



# CENTAMAX

ENGLISH

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## CENTAMAX

ROBUST.  
FOR TORSIONALLY ACTIVE DRIVES.

| SYSTEM                        | COUPLING COMPONENTS                | TYPES                                   | APPLICATIONS                                                          | TECHNICAL DATA                                                          | SERVICE                                                |
|-------------------------------|------------------------------------|-----------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------|
| <b>At a glance</b><br>Page 03 | <b>Rubber elements</b><br>Page 06  | <b>Overview of the types</b><br>Page 08 | <b>Product selection:</b><br><b>Which coupling for which purpose?</b> | <b>Product application:</b><br><b>Which feature for which coupling?</b> | <b>Variants</b><br>Page APP-2                          |
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# THE CENTAMAX COUPLING SERIES

## AT A GLANCE

Being a robust coupling with high torsional flexibility, CENTAMAX is the best choice for a safe resonance-free operation of drives susceptible to torsional vibration.

The torsional elasticity of this steady selling design shifts critical resonances below operation speed. The drive thus is subject to minor continuous vibratory torques, protecting coupled units.

The CENTAMAX convinces by efficient ventilation: the high thermal capacity (HTC) design features a superior allowable power loss compared to conventional couplings. This not only ensures a long lifetime, but also the use of smaller cost effective coupling sizes in many cases.

### Features

Robust

High flexibility with linear characteristics

High allowable power loss

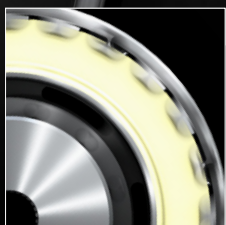
Available with fail safe device

### Areas of Application



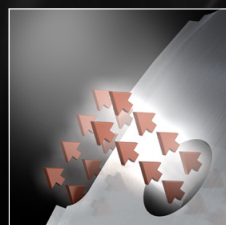
|                   |                                                     |
|-------------------|-----------------------------------------------------|
| torque range      | 0.1 to 45 kNm                                       |
| elastic material  | NR/Si/CENTALAN HT                                   |
| temperature range | NR -45° to +80°C                                    |
|                   | Si -45° to +120°C                                   |
|                   | CENTALAN HT<br>-25° to +100°C,<br>short term +120°C |

# CENTAMAX SYSTEM



TORSIONAL ELASTICITY

The rubber elements for the CENTAMAX are available in different degrees of Shore hardness. This enables the torsional flexibility of the couplings to be adapted with utmost variability to the specific application. Torsional vibrations and impacts are reliably dampened and resonances shifted to uncritical ranges.



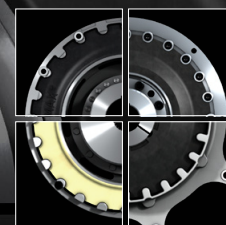
VENTILATION

All CENTAMAX couplings are effectively ventilated. The HTC-coupling type features a superior allowable power loss compared to conventional couplings.



PROTECTION

It's better to bend than to break: upon extreme load by mal-synchronisation or in case of short-circuits the coupling slips through. The protects engine and coupled units from overload.



ASSEMBLY

Many couplings of the CENTAMAX Series are available as plug-in versions for axial assembly offering a minimum mounting effort. The hubs can be customized to any kind of mounting and application condition.



QUALITY

When the going get's tough, quality is priceless. With an exemplary Quality Management, CENTA ensures products that withstand the roughest assignments. CENTA's coupling systems are more than the sum of their parts. CENTA entertains the vision of intelligent products that meet the highest requirements in terms of design and quality.

CENTAMAX

# COUPLING COMPONENTS

# CENTAMAX COMPONENTS

## RUBBER ELEMENTS

The CENTAMAX rubber elements are made of high quality natural rubber or silicone - for high ambient temperatures.

Our synthetical elastomer CENTALAN HT (high temperature) material is developed to meet the dynamic characteristics of natural rubber mixtures. With CENTALAN HT applications subject to operation in critical high temperature can be operated at ease. Cost effective silicone elements can be substituted. This new development ensures effective resistance to UV-light, ozone and oxygen as well as chemicals, steam and hot water. Longer operation times and life cycles are possible due to the improved aging resistance of the elastomer. Typical areas of applications are thermal power stations and encapsulated drives subject to high temperatures.

### Temperature range

NR -45° to +80°C

Si -45° to +120°C

CENTALAN HT -25° to +100°C, short termed +120°C



# CENTAMAX COMPONENTS



## HUBS

Are offered to meet all traditional connections the hubs can be customized to any kind of application. The CENTALOC clamping has been developed to prevent wear and frictional corrosion on not backlashfree hub to shaft connections. This clamping system is available in various sizes for the CENTAMAX couplings type S. Coupling type G is available with a taper lock bush for easy and fast assembly.

## FLANGES

The CENTAMAX is an optimum for flange connection to flywheels or flange housings of Diesel engines. The couplings are available for SAE and non-standardized flywheels.

## FAIL SAFE DEVICE

CENTAMAX couplings are optionally available with an additional fail-safe device. In case of damage to the rubber elements, the fail-safe device prevents disconnection of any coupled units. In order to ensure fulfilling the emergency operation requirements which numerous classification societies demand for marine single engine main propulsions the torque of the system has to be reduced in case of damage.



# CENTAMAX

## TYPES



### Type S

Transmission of the torque to the rubber element by the means of an interlocked outer part. Very reliable design for the transmission of high torques with compact dimensioning. Available with CENTALAN HT elastomer and for flywheel-flange or shaft-shaft connection as well as with CENTALOC clamping system. Various special designs can be met on request. Plug-in version for easy assembly.



### Type G

Developed for torsionally active generator drives. Transmission of the torque to the rubber element by the means of an interlocked outer part. Available with CENTALAN HT elastomer. Equipped with a taper lock bush for easy and fast assembly. Generator connections according DIN 6281. Plug-in version for easy assembly.



