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# escogear

FLEXIBLE GEAR COUPLINGS

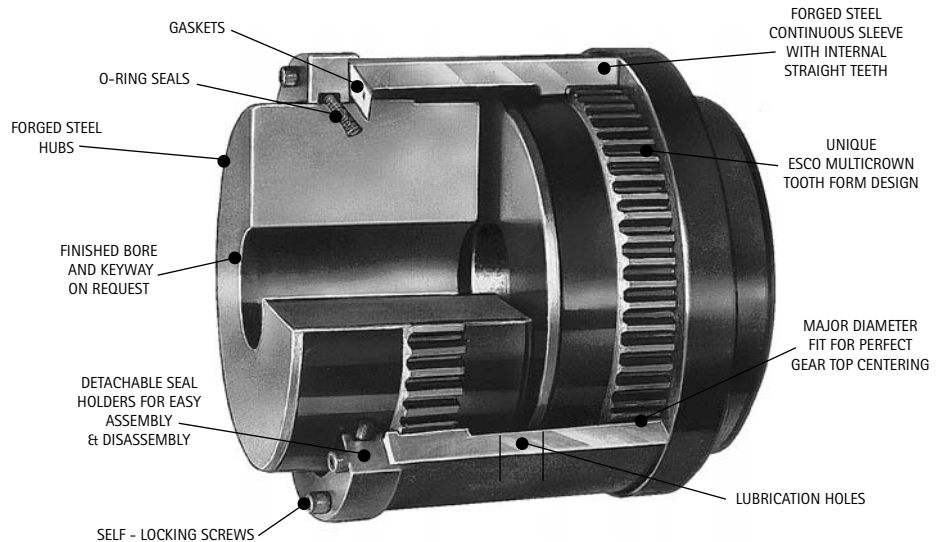
## SERIES C and C... M

### The most compact solution

Maximum torque: up to 174 000 Nm

Bores: up to 290 mm

COMPACT  
SIMPLE AND ROBUST  
EASY TO ASSEMBLE

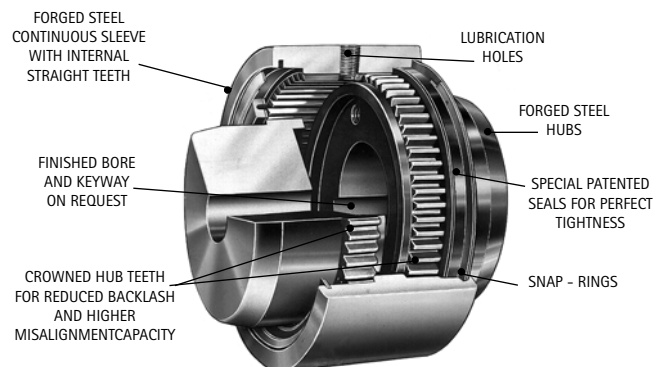


Maximum torque: up to 8 500 Nm

Bores: up to 110 mm

COMPACT  
SIMPLE AND ROBUST  
ONLY 7 PARTS:

*Two snap rings  
Two hubs and one sleeve  
Two seals*

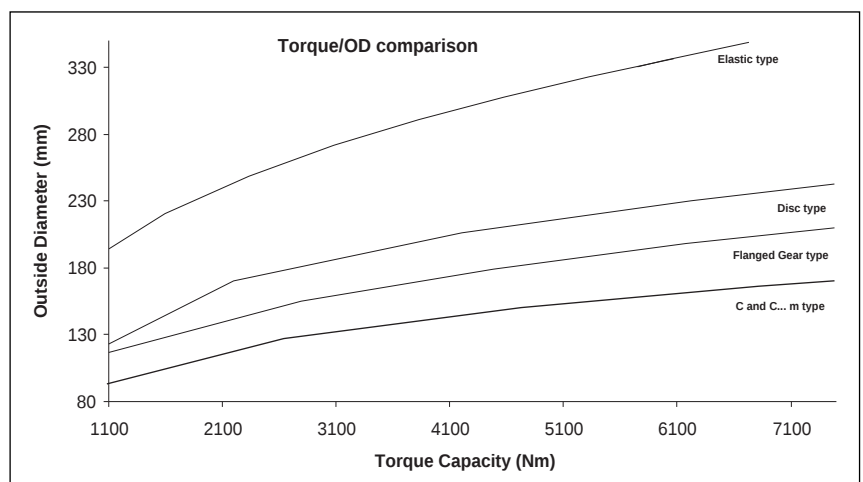


### Most compact solution

Thanks to the high torque capacity and the continuous sleeve design, the escogear C and C... M couplings are the most compact answer to any transmission applications. In comparison to other types of couplings and for a given torque they have a substantially lower weight and reduced outside diameter:

