | 6       | 22      | 1108             |  |   |
| B 32 - 8 M 20                  | 32                                 | 4                           | 81,49   | 80,12   | 88       | 65      | 28      | —       | 3       | 25      | 1610             |  |   |
| B 34 - 8 M 20                  | 34                                 | 4                           | 86,58   | 85,21   | 94       | 66      | 28      | —       | 3       | 25      | 1610             |  |   |
| B 36 - 8 M 20                  | 36                                 | 4                           | 91,67   | 90,30   | 98       | 68      | 28      | —       | 3       | 25      | 1610             |  |   |
| B 38 - 8 M 20                  | 38                                 | 4                           | 96,77   | 95,39   | 104      | 76      | 28      | —       | 3       | 25      | 1610             |  |   |
| B 40 - 8 M 20                  | 40                                 | 4                           | 101,86  | 100,49  | 108      | 80      | 28      | —       | 3       | 25      | 1610             |  |   |
| B 44 - 8 M 20                  | 44                                 | 1                           | 112,05  | 110,67  | 121      | —       | 28      | 99      | 4       | 32      | 2012             |  |   |
| B 48 - 8 M 20                  | 48                                 | 1                           | 122,23  | 120,86  | 129      | —       | 28      | 105     | 4       | 32      | 2012             |  |   |
| B 56 - 8 M 20                  | 56                                 | 1                           | 142,60  | 141,23  | 149      | —       | 28      | 105     | 4       | 32      | 2012             |  |   |
| B 64 - 8 M 20                  | 64                                 | 6                           | 162,97  | 161,60  | 168      | 140     | 28      | 110     | 4       | 32      | 2012             |  |   |
| B 72 - 8 M 20                  | 72                                 | 6                           | 183,35  | 181,97  | 191      | 158     | 28      | 110     | 4       | 32      | 2012             |  |   |
| B 80 - 8 M 20                  | 80                                 | 9                           | 203,72  | 202,35  | —        | 178     | 28      | 110     | 4       | 32      | 2012             |  |   |
| B 90 - 8 M 20                  | 90                                 | 12                          | 229,18  | 227,81  | —        | 204     | 28      | 110     | 4       | 32      | 2012             |  |   |

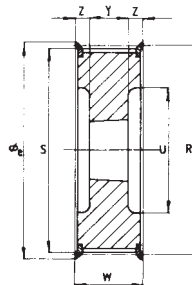
\* without flanges - sous flasques - ohne Borde - sin valona

8 M 30

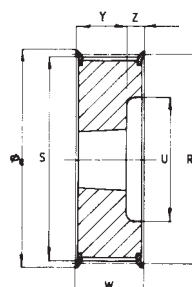
| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT®<br>code | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|------------------|--|---|
| B 22 - 8 M 30                  | 22                                 | 4                           | 56,02   | 54,65   | 62       | 38      | 38      | –       | 16      | 22      | 1008             | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| B 24 - 8 M 30                  | 24                                 | 4                           | 61,12   | 59,74   | 67       | 42      | 38      | –       | 16      | 22      | 1108             |  |   |
| B 26 - 8 M 30                  | 26                                 | 4                           | 66,21   | 64,84   | 73       | 45      | 38      | –       | 16      | 22      | 1108             |  |   |
| B 28 - 8 M 30                  | 28                                 | 4                           | 71,30   | 69,93   | 77       | 52      | 38      | –       | 16      | 22      | 1108             |  |   |
| B 30 - 8 M 30                  | 30                                 | 8                           | 76,39   | 75,02   | 84       | –       | 38      | –       | –       | 38      | 1615             |  |   |
| B 32 - 8 M 30                  | 32                                 | 8                           | 81,49   | 80,12   | 88       | –       | 38      | –       | –       | 38      | 1615             |  |   |
| B 34 - 8 M 30                  | 34                                 | 8                           | 86,58   | 85,21   | 94       | –       | 38      | –       | –       | 38      | 1615             |  |   |
| B 36 - 8 M 30                  | 36                                 | 8                           | 91,67   | 90,30   | 98       | –       | 38      | –       | –       | 38      | 1615             |  |   |
| B 38 - 8 M 30                  | 38                                 | 8                           | 96,77   | 95,39   | 104      | –       | 38      | –       | –       | 38      | 1615             |  |   |
| B 40 - 8 M 30                  | 40                                 | 8                           | 101,86  | 100,49  | 108      | –       | 38      | –       | –       | 38      | 1615             |  |   |
| B 44 - 8 M 30                  | 44                                 | 8                           | 112,05  | 110,67  | 121      | 90      | 38      | –       | 3       | 32      | 2012             |  |   |
| B 48 - 8 M 30                  | 48                                 | 8                           | 122,23  | 120,86  | 129      | 98      | 38      | –       | 3       | 32      | 2012             |  |   |
| B 56 - 8 M 30                  | 56                                 | 2                           | 142,60  | 141,23  | 149      | 118     | 38      | –       | 3       | 32      | 2012             |  |   |
| B 64 - 8 M 30                  | 64                                 | 2                           | 162,97  | 161,60  | 168      | 140     | 38      | 120     | 7       | 45      | 2517             |  |   |
| B 72 - 8 M 30                  | 72                                 | 6                           | 183,35  | 181,97  | 191      | 158     | 38      | 120     | 7       | 45      | 2517             |  |   |
| B 80 - 8 M 30                  | 80                                 | 6                           | 203,72  | 202,35  | –        | 178     | 38      | 120     | 7       | 45      | 2517             |  |   |
| B 90 - 8 M 30                  | 90                                 | 12                          | 229,18  | 227,81  | –        | 204     | 38      | 120     | 7       | 45      | 2517             |  |   |
| B 112 - 8 M 30                 | 112                                | 12                          | 285,21  | 283,83  | –        | 260     | 38      | 120     | 7       | 45      | 2517             | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| B 144 - 8 M 30                 | 144                                | 12                          | 366,69  | 365,32  | –        | 341     | 38      | 120     | 7       | 45      | 2517             |  |   |



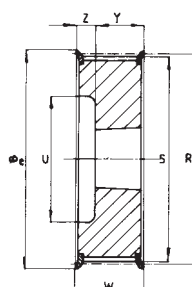
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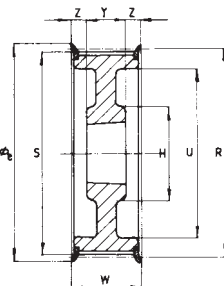
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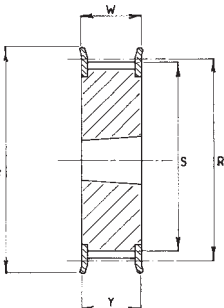
3



4



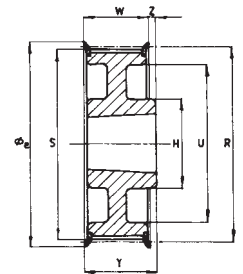
5



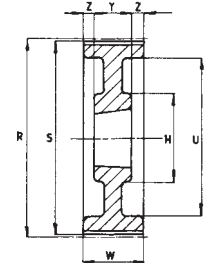
6

## 8 M 50

| code<br>code<br>Code<br>código                               | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT®<br>code | flange<br>flasque<br>Bord<br>valona                      | material<br>materiel<br>Werkstoff<br>material |
|--|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|------------------|--|---|
| B 28 - 8 M 50  | 28                                 | 2                           | 71,30   | 69,93   | 77       | 52      | 60      | –       | 19      | 22      | 1108             | with flanges<br>avec flasques<br>mit Borde<br>con valona | cast iron - fonte - Grauguss - fundición      |
| B 30 - 8 M 50  | 30                                 | 4                           | 76,39   | 75,02   | 84       | 58      | 60      | –       | 22      | 38      | 1615             |  |   |
| B 32 - 8 M 50  | 32                                 | 4                           | 81,49   | 80,12   | 88       | 60      | 60      | –       | 22      | 38      | 1615             |  |   |
| B 34 - 8 M 50  | 34                                 | 4                           | 86,58   | 85,21   | 94       | 66      | 60      | –       | 22      | 38      | 1615             |  |   |
| B 36 - 8 M 50  | 36                                 | 4                           | 91,67   | 90,30   | 98       | 68      | 60      | –       | 22      | 38      | 1615             |  |   |
| B 38 - 8 M 50  | 38                                 | 4                           | 96,77   | 95,39   | 104      | 75      | 60      | –       | 22      | 38      | 1615             |  |   |
| B 40 - 8 M 50  | 40                                 | 2                           | 101,86  | 100,49  | 108      | 80      | 38      | –       | 14      | 32      | 2012             |  |   |
| B 44 - 8 M 50  | 44                                 | 2                           | 112,05  | 110,67  | 121      | 90      | 38      | –       | 14      | 32      | 2012             |  |   |
| B 48 - 8 M 50  | 48                                 | 2                           | 122,23  | 120,86  | 129      | 100     | 38      | –       | 14      | 32      | 2012             |  |   |
| B 56 - 8 M 50  | 56                                 | 2                           | 142,60  | 141,23  | 149      | 120     | 38      | –       | 7,5     | 45      | 2517             |  |   |
| B 64 - 8 M 50  | 64                                 | 5                           | 162,97  | 161,60  | 168      | 138     | 60      | 120     | 7,5     | 45      | 2517             |  |   |
| B 72 - 8 M 50  | 72                                 | 5                           | 183,35  | 181,97  | 191      | 158     | 60      | 120     | 7,5     | 45      | 2517             |  |   |
| B 80 - 8 M 50  | 80                                 | 7                           | 203,72  | 202,35  | –        | 178     | 60      | 140     | 4,5     | 51      | 3020             |  |   |
| B 90 - 8 M 50  | 90                                 | 7                           | 229,18  | 227,81  | –        | 204     | 60      | 146     | 4,5     | 51      | 3020             |  |   |
| B 112 - 8 M 50   | 112                                | 14                          | 285,21  | 283,83  | –        | 260     | 60      | 146     | 4,5     | 51      | 3020             |  |   |
| B 144 - 8 M 50   | 144                                | 14                          | 366,69  | 365,32  | –        | 341     | 60      | 146     | 4,5     | 51      | 3020             |  |   |
| B 168 - 8 M 50   | 168                                | 14                          | 427,80  | 426,42  | –        | 402     | 60      | 146     | 4,5     | 51      | 3020             |  |   |
| B 192 - 8 M 50   | 192                                | 14                          | 488,92  | 487,54  | –        | 462     | 60      | 146     | 4,5     | 51      | 3020             |  |   |
| without flanges<br>sous flasques<br>ohne Borde<br>sin valona |                                    |                             |         |         |          |         |         |         |         |         |                  |  |   |



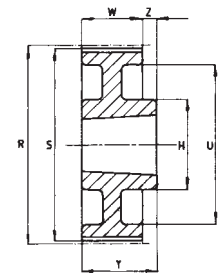
6



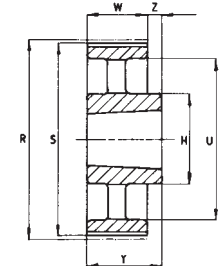
7

## 8 M 85

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT®<br>code | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|------------------|--|---|
| B 34 - 8 M 85                  | 34                                 | 2                           | 86,58   | 85,21   | 94       | 66      | 95      | –       | 28,5    | 38      | 1615             | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| B 36 - 8 M 85                  | 36                                 | 2                           | 91,67   | 90,30   | 98       | 68      | 95      | –       | 28,5    | 38      | 1615             |  |   |
| B 38 - 8 M 85                  | 38                                 | 2                           | 96,77   | 95,39   | 104      | 75      | 95      | –       | 28,5    | 38      | 1615             |  |   |
| B 40 - 8 M 85                  | 40                                 | 2                           | 101,86  | 100,49  | 108      | 80      | 95      | –       | 31,5    | 32      | 2012             |  |   |
| B 44 - 8 M 85                  | 44                                 | 2                           | 112,05  | 110,67  | 121      | 90      | 95      | –       | 31,5    | 32      | 2012             |  |   |
| B 48 - 8 M 85                  | 48                                 | 2                           | 122,23  | 120,86  | 129      | 100     | 95      | –       | 25      | 45      | 2517             |  |   |
| B 56 - 8 M 85                  | 56                                 | 2                           | 142,60  | 141,23  | 149      | 120     | 95      | –       | 25      | 45      | 2517             |  |   |
| B 64 - 8 M 85                  | 64                                 | 2                           | 162,97  | 161,60  | 168      | 138     | 95      | –       | 25      | 45      | 2517             |  |   |
| B 72 - 8 M 85                  | 72                                 | 2                           | 183,35  | 181,97  | 191      | 158     | 95      | –       | 22      | 51      | 3020             |  |   |
| B 80 - 8 M 85                  | 80                                 | 7                           | 203,72  | 202,35  | –        | 178     | 95      | 140     | 22      | 51      | 3020             |  |   |
| B 90 - 8 M 85                  | 90                                 | 7                           | 229,18  | 227,81  | –        | 204     | 95      | 146     | 22      | 51      | 3020             |  |   |
| B 112 - 8 M 85                 | 112                                | 14                          | 285,21  | 283,83  | –        | 260     | 95      | 146     | 22      | 51      | 3020             | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| B 144 - 8 M 85                 | 144                                | 14                          | 366,69  | 365,32  | –        | 341     | 95      | 140     | 9,5     | 76      | 3030             |  |   |
| B 168 - 8 M 85                 | 168                                | 14                          | 427,80  | 426,42  | –        | 402     | 95      | 140     | 9,5     | 76      | 3030             |  |   |
| B 192 - 8 M 85                 | 192                                | 14                          | 488,92  | 487,54  | –        | 462     | 95      | 140     | 9,5     | 76      | 3030             |  |   |