### Type HTC

Optimized for even higher allowable power loss. Transmission of the torque by the means of an interlocked outer part to a lean and split rubber element. For the transmission of high torques. Available with CENTALAN HT elastomer. Allows for the use of small couplings for many applications and plug-in assembly.



### Type B

Specially designed for free mounted drives. Backlash-free torque transmission via a steel flange onto a precompressed rubber element. For the transmission of medium torques. Available with CENTALAN HT elastomer and as flywheel-shaft or shaft-shaft connections. Radial exchange of the elements without the need to remove coupled units is possible.



# CENTAMAX-S

## AT A GLANCE

Robust coupling with high torsional flexibility. For resonance-free operation of drives susceptible to torsional vibration.

Torque transmission via a toothed outer ring onto a rubber element. Highly reliable and rupture-proof design for the transmission of high torques in a compact design.

Characterised by high torsional flexibility with linear characteristic. Dampens torsional vibrations and shocks and compensates axial, radial and angular misalignments. Effectively ventilated and with high allowable energy loss. In silicon design, additionally oil resistant and suitable for higher temperatures.

Blind assembly for minimum axial mounting effort. With flywheel connections acc. to SAE. Also available for non-standard flywheels.



### Features

- High torsional flexibility
- Compact dimensioning
- Effective ventilation
- High allowable power loss

### Areas of Application

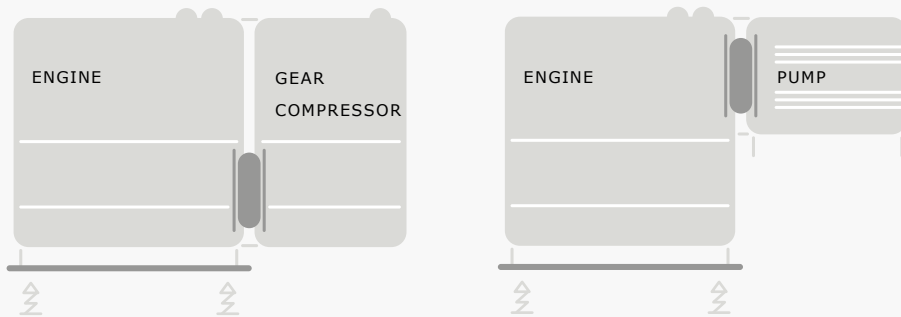


|                   |                                                     |
|-------------------|-----------------------------------------------------|
| torque range      | 0.1 to 24 kNm                                       |
| elastic material  | NR/Si/CENTALAN HT                                   |
| temperature range | NR -45° to +80°C                                    |
|                   | Si -45° to +120°C                                   |
|                   | CENTALAN HT<br>-25° to +100°C,<br>short term +120°C |

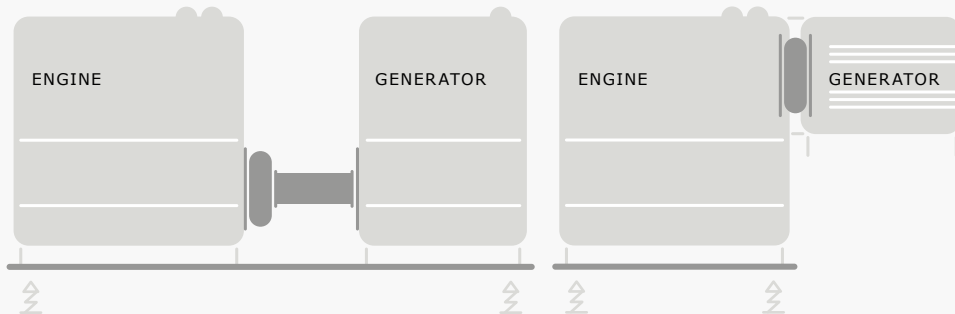
# CENTAMAX-S

## APPLICATIONS

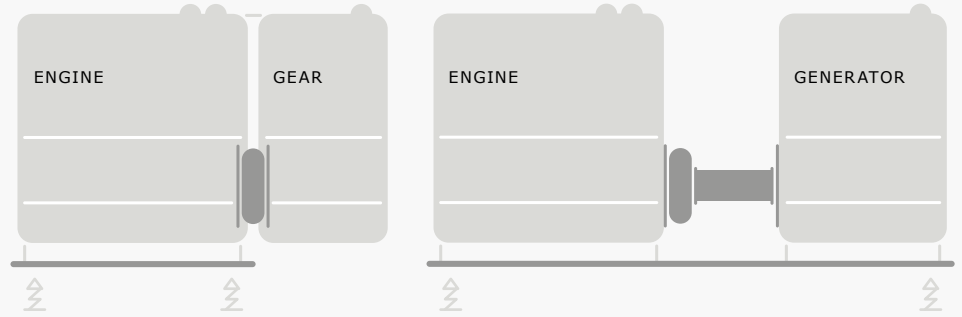
### INDUSTRY APPLICATIONS



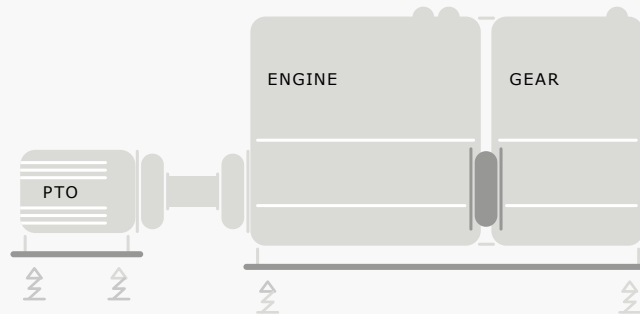
### ENERGY APPLICATIONS



### MARINE APPLICATIONS



### RAIL APPLICATIONS



# CENTAMAX-S

# TECHNICAL DATA

Questions on product selection?  
We will gladly assist → [www.centa.info/contact](http://www.centa.info/contact)