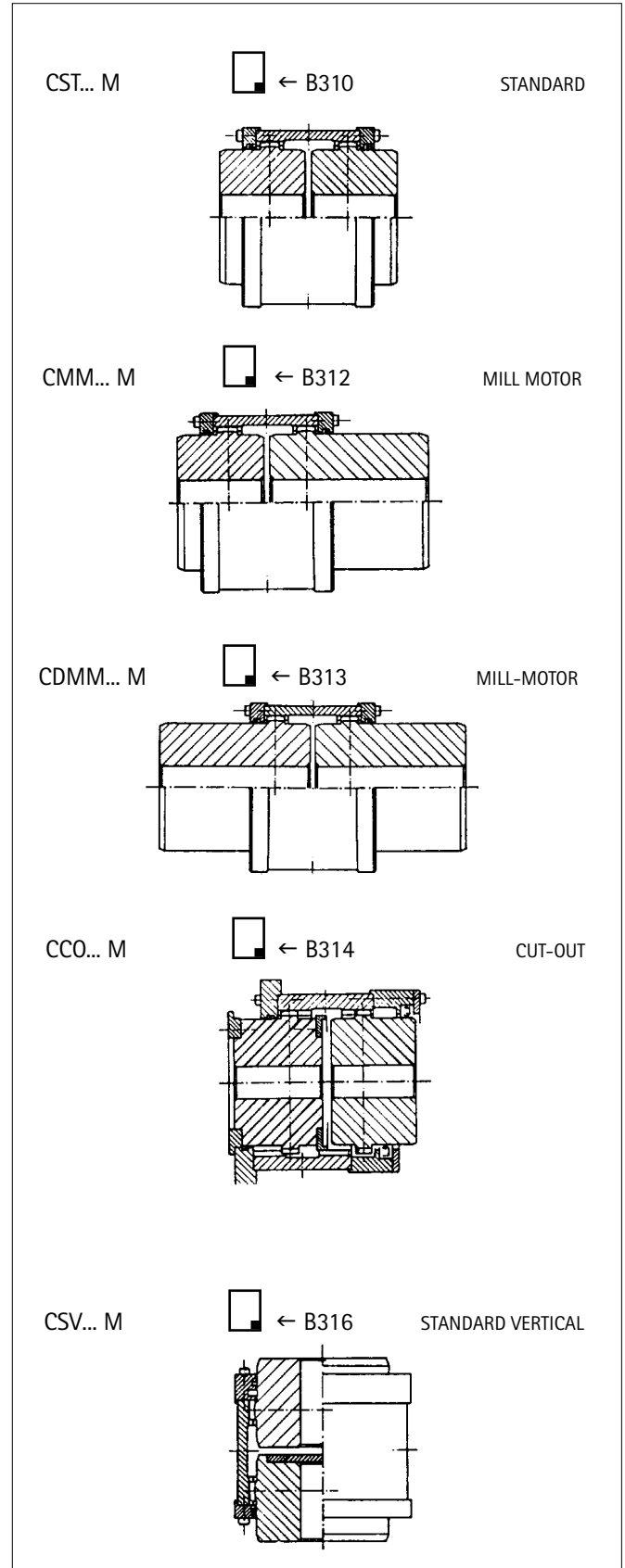
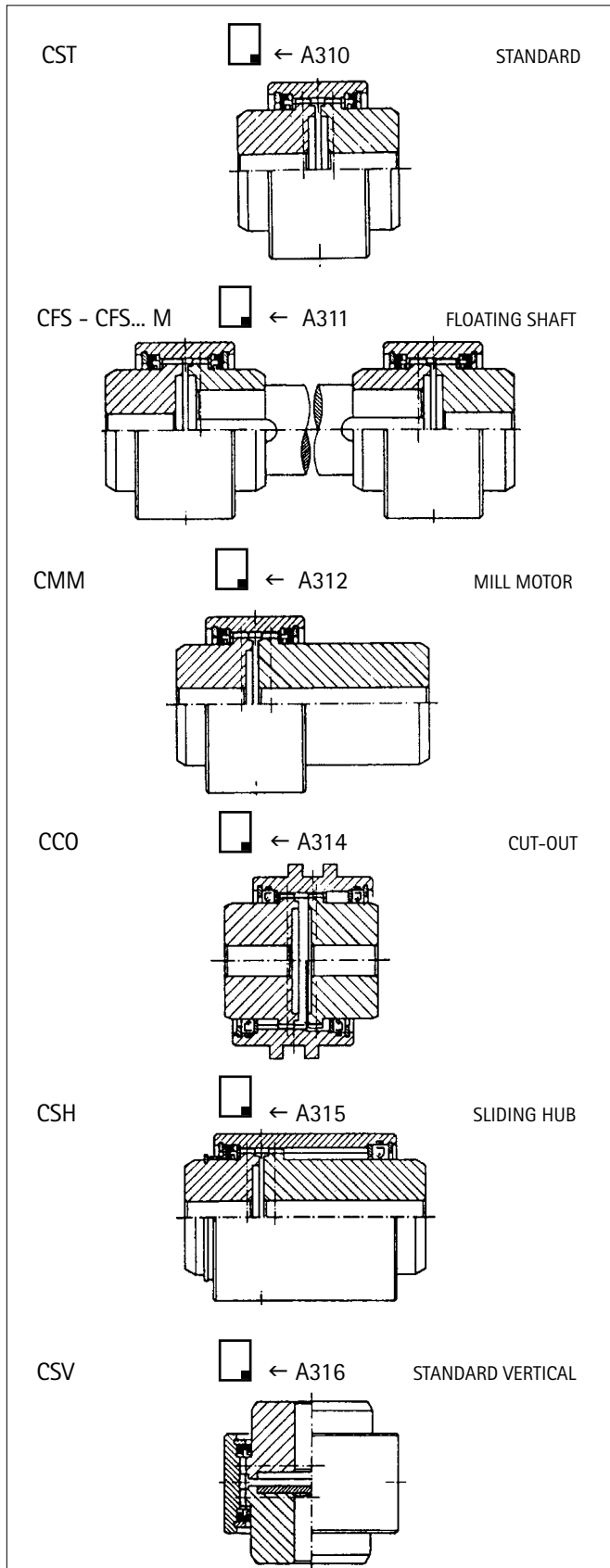
<-> Flanged Gear type : 17% smaller O.D.  
<-> Disc type : 30% smaller O.D.  
<-> Elastic type : 52% smaller O.D.

This compactness makes the escogear C series ideal for use in applications where space is limited and weight important





## AVAILABILITIES



## HOW TO SELECT THE RIGHT COUPLING SIZE

**A.** Select the size of ESCOGEAR coupling that will accommodate the largest shaft diameter.

**B.** Make sure this coupling has the required torque capacity according to following formula: torque in Nm =  $\frac{9550 \times P \times F_u \times F_{Ex}}{n}$

P = power in kW; n = speed in rpm;  $F_u$  = service factor according to tabulation 1.

$F_{Ex} = 2$  in case of use in potentially explosive atmospheres  $Ex$ , European Directive 94/9/EC. In normal atmospheres,  $F_{Ex} = 1$ .

The coupling selected per **(A)** must have an equal or greater torque capacity than the result of the formula **(B)**. If not select a larger size coupling. Check if application peak torque does not exceed tabulated peak torque  $T_p$  indicated planographs A310 to B317.

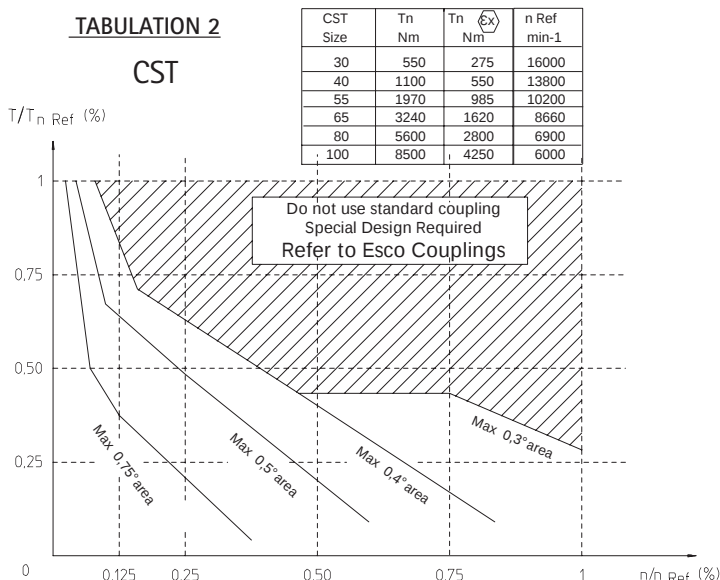
Check also max. allowable misalignment using the graph of tabulations 2 and 3.