9



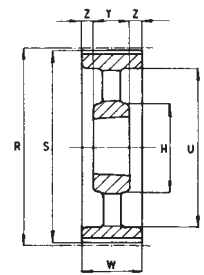
12

Pitch - Pas  
Teilung - Paso

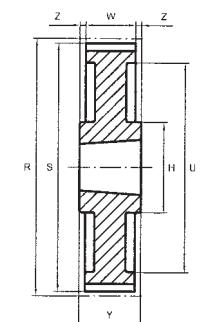
14 mm

## 14 M 40

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT®<br>code | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|------------------|--|---|
| B 28 - 14 M 40                 | 28                                 | 2                           | 124,78  | 122,12  | 134      | 98      | 54      | –       | 11      | 32      | 2012             | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| B 29 - 14 M 40                 | 29                                 | 2                           | 129,23  | 126,57  | 134      | 100     | 54      | –       | 11      | 32      | 2012             |  |   |
| B 30 - 14 M 40                 | 30                                 | 2                           | 133,69  | 130,99  | 142      | 100     | 54      | –       | 11      | 32      | 2012             |  |   |
| B 32 - 14 M 40                 | 32                                 | 2                           | 142,60  | 139,88  | 150      | 104     | 54      | –       | 11      | 32      | 2012             |  |   |
| B 34 - 14 M 40                 | 34                                 | 2                           | 151,52  | 148,79  | 158      | 110     | 54      | –       | 4,5     | 45      | 2517             |  |   |
| B 36 - 14 M 40                 | 36                                 | 2                           | 160,43  | 157,68  | 166      | 120     | 54      | –       | 4,5     | 45      | 2517             |  |   |
| B 38 - 14 M 40                 | 38                                 | 2                           | 169,34  | 166,60  | 177      | 130     | 54      | –       | 4,5     | 45      | 2517             |  |   |
| B 40 - 14 M 40                 | 40                                 | 2                           | 178,25  | 175,49  | 186      | 138     | 54      | –       | 4,5     | 45      | 2517             |  |   |
| B 44 - 14 M 40                 | 44                                 | 2                           | 196,08  | 193,28  | 209      | 154     | 54      | –       | 1,5     | 51      | 3020             |  |   |
| B 48 - 14 M 40                 | 48                                 | 2                           | 213,90  | 211,11  | 216      | 172     | 54      | –       | 1,5     | 51      | 3020             |  |   |
| B 56 - 14 M 40                 | 56                                 | 5                           | 249,56  | 246,76  | 261      | 207     | 54      | 146     | 1,5     | 51      | 3020             |  |   |
| B 64 - 14 M 40                 | 64                                 | 5                           | 285,21  | 282,41  | 288      | 243     | 54      | 146     | 1,5     | 51      | 3020             |  |   |
| B 72 - 14 M 40                 | 72                                 | 7                           | 320,86  | 318,06  | –        | 279     | 54      | 146     | 1,5     | 51      | 3020             | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| B 80 - 14 M 40                 | 80                                 | 14                          | 356,51  | 353,71  | –        | 314     | 54      | 146     | 1,5     | 51      | 3020             |  |   |
| B 90 - 14 M 40                 | 90                                 | 14                          | 401,07  | 398,28  | –        | 359     | 54      | 146     | 1,5     | 51      | 3020             |  |   |
| B 112 - 14 M 40                | 112                                | 14                          | 499,11  | 496,32  | –        | 457     | 54      | 146     | 1,5     | 51      | 3020             |  |   |
| B 144 - 14 M 40                | 144                                | 14                          | 641,71  | 638,92  | –        | 600     | 54      | 146     | 1,5     | 51      | 3020             |  |   |
| B 168 - 14 M 40                | 168                                | 14                          | 784,66  | 745,87  | –        | 705     | 54      | 146     | 1,5     | 51      | 3020             |  |   |
| B 192 - 14 M 40                | 192                                | 12                          | 855,62  | 852,82  | –        | 812     | 54      | 178     | 35      | 89      | 3535             |  |   |
| B 216 - 14 M 40                | 216                                | 12                          | 962,57  | 959,77  | –        | 920     | 54      | 178     | 35      | 89      | 3535             |  |   |
| B 264 - 14 M 40                | 264                                | 12                          | 1176,47 | 1173,67 | –        | 1133    | 54      | 178     | 35      | 89      | 3535             |  |   |



14

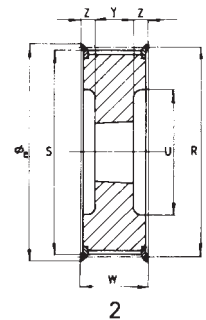


15

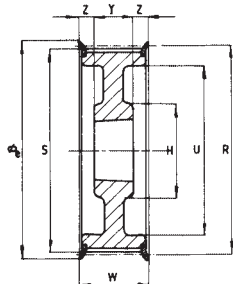


# 14 M 55

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT®<br>code | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|------------------|--|---|
| B 28 - 14 M 55                 | 28                                 | 2                           | 124,78  | 122,12  | 134      | 98      | 70      | –       | 19      | 32      | 2012             | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| B 29 - 14 M 55                 | 29                                 | 2                           | 129,23  | 126,57  | 134      | 100     | 70      | –       | 19      | 32      | 2012             |  |   |
| B 30 - 14 M 55                 | 30                                 | 2                           | 133,69  | 130,99  | 142      | 100     | 70      | –       | 12,5    | 45      | 2517             |  |   |
| B 32 - 14 M 55                 | 32                                 | 2                           | 142,60  | 139,88  | 150      | 104     | 70      | –       | 12,5    | 45      | 2517             |  |   |
| B 34 - 14 M 55                 | 34                                 | 2                           | 151,52  | 148,79  | 158      | 110     | 70      | –       | 12,5    | 45      | 2517             |  |   |
| B 36 - 14 M 55                 | 36                                 | 2                           | 160,43  | 157,68  | 166      | 120     | 70      | –       | 12,5    | 45      | 2517             |  |   |
| B 38 - 14 M 55                 | 38                                 | 2                           | 169,34  | 166,60  | 177      | 130     | 70      | –       | 12,5    | 45      | 2517             |  |   |
| B 40 - 14 M 55                 | 40                                 | 2                           | 178,25  | 175,49  | 186      | 138     | 70      | –       | 12,5    | 45      | 2517             |  |   |
| B 44 - 14 M 55                 | 44                                 | 2                           | 196,08  | 193,28  | 209      | 154     | 70      | –       | 9,5     | 51      | 3020             |  |   |
| B 48 - 14 M 55                 | 48                                 | 2                           | 213,90  | 211,11  | 216      | 172     | 70      | –       | 9,5     | 51      | 3020             |  |   |
| B 56 - 14 M 55                 | 56                                 | 5                           | 249,56  | 246,76  | 261      | 207     | 70      | 146     | 9,5     | 51      | 3020             |  |   |
| B 64 - 14 M 55                 | 64                                 | 5                           | 285,21  | 282,41  | 288      | 243     | 70      | 146     | 9,5     | 51      | 3020             |  |   |
| B 72 - 14 M 55                 | 72                                 | 7                           | 320,86  | 318,06  | –        | 279     | 70      | 146     | 9,5     | 51      | 3020             | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| B 80 - 14 M 55                 | 80                                 | 14                          | 356,51  | 353,71  | –        | 314     | 70      | 146     | 9,5     | 51      | 3020             |  |   |
| B 90 - 14 M 55                 | 90                                 | 14                          | 401,07  | 398,28  | –        | 359     | 70      | 146     | 9,5     | 51      | 3020             |  |   |
| B 112 - 14 M 55                | 112                                | 14                          | 499,11  | 496,32  | –        | 457     | 70      | 146     | 9,5     | 51      | 3020             |  |   |
| B 144 - 14 M 55                | 144                                | 14                          | 641,71  | 638,92  | –        | 600     | 70      | 146     | 9,5     | 51      | 3020             |  |   |
| B 168 - 14 M 55                | 168                                | 14                          | 784,66  | 745,87  | –        | 705     | 70      | 146     | 9,5     | 51      | 3020             |  |   |
| B 192 - 14 M 55                | 192                                | 12                          | 855,62  | 852,82  | –        | 812     | 70      | 178     | 19      | 89      | 3535             |  |   |
| B 216 - 14 M 55                | 216                                | 12                          | 962,57  | 959,77  | –        | 920     | 70      | 178     | 19      | 89      | 3535             |  |   |
| B 264 - 14 M 55                | 264                                | 12                          | 1176,47 | 1173,67 | –        | 1133    | 70      | 178     | 19      | 89      | 3535             |  |   |



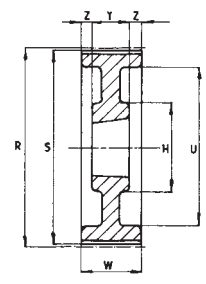
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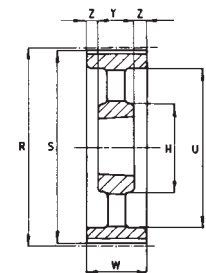
5

# 14 M 85

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT®<br>code | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|------------------|--|---|
| B 28 - 14 M 85                 | 28                                 | 2                           | 124,78  | 122,12  | 134      | 98      | 102     | –       | 28,5    | 45      | 2517             | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| B 29 - 14 M 85                 | 29                                 | 2                           | 129,23  | 126,57  | 134      | 100     | 102     | –       | 28,5    | 45      | 2517             |  |   |
| B 30 - 14 M 85                 | 30                                 | 2                           | 133,69  | 130,99  | 142      | 100     | 102     | –       | 28,5    | 45      | 2517             |  |   |
| B 32 - 14 M 85                 | 32                                 | 2                           | 142,60  | 139,88  | 150      | 104     | 102     | –       | 28,5    | 45      | 2517             |  |   |
| B 34 - 14 M 85                 | 34                                 | 2                           | 151,52  | 148,79  | 158      | 110     | 102     | –       | 28,5    | 45      | 2517             |  |   |
| B 36 - 14 M 85                 | 36                                 | 2                           | 160,43  | 157,68  | 166      | 120     | 102     | –       | 25,5    | 51      | 3020             |  |   |
| B 38 - 14 M 85                 | 38                                 | 2                           | 169,34  | 166,60  | 177      | 130     | 102     | –       | 25,5    | 51      | 3020             |  |   |
| B 40 - 14 M 85                 | 40                                 | 2                           | 178,25  | 175,49  | 186      | 138     | 102     | –       | 25,5    | 51      | 3020             |  |   |
| B 44 - 14 M 85                 | 44                                 | 2                           | 196,08  | 193,28  | 209      | 154     | 102     | –       | 13      | 76      | 3030             |  |   |
| B 48 - 14 M 85                 | 48                                 | 2                           | 213,90  | 211,11  | 216      | 172     | 102     | –       | 13      | 76      | 3030             |  |   |
| B 56 - 14 M 85                 | 56                                 | 2                           | 249,56  | 246,76  | 261      | 207     | 102     | –       | 6,5     | 89      | 3535             |  |   |
| B 64 - 14 M 85                 | 64                                 | 5                           | 285,21  | 282,41  | 288      | 243     | 102     | 178     | 6,5     | 89      | 3535             |  |   |
| B 72 - 14 M 85                 | 72                                 | 7                           | 320,86  | 318,06  | –        | 279     | 102     | 178     | 6,5     | 89      | 3535             | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| B 80 - 14 M 85                 | 80                                 | 14                          | 356,51  | 353,71  | –        | 314     | 102     | 178     | 6,5     | 89      | 3535             |  |   |
| B 90 - 14 M 85                 | 90                                 | 14                          | 401,07  | 398,28  | –        | 359     | 102     | 178     | 6,5     | 89      | 3535             |  |   |
| B 112 - 14 M 85                | 112                                | 14                          | 499,11  | 496,32  | –        | 457     | 102     | 178     | 6,5     | 89      | 3535             |  |   |
| B 144 - 14 M 85                | 144                                | 14                          | 641,71  | 638,92  | –        | 600     | 102     | 178     | 6,5     | 89      | 3535             |  |   |
| B 168 - 14 M 85                | 168                                | 14                          | 784,66  | 745,87  | –        | 705     | 102     | 178     | 6,5     | 89      | 3535             |  |   |
| B 192 - 14 M 85                | 192                                | 14                          | 855,62  | 852,82  | –        | 812     | 102     | 215     | 0       | 102     | 4040             |  |   |
| B 216 - 14 M 85                | 216                                | 14                          | 962,57  | 959,77  | –        | 920     | 102     | 215     | 0       | 102     | 4040             |  |   |
| B 264 - 14 M 85                | 264                                | 14                          | 1176,47 | 1173,67 | –        | 1133    | 102     | 215     | 0       | 102     | 4040             |  |   |



7



14

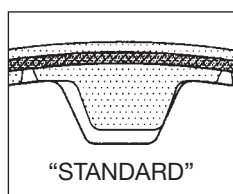
# 14 M 115

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT®<br>code | flange<br>flasque<br>Bord<br>valona                          | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|------------------|--|---|
| B 28 - 14 M 115                | 28                                 | 2                           | 124,78  | 122,12  | 134      | 98      | 133     | –       | 44      | 45      | 2517             | with flanges<br>avec flasques<br>mit Borde<br>con valona     | cast iron - fonte - Grauguss - fundición      |
| B 29 - 14 M 115                | 29                                 | 2                           | 129,23  | 126,57  | 134      | 100     | 133     | –       | 44      | 45      | 2517             |  |   |
| B 30 - 14 M 115                | 30                                 | 2                           | 133,69  | 130,99  | 142      | 100     | 133     | –       | 44      | 45      | 2517             |  |   |
| B 32 - 14 M 115                | 32                                 | 2                           | 142,60  | 139,88  | 150      | 104     | 133     | –       | 44      | 45      | 2517             |  |   |
| B 34 - 14 M 115                | 34                                 | 2                           | 151,52  | 148,79  | 158      | 110     | 133     | –       | 44      | 45      | 2517             |  |   |
| B 36 - 14 M 115                | 36                                 | 2                           | 160,43  | 157,68  | 166      | 120     | 133     | –       | 41      | 51      | 3020             |  |   |
| B 38 - 14 M 115                | 38                                 | 2                           | 169,34  | 166,60  | 177      | 130     | 133     | –       | 41      | 51      | 3020             |  |   |
| B 40 - 14 M 115                | 40                                 | 2                           | 178,25  | 175,49  | 186      | 138     | 133     | –       | 41      | 51      | 3020             |  |   |
| B 44 - 14 M 115                | 44                                 | 2                           | 196,08  | 193,28  | 209      | 154     | 133     | –       | 28,5    | 76      | 3030             |  |   |
| B 48 - 14 M 115                | 48                                 | 2                           | 213,90  | 211,11  | 216      | 172     | 133     | –       | 28,5    | 76      | 3030             |  |   |
| B 56 - 14 M 115                | 56                                 | 2                           | 249,56  | 246,76  | 261      | 207     | 133     | –       | 22      | 89      | 3535             |  |   |
| B 64 - 14 M 115                | 64                                 | 5                           | 285,21  | 282,41  | 288      | 243     | 133     | 178     | 22      | 89      | 3535             |  |   |
| B 72 - 14 M 115                | 72                                 | 7                           | 320,86  | 318,06  | –        | 279     | 133     | 178     | 22      | 89      | 3535             | without flanges<br>sous flasques<br>ohne Borde<br>sin valona |   |
| B 80 - 14 M 115                | 80                                 | 14                          | 356,51  | 353,71  | –        | 314     | 133     | 178     | 22      | 89      | 3535             |  |   |
| B 90 - 14 M 115                | 90                                 | 14                          | 401,07  | 398,28  | –        | 359     | 133     | 178     | 22      | 89      | 3535             |  |   |
| B 112 - 14 M 115               | 112                                | 14                          | 499,11  | 496,32  | –        | 457     | 133     | 178     | 22      | 89      | 3535             |  |   |
| B 144 - 14 M 115               | 144                                | 14                          | 641,71  | 638,92  | –        | 600     | 133     | 215     | 15,5    | 102     | 4040             |  |   |
| B 168 - 14 M 115               | 168                                | 14                          | 784,66  | 745,87  | –        | 705     | 133     | 215     | 15,5    | 102     | 4040             |  |   |
| B 192 - 14 M 115               | 192                                | 14                          | 855,62  | 852,82  | –        | 812     | 133     | 215     | 15,5    | 102     | 4040             |  |   |
| B 216 - 14 M 115               | 216                                | 14                          | 962,57  | 959,77  | –        | 920     | 133     | 215     | 15,5    | 102     | 4040             |  |   |
| B 264 - 14 M 115               | 264                                | 14                          | 1176,47 | 1173,67 | –        | 1133    | 133     | 267     | 3       | 127     | 5050             |  |   |