## CENTAMAX-S

NR



| TECHNICAL DATA |                |                         | ↓ SIZES 120-1800   |                   | → SIZES 2400-5000           |                        | → SIZES 7000-12000      |                               | → SIZE 18000     |                                          |             |
|----------------|----------------|-------------------------|--------------------|-------------------|-----------------------------|------------------------|-------------------------|-------------------------------|------------------|------------------------------------------|-------------|
| 1              | 2              | 3                       | 4                  |                   | 5                           | 6                      |                         | 7                             | 8                | 9                                        |             |
| Size           | Rubber quality | Nominal torque          | Maximum torque     |                   | Continuous vibratory torque | Permissible power loss |                         | Dynamic torsional stiffness   | Relative damping | Speed                                    | Flange size |
|                | [Shore A]      | T <sub>KN</sub><br>[Nm] | T <sub>Kmax1</sub> | T <sub>Kmax</sub> | T <sub>KW</sub><br>[Nm]     | P <sub>KV</sub><br>[W] | P <sub>KVZ</sub><br>[W] | C <sub>Tdyn</sub><br>[Nm/rad] | Ψ                | n <sub>max</sub><br>[min <sup>-1</sup> ] | SAE/ø       |
| 120            | 35             | 100                     | 150                | 250               | 40                          | 30                     | 35                      | 150                           | 0,52             | 5000                                     | 6,5         |
|                | 40             | 110                     | 165                | 280               | 44                          | 35                     | 40                      | 200                           | 0,52             |                                          |             |
|                | 50             | 120                     | 180                | 300               | 48                          | 55                     | 65                      | 300                           | 1,05             | 4500                                     | 7,5         |
|                | 60             | 140                     | 210                | 350               | 56                          | 60                     | 70                      | 500                           | 1,10             |                                          |             |
|                | 70             | 150                     | 225                | 400               | 60                          | 65                     | 75                      | 800                           | 1,15             | 4500                                     | 8           |
| 240            | 50             | 250                     | 375                | 500               | 100                         | 75                     | 95                      | 925                           | 1,05             | 4000                                     | 8           |
|                | 60             | 300                     | 450                | 600               | 120                         | 85                     | 110                     | 1400                          | 1,10             | 3600                                     | 10          |
|                | 70             | 350                     | 525                | 750               | 140                         | 95                     | 125                     | 2250                          | 1,15             | 3500                                     | 11,5        |
| 400            | 50             | 400                     | 600                | 800               | 160                         | 130                    | 215                     | 1600                          | 1,05             |                                          |             |
|                | 60             | 500                     | 750                | 1000              | 200                         | 140                    | 230                     | 2500                          | 1,10             | 3600                                     | 10          |
|                | 70             | 550                     | 825                | 1100              | 220                         | 150                    | 250                     | 4000                          | 1,15             |                                          |             |
| 800            | 50             | 700                     | 1050               | 1400              | 280                         | 210                    | 380                     | 2800                          | 1,05             | 3600                                     | 10          |
|                | 60             | 850                     | 1275               | 1700              | 340                         | 220                    | 395                     | 4200                          | 1,10             | 3500                                     | 11,5        |
|                | 70             | 950                     | 1425               | 2000              | 380                         | 240                    | 425                     | 6800                          | 1,15             | 3000                                     | 14          |
| 1200           | 50             | 1000                    | 1500               | 2000              | 400                         | 230                    | 465                     | 4500                          | 1,05             | 3500                                     | 11,5        |
|                | 60             | 1200                    | 1800               | 2400              | 480                         | 240                    | 485                     | 7000                          | 1,10             |                                          |             |
|                | 70             | 1300                    | 1950               | 3000              | 520                         | 250                    | 510                     | 11700                         | 1,15             | 3000                                     | 14          |
| 1600           | 50             | 1450                    | 2175               | 2900              | 580                         | 250                    | 565                     | 6000                          | 1,05             | 3200                                     | 11,5        |
|                | 60             | 1800                    | 2700               | 3600              | 720                         | 260                    | 585                     | 9000                          | 1,10             |                                          |             |
|                | 70             | 2000                    | 3000               | 4000              | 800                         | 270                    | 605                     | 13500                         | 1,15             | 3000                                     | 14          |
| 1800           | 50             | 1800                    | 2700               | 3600              | 720                         | 265                    | 660                     | 7600                          | 1,05             | 3200                                     | 11,5        |
|                | 60             | 2000                    | 3000               | 5000              | 800                         | 275                    | 685                     | 11500                         | 1,10             | 3000                                     | 14          |
|                | 70             | 2500                    | 3750               | 6300              | 1000                        | 285                    | 705                     | 17500                         | 1,15             | 3000                                     | 475         |