**C.** Check if shaft/hub connection will transmit the torque. If necessary, select a longer hub.

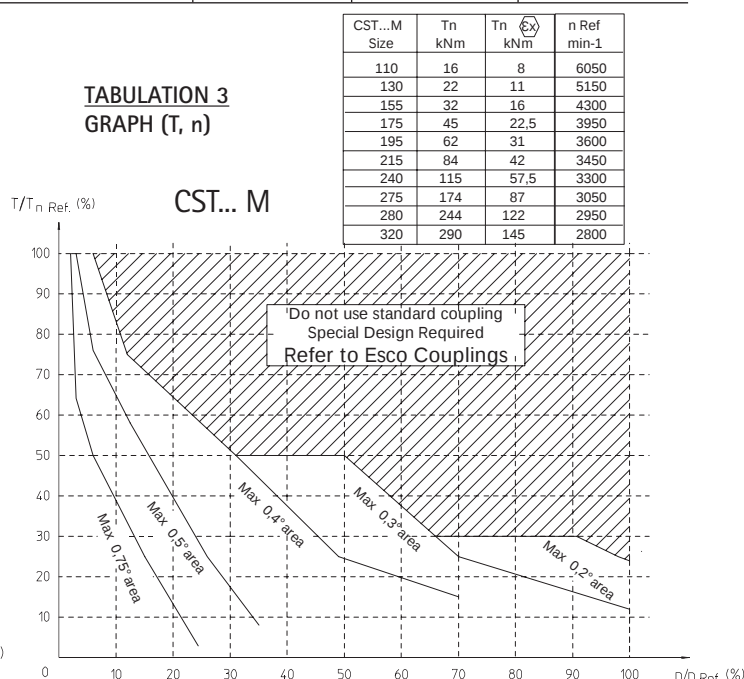
**D.** Read carefully assembly and maintenance instructions IM/A300 and IM/B300.

| DRIVEN MACHINE  |                                                                                                                                                                                                                                                                                                                                                                                           | APPLICATIONS | DRIVER MACHINE              |                                   |                                                         |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------|-----------------------------------|---------------------------------------------------------|
|                 |                                                                                                                                                                                                                                                                                                                                                                                           |              | Electric motors<br>Turbines | Hydraulic motors<br>Gears drivers | Reciprocating engine<br>Electric motors frequent starts |
| UNIFORM         | Generators - Blowers: centrifugal vane, fans - Centrifugal pumps and compressors - Machine tools: auxiliary drives - Conveyors: belt and chain, uniformly loaded, escalators - Can filling machines and bottling machinery - Agitators: pure liquids.                                                                                                                                     |              | 0,8 to 1,25                 | 1 to 1,5                          | 1,25 to 1,75                                            |
|                 | Propeller - Waterjet pumps                                                                                                                                                                                                                                                                                                                                                                |              | 1,25                        | 1,5                               | 1,75                                                    |
| Moderate SHOCKS | Blowers: lobe - Pumps: gear and lobe types - Vane compressors - Machine tools: main drives - Conveyors: belt and chain not uniformly fed bucket and screw - Elevators, cranes, tackles and winches - Wire winding machines, reels, winders (paper industry) - Agitators liquids and solids, liquids variable density.                                                                     |              | 1,25 to 1,5                 | 1,5 to 1,75                       | 1,75 to 2                                               |
| HEAVY SHOCKS    | Generators (welding) - Reciprocating pumps and compressors - Laundry washers - Bending roll, punch press, tapping machines - Barkers, calanders, paper presses - Briquetter machines, cement furnace - Crushers: ore and stone, hammer mill, rubber mill - Metal mills: forming machines, table conveyors - Draw Bench, wire drawing and flattening machines - Road & railroad equipment. |              | 1,5 to 2                    | 1,75 to 2,25                      | 2 to 2,5                                                |

### 1) MAXIMUM MISALIGNMENT



### TABULATION 3 GRAPH (T, n)



#### HOW TO USE THE GRAPH ?

Maximum torque, maximum speed and maximum misalignment may not occur simultaneously.

Graph must be used as follows:

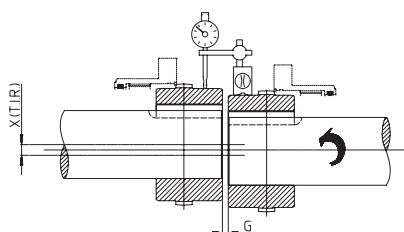
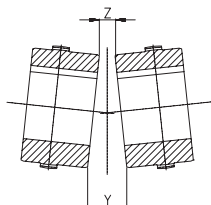
1. Calculate  $T_n$  and  $T_p$  and select coupling size as usual.  $T_n$  = nominal torque;  $T_p$  = peak torque
2. Calculate  $T_n/T_n\text{Ref}$  and  $n/n\text{Ref}$  and plot the resulting point in the graph.
3. If the resulting point is located in the white area, a standard coupling may be used as far as maximum misalignment doesn't exceed the maximum misalignment indicated in the graph.
4. If the resulting point is located in the shaded area, refer to ESCO
5. In case of use in potentially explosive atmospheres  $Ex$ , proceed the same way but using  $T_n\text{Ref } Ex$  for the calculation. Max misalignment may not exceed 0,5° per gear mesh.

2) MINIMUM MISALIGNMENT =  $\Delta K_{w\min} = 0,1^\circ$

### 3) MISALIGNMENT CONTROL

1- Measure X (TIR) - 2- Measure Y-Z - 3- Verify the relationship for the misalignment control:  $\Delta K_{w\min} \leq \frac{X}{K_x} + \frac{Y-Z}{K_y} \leq 0,75 \times \Delta K_{w\max}$

| CST...M | K <sub>x</sub> | K <sub>y</sub> |
|---------|----------------|----------------|
| 110     | 3,80           | 5,27           |
| 130     | 4,47           | 6,21           |
| 155     | 5,03           | 7,44           |
| 175     | 5,72           | 8,20           |
| 195     | 6,35           | 9,18           |
| 215     | 7,47           | 9,98           |
| 240     | 8,24           | 11,00          |
| 275     | 9,18           | 12,99          |



### 4) EXAMPLES:

#### Calculation

$$\left. \begin{array}{l} T/T_n \text{ ref} = 30\% \\ n/n_{\text{ref}} = 30\% \end{array} \right\} \Delta K_{w\max} = 0,4^\circ$$