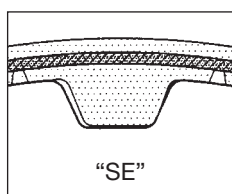
# 14 M 170

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | R<br>mm | S<br>mm | Øe<br>mm | U<br>mm | W<br>mm | H<br>mm | Z<br>mm | Y<br>mm | SER-SIT®<br>code | flange<br>flasque<br>Bord<br>valona                                      | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|------------------|--|---|
| B 38 - 14 M 170                | 38                                 | 2                           | 169,34  | 166,60  | 177      | 130     | 187     | –       | 55,5    | 76      | 3030             | with<br>flanges<br>avec<br>flasques<br>mit<br>Borde<br>con<br>valona     | cast iron - fonte - Grauguss - fundición      |
| B 40 - 14 M 170                | 40                                 | 2                           | 178,25  | 175,49  | 186      | 138     | 187     | –       | 55,5    | 76      | 3030             |  |   |
| B 44 - 14 M 170                | 44                                 | 2                           | 196,08  | 193,28  | 209      | 154     | 187     | –       | 49      | 89      | 3535             |  |   |
| B 48 - 14 M 170                | 48                                 | 2                           | 213,90  | 211,11  | 216      | 172     | 187     | –       | 49      | 89      | 3535             |  |   |
| B 56 - 14 M 170                | 56                                 | 2                           | 249,56  | 246,76  | 261      | 207     | 187     | –       | 49      | 89      | 3535             |  |   |
| B 64 - 14 M 170                | 64                                 | 2                           | 285,21  | 282,41  | 288      | 243     | 187     | –       | 42,5    | 102     | 4040             |  |   |
| B 72 - 14 M 170                | 72                                 | 7                           | 320,86  | 318,06  | –        | 279     | 187     | 215     | 42,5    | 102     | 4040             | without<br>flanges<br>sous<br>flasques<br>ohne<br>Borde<br>sin<br>valona |   |
| B 80 - 14 M 170                | 80                                 | 7                           | 356,51  | 353,71  | –        | 314     | 187     | 215     | 42,5    | 102     | 4040             |  |   |
| B 90 - 14 M 170                | 90                                 | 14                          | 401,07  | 398,28  | –        | 359     | 187     | 215     | 42,5    | 102     | 4040             |  |   |
| B 112 - 14 M 170               | 112                                | 14                          | 499,11  | 496,32  | –        | 457     | 187     | 267     | 30      | 127     | 5050             |  |   |
| B 144 - 14 M 170               | 144                                | 14                          | 641,71  | 638,92  | –        | 600     | 187     | 267     | 30      | 127     | 5050             |  |   |
| B 168 - 14 M 170               | 168                                | 14                          | 784,66  | 745,87  | –        | 705     | 187     | 267     | 30      | 127     | 5050             |  |   |
| B 192 - 14 M 170               | 192                                | 14                          | 855,62  | 852,82  | –        | 812     | 187     | 267     | 30      | 127     | 5050             |  |   |
| B 216 - 14 M 170               | 216                                | 14                          | 962,57  | 959,77  | –        | 920     | 187     | 267     | 30      | 127     | 5050             |  |   |
| B 264 - 14 M 170               | 264                                | 14                          | 1176,47 | 1173,67 | –        | 1133    | 187     | 267     | 30      | 127     | 5050             |  |   |

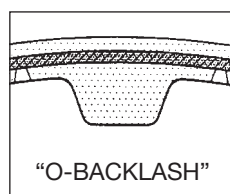
## STANDARD METRIC PITCH TIMING PULLEYS POULIES DENTEES DE SERIE AVEC PAS METRIQUE STANDARD-ZAHNSCHEIBEN MIT METRISCHE TEILUNG POLEAS DENTADAS DE SERIE CON PASO METRICO



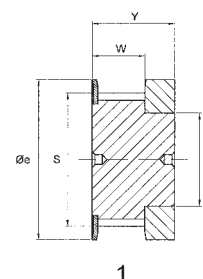
Z > 20



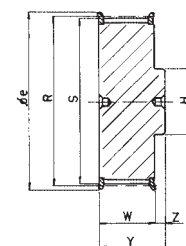
Z < 20



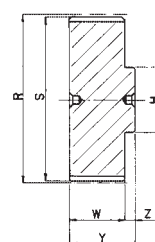
on request



1



2



3

Pitch - Pas  
Teilung - Paso

**T2,5** (6 mm)

mm

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | S     | Øe   | H   | W  | Y  | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|-------|------|-----|----|----|---|
| 16 T2,5/12                     | 12                                 | 1                           | 9,00  | 12,0 | 6,5 | 9  | 16 | Aluminium                                     |
| 16 T2,5/14                     | 14                                 | 1                           | 10,60 | 16,0 | 8,5 | 9  | 16 |   |
| 16 T2,5/15                     | 15                                 | 1                           | 11,40 | 16,0 | 10  | 9  | 16 |   |
| 16 T2,5/16                     | 16                                 | 2                           | 12,20 | 18,0 | 9   | 10 | 16 |   |
| 16 T2,5/18                     | 18                                 | 2                           | 13,80 | 18,0 | 9   | 10 | 16 |   |
| 16 T2,5/19                     | 19                                 | 2                           | 14,60 | 21,5 | 9   | 10 | 16 |   |
| 16 T2,5/20                     | 20                                 | 2                           | 15,40 | 20,0 | 11  | 10 | 16 |   |
| 16 T2,5/22                     | 22                                 | 2                           | 17,00 | 20,0 | 11  | 10 | 16 |   |
| 16 T2,5/24                     | 24                                 | 2                           | 18,55 | 23,0 | 12  | 10 | 16 |   |
| 16 T2,5/25                     | 25                                 | 2                           | 19,35 | 24,0 | 13  | 10 | 16 |   |
| 16 T2,5/26                     | 26                                 | 2                           | 20,15 | 24,0 | 14  | 10 | 16 |   |
| 16 T2,5/28                     | 28                                 | 2                           | 21,75 | 27,0 | 14  | 10 | 16 |   |
| 16 T2,5/30                     | 30                                 | 2                           | 23,35 | 27,0 | 16  | 10 | 16 |   |
| 16 T2,5/32                     | 32                                 | 2                           | 24,95 | 30,0 | 16  | 10 | 16 |   |
| 16 T2,5/36                     | 36                                 | 2                           | 28,10 | 33,0 | 20  | 10 | 16 |   |
| 16 T2,5/40                     | 40                                 | 2                           | 31,30 | 36,0 | 22  | 10 | 16 | Aluminio                                      |
| 16 T2,5/44                     | 44                                 | 2                           | 34,50 | 40,0 | 24  | 10 | 16 |   |
| 16 T2,5/48                     | 48                                 | 3                           | 37,70 | —    | 28  | 10 | 16 |   |
| 16 T2,5/60                     | 60                                 | 3                           | 47,25 | —    | 34  | 10 | 16 |   |

Pitch - Pas  
Teilung - Paso

**T5** (10 mm)

mm

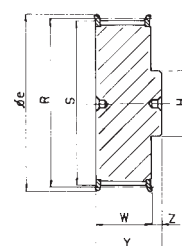
| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | S     | Øe | H  | W  | Y  | material<br>materiel<br>Werkstoff<br>material               |
|--------------------------------|------------------------------------|-----------------------------|-------|----|----|----|----|---|
| 21 T5/10                       | 10                                 | 2                           | 15,05 | 18 | 8  | 15 | 21 | Aluminium<br><br>Aluminium<br><br>Aluminium<br><br>Aluminio |
| 21 T5/12                       | 12                                 | 2                           | 18,25 | 23 | 11 | 15 | 21 |   |
| 21 T5/14                       | 14                                 | 2                           | 21,45 | 24 | 14 | 15 | 21 |   |
| 21 T5/15                       | 15                                 | 2                           | 23,05 | 27 | 16 | 15 | 21 |   |
| 21 T5/16                       | 16                                 | 2                           | 24,60 | 30 | 18 | 15 | 21 |   |
| 21 T5/18                       | 18                                 | 2                           | 27,80 | 30 | 20 | 15 | 21 |   |
| 21 T5/19                       | 19                                 | 2                           | 29,40 | 33 | 22 | 15 | 21 |   |
| 21 T5/20                       | 20                                 | 2                           | 31,00 | 33 | 23 | 15 | 21 |   |
| 21 T5/22                       | 22                                 | 2                           | 34,25 | 36 | 24 | 15 | 21 |   |
| 21 T5/24                       | 24                                 | 2                           | 37,40 | 40 | 26 | 15 | 21 |   |
| 21 T5/25                       | 25                                 | 2                           | 39,00 | 46 | 26 | 15 | 21 |   |
| 21 T5/26                       | 26                                 | 2                           | 40,60 | 46 | 26 | 15 | 21 |   |
| 21 T5/27                       | 27                                 | 2                           | 42,20 | 46 | 30 | 15 | 21 |   |
| 21 T5/28                       | 28                                 | 2                           | 43,75 | 50 | 32 | 15 | 21 |   |
| 21 T5/30                       | 30                                 | 2                           | 46,95 | 50 | 34 | 15 | 21 |   |
| 21 T5/32                       | 32                                 | 2                           | 50,10 | 55 | 38 | 15 | 21 |   |
| 21 T5/36                       | 36                                 | 2                           | 56,45 | 62 | 38 | 15 | 21 |   |
| 21 T5/40                       | 40                                 | 2                           | 62,85 | 67 | 40 | 15 | 21 |   |
| 21 T5/42                       | 42                                 | 2                           | 66,00 | 73 | 40 | 15 | 21 |   |
| 21 T5/44                       | 44                                 | 3                           | 69,20 | —  | 45 | 15 | 21 |   |
| 21 T5/48                       | 48                                 | 3                           | 75,55 | —  | 50 | 15 | 21 |   |
| 21 T5/60                       | 60                                 | 3                           | 94,65 | —  | 65 | 15 | 21 |   |

Pitch - Pas  
Teilung - Paso

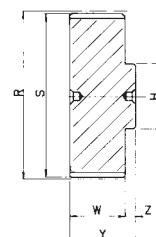
**T5** (16 mm)

mm

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | S     | Øe | H  | W  | Y  | material<br>materiel<br>Werkstoff<br>material               |
|--------------------------------|------------------------------------|-----------------------------|-------|----|----|----|----|---|
| 27 T5/10                       | 10                                 | 2                           | 15,05 | 18 | 8  | 21 | 27 | Aluminium<br><br>Aluminium<br><br>Aluminium<br><br>Aluminio |
| 27 T5/12                       | 12                                 | 2                           | 18,25 | 23 | 11 | 21 | 27 |   |
| 27 T5/14                       | 14                                 | 2                           | 21,45 | 24 | 14 | 21 | 27 |   |
| 27 T5/15                       | 15                                 | 2                           | 23,05 | 27 | 16 | 21 | 27 |   |
| 27 T5/16                       | 16                                 | 2                           | 24,60 | 30 | 18 | 21 | 27 |   |
| 27 T5/18                       | 18                                 | 2                           | 27,80 | 30 | 20 | 21 | 27 |   |
| 27 T5/19                       | 19                                 | 2                           | 29,40 | 33 | 22 | 21 | 27 |   |
| 27 T5/20                       | 20                                 | 2                           | 31,00 | 33 | 23 | 21 | 27 |   |
| 27 T5/22                       | 22                                 | 2                           | 34,25 | 36 | 24 | 21 | 27 |   |
| 27 T5/24                       | 24                                 | 2                           | 37,40 | 40 | 26 | 21 | 27 |   |
| 27 T5/25                       | 25                                 | 2                           | 39,00 | 46 | 26 | 21 | 27 |   |
| 27 T5/26                       | 26                                 | 2                           | 40,60 | 46 | 26 | 21 | 27 |   |
| 27 T5/27                       | 27                                 | 2                           | 42,20 | 46 | 30 | 21 | 27 |   |
| 27 T5/28                       | 28                                 | 2                           | 43,75 | 50 | 32 | 21 | 27 |   |
| 27 T5/30                       | 30                                 | 2                           | 46,95 | 50 | 34 | 21 | 27 |   |
| 27 T5/32                       | 32                                 | 2                           | 50,10 | 55 | 38 | 21 | 27 |   |
| 27 T5/36                       | 36                                 | 2                           | 56,45 | 62 | 38 | 21 | 27 |   |
| 27 T5/40                       | 40                                 | 2                           | 62,85 | 67 | 40 | 21 | 27 |   |
| 27 T5/42                       | 42                                 | 2                           | 66,00 | 73 | 40 | 21 | 27 |   |
| 27 T5/44                       | 44                                 | 3                           | 69,20 | —  | 45 | 21 | 27 |   |
| 27 T5/48                       | 48                                 | 3                           | 75,55 | —  | 50 | 21 | 27 |   |
| 27 T5/60                       | 60                                 | 3                           | 94,65 | —  | 65 | 21 | 27 |   |



2



3

Pitch - Pas  
Teilung - Paso

**T5** (25 mm)

mm

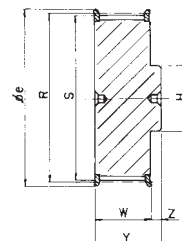
| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | S     | Øe | H  | W  | Y  | material<br>materiel<br>Werkstoff<br>material               |
|--------------------------------|------------------------------------|-----------------------------|-------|----|----|----|----|---|
| 36 T5/10                       | 10                                 | 2                           | 15,05 | 18 | 8  | 30 | 36 | Aluminium<br><br>Aluminium<br><br>Aluminium<br><br>Aluminio |
| 36 T5/12                       | 12                                 | 2                           | 18,25 | 23 | 11 | 30 | 36 |   |
| 36 T5/14                       | 14                                 | 2                           | 21,45 | 24 | 14 | 30 | 36 |   |
| 36 T5/15                       | 15                                 | 2                           | 23,05 | 27 | 16 | 30 | 36 |   |
| 36 T5/16                       | 16                                 | 2                           | 24,60 | 30 | 18 | 30 | 36 |   |
| 36 T5/18                       | 18                                 | 2                           | 27,80 | 30 | 20 | 30 | 36 |   |
| 36 T5/19                       | 19                                 | 2                           | 29,40 | 33 | 22 | 30 | 36 |   |
| 36 T5/20                       | 20                                 | 2                           | 31,00 | 33 | 23 | 30 | 36 |   |
| 36 T5/22                       | 22                                 | 2                           | 34,25 | 36 | 24 | 30 | 36 |   |
| 36 T5/24                       | 24                                 | 2                           | 37,40 | 40 | 26 | 30 | 36 |   |
| 36 T5/25                       | 25                                 | 2                           | 39,00 | 46 | 26 | 30 | 36 |   |
| 36 T5/26                       | 26                                 | 2                           | 40,60 | 46 | 26 | 30 | 36 |   |
| 36 T5/27                       | 27                                 | 2                           | 42,20 | 46 | 30 | 30 | 36 |   |
| 36 T5/28                       | 28                                 | 2                           | 43,75 | 50 | 32 | 30 | 36 |   |
| 36 T5/30                       | 30                                 | 2                           | 46,95 | 50 | 34 | 30 | 36 |   |
| 36 T5/32                       | 32                                 | 2                           | 50,10 | 55 | 38 | 30 | 36 |   |
| 36 T5/36                       | 36                                 | 2                           | 56,45 | 62 | 38 | 30 | 36 |   |
| 36 T5/40                       | 40                                 | 2                           | 62,85 | 67 | 40 | 30 | 36 |   |
| 36 T5/42                       | 42                                 | 2                           | 66,00 | 73 | 40 | 30 | 36 |   |
| 36 T5/44                       | 44                                 | 3                           | 69,20 | —  | 45 | 30 | 36 |   |
| 36 T5/48                       | 48                                 | 3                           | 75,55 | —  | 50 | 30 | 36 |   |
| 36 T5/60                       | 60                                 | 3                           | 94,65 | —  | 65 | 30 | 36 |   |