Standard sizes in bold

## CENTAMAX-S

NR



| TECHNICAL DATA |                |                         | ↓ SIZES 2400-5000  |                   | → SIZES 120-1800            |                        | → SIZE 7000-12000       |                               | → SIZE 18000     |                                          |             |
|----------------|----------------|-------------------------|--------------------|-------------------|-----------------------------|------------------------|-------------------------|-------------------------------|------------------|------------------------------------------|-------------|
| 1              | 2              | 3                       | 4                  |                   | 5                           | 6                      |                         | 7                             | 8                | 9                                        |             |
| Size           | Rubber quality | Nominal torque          | Maximum torque     |                   | Continuous vibratory torque | Permissible power loss |                         | Dynamic torsional stiffness   | Relative damping | Speed                                    | Flange size |
|                | [Shore A]      | T <sub>KN</sub><br>[Nm] | T <sub>Kmax1</sub> | T <sub>Kmax</sub> | T <sub>KW</sub><br>[Nm]     | P <sub>KV</sub><br>[W] | P <sub>KVZ</sub><br>[W] | C <sub>Tdyn</sub><br>[Nm/rad] | Ψ                | n <sub>max</sub><br>[min <sup>-1</sup> ] | SAE/ø       |
| 2400           | 50             | 2000                    | 3000               | 4000              | 800                         | 285                    | 780                     | 10000                         | 1,05             | 3000                                     | 14          |
|                | 60             | 2500                    | 3750               | 5000              | 1000                        | 295                    | 800                     | 15000                         | 1,10             | 3000                                     | 18          |
|                | 70             | 2800                    | 4200               | 6000              | 1120                        | 320                    | 870                     | 22500                         | 1,15             | 2500                                     | 475         |
| 2600           | 50             | 2500                    | 3750               | 5000              | 1000                        | 315                    | 930                     | 9500                          | 1,05             | 3000                                     | 14          |
|                | 60             | 2700                    | 4050               | 6000              | 1080                        | 325                    | 965                     | 13500                         | 1,10             | 2500                                     | 16          |
|                | 70             | 3000                    | 4500               | 7000              | 1200                        | 335                    | 995                     | 22000                         | 1,15             | 2300                                     | 18          |
| 2800           | 50             | 2800                    | 4200               | 6000              | 1120                        | 265                    | 570                     | 25000                         | 1,05             | 3000                                     | 14          |
|                | 60             | 3000                    | 4500               | 7500              | 1200                        | 275                    | 590                     | 37500                         | 1,10             | 2500                                     | 18          |
|                | 70             | 3200                    | 4800               | 8000              | 1280                        | 290                    | 620                     | 63000                         | 1,15             | 3000                                     | 475         |
| 3500           | 50             | 3200                    | 4800               | 6500              | 1280                        | 350                    | 1080                    | 16000                         | 1,05             | 3000                                     | 14          |
|                | 60             | 3500                    | 5250               | 8000              | 1400                        | 360                    | 1110                    | 24000                         | 1,10             | 3000                                     | 18          |
|                | 70             | 3800                    | 5700               | 8500              | 1520                        | 370                    | 1140                    | 38000                         | 1,15             | 2500                                     | 475         |
| 4000           | 50             | 4000                    | 6000               | 8000              | 1600                        | 320                    | 800                     | 34000                         | 1,05             | 3000                                     | 14          |
|                | 60             | 4500                    | 6750               | 11000             | 1800                        | 330                    | 825                     | 50000                         | 1,10             |                                          |             |
|                | 70             | 5000                    | 7500               | 12500             | 2000                        | 340                    | 850                     | 80000                         | 1,15             | 3000                                     | 18          |
|                | 72             | 5500                    | 8250               | 12500             | 2200                        | 365                    | 915                     | 112000                        | 1,25             |                                          |             |
|                | 75             | 6000                    | 9000               | 12500             | 2400                        | 400                    | 1000                    | 168000                        | 1,40             | 2500                                     | 475         |
| 5000           | 50             | 4500                    | 6750               | 9000              | 1800                        | 370                    | 950                     | 17000                         | 1,05             | 3000                                     | 14          |
|                | 60             | 5000                    | 7500               | 10000             | 2000                        | 400                    | 1000                    | 27000                         | 1,10             |                                          |             |
|                | 70             | 6000                    | 9000               | 12000             | 2400                        | 420                    | 1050                    | 45000                         | 1,15             | 3000                                     | 18          |
|                | 72             | 6500                    | 9750               | 12000             | 2600                        | 440                    | 1100                    | 57000                         | 1,25             |                                          |             |
|                | 75             | 7000                    | 10500              | 12000             | 2800                        | 460                    | 1150                    | 90000                         | 1,40             | 2500                                     | 475         |