CST...M 175: K<sub>x</sub> = 5,72 K<sub>y</sub> = 8,2

#### Measurement

$$X \text{ (TIR)} = 0,9 \text{ mm} \quad Y-Z = 0,4 \text{ mm}$$

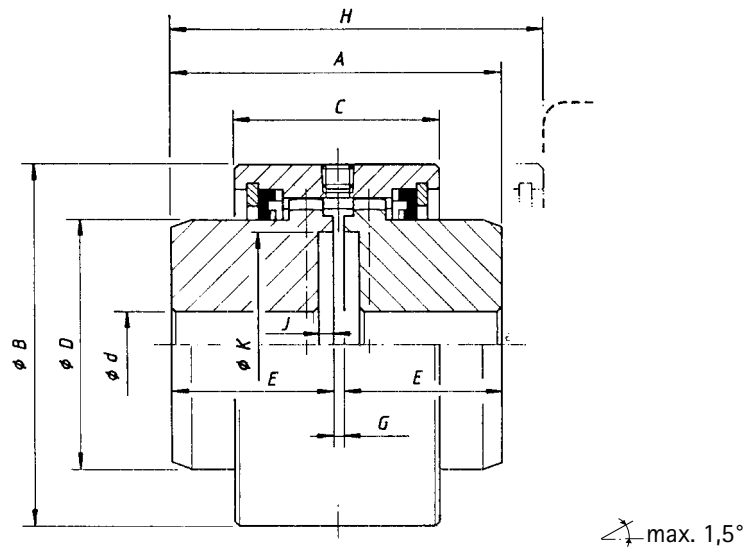
#### Control

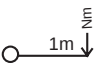
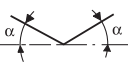
Formule:

$$\Delta K_{w\min} \leq \frac{X}{K_x} + \frac{Y-Z}{K_y} \leq 0,75 \times \Delta K_{w\max}$$

$$\text{Calculation : } 0,1^\circ \leq \frac{0,9}{5,7} + \frac{0,4}{8,2} \leq 0,75 \times 0,4$$

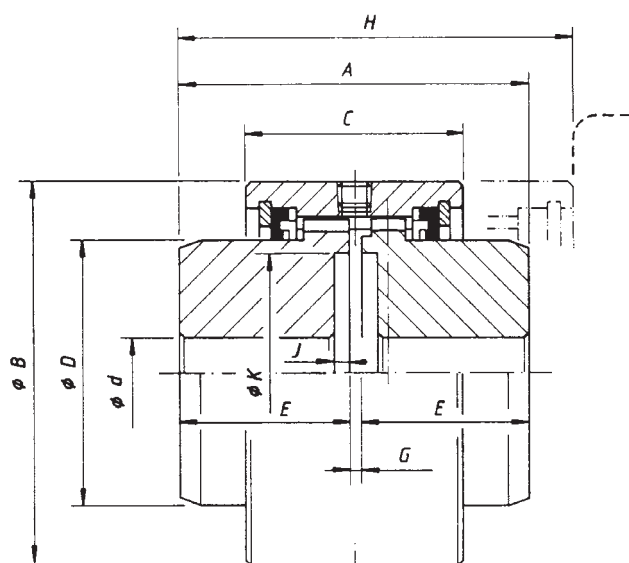
| LEGEND OF USED PICTOGRAMS                                                                          |                                       | Notes for series C / CST...M                                                                       |                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| d Ø nominal max.                                                                                   | MAXIMUM NOMINAL BORE (mm)             | 1                                                                                                  | For key according to ISO R 773.                                                                                                                               |
|  d Ø min.       | MINIMUM BORE (mm)                     | 2                                                                                                  | Gear maximum continuous transmissible torque for the tabulated misalignment. The effective transmissible torque depends on the bore and shaft/hub connection. |
|  d Ø max.       | MAXIMUM BORE (mm)                     | 3                                                                                                  | Higher speed on special request.                                                                                                                              |
|  T <sub>n</sub> | MAXIMUM NOMINAL TORQUE (Nm)           | 3.1                                                                                                | For grease withstanding centrifugal acceleration of 1.000g. See installation and maintenance manual IM.                                                       |
|  T <sub>p</sub> | MAXIMUM PEAK TORQUE (Nm)              | 3.2                                                                                                | For grease withstanding centrifugal acceleration of 2.000g. See installation and maintenance manual IM.                                                       |
|  /min.max.      | MAXIMUM SPEED (rpm)                   | 3.3                                                                                                | Depends on S.                                                                                                                                                 |
|                 | MAXIMUM OFFSET (mm)                   | 3.4                                                                                                | For long operation in disconnected position contact us.                                                                                                       |
|                 | MAXIMUM ANGULAR MISALIGNMENT (degree) | 4                                                                                                  | For solid bore.                                                                                                                                               |
|                 | INERTIA (kgm <sup>2</sup> )           | 4.1                                                                                                | Depends on S.                                                                                                                                                 |
|                 | WEIGHT (kg)                           | 4.2                                                                                                | For solid bore and S minimum.                                                                                                                                 |
|                 | GREASE QUANTITY (dm <sup>3</sup> )    | 4.3                                                                                                | Per 100 mm spacer length.                                                                                                                                     |
|                                                                                                    |                                       | 4.4                                                                                                | Depends on L and R.                                                                                                                                           |
|                                                                                                    |                                       | 5                                                                                                  | For pilot bored hubs.                                                                                                                                         |
|                                                                                                    |                                       | 5.1                                                                                                | Depends on S.                                                                                                                                                 |
|                                                                                                    |                                       | 5.2                                                                                                | For pilot bored hubs and S minimum.                                                                                                                           |
|                                                                                                    |                                       | 5.3                                                                                                | Per 100 mm spacer length.                                                                                                                                     |
|                                                                                                    |                                       | 5.4                                                                                                | Depends on L and R.                                                                                                                                           |
|                                                                                                    |                                       | 6                                                                                                  | See installation and maintenance manual IM.                                                                                                                   |
|                                                                                                    |                                       | 6.1                                                                                                | Depends on S. Values given for S maximum.                                                                                                                     |
|                                                                                                    |                                       | 7                                                                                                  | On request. For larger S contact us.                                                                                                                          |
|                                                                                                    |                                       | 8                                                                                                  | Values for S minimum. S maximum depends on torque and speed.                                                                                                  |
|                                                                                                    |                                       | 9                                                                                                  | G must remain constant during operation.                                                                                                                      |
|                                                                                                    |                                       | 10                                                                                                 | Needed to control the alignment and inspect the gears.                                                                                                        |
|                                                                                                    |                                       | * Max. torque, speed and misalignment tabulated values may not be cumulated. See IM/A300, IM/B300. |                                                                                                                                                               |