**Pitch - Pas**  
**Teilung - Paso**

**T10** (16 mm)

mm

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | S      | Øe  | H   | W  | Y  | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|--------|-----|-----|----|----|---|
| 31 T10/12                      | 12                                 | 2                           | 36,35  | 40  | 28  | 21 | 31 | Aluminium                                     |
| 31 T10/14                      | 14                                 | 2                           | 42,70  | 46  | 32  | 21 | 31 |   |
| 31 T10/15                      | 15                                 | 2                           | 45,90  | 50  | 32  | 21 | 31 |   |
| 31 T10/16                      | 16                                 | 2                           | 49,05  | 55  | 35  | 21 | 31 |   |
| 31 T10/18                      | 18                                 | 2                           | 55,45  | 62  | 40  | 21 | 31 |   |
| 31 T10/19                      | 19                                 | 2                           | 58,60  | 67  | 44  | 21 | 31 |   |
| 31 T10/20                      | 20                                 | 2                           | 61,80  | 67  | 46  | 21 | 31 |   |
| 31 T10/22                      | 22                                 | 2                           | 68,15  | 73  | 52  | 21 | 31 |   |
| 31 T10/24                      | 24                                 | 2                           | 74,55  | 80  | 58  | 21 | 31 |   |
| 31 T10/25                      | 25                                 | 2                           | 77,70  | 84  | 60  | 21 | 31 |   |
| 31 T10/26                      | 26                                 | 2                           | 80,90  | 88  | 60  | 21 | 31 | Aluminium                                     |
| 31 T10/27                      | 27                                 | 2                           | 84,10  | 88  | 60  | 21 | 31 |   |
| 31 T10/28                      | 28                                 | 2                           | 87,25  | 94  | 60  | 21 | 31 | Aluminio                                      |
| 31 T10/30                      | 30                                 | 2                           | 93,65  | 98  | 60  | 21 | 31 |   |
| 31 T10/32                      | 32                                 | 2                           | 100,00 | 108 | 65  | 21 | 31 | Aluminio                                      |
| 31 T10/36                      | 36                                 | 2                           | 112,75 | 118 | 70  | 21 | 31 |   |
| 31 T10/40                      | 40                                 | 4                           | 125,45 | 129 | 80  | 21 | 31 | Aluminio                                      |
| 31 T10/44                      | 44                                 | 5                           | 138,20 | —   | 88  | 21 | 31 |   |
| 31 T10/48                      | 48                                 | 5                           | 150,95 | —   | 95  | 21 | 31 | Aluminio                                      |
| 31 T10/60                      | 60                                 | 5                           | 189,10 | —   | 110 | 21 | 31 |   |



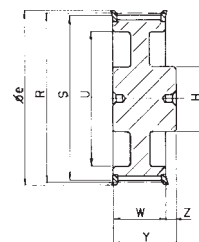
2

**Pitch - Pas**  
**Teilung - Paso**

**T10** (25 mm)

mm

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | S      | Øe  | H   | W  | Y  | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|--------|-----|-----|----|----|---|
| 40 T10/12                      | 12                                 | 2                           | 36,35  | 40  | 28  | 30 | 40 | Aluminium                                     |
| 40 T10/14                      | 14                                 | 2                           | 42,70  | 46  | 32  | 30 | 40 |   |
| 40 T10/15                      | 15                                 | 2                           | 45,90  | 50  | 32  | 30 | 40 |   |
| 40 T10/16                      | 16                                 | 2                           | 49,05  | 55  | 35  | 30 | 40 |   |
| 40 T10/18                      | 18                                 | 2                           | 55,45  | 62  | 40  | 30 | 40 |   |
| 40 T10/19                      | 19                                 | 2                           | 58,60  | 67  | 44  | 30 | 40 |   |
| 40 T10/20                      | 20                                 | 2                           | 61,80  | 67  | 46  | 30 | 40 |   |
| 40 T10/22                      | 22                                 | 2                           | 68,15  | 73  | 52  | 30 | 40 |   |
| 40 T10/24                      | 24                                 | 2                           | 74,55  | 80  | 58  | 30 | 40 |   |
| 40 T10/25                      | 25                                 | 2                           | 77,70  | 84  | 60  | 30 | 40 |   |
| 40 T10/26                      | 26                                 | 2                           | 80,90  | 88  | 60  | 30 | 40 | Aluminium                                     |
| 40 T10/27                      | 27                                 | 2                           | 84,10  | 88  | 60  | 30 | 40 |   |
| 40 T10/28                      | 28                                 | 2                           | 87,25  | 94  | 60  | 30 | 40 | Aluminio                                      |
| 40 T10/30                      | 30                                 | 2                           | 93,65  | 98  | 60  | 30 | 40 |   |
| 40 T10/32                      | 32                                 | 2                           | 100,00 | 108 | 65  | 30 | 40 | Aluminio                                      |
| 40 T10/36                      | 36                                 | 2                           | 112,75 | 118 | 70  | 30 | 40 |   |
| 40 T10/40                      | 40                                 | 4                           | 125,45 | 129 | 80  | 30 | 40 | Aluminio                                      |
| 40 T10/44                      | 44                                 | 5                           | 138,20 | —   | 88  | 30 | 40 |   |
| 40 T10/48                      | 48                                 | 5                           | 150,95 | —   | 95  | 30 | 40 | Aluminio                                      |
| 40 T10/60                      | 60                                 | 5                           | 189,10 | —   | 110 | 30 | 40 |   |



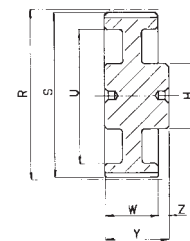
4

**Pitch - Pas**  
**Teilung - Paso**

**T10** (32 mm)

mm

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | S      | Øe  | H   | W  | Y  | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|--------|-----|-----|----|----|---|
| 47 T10/18                      | 18                                 | 2                           | 55,45  | 62  | 40  | 37 | 47 | Aluminium                                     |
| 47 T10/19                      | 19                                 | 2                           | 58,60  | 67  | 44  | 37 | 47 |   |
| 47 T10/20                      | 20                                 | 2                           | 61,80  | 67  | 46  | 37 | 47 |   |
| 47 T10/22                      | 22                                 | 2                           | 68,15  | 73  | 52  | 37 | 47 |   |
| 47 T10/24                      | 24                                 | 2                           | 74,55  | 80  | 58  | 37 | 47 |   |
| 47 T10/25                      | 25                                 | 2                           | 77,70  | 84  | 60  | 37 | 47 |   |
| 47 T10/26                      | 26                                 | 2                           | 80,90  | 88  | 60  | 37 | 47 |   |
| 47 T10/27                      | 27                                 | 2                           | 84,10  | 88  | 60  | 37 | 47 |   |
| 47 T10/28                      | 28                                 | 2                           | 87,25  | 94  | 60  | 37 | 47 |   |
| 47 T10/30                      | 30                                 | 2                           | 93,65  | 98  | 60  | 37 | 47 | Aluminio                                      |
| 47 T10/32                      | 32                                 | 2                           | 100,00 | 108 | 65  | 37 | 47 |   |
| 47 T10/36                      | 36                                 | 2                           | 112,75 | 118 | 70  | 37 | 47 | Aluminio                                      |
| 47 T10/40                      | 40                                 | 4                           | 125,45 | 129 | 80  | 37 | 47 |   |
| 47 T10/44                      | 44                                 | 5                           | 138,20 | —   | 88  | 37 | 47 | Aluminio                                      |
| 47 T10/48                      | 48                                 | 5                           | 150,95 | —   | 95  | 37 | 47 |   |
| 47 T10/60                      | 60                                 | 5                           | 189,10 | —   | 110 | 37 | 47 | Aluminio                                      |



5

**Pitch - Pas**  
**Teilung - Paso**

**T10** (50 mm)

mm

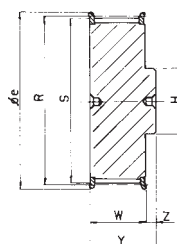
| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | S      | Øe  | H   | W  | Y  | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|--------|-----|-----|----|----|---|
| 66 T10/18                      | 18                                 | 2                           | 55,45  | 62  | 40  | 56 | 66 | Aluminium                                     |
| 66 T10/19                      | 19                                 | 2                           | 58,60  | 67  | 44  | 56 | 66 |   |
| 66 T10/20                      | 20                                 | 2                           | 61,80  | 67  | 46  | 56 | 66 |   |
| 66 T10/22                      | 22                                 | 2                           | 68,15  | 73  | 52  | 56 | 66 |   |
| 66 T10/24                      | 24                                 | 2                           | 74,55  | 80  | 58  | 56 | 66 |   |
| 66 T10/25                      | 25                                 | 2                           | 77,70  | 84  | 60  | 56 | 66 |   |
| 66 T10/26                      | 26                                 | 2                           | 80,90  | 88  | 60  | 56 | 66 |   |
| 66 T10/27                      | 27                                 | 2                           | 84,10  | 88  | 60  | 56 | 66 |   |
| 66 T10/28                      | 28                                 | 2                           | 87,25  | 94  | 60  | 56 | 66 |   |
| 66 T10/30                      | 30                                 | 2                           | 93,65  | 98  | 60  | 56 | 66 | Aluminio                                      |
| 66 T10/32                      | 32                                 | 2                           | 100,00 | 108 | 65  | 56 | 66 |   |
| 66 T10/36                      | 36                                 | 2                           | 112,75 | 118 | 70  | 56 | 66 | Aluminio                                      |
| 66 T10/40                      | 40                                 | 4                           | 125,45 | 129 | 80  | 56 | 66 |   |
| 66 T10/44                      | 44                                 | 5                           | 138,20 | —   | 88  | 56 | 66 | Aluminio                                      |
| 66 T10/48                      | 48                                 | 5                           | 150,95 | —   | 95  | 56 | 66 |   |
| 66 T10/60                      | 60                                 | 5                           | 189,10 | —   | 110 | 56 | 66 | Aluminio                                      |

Pitch - Pas  
Teilung - Paso

**AT5** (10 mm)

mm

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | S     | Øe | H  | W  | Y  | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|-------|----|----|----|----|---|
| 21 AT5/12                      | 12                                 | 2                           | 17,85 | 23 | 11 | 15 | 21 | Aluminium                                     |
| 21 AT5/14                      | 14                                 | 2                           | 21,05 | 24 | 14 | 15 | 21 |   |
| 21 AT5/15                      | 15                                 | 2                           | 22,65 | 27 | 16 | 15 | 21 |   |
| 21 AT5/16                      | 16                                 | 2                           | 24,20 | 30 | 18 | 15 | 21 |   |
| 21 AT5/18                      | 18                                 | 2                           | 27,40 | 30 | 20 | 15 | 21 |   |
| 21 AT5/19                      | 19                                 | 2                           | 29,00 | 33 | 22 | 15 | 21 |   |
| 21 AT5/20                      | 20                                 | 2                           | 30,60 | 33 | 23 | 15 | 21 |   |
| 21 AT5/22                      | 22                                 | 2                           | 34,85 | 36 | 24 | 15 | 21 |   |
| 21 AT5/24                      | 24                                 | 2                           | 37,00 | 40 | 26 | 15 | 21 |   |
| 21 AT5/25                      | 25                                 | 2                           | 38,60 | 46 | 26 | 15 | 21 |   |
| 21 AT5/26                      | 26                                 | 2                           | 40,20 | 46 | 26 | 15 | 21 |   |
| 21 AT5/27                      | 27                                 | 2                           | 41,80 | 46 | 30 | 15 | 21 |   |
| 21 AT5/28                      | 28                                 | 2                           | 43,35 | 50 | 32 | 15 | 21 |   |
| 21 AT5/30                      | 30                                 | 2                           | 46,55 | 50 | 34 | 15 | 21 |   |
| 21 AT5/32                      | 32                                 | 2                           | 49,70 | 55 | 38 | 15 | 21 |   |
| 21 AT5/36                      | 36                                 | 2                           | 56,05 | 62 | 38 | 15 | 21 | Aluminium                                     |
| 21 AT5/40                      | 40                                 | 2                           | 62,45 | 67 | 40 | 15 | 21 |   |
| 21 AT5/42                      | 42                                 | 2                           | 65,60 | 73 | 40 | 15 | 21 | Aluminium                                     |
| 21 AT5/44                      | 44                                 | 3                           | 68,80 | —  | 45 | 15 | 21 |   |
| 21 AT5/48                      | 48                                 | 3                           | 75,15 | —  | 50 | 15 | 21 | Aluminio                                      |
| 21 AT5/60                      | 60                                 | 3                           | 94,25 | —  | 65 | 15 | 21 |   |



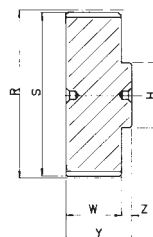
2

Pitch - Pas  
Teilung - Paso

**AT5** (16 mm)

mm

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | S     | Øe | H  | W  | Y  | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|-------|----|----|----|----|---|
| 27 AT5/12                      | 12                                 | 2                           | 17,85 | 23 | 11 | 21 | 27 | Aluminium                                     |
| 27 AT5/14                      | 14                                 | 2                           | 21,05 | 24 | 14 | 21 | 27 |   |
| 27 AT5/15                      | 15                                 | 2                           | 22,65 | 27 | 16 | 21 | 27 |   |
| 27 AT5/16                      | 16                                 | 2                           | 24,20 | 30 | 18 | 21 | 27 |   |
| 27 AT5/18                      | 18                                 | 2                           | 27,40 | 30 | 20 | 21 | 27 |   |
| 27 AT5/19                      | 19                                 | 2                           | 29,00 | 33 | 22 | 21 | 27 |   |
| 27 AT5/20                      | 20                                 | 2                           | 30,60 | 33 | 23 | 21 | 27 |   |
| 27 AT5/22                      | 22                                 | 2                           | 34,85 | 36 | 24 | 21 | 27 |   |
| 27 AT5/24                      | 24                                 | 2                           | 37,00 | 40 | 26 | 21 | 27 |   |
| 27 AT5/25                      | 25                                 | 2                           | 38,60 | 46 | 26 | 21 | 27 |   |
| 27 AT5/26                      | 26                                 | 2                           | 40,20 | 46 | 26 | 21 | 27 |   |
| 27 AT5/27                      | 27                                 | 2                           | 41,80 | 46 | 30 | 21 | 27 |   |
| 27 AT5/28                      | 28                                 | 2                           | 43,35 | 50 | 32 | 21 | 27 |   |
| 27 AT5/30                      | 30                                 | 2                           | 46,55 | 50 | 34 | 21 | 27 |   |
| 27 AT5/32                      | 32                                 | 2                           | 49,70 | 55 | 38 | 21 | 27 |   |
| 27 AT5/36                      | 36                                 | 2                           | 56,05 | 62 | 38 | 21 | 27 | Aluminium                                     |
| 27 AT5/40                      | 40                                 | 2                           | 62,45 | 67 | 40 | 21 | 27 |   |
| 27 AT5/42                      | 42                                 | 2                           | 65,60 | 73 | 40 | 21 | 27 | Aluminium                                     |
| 27 AT5/44                      | 44                                 | 3                           | 68,80 | —  | 45 | 21 | 27 |   |
| 27 AT5/48                      | 48                                 | 3                           | 75,15 | —  | 50 | 21 | 27 | Aluminio                                      |
| 27 AT5/60                      | 60                                 | 3                           | 94,25 | —  | 65 | 21 | 27 |   |