Standard sizes in bold

## CENTAMAX-S

NR



| TECHNICAL DATA |                |                         | ↓ SIZES 7000-12000 |                   | → SIZE 120-1800             |                        | → SIZES 2400-5000       |                               | → SIZE 18000     |                                          |             |
|----------------|----------------|-------------------------|--------------------|-------------------|-----------------------------|------------------------|-------------------------|-------------------------------|------------------|------------------------------------------|-------------|
| 1              | 2              | 3                       | 4                  |                   | 5                           | 6                      |                         | 7                             | 8                | 9                                        |             |
| Size           | Rubber quality | Nominal torque          | Maximum torque     |                   | Continuous vibratory torque | Permissible power loss |                         | Dynamic torsional stiffness   | Relative damping | Speed                                    | Flange size |
|                | [Shore A]      | T <sub>KN</sub><br>[Nm] | T <sub>Kmax1</sub> | T <sub>Kmax</sub> | T <sub>KW</sub><br>[Nm]     | P <sub>KV</sub><br>[W] | P <sub>KVZ</sub><br>[W] | C <sub>Tdyn</sub><br>[Nm/rad] | Ψ                | n <sub>max</sub><br>[min <sup>-1</sup> ] | SAE/ø       |
| 7000           | 50             | 6300                    | 9450               | 12600             | 2520                        | 500                    | 1600                    | 28500                         | 1,05             | 2500                                     | 18          |
|                | 60             | 7000                    | 10500              | 14000             | 2800                        | 530                    | 1690                    | 45000                         | 1,10             |                                          |             |
|                | 70             | 7900                    | 11850              | 15800             | 3160                        | 550                    | 1760                    | 67000                         | 1,15             |                                          |             |
|                | 72             | 8700                    | 13050              | 15800             | 3480                        | 570                    | 1820                    | 95000                         | 1,25             |                                          |             |
|                | 75             | 9500                    | 14250              | 15800             | 3800                        | 645                    | 2050                    | 160000                        | 1,40             |                                          |             |
| 8000           | 50             | 8000                    | 12000              | 16000             | 3200                        | 480                    | 1390                    | 60000                         | 1,05             | 2500                                     | 18          |
|                | 60             | 9000                    | 13500              | 22000             | 3600                        | 495                    | 1435                    | 80000                         | 1,10             |                                          |             |
|                | 70             | 10000                   | 15000              | 25000             | 4000                        | 520                    | 1500                    | 130000                        | 1,15             |                                          |             |
|                | 72             | 11000                   | 16500              | 25000             | 4400                        | 545                    | 1580                    | 182000                        | 1,25             |                                          |             |
|                | 75             | 12000                   | 18000              | 25000             | 4800                        | 555                    | 1610                    | 273000                        | 1,40             |                                          |             |
| 9000           | 50             | 8000                    | 12000              | 16000             | 3200                        | 400                    | 1090                    | 51000                         | 1,05             | 2500                                     | 18          |
|                | 60             | 9000                    | 13500              | 22000             | 3600                        | 415                    | 1130                    | 68000                         | 1,10             |                                          |             |
|                | 70             | 10000                   | 15000              | 25000             | 4000                        | 430                    | 1165                    | 110000                        | 1,15             |                                          |             |
|                | 72             | 11000                   | 16500              | 25000             | 4400                        | 455                    | 1240                    | 155000                        | 1,25             |                                          |             |
|                | 75             | 12000                   | 18000              | 25000             | 4800                        | 515                    | 1400                    | 232000                        | 1,40             |                                          |             |
| 10000          | 72             | 13800                   | 20700              | 25000             | 5520                        | 560                    | 1780                    | 195000                        | 1,25             | 2500                                     | 18          |
|                |                |                         |                    |                   |                             |                        |                         |                               |                  | 2300                                     | 21          |
|                | 75             | 15000                   | 22500              | 25000             | 6000                        | 570                    | 1800                    | 330000                        | 1,40             | 2000                                     | 24          |
| 12000          | 50             | 12500                   | 18750              | 25000             | 5000                        | 620                    | 2400                    | 79000                         | 1,05             | 2300                                     | 21          |
|                | 60             | 14000                   | 21000              | 28000             | 5600                        | 640                    | 2475                    | 115000                        | 1,10             |                                          |             |
|                | 70             | 15000                   | 22500              | 30000             | 6000                        | 665                    | 2575                    | 188000                        | 1,15             |                                          |             |
|                | 72             | 16500                   | 24750              | 30000             | 6600                        | 705                    | 2730                    | 263000                        | 1,25             |                                          |             |

Standard sizes in bold

# CENTAMAX-S

## NR



| TECHNICAL DATA |                |                         | ↓ SIZE 18000               |                   | → SIZES 120-1800            |                        | → SIZES 2400-5000       |                               | → SIZES 7000-12000 |                                          |             |
|----------------|----------------|-------------------------|----------------------------|-------------------|-----------------------------|------------------------|-------------------------|-------------------------------|--------------------|------------------------------------------|-------------|
| 1              | 2              | 3                       | 4                          |                   | 5                           | 6                      |                         | 7                             | 8                  | 9                                        |             |
| Size           | Rubber quality | Nominal torque          | Maximum torque             |                   | Continuous vibratory torque | Permissible power loss |                         | Dynamic torsional stiffness   | Relative damping   | Speed                                    | Flange size |
|                | [Shore A]      | T <sub>KN</sub><br>[Nm] | T <sub>Kmax1</sub><br>[Nm] | T <sub>Kmax</sub> | T <sub>KW</sub><br>[Nm]     | P <sub>KV</sub><br>[W] | P <sub>KVZ</sub><br>[W] | C <sub>Tdyn</sub><br>[Nm/rad] | Ψ                  | n <sub>max</sub><br>[min <sup>-1</sup> ] | SAE/ø       |
| 18000          | 50             | 16000                   | 24000                      | 32000             | 6400                        | 600                    | 2250                    | 115000                        | 1,05               | 2300<br>2000                             | 21<br>24    |
|                | 60             | 18000                   | 27000                      | 36000             | 7200                        | 620                    | 2330                    | 170000                        | 1,10               |                                          |             |
|                | 70             | 20000                   | 30000                      | 40000             | 8000                        | 650                    | 2400                    | 282000                        | 1,15               |                                          |             |
|                | 72             | 22000                   | 33000                      | 40000             | 8800                        | 680                    | 2550                    | 395000                        | 1,25               |                                          |             |
|                | 75             | 24000                   | 36000                      | 40000             | 9600                        | 750                    | 2800                    | 590000                        | 1,40               |                                          |             |
|                | 80             | 24000                   | 36000                      | 40000             | 9600                        | 750                    | 2800                    | 800000                        | 1,40               |                                          |             |