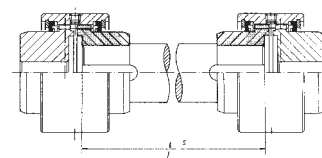
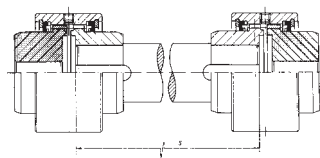
|  ←A150 |                         |   | Type CST                                      |        |        |        |        |        |        |
|------------------------------------------------------------------------------------------|-------------------------|---|-----------------------------------------------|--------|--------|--------|--------|--------|--------|
|                                                                                          |                         |   | 30                                            | 40     | 55     | 65     | 80     | 100    |        |
|       | d Ø nominal max.        | 1 | mm                                            | 32     | 42     | 57     | 70     | 85     | 100    |
|                                                                                          | d Ø min.                |   | mm                                            | 0      | 0      | 22     | 25     | 38     | 38     |
|                                                                                          | * d Ø max.              |   | mm                                            | 35     | 42     | 63     | 75     | 90     | 110    |
|       | Tn                      | 2 | Nm                                            | 550    | 1100   | 1970   | 3240   | 5600   | 8500   |
|                                                                                          | TP                      |   |                                               | 1100   | 2200   | 3940   | 6480   | 11200  | 17000  |
|       | 3.1                     |   | tr/min<br>omw/min<br>rpm<br>min <sup>-1</sup> | 5500   | 5100   | 4400   | 4000   | 3600   | 3400   |
|                                                                                          | 3.2                     |   |                                               | 7750   | 7200   | 6200   | 5600   | 5100   | 4800   |
|       | —                       |   | degré<br>graad<br>degree<br>Grad              | 2x0,75 | 2x0,75 | 2x0,75 | 2x0,75 | 2x0,75 | 2x0,75 |
|       | —                       |   | mm                                            | 0,1    | 0,14   | 0,14   | 0,19   | 0,22   | 0,23   |
|       | J<br>(WR <sup>2</sup> ) | 4 | kgm <sup>2</sup>                              | 0,002  | 0,004  | 0,010  | 0,022  | 0,052  | 0,122  |
|       |                         | 5 | kg                                            | 2      | 3,4    | 6      | 9,1    | 15     | 29     |
|       |                         | 6 | dm <sup>3</sup>                               | 0,022  | 0,036  | 0,063  | 0,114  | 0,201  | 0,270  |
| mm: ±                                                                                    | A                       |   | mm                                            | 80     | 95     | 110    | 120    | 140    | 222    |
|                                                                                          | B                       |   | mm                                            | 84     | 95     | 120    | 140    | 168    | 190    |
|                                                                                          | C                       |   | mm                                            | 50     | 65     | 68     | 80     | 95     | 102    |
|                                                                                          | D                       |   | mm                                            | 50,9   | 60,4   | 82,6   | 100    | 121    | 143    |
|                                                                                          | E                       |   | mm                                            | 38,5   | 46     | 53,5   | 57     | 67     | 108    |
|                                                                                          | G                       |   | mm                                            | 3      | 3      | 3      | 6      | 6      | 6      |
|                                                                                          | H                       |   | mm                                            | 96     | 117    | 124    | 146    | 175    | 223    |
|                                                                                          | J                       |   | mm                                            | 3      | 5      | 5      | 6      | 6      | 6      |
|                                                                                          | K                       |   | mm                                            | 49     | 57     | 76     | 95     | 121    | 140    |

\* Consult us

## FLEX - RIGID

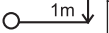
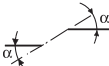


## SET FLOATING SHAFT

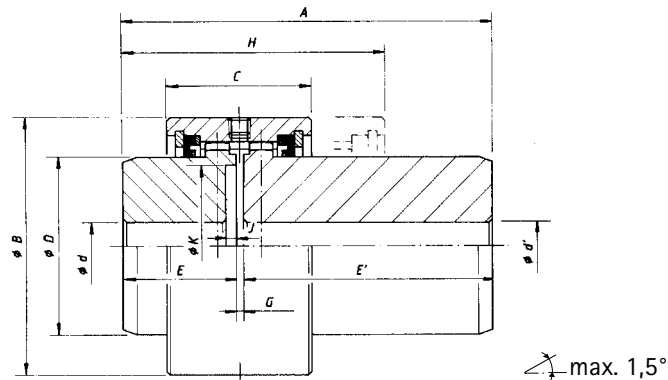


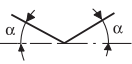
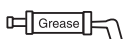
max. 1,5°

Shaft can be supplied at demands

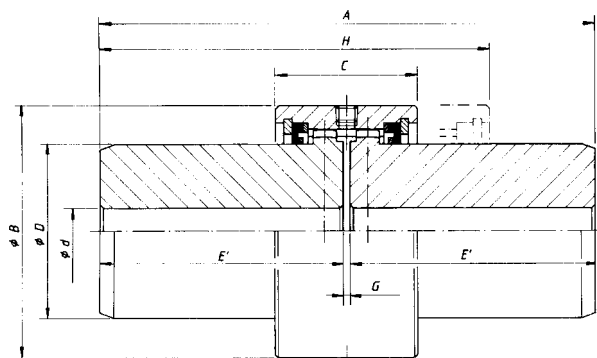
|  ←A150                   |                                                                                           |     | Type CFS                                      |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----|-----------------------------------------------|-------|-------|-------|-------|-------|-------|
|                                                                                                             |                                                                                           |     | 30                                            | 40    | 55    | 65    | 80    | 100   |       |
|                          | d Ø nominal max.                                                                          | 1   | mm                                            | 32    | 42    | 57    | 70    | 85    | 100   |
|                                                                                                             | d Ø min.                                                                                  |     | mm                                            | 0     | 0     | 22    | 25    | 38    | 38    |
|                                                                                                             | * d Ø max.                                                                                |     | mm                                            | 35    | 42    | 63    | 75    | 90    | 110   |
|                          | Tn                                                                                        | 2   | Nm                                            | 550   | 1100  | 1970  | 3240  | 5600  | 8500  |
|                                                                                                             | 1m  Tp |     |                                               | 1100  | 2200  | 3940  | 6480  | 11200 | 17000 |
|  /min.max.               |                                                                                           | 3.3 | tr/min<br>omw/min<br>rpm<br>min <sup>-1</sup> |       |       |       |       |       |       |
|                          |                                                                                           | —   | degré<br>graad<br>degree<br>Grad              | 0,75  | 0,75  | 0,75  | 0,75  | 0,75  | 0,75  |
|  J<br>(WR <sup>2</sup> ) |                                                                                           | 4   | kgm <sup>2</sup>                              | 0,002 | 0,004 | 0,010 | 0,022 | 0,052 | 0,122 |
|                          |                                                                                           | 5   | kg                                            | 2     | 3,4   | 6     | 9,1   | 15    | 29    |
|  Grease                  |                                                                                           | 6   | dm <sup>3</sup>                               | 0,022 | 0,036 | 0,063 | 0,114 | 0,201 | 0,270 |
| mm: ±                                                                                                       | A                                                                                         |     | mm                                            | 80    | 95    | 110   | 120   | 140   | 222   |
|                                                                                                             | B                                                                                         |     | mm                                            | 84    | 95    | 120   | 140   | 168   | 190   |
|                                                                                                             | C                                                                                         |     | mm                                            | 50    | 65    | 68    | 80    | 95    | 102   |
|                                                                                                             | D                                                                                         |     | mm                                            | 50,9  | 60,4  | 82,6  | 100   | 121   | 143   |
|                                                                                                             | E                                                                                         |     | mm                                            | 38,5  | 46    | 53,5  | 57    | 67    | 108   |
|                                                                                                             | G                                                                                         |     | mm                                            | 3     | 3     | 3     | 6     | 6     | 6     |
|                                                                                                             | H                                                                                         | 10  | mm                                            | 96    | 117   | 124   | 146   | 175   | 223   |
|                                                                                                             | J                                                                                         |     | mm                                            | 3     | 5     | 5     | 6     | 6     | 6     |
| min.                                                                                                        | K                                                                                         |     | mm                                            | 49    | 57    | 76    | 95    | 121   | 140   |
|                                                                                                             | S                                                                                         | 8   | mm                                            | 76    | 92    | 105   | 114   | 133   | 204   |