3

Pitch - Pas  
Teilung - Paso

**AT5** (25 mm)

mm

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | S     | Øe | H  | W  | Y  | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|-------|----|----|----|----|---|
| 36 AT5/12                      | 12                                 | 2                           | 17,85 | 23 | 11 | 30 | 36 | Aluminium                                     |
| 36 AT5/14                      | 14                                 | 2                           | 21,05 | 24 | 14 | 30 | 36 |   |
| 36 AT5/15                      | 15                                 | 2                           | 22,65 | 27 | 16 | 30 | 36 |   |
| 36 AT5/16                      | 16                                 | 2                           | 24,20 | 30 | 18 | 30 | 36 |   |
| 36 AT5/18                      | 18                                 | 2                           | 27,40 | 30 | 20 | 30 | 36 |   |
| 36 AT5/19                      | 19                                 | 2                           | 29,00 | 33 | 22 | 30 | 36 |   |
| 36 AT5/20                      | 20                                 | 2                           | 30,60 | 33 | 23 | 30 | 36 |   |
| 36 AT5/22                      | 22                                 | 2                           | 34,85 | 36 | 24 | 30 | 36 |   |
| 36 AT5/24                      | 24                                 | 2                           | 37,00 | 40 | 26 | 30 | 36 |   |
| 36 AT5/25                      | 25                                 | 2                           | 38,60 | 46 | 26 | 30 | 36 |   |
| 36 AT5/26                      | 26                                 | 2                           | 40,20 | 46 | 26 | 30 | 36 |   |
| 36 AT5/27                      | 27                                 | 2                           | 41,80 | 46 | 30 | 30 | 36 |   |
| 36 AT5/28                      | 28                                 | 2                           | 43,35 | 50 | 32 | 30 | 36 |   |
| 36 AT5/30                      | 30                                 | 2                           | 46,55 | 50 | 34 | 30 | 36 |   |
| 36 AT5/32                      | 32                                 | 2                           | 49,70 | 55 | 38 | 30 | 36 |   |
| 36 AT5/36                      | 36                                 | 2                           | 56,05 | 62 | 38 | 30 | 36 | Aluminium                                     |
| 36 AT5/40                      | 40                                 | 2                           | 62,45 | 67 | 40 | 30 | 36 |   |
| 36 AT5/42                      | 42                                 | 2                           | 65,60 | 73 | 40 | 30 | 36 | Aluminium                                     |
| 36 AT5/44                      | 44                                 | 3                           | 68,80 | —  | 45 | 30 | 36 |   |
| 36 AT5/48                      | 48                                 | 3                           | 75,15 | —  | 50 | 30 | 36 | Aluminio                                      |
| 36 AT5/60                      | 60                                 | 3                           | 94,25 | —  | 65 | 30 | 36 |   |

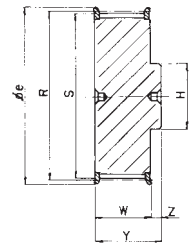


Pitch - Pas  
Teilung - Paso

## AT10 (16 mm)

mm

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | S      | Øe  | H   | W  | Y  | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|--------|-----|-----|----|----|---|
| 31 AT10/15                     | 15                                 | 2                           | 45,90  | 50  | 32  | 21 | 31 | Aluminium                                     |
| 31 AT10/16                     | 16                                 | 2                           | 49,05  | 55  | 35  | 21 | 31 |   |
| 31 AT10/18                     | 18                                 | 2                           | 55,45  | 62  | 40  | 21 | 31 |   |
| 31 AT10/19                     | 19                                 | 2                           | 58,60  | 67  | 44  | 21 | 31 |   |
| 31 AT10/20                     | 20                                 | 2                           | 61,80  | 67  | 46  | 21 | 31 |   |
| 31 AT10/22                     | 22                                 | 2                           | 68,15  | 73  | 52  | 21 | 31 |   |
| 31 AT10/24                     | 24                                 | 2                           | 74,55  | 80  | 58  | 21 | 31 |   |
| 31 AT10/25                     | 25                                 | 2                           | 77,70  | 84  | 60  | 21 | 31 |   |
| 31 AT10/26                     | 26                                 | 2                           | 80,90  | 88  | 60  | 21 | 31 |   |
| 31 AT10/27                     | 27                                 | 2                           | 84,10  | 88  | 60  | 21 | 31 |   |
| 31 AT10/28                     | 28                                 | 2                           | 87,25  | 94  | 60  | 21 | 31 | Aluminium                                     |
| 31 AT10/30                     | 30                                 | 2                           | 93,65  | 98  | 60  | 21 | 31 | Aluminio                                      |
| 31 AT10/32                     | 32                                 | 2                           | 100,00 | 108 | 65  | 21 | 31 |   |
| 31 AT10/36                     | 36                                 | 2                           | 112,75 | 118 | 70  | 21 | 31 | Aluminium                                     |
| 31 AT10/40                     | 40                                 | 4                           | 125,45 | 129 | 80  | 21 | 31 |   |
| 31 AT10/44                     | 44                                 | 5                           | 138,20 | —   | 88  | 21 | 31 | Aluminio                                      |
| 31 AT10/48                     | 48                                 | 5                           | 150,95 | —   | 95  | 21 | 31 |   |
| 31 AT10/60                     | 60                                 | 5                           | 189,10 | —   | 110 | 21 | 31 |   |



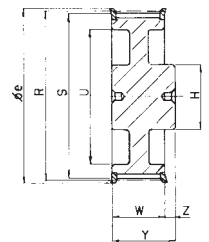
2

Pitch - Pas  
Teilung - Paso

## AT10 (25 mm)

mm

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | S      | Øe  | H   | W  | Y  | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|--------|-----|-----|----|----|---|
| 40 AT10/15                     | 15                                 | 2                           | 45,90  | 50  | 32  | 30 | 40 | Aluminium                                     |
| 40 AT10/16                     | 16                                 | 2                           | 49,05  | 55  | 35  | 30 | 40 |   |
| 40 AT10/18                     | 18                                 | 2                           | 55,45  | 62  | 40  | 30 | 40 |   |
| 40 AT10/19                     | 19                                 | 2                           | 58,60  | 67  | 44  | 30 | 40 |   |
| 40 AT10/20                     | 20                                 | 2                           | 61,80  | 67  | 46  | 30 | 40 |   |
| 40 AT10/22                     | 22                                 | 2                           | 68,15  | 73  | 52  | 30 | 40 |   |
| 40 AT10/24                     | 24                                 | 2                           | 74,55  | 80  | 58  | 30 | 40 |   |
| 40 AT10/25                     | 25                                 | 2                           | 77,70  | 84  | 60  | 30 | 40 |   |
| 40 AT10/26                     | 26                                 | 2                           | 80,90  | 88  | 60  | 30 | 40 |   |
| 40 AT10/27                     | 27                                 | 2                           | 84,10  | 88  | 60  | 30 | 40 |   |
| 40 AT10/28                     | 28                                 | 2                           | 87,25  | 94  | 60  | 30 | 40 | Aluminium                                     |
| 40 AT10/30                     | 30                                 | 2                           | 93,65  | 98  | 60  | 30 | 40 | Aluminio                                      |
| 40 AT10/32                     | 32                                 | 2                           | 100,00 | 108 | 65  | 30 | 40 |   |
| 40 AT10/36                     | 36                                 | 2                           | 112,75 | 118 | 70  | 30 | 40 | Aluminium                                     |
| 40 AT10/40                     | 40                                 | 4                           | 125,45 | 129 | 80  | 30 | 40 |   |
| 40 AT10/44                     | 44                                 | 5                           | 138,20 | —   | 88  | 30 | 40 | Aluminio                                      |
| 40 AT10/48                     | 48                                 | 5                           | 150,95 | —   | 95  | 30 | 40 |   |
| 40 AT10/60                     | 60                                 | 5                           | 189,10 | —   | 110 | 30 | 40 |   |



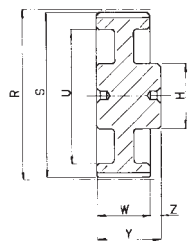
4

Pitch - Pas  
Teilung - Paso

## AT10 (32 mm)

mm

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | S      | Øe  | H   | W  | Y  | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|--------|-----|-----|----|----|---|
| 47 AT10/15                     | 15                                 | 2                           | 45,90  | 50  | 32  | 37 | 47 | Aluminium                                     |
| 47 AT10/16                     | 16                                 | 2                           | 49,05  | 55  | 35  | 37 | 47 |   |
| 47 AT10/18                     | 18                                 | 2                           | 55,45  | 62  | 40  | 37 | 47 |   |
| 47 AT10/19                     | 19                                 | 2                           | 58,60  | 67  | 44  | 37 | 47 |   |
| 47 AT10/20                     | 20                                 | 2                           | 61,80  | 67  | 46  | 37 | 47 |   |
| 47 AT10/22                     | 22                                 | 2                           | 68,15  | 73  | 52  | 37 | 47 |   |
| 47 AT10/24                     | 24                                 | 2                           | 74,55  | 80  | 58  | 37 | 47 |   |
| 47 AT10/25                     | 25                                 | 2                           | 77,70  | 84  | 60  | 37 | 47 |   |
| 47 AT10/26                     | 26                                 | 2                           | 80,90  | 88  | 60  | 37 | 47 |   |
| 47 AT10/27                     | 27                                 | 2                           | 84,10  | 88  | 60  | 37 | 47 |   |
| 47 AT10/28                     | 28                                 | 2                           | 87,25  | 94  | 60  | 37 | 47 | Aluminium                                     |
| 47 AT10/30                     | 30                                 | 2                           | 93,65  | 98  | 60  | 37 | 47 | Aluminio                                      |
| 47 AT10/32                     | 32                                 | 2                           | 100,00 | 108 | 65  | 37 | 47 |   |
| 47 AT10/36                     | 36                                 | 2                           | 112,75 | 118 | 70  | 37 | 47 | Aluminium                                     |
| 47 AT10/40                     | 40                                 | 4                           | 125,45 | 129 | 80  | 37 | 47 |   |
| 47 AT10/44                     | 44                                 | 5                           | 138,20 | —   | 88  | 37 | 47 | Aluminio                                      |
| 47 AT10/48                     | 48                                 | 5                           | 150,95 | —   | 95  | 37 | 47 |   |
| 47 AT10/60                     | 60                                 | 5                           | 189,10 | —   | 110 | 37 | 47 |   |



5

Pitch - Pas  
Teilung - Paso

## AT10 (50 mm)

mm

| code<br>code<br>Code<br>código | teeth<br>dents<br>Zähne<br>dientes | type<br>type<br>Typ<br>tipo | S      | Øe  | H   | W  | Y  | material<br>materiel<br>Werkstoff<br>material |
|--------------------------------|------------------------------------|-----------------------------|--------|-----|-----|----|----|---|
| 66 AT10/15                     | 15                                 | 2                           | 45,90  | 50  | 32  | 56 | 66 | Aluminium                                     |
| 66 AT10/16                     | 16                                 | 2                           | 49,05  | 55  | 35  | 56 | 66 |   |
| 66 AT10/18                     | 18                                 | 2                           | 55,45  | 62  | 40  | 56 | 66 |   |
| 66 AT10/19                     | 19                                 | 2                           | 58,60  | 67  | 44  | 56 | 66 |   |
| 66 AT10/20                     | 20                                 | 2                           | 61,80  | 67  | 46  | 56 | 66 |   |
| 66 AT10/22                     | 22                                 | 2                           | 68,15  | 73  | 52  | 56 | 66 |   |
| 66 AT10/24                     | 24                                 | 2                           | 74,55  | 80  | 58  | 56 | 66 |   |
| 66 AT10/25                     | 25                                 | 2                           | 77,70  | 84  | 60  | 56 | 66 |   |
| 66 AT10/26                     | 26                                 | 2                           | 80,90  | 88  | 60  | 56 | 66 |   |
| 66 AT10/27                     | 27                                 | 2                           | 84,10  | 88  | 60  | 56 | 66 |   |
| 66 AT10/28                     | 28                                 | 2                           | 87,25  | 94  | 60  | 56 | 66 | Aluminium                                     |
| 66 AT10/30                     | 30                                 | 2                           | 93,65  | 98  | 60  | 56 | 66 | Aluminio                                      |
| 66 AT10/32                     | 32                                 | 2                           | 100,00 | 108 | 65  | 56 | 66 |   |
| 66 AT10/36                     | 36                                 | 2                           | 112,75 | 118 | 70  | 56 | 66 | Aluminium                                     |
| 66 AT10/40                     | 40                                 | 4                           | 125,45 | 129 | 80  | 56 | 66 |   |
| 66 AT10/44                     | 44                                 | 5                           | 138,20 | —   | 88  | 56 | 66 | Aluminio                                      |
| 66 AT10/48                     | 48                                 | 5                           | 150,95 | —   | 95  | 56 | 66 |   |
| 66 AT10/60                     | 60                                 | 5                           | 189,10 | —   | 110 | 56 | 66 |   |



**STANDARD TIMING BARS**  
**BARRES DENTEES DE SERIE**  
**STANDARD-ZAHNSTANGEN**  
**BARRAS DENTADAS DE SERIE**

**T5** (5 mm)

| Teeth<br>Dents<br>Zähne<br>Dientes | Dp<br>(mm) | L<br>(mm) |
|------------------------------------|------------|-----------|
| 10                                 | 15,91      | 140       |
| 11                                 | 17,50      | 140       |
| 12                                 | 19,10      | 140       |
| 13                                 | 20,69      | 140       |
| 14                                 | 22,28      | 140       |
| 15                                 | 23,87      | 140       |
| 16                                 | 25,47      | 140       |
| 17                                 | 27,06      | 140       |
| 18                                 | 28,65      | 140       |
| 19                                 | 30,24      | 140       |
| 20                                 | 31,83      | 160       |
| 21                                 | 33,42      | 160       |
| 22                                 | 35,01      | 160       |
| 23                                 | 36,61      | 160       |
| 24                                 | 38,19      | 160       |
| 25                                 | 39,79      | 160       |
| 26                                 | 41,38      | 160       |
| 27                                 | 42,97      | 160       |
| 28                                 | 44,56      | 160       |
| 29                                 | 46,16      | 160       |
| 30                                 | 47,15      | 160       |
| 32                                 | 50,93      | 160       |
| 34                                 | 54,11      | 160       |
| 35                                 | 55,71      | 160       |
| 36                                 | 57,30      | 160       |
| 37                                 | 58,89      | 160       |
| 38                                 | 60,48      | 160       |
| 40                                 | 63,66      | 160       |
| 42                                 | 68,85      | 160       |
| 44                                 | 70,03      | 160       |
| 45                                 | 71,62      | 160       |
| 46                                 | 73,21      | 160       |
| 48                                 | 76,39      | 160       |
| 50                                 | 79,58      | 160       |
| 60                                 | 95,49      | 160       |
| 72                                 | 114,59     | 160       |
| 80                                 | 127,32     | 160       |
| 90                                 | 143,24     | 160       |
| 100                                | 159,15     | 160       |

**T10** (10 mm)

| Teeth<br>Dents<br>Zähne<br>Dientes | Dp<br>(mm) | L<br>(mm) |
|------------------------------------|------------|-----------|
| 10                                 | 31,83      | 140       |
| 11                                 | 35,01      | 140       |
| 12                                 | 38,19      | 140       |
| 13                                 | 41,38      | 140       |
| 14                                 | 44,56      | 160       |
| 15                                 | 47,74      | 160       |
| 16                                 | 50,93      | 160       |
| 17                                 | 54,11      | 160       |
| 18                                 | 57,29      | 160       |
| 19                                 | 60,47      | 160       |
| 20                                 | 63,66      | 160       |
| 21                                 | 66,84      | 160       |
| 22                                 | 70,02      | 160       |
| 23                                 | 73,21      | 160       |
| 24                                 | 76,39      | 160       |
| 26                                 | 82,76      | 160       |
| 28                                 | 89,12      | 160       |
| 30                                 | 95,49      | 160       |
| 32                                 | 101,85     | 160       |
| 34                                 | 108,22     | 160       |
| 36                                 | 114,59     | 160       |
| 38                                 | 120,95     | 160       |
| 40                                 | 127,32     | 160       |
| 45                                 | 143,23     | 160       |
| 48                                 | 152,78     | 160       |
| 60                                 | 190,98     | 160       |
| 72                                 | 229,17     | 160       |

Material: Aluminium  
Materiel: Aluminium  
Werkstoff: Aluminium  
Material: Aluminio