Standard sizes in bold



## CENTAMAX-S

## NR

## DOUBLE ELEMENT COUPLINGS



## TECHNICAL DATA

## ↓ SIZES 4000-18000

| 1     | 2                           | 3                                  | 4                                                  |       | 5                                               | 6                                                     |      | 7                                                     | 8                          | 9                                          |                      |
|-------|-----------------------------|------------------------------------|----------------------------------------------------|-------|-------------------------------------------------|-------------------------------------------------------|------|-------------------------------------------------------|----------------------------|--------------------------------------------|----------------------|
| Size  | Rubber quality<br>[Shore A] | Nominal torque<br>$T_{KN}$<br>[Nm] | Maximum torque<br>$T_{Kmax1}$   $T_{Kmax}$<br>[Nm] |       | Continuous vibratory torque<br>$T_{KW}$<br>[Nm] | Permissible power loss<br>$P_{KV}$   $P_{KVZ}$<br>[W] |      | Dynamic torsional stiffness<br>$C_{Tdyn}$<br>[Nm/rad] | Relative damping<br>$\Psi$ | Speed<br>$n_{max}$<br>[min <sup>-1</sup> ] | Flange size<br>SAE/ø |
| 4000  | 50                          | 8000                               | 12000                                              | 16000 | 3200                                            | 640                                                   | 1600 | 68000                                                 | 1,05                       | 2300                                       | 14                   |
|       | 60                          | 9000                               | 13500                                              | 22000 | 3600                                            | 660                                                   | 1655 | 100000                                                | 1,10                       |                                            |                      |
|       | 70                          | 10000                              | 15000                                              | 25000 | 4000                                            | 685                                                   | 1710 | 160000                                                | 1,15                       |                                            |                      |
|       | 72                          | 11000                              | 16500                                              | 25000 | 4400                                            | 730                                                   | 1825 | 224000                                                | 1,25                       |                                            |                      |
|       | 75                          | 12000                              | 18000                                              | 25000 | 4800                                            | 800                                                   | 2000 | 336000                                                | 1,40                       |                                            |                      |
| 8000  | 50                          | 16000                              | 24000                                              | 32000 | 6400                                            | 960                                                   | 2785 | 120000                                                | 1,05                       | 2300                                       | 18                   |
|       | 60                          | 18000                              | 27000                                              | 44000 | 7200                                            | 995                                                   | 2880 | 160000                                                | 1,10                       |                                            |                      |
|       | 70                          | 20000                              | 30000                                              | 50000 | 8000                                            | 1025                                                  | 2980 | 260000                                                | 1,15                       |                                            |                      |
|       | 72                          | 22000                              | 33000                                              | 50000 | 8800                                            | 1090                                                  | 3160 | 364000                                                | 1,25                       |                                            |                      |
|       | 75                          | 24000                              | 36000                                              | 50000 | 9600                                            | 1235                                                  | 3580 | 546000                                                | 1,40                       |                                            |                      |
| 10000 | 72                          | 27600                              | 41400                                              | 50000 | 11040                                           | 1120                                                  | 3560 | 390000                                                | 1,25                       | 2300                                       | 18                   |
|       |                             |                                    |                                                    |       |                                                 |                                                       |      |                                                       |                            | 2300                                       | 21                   |
|       | 75                          | 30000                              | 45000                                              | 50000 | 12000                                           | 1220                                                  | 3880 | 660000                                                | 1,40                       | 2000                                       | 24                   |
| 12000 | 50                          | 25000                              | 37500                                              | 50000 | 10000                                           | 1240                                                  | 4800 | 158000                                                | 1,05                       | 2000                                       | 21                   |
|       | 60                          | 28000                              | 42000                                              | 56000 | 11200                                           | 1280                                                  | 4950 | 230000                                                | 1,10                       |                                            |                      |
|       | 70                          | 30000                              | 45000                                              | 60000 | 12000                                           | 1330                                                  | 5150 | 376000                                                | 1,15                       |                                            |                      |
|       | 72                          | 33000                              | 49500                                              | 60000 | 13200                                           | 1410                                                  | 5460 | 526000                                                | 1,25                       |                                            |                      |
| 18000 | 50                          | 32000                              | 48000                                              | 60000 | 12800                                           | 1200                                                  | 4440 | 230000                                                | 1,05                       | 2000                                       | 21                   |
|       | 60                          | 36000                              | 54000                                              | 60000 | 14400                                           | 1240                                                  | 4595 | 340000                                                | 1,10                       |                                            |                      |
|       | 70                          | 40000                              | 60000                                              | 60000 | 16000                                           | 1285                                                  | 4750 | 564000                                                | 1,15                       |                                            |                      |
|       | 72                          | 44000                              | 60000                                              | 60000 | 17600                                           | 1365                                                  | 5280 | 790000                                                | 1,25                       |                                            |                      |
|       | 75                          | 48000                              | 60000                                              | 60000 | 19200                                           | 1540                                                  | 5960 | 1180000                                               | 1,40                       |                                            |                      |
|       | 80                          | 48000                              | 60000                                              | 60000 | 19200                                           | 1540                                                  | 5960 | 1600000                                               | 1,40                       |                                            |                      |