\* Consult us

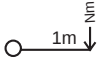


|  ←A150 |                          |                                  | Type CMM         |        |        |        |        |        |       |
|-----------------------------------------------------------------------------------------|--------------------------|----------------------------------|------------------|--------|--------|--------|--------|--------|-------|
|                                                                                         |                          |                                  | 30               | 40     | 55     | 65     | 80     | 100    |       |
|        | d Ø nominal max.         | 1                                | mm               | 32     | 42     | 57     | 70     | 85     | 100   |
|                                                                                         | d Ø min.                 |                                  | mm               | 0      | 0      | 22     | 25     | 38     | 38    |
|                                                                                         | * d Ø max.               |                                  | mm               | 35     | 42     | 63     | 75     | 90     | 110   |
|      | d' Ø nominal max.        | 1                                | mm               | 32     | 42     | 57     | 70     | 85     | 100   |
|                                                                                         | d' Ø min.                |                                  | mm               | 0      | 0      | 0      | 0      | 40     | 40    |
|                                                                                         | * d' Ø max.              |                                  | mm               | 35     | 42     | 63     | 75     | 90     | 110   |
|      | Tn                       | 2                                | Nm               | 550    | 1100   | 1970   | 3240   | 5600   | 8500  |
|                                                                                         | Tp                       |                                  |                  | 1100   | 2200   | 3940   | 6480   | 1120   | 17000 |
|      | 3.1<br>tr/min<br>omw/min | 3.2<br>rpm<br>min <sup>-1</sup>  | 5500             | 5100   | 4400   | 4000   | 3600   | 3400   |       |
|                                                                                         |                          |                                  | 7750             | 7200   | 6200   | 5600   | 5100   | 4800   |       |
|      | —                        | degré<br>graad<br>degree<br>Grad | 2x0,75           | 2x0,75 | 2x0,75 | 2x0,75 | 2x0,75 | 2x0,75 |       |
|      | —                        | mm                               | 0,1              | 0,14   | 0,14   | 0,19   | 0,22   | 0,23   |       |
|      | J<br>(WR <sup>2</sup> )  | 4                                | kgm <sup>2</sup> | 0,002  | 0,004  | 0,012  | 0,028  | 0,065  | 0,140 |
|      |                          | 5                                | kg               | 2,8    | 4,5    | 8,5    | 13,3   | 21,4   | 35,7  |
|      | Grease                   | 6                                | dm <sup>3</sup>  | 0,022  | 0,036  | 0,063  | 0,114  | 0,201  | 0,270 |
| mm: ±                                                                                   | A                        |                                  | mm               | 136,7  | 150    | 174    | 193    | 219    | 279   |
|                                                                                         | B                        |                                  | mm               | 84     | 95     | 120    | 140    | 168    | 190   |
|                                                                                         | C                        |                                  | mm               | 50     | 65     | 68     | 80     | 95     | 102   |
|                                                                                         | D                        |                                  | mm               | 50,9   | 60,4   | 82,6   | 100    | 121    | 143   |
|                                                                                         | E                        |                                  | mm               | 38,5   | 46     | 53,5   | 57     | 67     | 108   |
|                                                                                         | E'                       |                                  | mm               | 95,2   | 101    | 117,5  | 130    | 146    | 165   |
|                                                                                         | G                        |                                  | mm               | 3      | 3      | 3      | 6      | 6      | 6     |
|                                                                                         | H                        | 10                               | mm               | 96     | 117    | 124    | 146    | 175    | 223   |
|                                                                                         | J                        |                                  | mm               | 3      | 5      | 5      | 6      | 6      | 6     |
| K                                                                                       |                          | mm                               | 49               | 57     | 76     | 95     | 121    | 140    |       |

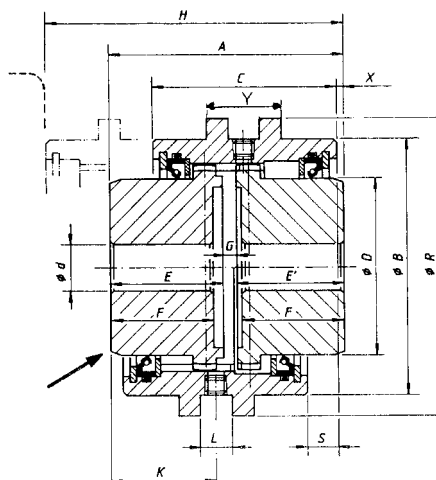
\* Consult us



max. 1,5°

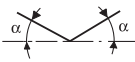
|  ←A150 |                         |     | Type CDMM                                     |        |        |        |        |        |        |
|-------------------------------------------------------------------------------------------|-------------------------|-----|-----------------------------------------------|--------|--------|--------|--------|--------|--------|
|                                                                                           |                         |     | 30                                            | 40     | 55     | 65     | 80     | 100    |        |
|        | d Ø nominal max.        | 1   | mm                                            | 32     | 42     | 57     | 70     | 85     | 100    |
|                                                                                           | d Ø min.                |     | mm                                            | 0      | 0      | 0      | 0      | 40     | 40     |
|                                                                                           | * d Ø max.              |     | mm                                            | 35     | 42     | 63     | 75     | 90     | 110    |
|        | Tn                      | 2   | Nm                                            | 550    | 1100   | 1970   | 3240   | 5600   | 8500   |
|                                                                                           | Tp                      |     |                                               | 1100   | 2200   | 3940   | 6480   | 11200  | 17000  |
|        | /min,max.               | 3.1 | tr/min<br>omw/min<br>rpm<br>min <sup>-1</sup> | 5500   | 5100   | 4400   | 4000   | 3600   | 3400   |
|                                                                                           |                         | 3.2 |                                               | 7750   | 7200   | 6200   | 5600   | 5100   | 4800   |
|        |                         | —   | degré<br>graad<br>degree<br>Grad              | 2x0,75 | 2x0,75 | 2x0,75 | 2x0,75 | 2x0,75 | 2x0,75 |
|        |                         | —   | mm                                            | 0,1    | 0,14   | 0,14   | 0,19   | 0,22   | 0,23   |
|        | J<br>(WR <sup>2</sup> ) | 4   | kgm <sup>2</sup>                              | 0,003  | 0,005  | 0,015  | 0,033  | 0,078  | 0,158  |
|        |                         | 5   | kg                                            | 3,8    | 8,5    | 11,4   | 18     | 27,6   | 42,2   |
|        |                         | 6   | dm <sup>3</sup>                               | 0,022  | 0,036  | 0,063  | 0,114  | 0,201  | 0,270  |
| mm: ±                                                                                     | A                       |     | mm                                            | 193,4  | 205    | 238    | 266    | 298    | 336    |
|                                                                                           | B                       |     | mm                                            | 84     | 95     | 120    | 140    | 168    | 190    |
|                                                                                           | C                       |     | mm                                            | 50     | 65     | 68     | 80     | 95     | 102    |
|                                                                                           | D                       |     | mm                                            | 50,9   | 60,4   | 82,6   | 100    | 121    | 143    |
|                                                                                           | E'                      |     | mm                                            | 95,2   | 101    | 117,5  | 130    | 146    | 165    |
|                                                                                           | G                       |     | mm                                            | 3      | 3      | 3      | 6      | 6      | 6      |
|                                                                                           | H                       | 10  | mm                                            | 152    | 172    | 188    | 219    | 254    | 280    |