**XL** (1/5")

| Teeth<br>Dents<br>Zähne<br>Dientes | Dp<br>(mm) | L<br>(mm) |
|------------------------------------|------------|-----------|
| 10                                 | 16,17      | 140       |
| 11                                 | 17,79      | 140       |
| 12                                 | 19,40      | 140       |
| 13                                 | 21,02      | 140       |
| 14                                 | 22,64      | 140       |
| 15                                 | 24,25      | 140       |
| 16                                 | 25,87      | 140       |
| 17                                 | 27,49      | 140       |
| 18                                 | 29,11      | 140       |
| 19                                 | 30,72      | 140       |
| 20                                 | 32,34      | 140       |
| 21                                 | 33,96      | 160       |
| 22                                 | 35,57      | 160       |
| 23                                 | 37,19      | 160       |
| 24                                 | 38,81      | 160       |
| 25                                 | 40,43      | 160       |
| 26                                 | 42,04      | 160       |
| 27                                 | 43,66      | 160       |
| 28                                 | 45,28      | 160       |
| 29                                 | 46,89      | 160       |
| 30                                 | 48,51      | 160       |
| 32                                 | 51,74      | 160       |
| 33                                 | 53,36      | 160       |
| 34                                 | 54,98      | 160       |
| 35                                 | 56,60      | 160       |
| 36                                 | 58,21      | 160       |
| 38                                 | 61,45      | 160       |
| 39                                 | 63,06      | 160       |
| 40                                 | 64,68      | 160       |
| 41                                 | 66,30      | 160       |
| 42                                 | 67,91      | 160       |
| 43                                 | 69,53      | 160       |
| 44                                 | 71,15      | 160       |
| 48                                 | 77,62      | 160       |
| 56                                 | 90,55      | 160       |
| 60                                 | 97,02      | 160       |
| 72                                 | 116,43     | 160       |

**L** (3/8")

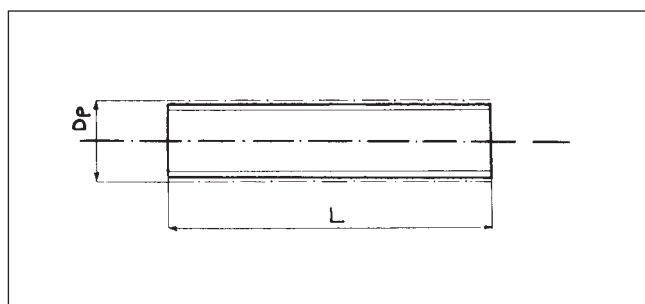
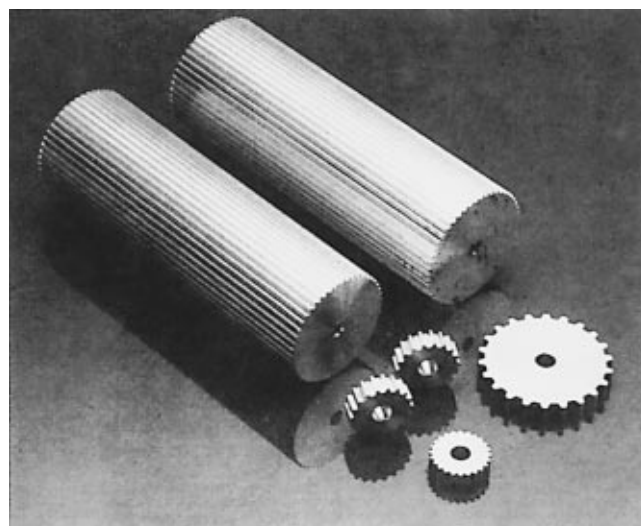
| Teeth<br>Dents<br>Zähne<br>Dientes | Dp<br>(mm) | L<br>(mm) |
|------------------------------------|------------|-----------|
| 10                                 | 30,32      | 140       |
| 11                                 | 33,35      | 140       |
| 12                                 | 36,38      | 160       |
| 13                                 | 39,41      | 160       |
| 14                                 | 42,45      | 160       |
| 15                                 | 45,48      | 160       |
| 16                                 | 48,51      | 160       |
| 17                                 | 51,54      | 160       |
| 18                                 | 54,57      | 160       |
| 19                                 | 57,61      | 160       |
| 20                                 | 60,64      | 160       |
| 21                                 | 63,67      | 160       |
| 22                                 | 66,70      | 160       |
| 23                                 | 69,73      | 160       |
| 24                                 | 72,77      | 160       |
| 27                                 | 81,86      | 160       |
| 30                                 | 90,96      | 160       |

Material: Aluminium/Steel  
C 40 (for XL Steel C 40 only  
on request)

Materiel: Aluminium/Acier  
C 40 (pour XL Acier C 40 sur  
demande)

Werkstoff: Aluminium/Stahl  
C 40 (für XL Stahl C 40 nur  
nach anfrage)

Material: Aluminio/Acero C 40  
(para XL Acero C 40 sobre  
demanda)



**AT5** (5 mm)

| Teeth<br>Dents<br>Zähne<br>Dientes | Dp<br>(mm) | L<br>(mm) |
|------------------------------------|------------|-----------|
| 12                                 | 19,10      | 140       |
| 13                                 | 20,69      | 140       |
| 14                                 | 22,28      | 140       |
| 15                                 | 23,87      | 140       |
| 16                                 | 25,47      | 140       |
| 17                                 | 27,06      | 140       |
| 18                                 | 28,65      | 140       |
| 19                                 | 30,24      | 140       |
| 20                                 | 31,83      | 160       |
| 21                                 | 33,42      | 160       |
| 22                                 | 35,01      | 160       |
| 23                                 | 36,61      | 160       |
| 24                                 | 38,19      | 160       |
| 25                                 | 39,79      | 160       |
| 26                                 | 41,38      | 160       |
| 27                                 | 42,97      | 160       |
| 28                                 | 44,56      | 160       |
| 29                                 | 46,16      | 160       |
| 30                                 | 47,15      | 160       |
| 32                                 | 50,93      | 160       |
| 34                                 | 54,11      | 160       |
| 35                                 | 55,71      | 160       |
| 36                                 | 57,30      | 160       |
| 37                                 | 58,89      | 160       |
| 38                                 | 60,48      | 160       |
| 40                                 | 63,66      | 160       |
| 42                                 | 68,85      | 160       |
| 44                                 | 70,03      | 160       |
| 45                                 | 71,62      | 160       |
| 46                                 | 73,21      | 160       |
| 48                                 | 76,39      | 160       |
| 50                                 | 79,58      | 160       |
| 60                                 | 95,49      | 160       |
| 72                                 | 114,59     | 160       |

**AT10** (10 mm)

| Teeth<br>Dents<br>Zähne<br>Dientes | Dp<br>(mm) | L<br>(mm) |
|------------------------------------|------------|-----------|
| 14                                 | 44,56      | 160       |
| 15                                 | 47,74      | 160       |
| 16                                 | 50,93      | 160       |
| 17                                 | 54,11      | 160       |
| 18                                 | 57,29      | 160       |
| 19                                 | 60,47      | 160       |
| 20                                 | 63,66      | 160       |
| 21                                 | 66,84      | 160       |
| 22                                 | 70,02      | 160       |
| 23                                 | 73,21      | 160       |
| 24                                 | 76,39      | 160       |
| 26                                 | 82,76      | 160       |
| 28                                 | 89,12      | 160       |
| 30                                 | 95,49      | 160       |
| 32                                 | 101,85     | 160       |
| 34                                 | 108,22     | 160       |
| 36                                 | 114,59     | 160       |
| 38                                 | 120,95     | 160       |
| 40                                 | 127,32     | 160       |
| 45                                 | 143,23     | 160       |
| 48                                 | 152,78     | 160       |
| 60                                 | 190,98     | 160       |
| 72                                 | 229,17     | 160       |

Material: Aluminium  
Materiel: Aluminium  
Werkstoff: Aluminium  
Material: Aluminio

**Note:**

Super Torque 3 mm, 4,5 mm and 5 mm timing bars can be manufactured on request.

Les barres dentées Super Torque 3 mm, 4,5 mm et 5 mm peuvent être fabriquées sur demande.

Super Torque 3 mm, 4,5 mm und 5 mm Zahnstangen können nach anfrage gefertigt werden.

Sobre demanda podemos construir barras dentadas Super Torque 3 mm, 4,5 mm y 5 mm.

TOP DRIVE® HTD 3 mm and 5 mm timing bars can be manufactured on request.

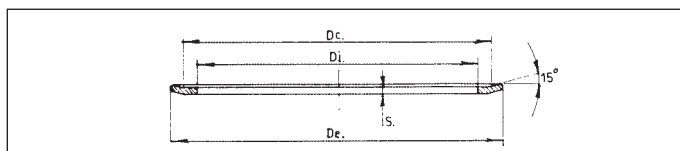
Les barres dentées TOP DRIVE® HTD 3 mm et 5 mm peuvent être fabriquées sur demande.

TOP DRIVE® HTD 3 mm und 5 mm Zahnstangen können nach anfrage gefertigt werden.

Sobre demanda podemos construir barras dentadas TOP DRIVE® HTD 3 mm y 5 mm.