## CENTAMAX-S

## SILIKON



## TECHNICAL DATA

↓ SIZES 800-4000

→ SIZES 5000-18000

| 1    | 2              | 3                | 4              |             | 5                           | 6                      |             | 7                           |              |              |              |               | 8                | 9                                 |             |
|------|----------------|------------------|----------------|-------------|-----------------------------|------------------------|-------------|-----------------------------|--------------|--------------|--------------|---------------|------------------|-----------------------------------|-------------|
| Size | Rubber quality | Nominal torque   | Maximum torque |             | Continuous vibratory torque | Permissible power loss |             | Dynamic torsional stiffness |              |              |              |               | Relative damping | Speed                             | Flange size |
|      | [Shore A]      | $T_{KN}$<br>[Nm] | $T_{Kmax1}$    | $T_{Kmax}$  | $T_{KW}$                    | $P_{KV}$               | $P_{KVZ}$   | $C_{Tdyn}$ [Nm/rad]         |              |              |              |               | $\psi$           | $n_{max}$<br>[min <sup>-1</sup> ] | SAE/ø       |
|      |                |                  |                |             |                             |                        |             | 10% $T_{KN}$                | 25% $T_{KN}$ | 50% $T_{KN}$ | 75% $T_{KN}$ | 100% $T_{KN}$ |                  |                                   |             |
| 800  | 50             | 700              | 1050           | 1400        | 280                         | 315                    | 565         | 2000                        | 2100         | 2500         | 3100         | 4400          | 1,20             | 3600                              | 10          |
|      | 60             | 850              | 1275           | 1700        | 340                         | 325                    | 585         | 3000                        | 3200         | 3600         | 4800         | 6700          | 1,25             | 3500                              | 11,5        |
| 1200 | <b>50</b>      | <b>1000</b>      | <b>1500</b>    | <b>2000</b> | <b>400</b>                  | <b>345</b>             | <b>695</b>  | <b>3900</b>                 | <b>4100</b>  | <b>4500</b>  | <b>5600</b>  | <b>7800</b>   | <b>1,20</b>      | <b>3500</b>                       | <b>11,5</b> |
|      | <b>60</b>      | <b>1200</b>      | <b>1800</b>    | <b>2400</b> | <b>480</b>                  | <b>355</b>             | <b>720</b>  | <b>5500</b>                 | <b>5800</b>  | <b>6700</b>  | <b>9100</b>  | <b>12500</b>  | <b>1,25</b>      | <b>3000</b>                       | <b>14</b>   |
| 1600 | 50             | 1450             | 2175           | 2900        | 580                         | 375                    | 845         | 4900                        | 5200         | 5700         | 7000         | 9300          | 1,20             | 3200                              | 11,5        |
|      | 60             | 1800             | 2700           | 3600        | 720                         | 390                    | 875         | 6500                        | 6900         | 7800         | 10200        | 13800         | 1,25             | 3000                              | 14          |
| 1800 | <b>50</b>      | <b>1800</b>      | <b>2700</b>    | <b>3600</b> | <b>720</b>                  | <b>415</b>             | <b>1035</b> | <b>6300</b>                 | <b>6600</b>  | <b>7300</b>  | <b>9100</b>  | <b>12600</b>  | <b>1,20</b>      | <b>3200</b>                       | <b>11,5</b> |
|      | <b>60</b>      | <b>2000</b>      | <b>3000</b>    | <b>5000</b> | <b>800</b>                  | <b>430</b>             | <b>1070</b> | <b>8900</b>                 | <b>9400</b>  | <b>11000</b> | <b>14000</b> | <b>19500</b>  | <b>1,25</b>      | <b>3000</b>                       | <b>14</b>   |
|      | <b>70</b>      | <b>2500</b>      | <b>3750</b>    | <b>6300</b> | <b>1000</b>                 | <b>445</b>             | <b>1105</b> | <b>11200</b>                | <b>12800</b> | <b>16000</b> | <b>24000</b> | <b>32500</b>  | <b>1,25</b>      | <b>3000</b>                       | <b>475</b>  |
| 2400 | <b>50</b>      | <b>2000</b>      | <b>3000</b>    | <b>4000</b> | <b>800</b>                  | <b>430</b>             | <b>1170</b> | <b>8000</b>                 | <b>8400</b>  | <b>9000</b>  | <b>11300</b> | <b>15300</b>  | <b>1,20</b>      | <b>3000</b>                       | <b>14</b>   |
|      | <b>60</b>      | <b>2500</b>      | <b>3750</b>    | <b>5000</b> | <b>1000</b>                 | <b>445</b>             | <b>1210</b> | <b>10800</b>                | <b>11300</b> | <b>13500</b> | <b>18200</b> | <b>25000</b>  | <b>1,25</b>      | <b>3000</b>                       | <b>475</b>  |
| 2600 | 50             | 2500             | 3750           | 5000        | 1000                        | 475                    | 1400        | 8500                        | 9300         | 9500         | 12500        | 18800         | 1,20             | 3000                              | 14          |
|      | 60             | 2700             | 4050           | 5400        | 1080                        | 490                    | 1450        | 12500                       | 13000        | 15400        | 21000        | 30400         | 1,25             | 2300                              | 18          |
| 2800 | 50             | 2800             | 4200           | 5600        | 1120                        | 400                    | 860         | 21000                       | 23000        | 25000        | 32500        | 42500         | 1,20             | 3000                              | 14          |
|      | 60             | 3000             | 4500           | 6000        | 1200                        | 415                    | 890         | 30300                       | 31800        | 37500        | 50600        | 69500         | 1,25             | 3000                              | 475         |
| 3500 | <b>50</b>      | <b>3200</b>      | <b>4800</b>    | <b>6400</b> | <b>1280</b>                 | <b>525</b>             | <b>1615</b> | <b>14000</b>                | <b>14500</b> | <b>15600</b> | <b>20000</b> | <b>27800</b>  | <b>1,20</b>      | <b>3000</b>                       | <b>14</b>   |
|      | <b>60</b>      | <b>3500</b>      | <b>5250</b>    | <b>7000</b> | <b>1400</b>                 | <b>545</b>             | <b>1670</b> | <b>18500</b>                | <b>19300</b> | <b>22800</b> | <b>30000</b> | <b>40500</b>  | <b>1,25</b>      | <b>3000</b>                       | <b>475</b>  |
| 4000 | <b>50</b>      | <b>4000</b>      | <b>6000</b>    | <b>8000</b> | <b>1600</b>                 | <b>480</b>             | <b>1200</b> | <b>29000</b>                | <b>31500</b> | <b>37000</b> | <b>47500</b> | <b>67000</b>  | <b>1,20</b>      | <b>3000</b>                       | <b>14</b>   |
|      | <b>60</b>      | <b>4500</b>      | <b>6750</b>    | <b>9000</b> | <b>1800</b>                 | <b>495</b>             | <b>1240</b> | <b>39500</b>                | <b>41000</b> | <b>48500</b> | <b>65500</b> | <b>94000</b>  | <b>1,25</b>      | <b>3000</b>                       | <b>475</b>  |
|      |                |                  |                |             |                             |                        |             |                             |              |              |              |               |                  | <b>2300</b>                       | <b>18</b>   |