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CE MOYEU A L'ARRET EN CONDITION DEBRAYEE  
WANNEER UITGESCHAKELD STAAT DEZE NAAF STIL  
THIS HUB IN STAND STILL WHEN DISCONNECTED  
Im ausgeschalteten Zustand steht die Nabe still

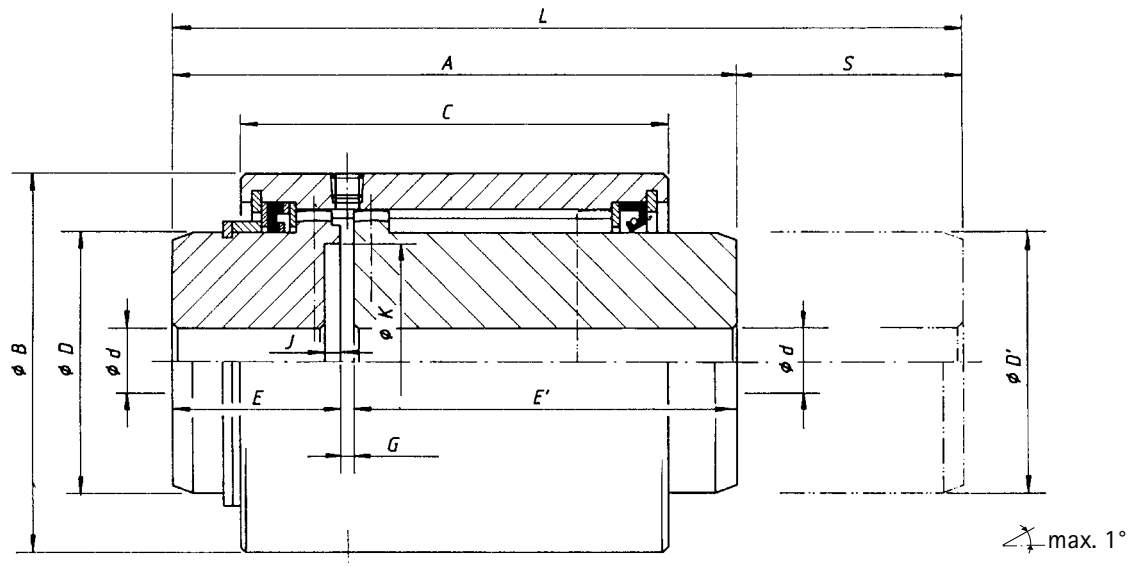
max. 1°

|  ←A150                                               |    |     | Type CCO                                      |       |       |       |       |       |       |
|---------------------------------------------------------------------------------------------------------------------------------------|----|-----|-----------------------------------------------|-------|-------|-------|-------|-------|-------|
|                                                                                                                                       |    |     | 30                                            | 40    | 55    | 65    | 80    | 100   |       |
|  $\frac{d}{\text{max.}}$<br>$\frac{d}{\text{min.}}$ | 1  | mm  | 32                                            | 42    | 57    | 70    | 85    | 100   |       |
|                                                                                                                                       |    | mm  | 0                                             | 0     | 22    | 25    | 38    | 38    |       |
|  $\frac{Nm}{1m}$<br>Tn<br>Tp                       | 2  | Nm  | 550                                           | 1100  | 1970  | 3240  | 5600  | 8500  |       |
|                                                                                                                                       |    |     | 1100                                          | 2200  | 3940  | 6480  | 11200 | 17000 |       |
|  $\frac{tr/min}{min.max.}$                         |    | 3.4 | tr/min<br>omw/min<br>rpm<br>min <sup>-1</sup> | 4500  | 3800  | 2750  | 2200  | 1850  | 1600  |
|                                                    |    | —   | degré<br>graad<br>degree<br>Grad              | 2x0,5 | 2x0,5 | 2x0,5 | 2x0,5 | 2x0,5 | 2x0,5 |
|  $J$<br>(WR <sup>2</sup> )                         |    | 4.4 | kgm <sup>2</sup>                              | 0,004 | 0,009 | 0,022 | 0,035 | 0,08  | 0,17  |
|                                                    |    | 5.4 | kg                                            | 3,0   | 5,0   | 8,5   | 11,4  | 18,5  | 33    |
|  Grease                                            |    | 6   | dm <sup>3</sup>                               | 0,035 | 0,058 | 0,094 | 0,172 | 0,295 | 0,435 |
| mm: ±<br><br>max.<br>max.                                                                                                             | A  | mm  | 80                                            | 94,8  | 110   | 117   | 139   | 222,5 |       |
|                                                                                                                                       | B  | mm  | 84                                            | 95    | 120   | 140   | 168   | 190   |       |
|                                                                                                                                       | C  | mm  | 68                                            | 87    | 93,5  | 101   | 111   | 125,5 |       |
|                                                                                                                                       | D  | mm  | 50                                            | 60    | 82    | 100   | 120   | 140   |       |
|                                                                                                                                       | E  | mm  | 38,5                                          | 46    | 53,5  | 57    | 67    | 108   |       |
|                                                                                                                                       | E' | mm  | 35,5                                          | 42,8  | 50,5  | 53    | 61    | 102   |       |
|                                                                                                                                       | F  | mm  | 35,5                                          | 41    | 48,5  | 51    | 61    | 102   |       |
|                                                                                                                                       | G  | mm  | 6                                             | 6     | 6     | 7     | 11    | 12,5  |       |
|                                                                                                                                       | H  | mm  | 125                                           | 140   | 155   | 165   | 195   | 250   |       |
|                                                                                                                                       | K  | mm  | 35,5                                          | 39,5  | 47,5  | 50,5  | 60    | 101,5 |       |
|                                                                                                                                       | R  | mm  | 120                                           | 135   | 170   | 180   | 215   | 240   |       |
|                                                                                                                                       | L  | mm  | 30                                            | 35    | 40    | 45    | 45    | 50    |       |
|                                                                                                                                       | S  | mm  | 9,5                                           | 16    | 14    | 17,5  | 19    | 20,5  |       |
|                                                                                                                                       | X  | mm  | 0,9                                           | -4,1  | 1,4   | -1,5  | 4,3   | 37,5  |       |
|                                                                                                                                       | Y  | mm  | 45                                            | 55    | 60    | 65    | 70    | 75    |       |