# FLANGES FLASQUES BORDSCHEIBEN VALONAS

| Type<br>Type<br>Typ<br>Tipo   | Di<br>mm | Dc<br>mm | De<br>mm | S<br>mm | XL       | L     | H        | XH    | XXH | T20   | 8 mm     | 14 mm | S<br>mm | 3 mm     | S<br>mm | 4,5 mm | 5 mm     | T2,5     | T5<br>AT5 | T10<br>AT10 |
|---|----------|----------|----------|---------|----------|-------|----------|-------|-----|-------|----------|-------|---------|----------|---------|--------|----------|----------|-----------|-------------|
| Number of teeth - Numero de dents - Anzahl der Zähne - Numero dientes |          |          |          |         |          |       |          |       |     |       |          |       |         |          |         |        |          |          |           |             |
| 0/0   | 6,5      | -        | 12       | 0,6     |          |       |          |       |     |       |          |       | 0,5     | 10       | 1       |        |          | 12-13    |           |             |
| 0/1   | 8,5      | -        | 16       | 1       |          |       |          |       |     |       |          |       | 0,5     | 12-13    | 1       |        |          | 14-15    |           |             |
| 0/2   | 10       | -        | 18       | 1       |          |       |          |       |     |       |          |       | 0,5     | 14       | 1       |        |          | 16-17-18 | 10        |             |
| 0/3   | 12,5     | -        | 21,5     | 1       |          |       |          |       |     |       |          |       | 0,5     |          | 1       | 12     |          | 19       |           |             |
| 0/4   | 9        | -        | 16       | 1       |          |       |          |       |     |       |          |       | 0,5     | 15       | 1       |        |          |          |           |             |
| 1   | 13       | 17       | 20       | 1       | 10-11    |       |          |       |     |       |          |       | 0,5     | 16-18-19 | 1       | 13     |          | 20-21-22 | 11        |             |
| 1/1   | 15       | 19       | 23       | 1       |          |       |          |       |     |       |          |       | 0,5     | 20       | 1       |        | 12       | 24       | 12        |             |
| 2   | 16       | 21       | 24       | 1       | 12-13    |       |          |       |     |       |          |       | 0,5     | 21       | 1       | 14-15  | 14       | 25-36    | 14        |             |
| 2/1   | 17       | 22       | 25       | 1       |          |       |          |       |     |       |          |       | 0,5     | 22-23    | 1       |        |          |          |           |             |
| 3   | 19       | 24       | 27       | 1       | 14-15    |       |          |       |     |       |          |       | 0,5     | 24-26    | 1       | 16-17  | 15-16    | 28-29-30 | 15        |             |
| 3/1   | 21       | 26,5     | 29,5     | 1       |          |       |          |       |     |       |          |       | 0,5     |          | 1       |        |          |          |           |             |
| 4   | 22       | 27       | 30       | 1       | 16-17    |       |          |       |     |       |          |       | 0,5     | 27-28-29 | 1       | 18-19  | 17-18    | 32-33-34 | 16-17-18  |             |
| 5   | 25       | 30       | 33       | 1,5     | 18       | 10    |          |       |     |       |          |       | 0,5     | 30-31-32 | 1       | 20-21  | 20       | 35-36-37 | 19-20     |             |
| 6   | 28       | 32       | 36       | 1,5     | 19-20    | 11    |          |       |     |       |          |       | 0,5     | 33-34-35 | 1       | 22-23  | 21-22    | 38-39-40 | 21-22     |             |
| 6/1   | 31       | -        | 37       | 1,5     |          |       |          |       |     |       |          |       | 0,5     |          | 1       |        |          |          |           |             |
| 7   | 31       | 36       | 40       | 1,5     | 21-22-23 | 12    |          |       |     |       |          |       | 0,5     | 36÷39    | 1       | 25-26  | 24       | 42-44    | 24        | 12          |
| 7/1   | 34       | 40       | 47       | 1,5     |          | 13    |          |       |     |       | 16-17    |       | 0,5     |          | 1       | 27-28  |          |          |           | 13          |
| 8   | 35       | 42       | 46       | 1,5     | 24-25-26 | 14    |          |       |     |       |          |       | 0,5     | 40-42-44 | 1       | 29     | 26       |          | 25-26-27  | 14          |
| 8/1   | 36       | 45       | 50       | 1,5     |          |       |          |       |     |       | 18       |       | 0,5     |          | 1       | 30-31  |          |          |           |             |
| 9   | 39       | 46       | 50       | 1,5     | 27-28-29 | 15    | 12       |       |     |       | 19       |       | 0,5     |          | 1       | 32-33  | 28-29-30 |          | 28-29-30  | 15          |
| 9/1   | 41       | 50       | 55       | 1,5     |          |       |          |       |     |       | 20       |       | 0,5     |          | 1       | 34     |          |          |           |             |
| 10  | 43       | 48       | 55       | 1,5     | 30       | 16-17 |          |       |     |       | 21       |       | 0,5     |          | 1       | 35-36  | 32       |          | 31-32-33  | 16          |
| 10/1  | 47       | 52       | 57       | 1,5     | 32       |       |          |       |     |       |          |       | 0,5     |          | 1       |        |          |          |           |             |
| 11  | 47       | 55       | 62       | 1,5     | 35-36    | 18-19 | 14       |       |     |       | 22-23    |       | 0,5     |          | 1       | 37-38  | 36       |          | 34-36     | 17-18       |
| 11/1  | 51       | 61       | 67       | 1,5     |          |       | 15       |       |     |       |          |       | 0,5     | 64       | 1       | 39-40  |          |          |           |             |
| 12  | 53       | 60       | 67       | 1,5     |          | 20-21 | 16       |       |     |       | 24-25    |       | 0,5     |          | 1       | 41     | 40       |          | 37-38-40  | 19-20       |
| 13  | 56       | 65       | 73       | 1,5     | 40-42    | 22-23 |          |       |     |       | 26-27    |       | 0,5     |          | 1       |        |          |          | 41-42     | 21-22       |
| 13/1  | 60       | 70       | 77       | 1,5     | 44       |       |          | 17    |     |       | 28       |       | 0,5     |          | 1       |        |          |          |           | 23          |
| 14  | 64       | 72       | 80       | 1,5     |          | 24-25 | 18       |       |     |       | 29       |       | 0,5     |          | 1       |        |          |          |           | 24          |
| 15  | 68       | 79       | 84       | 1,5     | 48       |       | 19       |       |     |       | 30-31    |       | 0,5     |          | 1       |        |          |          |           | 25          |
| 16  | 71       | 80       | 88       | 1,5     |          | 26-27 | 20       |       |     |       | 32-33    |       | 0,5     |          | 1       |        |          |          |           | 26-27       |
| 16/1  | 75       | 84       | 90       | 1,5     |          |       |          |       |     |       |          |       | 0,5     |          | 1       |        |          |          |           |             |
| 17  | 78       | 88       | 94       | 1,5     | 52       | 28-29 | 21-22    |       |     |       | 34-35    |       | 0,5     |          | 1       |        |          |          |           | 28-29       |
| 18  | 80       | 90       | 98       | 1,5     | 57       | 30    | 23       |       |     | 15    | 36       |       | 0,5     |          | 1       |        |          |          |           | 30          |
| 19  | 83       | 94       | 100      | 1,5     |          | 31-32 |          |       |     |       | 37       |       | 0,5     |          | 1       |        |          | 60       |           | 31          |
| 20  | 88       | 96       | 104      | 1,5     |          | 24-25 |          |       |     |       | 38-39    |       | 0,5     |          | 1       |        | 60       |          |           |             |
| 20/1  | 90       | 101      | 108      | 1,5     | 60       | 33    | 26       |       |     |       | 40       |       | 0,5     |          | 1       |        | 64       |          |           |             |
| 21  | 93       | 102      | 108      | 1,5     |          | 34    |          |       |     |       | 41       |       | 0,5     |          | 1       |        |          |          |           | 32-33       |
| 21/1  | 94       | 106      | 111      | 1,5     |          |       |          |       |     |       | 42       |       | 0,5     |          | 1       |        |          | 66       |           |             |
| 22  | 96       | 105      | 113      | 1,5     |          | 35-36 | 27       |       |     |       | 43       |       | 0,5     |          | 1       |        |          | 68       |           | 34-35       |
| 23  | 102      | 112      | 118      | 1,5     |          | 37    | 28       |       |     | 18    |          |       | 0,5     |          | 1       |        |          |          |           | 36          |
| 24  | 104      | 113      | 121      | 1,5     | 72       | 38-39 | 29       |       |     |       | 44-45    | 28-29 | 0,5     |          | 1       |        |          |          |           | 37          |
| 24/1  | 105      | 120      | 127      | 1,5     |          |       |          |       |     | 19    | 46-47    |       | 0,5     |          | 1       |        |          |          |           | 38          |
| 25  | 108      | 125      | 134      | 2,5     |          |       |          | 18    |     |       |          |       | 0,5     |          | 1       |        |          |          |           |             |
| 26  | 112      | 121      | 129      | 1,5     |          | 40-41 | 30       |       |     | 20    | 48-49    |       | 0,5     |          | 1       |        |          |          |           | 39-40       |
| 26/1  | 115      | 126      | 131      | 1,5     |          |       | 31       |       |     |       | 50       |       | 0,5     |          | 1       |        |          |          |           |             |
| 27  | 115      | 132      | 142      | 2,5     |          |       |          | 19    |     |       |          | 30    | 0,5     |          | 1       |        |          |          |           |             |
| 28  | 120      | 128      | 137      | 1,5     |          | 42-43 | 32-33    |       |     | 21    | 51-52    | 31-32 | 0,5     |          | 1       |        |          |          |           |             |
| 29  | 122      | 138      | 150      | 2,5     |          |       |          | 20    |     |       |          |       | 0,5     |          | 1       |        |          |          |           |             |
| 30  | 126      | 136      | 150      | 1,5     |          | 44-45 | 34       |       |     | 22    | 53-54    |       | 0,5     |          | 1       |        |          | 86       |           |             |
| 31  | 130      | 140      | 145      | 1,5     |          | 46    | 35       |       |     |       | 55       |       | 0,5     |          | 1       |        |          |          |           |             |
| 32  | 130      | 146      | 158      | 2,5     |          |       |          | 21    |     |       |          | 33-34 | 0,5     |          | 1       |        |          |          |           |             |
| 33  | 134      | 141      | 149      | 1,5     |          | 47    |          |       |     | 23    | 56-57    |       | 0,5     |          | 1       |        |          |          |           |             |
| 34  | 135      | 145      | 151      | 1,5     |          | 48    | 36       |       |     |       | 58       |       | 0,5     |          | 1       |        |          |          |           |             |
| 34/1  | 142      | 154      | 158      | 1,5     |          | 49    | 37       |       |     | 24    | 59-60-61 |       | 0,5     |          | 1       |        |          |          |           |             |
| 35  | 136      | 153      | 166      | 2,5     |          |       |          | 22-23 |     |       |          | 35-36 | 0,5     |          | 1       |        |          |          |           |             |
| 36  | 143      | 152      | 158      | 1,5     |          | 50-51 | 38       |       |     | 25    | 62       |       | 0,5     |          | 1       |        |          |          |           |             |
| 36/1  | 148      | 158      | 166      | 1,5     |          | 52    | 39       |       |     |       |          |       | 0,5     |          | 1       |        |          |          |           |             |
| 37  | 149      | 167      | 177      | 2,5     |          |       |          | 24    |     |       |          | 37-38 | 0,5     |          | 1       |        |          |          |           |             |
| 38  | 151      | 160      | 168      | 1,5     |          | 53-54 | 40       |       |     | 26    | 63-64-65 |       | 0,5     |          | 1       |        |          |          |           |             |
| 39  | 156      | 176      | 186      | 2,5     |          |       |          | 25    | 18  |       |          | 39-40 | 0,5     |          | 1       |        |          |          |           |             |
| 40  | 158      | 167      | 175      | 1,5     |          | 55-56 | 41-42    |       |     | 27    | 66-67    |       | 0,5     |          | 1       |        |          |          |           |             |
| 40/1  | 161      | 176      | 182      | 1,5     |          |       |          |       |     | 28    | 68-69-70 |       | 0,5     |          | 1       |        |          |          |           |             |
| 41  | 165      | 181      | 191      | 2,5     |          |       |          | 26    |     |       |          | 41-42 | 0,5     |          | 1       |        |          |          |           |             |
| 42  | 166      | 176      | 182      | 1,5     |          | 57-58 | 43       |       |     |       |          |       | 0,5     |          | 1       |        |          |          |           |             |
| 42/1  | 170      | 184      | 191      | 1,5     |          |       | 44       |       |     | 29-30 | 71-72    |       | 0,5     |          | 1       |        |          |          |           |             |
| 43  | 166      | 188      | 200      | 2,5     |          |       |          | 27    | 19  |       |          | 43    | 0,5     |          | 1       |        |          |          |           |             |
| 44  | 172      | 177      | 189      | 1,5     |          | 59-60 | 45-46    |       |     |       |          |       | 0,5     |          | 1       |        |          |          |           |             |
| 45  | 177      | 197      | 209      | 2,5     |          |       |          |       | 20  |       |          | 44-45 | 0,5     |          | 1       |        |          |          |           |             |
| 46  | 182      | 193      | 199      | 1,5     |          |       | 47-48    | 28    |     |       |          |       | 0,5     |          | 1       |        |          |          |           |             |
| 47  | 180      | 195      | 202      | 1,5     |          |       | 49-50    |       |     | 31-32 |          |       | 0,5     |          | 1       |        |          |          |           |             |
| 48  | 194      | 210      | 216      | 2,5     |          |       | 51-52-53 | 30    | 21  |       |          | 48    | 0,5     |          | 1       |        |          |          |           |             |
| 49  | 208      | 224      | 232      | 2,5     |          |       | 54-55-56 | 32    | 22  |       |          | 50    | 0,5     |          | 1       |        |          |          |           |             |
| 50  | 222      | 238      | 261      | 2,5     |          |       | 57-58-59 | 34    | 24  |       |          | 54-55 | 0,5     |          | 1       |        |          |          |           |             |
| 51  | 232      | 252      | 261      | 2,5     |          |       | 60-61    | 36    | 25  |       |          | 56-57 | 0,5     |          | 1       |        |          |          |           |             |
| 51/1  | 238      | 261      | 272      | 2,5     |          |       | 62-63    |       | 26  |       |          | 58-59 | 0,5     |          | 1       |        |          |          |           |             |
| 52  | 250      | 266      | 274      | 2,5     |          |       | 64-65-66 | 38    |     |       |          | 60    | 0,5     |          | 1       |        |          |          |           |             |
| 52/1  | 260      | 277      | 288      | 2,5     |          |       | 67-68    | 40    | 28  |       |          | 62    | 0,5     |          | 1       |        |          |          |           |             |
| 53  | 264      | 280      | 288      | 2,5     |          | 90    | 69-70    |       |     |       |          | 63-64 | 0,5     |          | 1       |        |          |          |           |             |



**ALUMINIUM CLAMPING PLATES FOR TIMING BELTS**  
**PLAQUES TENDEUSES EN ALUMINIUM POUR COURROIES OUVERTES**  
**ALUMINIUM SPANPLATTEN FÜR ZAHNRIEMENENDEN**  
**LAMINAS TENSORAS IN ALUMINIO PARA CORREAS A METROS**

| Pitch<br>Pas<br>Teilung<br>Paso | b | d   | e   | L    | H  | Belt width - Largeur courroie - Riemen Breite - Anchura correa <b>A</b> (mm) |    |    |    |    |    |
|---------------------------------|---|-----|-----|------|----|--|----|----|----|----|----|
|                                 |   |     |     |      |    | 6  | 10 | 16 | 25 | 32 | 50 |
|                                 |   |     |     |      |    | B  |    |    |    |    |    |
| <b>T5</b>                       | 6 | 5,5 | 3,4 | 41,8 | 8  | –  | 29 | 35 | 44 | –  | –  |
| <b>AT5</b>                      | 6 | 5,5 | 3,4 | 41,8 | 8  | –  | 29 | 35 | 44 | –  | –  |
| <b>T10</b>                      | 8 | 9   | 5   | 80   | 15 | –  | –  | 41 | 50 | 57 | 75 |
| <b>AT10</b>                     | 8 | 9   | 5   | 80   | 15 | –  | –  | 41 | 50 | 57 | 75 |

| Pitch<br>Pas<br>Teilung<br>Paso | b  | d   | e   | L     | H  | Belt width - Largeur courroie - Riemen Breite - Anchura correa <b>A</b> (mm) |      |      |     |     |      |
|---------------------------------|----|-----|-----|-------|----|--|------|------|-----|-----|------|
|                                 |    |     |     |       |    | 0,25   | 031* | 037  | 050 | 075 | 100  |
|                                 |    |     |     |       |    | B  |      |      |     |     |      |
| <b>XL</b>                       | 6  | 5,5 | 3,5 | 42,5  | 8  | 25,5   | 27   | 28,5 | –   | –   | –    |
| <b>L</b>                        | 8  | 9   | 5   | 76,6  | 15 | –  | –    | –    | 39  | 45  | 51,5 |
| <b>H</b>                        | 10 | 11  | 9   | 106,9 | 22 | –  | –    | –    | 45  | 51  | 57,5 |

| Pitch<br>Pas<br>Teilung<br>Paso | b | d   | e   | L    | H | Belt width - Largeur courroie - Riemen Breite - Anchura correa <b>A</b> (mm) |    |    |    |
|---------------------------------|---|-----|-----|------|---|--|----|----|----|
|                                 |   |     |     |      |   | 6  | 9  | 15 | 25 |
|                                 |   |     |     |      |   | B  |    |    |    |
| <b>3M</b>                       | 5 | 4,5 | 2   | 25   | 5 | 21   | 24 | 30 | –  |
| <b>5M</b>                       | 6 | 5,5 | 3,4 | 41,8 | 8 | –  | 28 | 34 | 44 |

| Pitch<br>Pas<br>Teilung<br>Paso | b  | d  | e | L   | H  | Belt width - Largeur courroie - Riemen Breite - Anchura correa <b>A</b> (mm) |    |    |    |    |    |    |     |     |     |
|---------------------------------|----|----|---|-----|----|--|----|----|----|----|----|----|-----|-----|-----|
|                                 |    |    |   |     |    | 15   | 20 | 25 | 30 | 40 | 50 | 55 | 85  | 115 | 170 |
|                                 |    |    |   |     |    | B  |    |    |    |    |    |    |     |     |     |
| <b>8M</b>                       | 8  | 9  | 5 | 66  | 15 | 40   | 45 | –  | 55 | –  | 75 | –  | 110 | –   | –   |
| <b>14M</b>                      | 10 | 11 | 9 | 116 | 22 | –  | –  | –  | –  | 71 | –  | 86 | 116 | 146 | 201 |

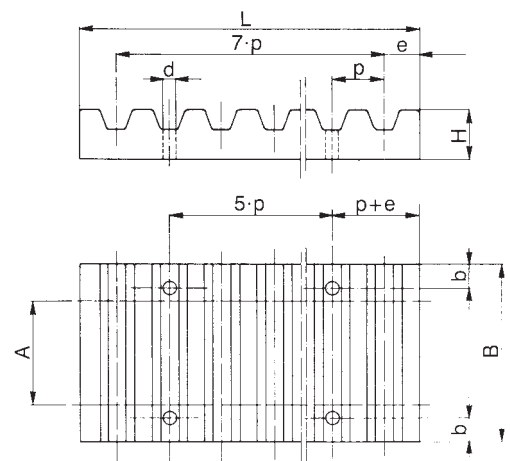
**How to order**

**Designation**

**Bestell bei spiel**

**Identificacion**

|     |    |   |    |  |
|-----|----|---|----|--|
| PIA | T5 | / | 16 |  |
|     |    |   |    | Belt width - Largeur courroie<br>Riemen Breite - Anchura correa (mm) |
|     |    |   |    | Pitch - Pas - Teilung - Paso   |
|     |    |   |    | Product prefix - Indicatif du produit<br>Artikel Gruppe - Código     |





## SER-SIT® TAPER LOCK BUSHING

SER-SIT® taper lock bush is designed to give the following:

- 1) perfect assembly;
- 2) rapid dismantling of the pulley and other transmission equipment;
- 3) no special tools requirement except hexagonal key.

The large range of finished bores available ensures that an immediate assembly can be made thus avoiding costly factory down-time.

The bushes are machined with keyways in accordance with UNI and DIN specifications. This is in addition to clamping screws which, in many cases, are sufficient to meet the required torque.

Fastening by SER-SIT® bushes allows the removal of any clearance between hub and bore so that fretting corrosion is positively eliminated. SER-SIT® bushes are interchangeable with all similar types sold throughout the world.

## MOYEU AMOVIBLE SER-SIT®

Les moyeux amovibles SER-SIT® permettent un montage techniquement parfait et un démontage rapide des poulies (ainsi que de nombreux organes de transmission) à l'aide uniquement d'une clef hexagonale. La gamme étendue des alésages finis disponibles permet un montage immédiat et économique.

Les moyeux amovibles sont prévus avec rainures de clavettes aux normes DIN et UNI; pour de faibles puissances le serrage du moyeu sur l'arbre est suffisant pour transmettre le couple. Le montage à l'aide des moyeux amovibles SER-SIT® permet d'éliminer le jeu entre l'arbre et l'alésage, ce qui évite la formation de rouille de contact (fretting corrosion).

Les moyeux amovibles SER-SIT® sont interchangeables avec tous les types de moyeux amovibles analogues répandus dans le monde entier.

## SER-SIT® SPANN- BUCHSEN

SER-SIT® Spannbuchsen sind für folgende Eigenschaften entwickelt:

- 1) Perfekte Montage;
- 2) Schnelles Entfernen der Scheiben und anderer Antriebselemente;
- 3) Erfordern kein Spezialwerkzeug, außer einem Imbus-Schlüssel.

Die breite Herstellungspalette der verfügbaren Bohrungen stellt sicher, daß eine sofortige Montage erfolgen kann, hierdurch werden kostspielige Maschinenstandzeiten vermieden. Die Buchsen sind gemäß UNI und DIN Normen mit Paßfedernuten gefertigt, zusätzlich zu den Klemmschrauben, die in vielen Fällen ausreichend sind, um die geforderte Spannung zu erreichen.

SER-SIT® Spannbuchsen können in beliebiger Position auf der Welle montiert werden, so daß Passungsrost weitgehend ausgeschlossen wird.

SER-SIT®-Buchsen sind austauschbar mit allen ähnlichen marktgängigen Typen.

## CASQUILLO CONI- CO SER-SIT®

Los casquillos cónicos SER-SIT® permiten un montaje técnicamente perfecto y un desmontaje de la polea (o otros elementos de transmisión) en un tiempo muy corto y sin necesidad de otro utensilio que una llave exagonal. La amplia gama de casquillos con el taladro terminado disponibles asegura un montaje inmediato sin esperar la mecanización en taller externo o interno con su correspondiente costo.

Los casquillos están terminados en el interior para la chaveta correspondiente según normas DIN y UNI, aunque en muchos casos basta la presión ejercida al apretar los tornillos para transmitir el par requerido. La fijación mediante casquillo cónico SER-SIT® permite eliminar cualquier juego entre el eje y el taladro de modo que evita definitivamente la formación del exido de contacto (fretting corrosion).

El casquillo cónico SER-SIT® es intercambiable con los tipos de casquillos análogos difundidos por todo el mundo.



| type<br>type<br>Typ<br>tipo | Diameter of the bore<br>Diametre des alésage<br>Bohrungsdurchmesser<br>Diámetro del agujero |   | Bush - Moyeu<br>Buchse - Casquillo     |   | Screws - Vis<br>Schrauben - Tornillos |           |  |  |      |
|-----------------------------|---|---|--|---|---------------------------------------|-----------|--|--|------|
|                             |   |   | length<br>longeur<br>Länge<br>longitud | max.<br>diameter<br>max.<br>diametre<br>max.<br>Durchmesser<br>max.<br>diámetro | n°                                    | withworth | length<br>longeur<br>Länge<br>longitud | set screw<br>wrench type<br>clef hexagonale<br>type<br>Imbus-<br>Schlüssel Typ<br>llave exagonal<br>tipo | Ms   |
|                             |   |   |  |   |                                       |           |  |  |      |
|                             |   |   | [mm]                                   | [mm]  |                                       |           | [mm]                                   |  | [Nm] |
| <b>1008</b> (25.20)         | mm<br>inches  | 11 12 14 15 16 18 19 20 22 <b>24 25</b><br>3/4 3/8 1/2 5/8 3/4 7/8 1 1 1/8  | 22,3                                   | 35  | 2                                     | 1/4       | 13                                     | 3  | 5,5  |
| <b>1108</b> (28.20)         | mm<br>inches  | 11 12 14 15 16 17 18 19 20 22 24 25 26 27 <b>28</b><br>3/8 1/2 5/8 3/4 7/8 1 1 1/8  | 22,3                                   | 38  | 2                                     | 1/4       | 13                                     | 3  | 5,5  |
| <b>1210</b> (30.25)         | mm<br>inches  | 11 12 14 15 16 18 19 20 22 24 25 26 28 <b>30 32</b><br>1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 1/2  | 25,4                                   | 47  | 2                                     | 3/8       | 16                                     | 5  | 20   |
| <b>1215</b> (30.40)         | mm<br>inches  | 12 14 15 16 18 19 20 22 24 25 26 28 <b>30 32</b><br>1/2 5/8 3/4 7/8 1 1 1/8 1 1/4   | 38,1                                   | 47  | 2                                     | 3/8       | 16                                     | 5  | 20   |
| <b>1310</b> (35.25)         | mm<br>inches  | 14 16 18 19 20 22 24 25 28 30 32 <b>35</b><br>1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 3/8   | 25,4                                   | 52  | 2                                     | 3/8       | 16                                     | 5  | 20   |
| <b>1610</b> (40.25)         | mm<br>inches  | 12 14 15 16 18 19 20 22 24 25 26 28 30 32 35 38 <b>40 42</b><br>3/8 1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 3/8 1 1/2 1 5/8                               | 25,4                                   | 57  | 2                                     | 3/8       | 16                                     | 5  | 20   |
| <b>1615</b> (40.40)         | mm<br>inches  | 12 14 15 16 18 19 20 22 24 25 26 28 30 32 35 38 <b>40 42</b><br>1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 3/8 1 1/2 1 5/8 1 3/4                             | 38,1                                   | 57  | 2                                     | 3/8       | 16                                     | 5  | 20   |
| <b>2012</b> (50.30)         | mm<br>inches  | 14 15 16 18 19 20 22 24 25 26 28 30 32 35 38 40 42 45 48 <b>50</b><br>5/8 3/4 7/8 1 1 1/8 1 1/4 1 3/8 1 1/2 1 5/8 1 3/4 1 7/8 2                   | 31,8                                   | 70  | 2                                     | 7/16      | 22                                     | 5  | 20   |
| <b>2517</b> (65.45)         | mm<br>inches  | 18 19 20 22 24 25 28 30 32 35 38 40 42 45 48 50 55 60 <b>65</b><br>3/4 7/8 1 1 1/8 1 1/4 1 3/8 1 1/2 1 5/8 1 3/4 1 7/8 2 2 1/8 2 1/4 2 3/8 2 1/2  | 44,5                                   | 85  | 2                                     | 1/2       | 25                                     | 6  | 50   |
| <b>3020</b> (75.50)         | mm<br>inches  | 22 25 28 30 32 35 38 40 42 45 48 50 55 57 60 65 70 <b>75</b><br>1 1/4 1 3/8 1 1/2 1 5/8 1 3/4 1 7/8 2 2 1/8 2 1/4 2 3/8 2 1/2 2 5/8 2 3/4 2 7/8 3 | 50,8                                   | 108   | 2                                     | 5/8       | 32                                     | 8  | 90   |
| <b>3030</b> (75.75)         | mm<br>inches  | 42 45 47 48 50 55 60 65 70 <b>75</b><br>1 1/4 1 3/8 1 1/2 1 5/8 1 3/4 1 7/8 2 2 1/8 2 1/4 2 3/8 2 1/2 2 5/8 2 3/4 2 7/8 3                         | 76,2                                   | 108   | 2                                     | 5/8       | 32                                     | 8  | 90   |
| <b>3535</b> (90.90)         | mm<br>inches  | 25 35 38 40 42 45 48 50 55 60 65 70 75 80 85 90<br>1 1/2 1 5/8 1 3/4 1 7/8 2 2 1/8 2 1/4 2 3/8 2 1/2 2 5/8 2 3/4 2 7/8 3 3 1/8 3 1/4 3 3/8 3 1/2  | 88,9                                   | 127   | 3                                     | 1/2       | 38                                     | 10   | 115  |
| <b>4040</b> (100.100)       | mm<br>inches  | 45 50 55 60 65 70 75 80 85 90 95 100<br>1 3/4 2 2 3/4 3 1/2 3 3/4 4   | 101,6                                  | 146   | 3                                     | 5/8       | 44                                     | 14   | 170  |
| <b>4545</b> (115.115)       | mm<br>inches  | 55 60 65 70 75 80 85 90 95 100 105 110<br>3 3 1/2 4   | 114,3                                  | 162   | 3                                     | 3/4       | 51                                     | 14   | 195  |
| <b>5050</b> (125.125)       | mm<br>inches  | 50 60 65 70 75 80 85 90 95 100 110 115 120 125<br>3 1/2 4   | 127                                    | 178   | 3                                     | 7/8       | 57                                     | 17   | 275  |

The first group of numbers indicates maximum bore, the second conventional length in mm.

Bore diameters in bold type are made in steel instead of cast iron.

Ms = screw tightening torque

Le premier groupe de chiffres indique l'alésage maxi, le deuxième la longueur conventionnelle en mm.

Les diametres des alesages impimes en gras sont construits en acier, les autres types normalment fournis en fonte

Ms =couple de serrage des vis

In der ersten Spalte wird die max. Bohrung, in der zweiten Spalte die übliche Länge angegeben.

Die fettgedruckten Bohrungsdurchmessern bezeichnen die Stahlbuchsen.

Ms = Festzieh-Drehmoment der Schrauben

El primer grupo de cifras indica el agujero máximo y el segundo la longitud convencional en mm.

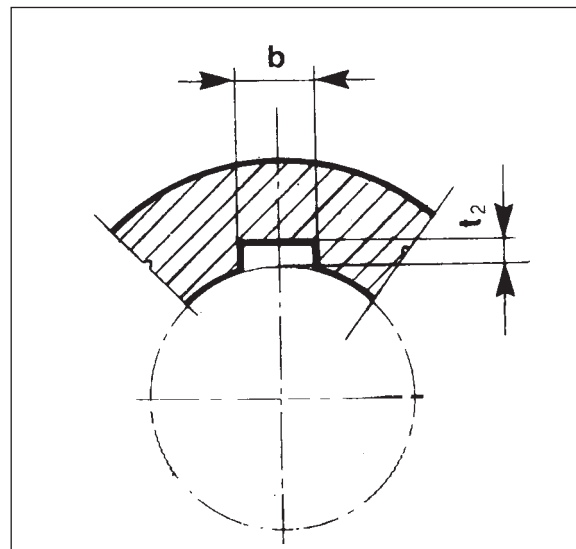
Los diámetros de agujero indicados en negrita indica los casquillos fabricados in acero, siendo normalmente los otros suministrados en fundicion.

Ms = par de apriete del tornillo

| Keyway, Rainures, Paßfedernutsitz, Alojamiento chaveta en bu-<br>je: |           |                        |
|--|-----------|------------------------|
| UNI 6604-69 / DIN 6885   |           |                        |
| bore diameter<br>alésage<br>Bohrunge<br>buje<br>[mm]                 | b<br>[mm] | t <sub>2</sub><br>[mm] |
| 10÷12  | 4         | 1,8                    |
| 13÷17  | 5         | 2,3                    |
| 18÷22  | 6         | 2,8                    |
| 23÷30  | 8         | 3,3                    |
| 31÷38  | 10        | 3,3                    |
| 39÷44  | 12        | 3,3                    |
| 45÷50  | 14        | 3,8                    |
| 51÷58  | 16        | 4,3                    |
| 59÷65  | 18        | 4,4                    |
| 66÷75  | 20        | 4,9                    |
| 76÷85  | 22        | 5,4                    |
| 86÷95  | 25        | 5,4                    |
| 96÷110   | 28        | 6,4                    |
| 111÷130  | 32        | 7,4                    |

| Reduced keyway only when the undermentioned bores are the maximum bores and only in the bushing types shown in table.<br>Rainures réduites pour les alésages maxi. uniquement pour moyeux ci-dessous.<br>Reduzierte Paßfedernutenhöhe nur anwendbar bei max. Bohrungsdurchmesser und bei den untengenannten Buchsentypen.<br>Alojamiento chaveta reducida solo en caso en que el taladro indicados sea el agujero máximo, y solo en los casquillos sub-rallados. |  |           |                        |
|--|--|-----------|------------------------|
| bore diameter<br>alésage<br>Bohrunge<br>buje<br>[mm]   | bushing type<br>moyeu type<br>Buchsentype<br>tipo de casquillo | b<br>[mm] | t <sub>2</sub><br>[mm] |
| 28   | 1108   | 8         | 2,3                    |
| 32   | 1210 - 1215  | 10        | 2,3                    |
| 40/42  | 1610 - 1615  | 12        | 2,3                    |

| Keyway on SER-SIT® taper bush (B.S. 46)<br>Rainures des moyeux amovibles SER-SIT® (B.S. 46)<br>Paßfedernut für Taper-spannbuchsen SER-SIT® (B.S. 46)<br>Alojamiento chaveta en casquillo conico SER-SIT® (B.S. 46) |               |                            |
|--|---------------|----------------------------|
| bore diameter - alésage<br>Bohrung - agujero<br>[inches]   | b<br>[inches] | t <sub>2</sub><br>[inches] |
| 3/8÷1/2  | 1/8           | 1/16                       |
| 9/16÷3/4   | 3/16          | 3/32                       |
| 13/16÷1  | 1/4           | 1/8                        |
| 1/16÷1-1/4   | 5/16          | 1/8                        |
| 1-5/16÷1-1/2   | 3/8           | 1/8                        |
| 1-5/8÷1-3/4  | 7/16          | 5/32                       |
| 1-7/8÷2  | 1/2           | 5/32                       |
| 2-1/8÷2-1/2  | 5/8           | 7/32                       |
| 2-5/8÷3  | 3/4           | 1/4                        |
| 3-1/8÷3-1/2  | 7/8           | 5/16                       |
| 3-3/4÷4  | 1             | 3/8                        |
| 4-1/4÷5  | 1-1/4         | 7/16                       |



#### Assembly and dismantling of SER-SIT® conical bushing

- Before fitting the bushing, carefully clean the bore and conical parts.
- Fit the bushing into the pulley, taking care to let the threaded half-holes of the pulley coincide with the unthreaded holes of the bushing.
- Hand tighten the screws.
- Fit the pulley to the hub after carefully cleaning it. Position it and tighten the screws alternately.
- Dismantling: remove screws and replace one screw in the jacking hole provided and tighten until hub is released.

NOTE - Ensure that the key does not bottom in the keyway. Clearance in recommended in the keyway bottom.

#### Montage et démontage des moyeux amovibles SER-SIT®

- Avant de placer le moyeu amovible dans la poulie, nettoyer soigneusement son logement et l'alésage.
- Placer le moyeu amovible dans la poulie, en faisant attention de faire coïncider les demi-alésages filetés de la poulie, avec les demi-alésages non filetés du moyeu amovible.
- Engager les vis a la main sans les serrer.
- Présenter le tout sur l'arbre, après l'avoir nettoyé soigneusement, mettre en position et serrer les vis alternativement.
- Pour démonter: Retirer les vis et engager l'une d'elles dans l'alésage libre en visant à fond jusqu'à déblocage du moyeu.

N.B. - Le sommet de la clavette ne doit pas être en contact avec le fond de son logement dans le moyeu - vérifier qu'il subsiste un jeu.

#### Montage und Demontage der SER-SIT® Spannbuchsen

- Von der Montage der Buchse sind die Bohrungen und die konischen Teile sorgfältig zu reinigen.
- Die Buchse in die Scheibe einsetzen und die geschnittenen Halb-bohrungen der Scheibe mit den ungeschnittenen Halbbohrungen der Buchse zusammenfallen lassen.
- Die Schrauben mit der Hand anziehen.
- Nach sorgfältiger Reinigung setzen Sie die Nabe der Scheibe auf die Welle. Richten Sie die Scheibe aus und befestigen Sie die Schrauben gleichmäßig.
- Demontieren Sie die Schrauben, setzen Sie eine Schraube in das vorhandene Gewinde der Abziehvorrichtung ein, und drehen Sie die Schraube bis die Scheibe sich löst.

ANMERKUNG: Stellen Sie sicher, daß die Schraube nicht bis zum Ende des Sachgewindeloches vordringt.

#### Montaje y desmontaje del casquillo cónico SER-SIT®

- Antes de colocar el casquillo cónico en la pulea limpiar cuidadosamente los alojamientos.
- Colocar el casquillo en la pulea, haciendo coincidir el medio taladro roscado de la pulea con el medio taladro sin roscado del casquillo.
- Colocar los tornillos a mano sin apretarlos.
- Presentar el conjunto sobre el eje, después de haberlo limpiado, colocarlo en posición y apretar los tornillos alternativamente.
- Para desmontar: sacar los tornillos y atornillar uno de ellos en los roscados libres, roscando a fondo hasta el desbloqueo del casquillo.

NOTA - El dorso de la chaveta no debe estar en contacto con el fondo de su alojamiento en el casquillo. Verificar que exista un juego.