**escogear**

CSH 30 ⇒ 100



|  ← A150                                         |     |                                  |    | Type CSH |       |       |       |       |       |  |
|-----------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------|----|----------|-------|-------|-------|-------|-------|--|
|                                                                                                                                   |     |                                  |    | 30       | 40    | 55    | 65    | 80    | 100   |  |
|  d Ø max.<br>Ø min.                            | 1   | mm                               |    | 32       | 42    | 57    | 70    | 85    | 100   |  |
|                                                                                                                                   |     |                                  |    | 0        | 0     | 22    | 25    | 38    | 38    |  |
|  Tn<br>Tp                                      | 2   | Nm                               |    | 550      | 1100  | 1970  | 3240  | 5600  | 8500  |  |
|                                                                                                                                   |     |                                  |    | 1100     | 2200  | 3940  | 6480  | 11200 | 17000 |  |
|  tr/min<br>omw/min<br>rpm<br>min <sup>-1</sup> | 3.3 |                                  |    |          |       |       |       |       |       |  |
|  α                                             | —   | degré<br>graad<br>degree<br>Grad |    | 2x0,5    | 2x0,5 | 2x0,5 | 2x0,5 | 2x0,5 | 2x0,5 |  |
|  J<br>(WR <sup>2</sup> )                       | 4.1 | kgm <sup>2</sup>                 |    |          |       |       |       |       |       |  |
|                                                | 5.1 | kg                               |    |          |       |       |       |       |       |  |
|  Grease                                        | 6.1 | dm <sup>3</sup>                  |    |          |       |       |       |       |       |  |
| mm: ±                                                                                                                             | A   | 6.1                              | mm | 109,2    | 117   | 179,5 | 186,2 | 216,2 | 263   |  |
|                                                                                                                                   | B   |                                  | mm | 84       | 95    | 120   | 140   | 168   | 190   |  |
|                                                                                                                                   | C   | 6.1                              | mm | 83       | 90,5  | 142,5 | 143,5 | 166,5 | 169,5 |  |
|                                                                                                                                   | D   |                                  | mm | 50,9     | 60,4  | 82,6  | 100   | 121   | 143   |  |
|                                                                                                                                   | D'  |                                  | mm | 50       | 60    | 82    | 100   | 120   | 140   |  |
|                                                                                                                                   | E   |                                  | mm | 38,5     | 46    | 53,5  | 57    | 67    | 108   |  |
|                                                                                                                                   | E'  | 6.1                              | mm | 67       | 67    | 122   | 125   | 145   | 150   |  |
|                                                                                                                                   | G   |                                  | mm | 3,7      | 4     | 4     | 4,2   | 4,2   | 5     |  |
|                                                                                                                                   | J   |                                  | mm | 3        | 5     | 5     | 6     | 6     | 6     |  |
|                                                                                                                                   | K   |                                  | mm | 49       | 57    | 76    | 95    | 121   | 140   |  |
| max.                                                                                                                              | L   | 6.1                              | mm | 139,7    | 141   | 250,9 | 253,5 | 297,2 | 342   |  |
|                                                                                                                                   | S   | 7                                | mm | 30,5     | 24    | 71,4  | 67,3  | 81    | 79    |  |

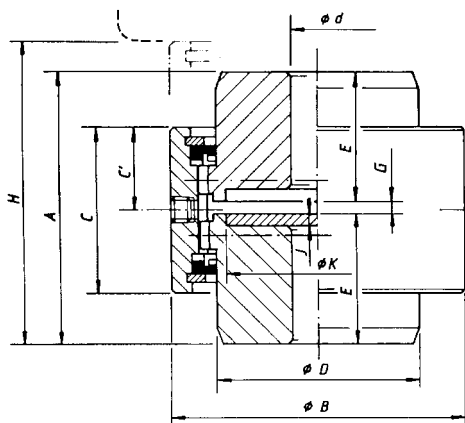
TAILLES SUPERIEURES A LA DEMANDE

GROTERE MODELLEN OP AANVRAAG

LARGER SIZES ON REQUEST

GROESSERE ABMESSUNGEN AUF ANFRAGE

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max. 1°

| ← A150 |    |                                               | Type CSV |       |       |       |       |       |
|--------|----|-----------------------------------------------|----------|-------|-------|-------|-------|-------|
|        |    |                                               | 30       | 40    | 55    | 65    | 80    | 100   |
|        | 1  | d Ø nominal max. mm                           | 32       | 42    | 57    | 70    | 85    | 100   |
|        |    | d Ø min. mm                                   | 0        | 0     | 22    | 25    | 38    | 38    |
|        |    | * d Ø max. mm                                 | 35       | 42    | 63    | 75    | 90    | 110   |
|        | 2  | Tn Nm                                         | 550      | 1100  | 1970  | 3240  | 5600  | 8500  |
|        |    | TP Nm                                         | 1100     | 2200  | 3940  | 6480  | 11200 | 17000 |
|        | 3  | tr/min<br>omw/min<br>rpm<br>min <sup>-1</sup> | 5500     | 5100  | 4400  | 4000  | 3600  | 3400  |
|        | —  | degré<br>graad<br>degree<br>Grad              | 2x0,5    | 2x0,5 | 2x0,5 | 2x0,5 | 2x0,5 | 2x0,5 |
|        | —  | mm                                            | 0,07     | 0,09  | 0,09  | 0,12  | 0,14  | 0,15  |
|        | 4  | J (WR <sup>2</sup> ) kgm <sup>2</sup>         | 0,002    | 0,004 | 0,010 | 0,022 | 0,052 | 0,122 |
|        | 5  | kg                                            | 2        | 3,4   | 6     | 9,1   | 15    | 29    |
|        | 6  | dm <sup>3</sup>                               | 0,022    | 0,036 | 0,063 | 0,120 | 0,201 | 0,273 |
| mm: ±  | A  | mm                                            | 80       | 95    | 110   | 120   | 140   | 222   |
|        | B  | mm                                            | 84       | 95    | 120   | 140   | 168   | 190   |
|        | C  | mm                                            | 50       | 65    | 68    | 80    | 95    | 102   |
|        | C' | mm                                            | 25       | 32,5  | 34    | 40    | 47,5  | 51    |
|        | D  | mm                                            | 50,9     | 60,4  | 82,6  | 100   | 121   | 143   |
|        | E  | mm                                            | 38,5     | 46    | 53,5  | 57    | 67    | 108   |
|        | G  | mm                                            | 3        | 3     | 3     | 6     | 6     | 6     |
|        | H  | mm                                            | 96       | 117   | 124   | 146   | 175   | 223   |
|        | J  | mm                                            | 3        | 5     | 5     | 6     | 6     | 6     |
|        | K  | mm                                            | 49       | 57    | 76    | 95    | 121   | 140   |

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