Standard sizes in bold

## CENTAMAX-S

## SILIKON



## TECHNICAL DATA

↓ SIZES 5000-18000

→ SIZES 800-4000

| 1     | 2              | 3                | 4              |              | 5                           | 6                      |                  | 7                           |        |        |        |        | 8                | 9                                 |             |
|-------|----------------|------------------|----------------|--------------|-----------------------------|------------------------|------------------|-----------------------------|--------|--------|--------|--------|------------------|-----------------------------------|-------------|
| Size  | Rubber quality | Nominal torque   | Maximum torque |              | Continuous vibratory torque | Permissible power loss |                  | Dynamic torsional stiffness |        |        |        |        | Relative damping | Speed                             | Flange size |
|       | [Shore A]      | $T_{KN}$<br>[Nm] | $T_{Kmax1}$    | $T_{Kmax}$   | $T_{KW}$<br>[Nm]            | $P_{KV}$<br>[W]        | $P_{KVZ}$<br>[W] | $C_{Tdyn}$ [Nm/rad]         |        |        |        |        | $\psi$           | $n_{max}$<br>[min <sup>-1</sup> ] | SAE/ø       |
|       |                |                  | 10% $T_{KN}$   | 25% $T_{KN}$ | 50% $T_{KN}$                | 75% $T_{KN}$           | 100% $T_{KN}$    |                             |        |        |        |        |                  |                                   |             |
| 5000  | 50             | 5000             | 7500           | 10000        | 2000                        | 555                    | 1390             | 13100                       | 13800  | 15500  | 22700  | 36000  | 1,20             | 3000                              | 14          |
|       | 60             | 5500             | 8250           | 11000        | 2200                        | 575                    | 1440             | 17500                       | 19000  | 23500  | 33500  | 49000  | 1,25             | 3000                              | 475         |
|       | 70             | 6000             | 9000           | 12000        | 2400                        | 595                    | 1485             | 31000                       | 33500  | 44000  | 64000  | 92000  | 1,25             | 2500                              | 18          |
| 7000  | 50             | 6300             | 9450           | 12600        | 2520                        | 750                    | 2385             | 23800                       | 25500  | 28000  | 37500  | 56000  | 1,20             | 2500                              | 18          |
|       | 60             | 7000             | 10500          | 14000        | 2800                        | 775                    | 2470             | 32000                       | 33000  | 40000  | 55000  | 77000  | 1,25             | 2500                              | 18          |
| 8000  | 50             | 8000             | 12000          | 16000        | 3200                        | 720                    | 2090             | 51000                       | 54000  | 60000  | 78000  | 105000 | 1,20             | 2500                              | 18          |
|       | 60             | 9000             | 13500          | 18000        | 3600                        | 745                    | 2165             | 60000                       | 62000  | 75000  | 103500 | 147000 | 1,25             | 2300                              | 21          |
| 9000  | 50             | 8000             | 12000          | 16000        | 3200                        | 600                    | 1630             | 49000                       | 52000  | 62000  | 85000  | 125000 | 1,20             | 2500                              | 18          |
|       | 60             | 9000             | 13500          | 18000        | 3600                        | 620                    | 1685             | 54400                       | 56500  | 68000  | 95000  | 132000 | 1,25             | 2300                              | 21          |
| 10000 | 50             | 10000            | 15000          | 20000        | 4000                        | 750                    | 2385             | 50500                       | 53500  | 59500  | 77400  | 104000 | 1,20             | 2500                              | 18          |
|       | 60             | 11000            | 16500          | 22000        | 4400                        | 775                    | 2460             | 69000                       | 72000  | 86000  | 122000 | 185000 | 1,25             | 2300                              | 21          |
|       | 70             | 12500            | 18750          | 25000        | 5000                        | 800                    | 2542             | 100000                      | 106000 | 140000 | 200000 | 284000 | 1,25             | 2000                              | 24          |
| 12000 | 50             | 12500            | 18750          | 25000        | 5000                        | 930                    | 3600             | 60400                       | 71000  | 79000  | 103000 | 138000 | 1,20             | 2300                              | 21          |
|       | 60             | 14000            | 21000          | 28000        | 5600                        | 960                    | 3715             | 92000                       | 95500  | 115000 | 160000 | 220000 | 1,25             | 2000                              | 24          |
| 18000 | 50             | 16000            | 24000          | 32000        | 6400                        | 900                    | 3330             | 98000                       | 103500 | 115000 | 150000 | 200000 | 1,20             | 2300                              | 21          |
|       | 60             | 18000            | 27000          | 36000        | 7200                        | 930                    | 3445             | 136000                      | 141000 | 170000 | 245000 | 330000 | 1,25             | 2000                              | 24          |

Standard sizes in bold

# CENTAMAX-S

## CENTALAN HT



## TECHNICAL DATA

↓ SIZES 800-3500

→ SIZES 4000-18000

| 1    | 2              | 3                       | 4                  |                   | 5                           | 6                      |                         | 7*                            | 8                | 9                                        |             |
|------|----------------|-------------------------|--------------------|-------------------|-----------------------------|------------------------|-------------------------|-------------------------------|------------------|------------------------------------------|-------------|
| Size | Rubber quality | Nominal torque          | Maximum torque     |                   | Continuous vibratory torque | Permissible power loss |                         | Dynamic torsional stiffness   | Relative damping | Speed                                    | Flange size |
|      | [Shore A]      | T <sub>KN</sub><br>[Nm] | T <sub>Kmax1</sub> | T <sub>Kmax</sub> | T <sub>KW</sub><br>[Nm]     | P <sub>KV</sub><br>[W] | P <sub>KVZ</sub><br>[W] | C <sub>Tdyn</sub><br>[Nm/rad] | ψ                | n <sub>max</sub><br>[min <sup>-1</sup> ] | SAE/ø       |
|      |                |                         |                    |                   |                             |                        |                         |                               |                  |                                          |             |
| 800  | 50             | 700                     | 1050               | 1400              | 280                         | 265                    | 470                     | 2800                          | 1,00             | 3600                                     | 10          |
|      | 60             | 850                     | 1275               | 1700              | 340                         | 275                    | 485                     | 4200                          | 1,10             | 3500                                     | 11,5        |
|      | 70             | 950                     | 1425               | 2000              | 380                         | 285                    | 505                     | 6800                          | 1,10             | 3000                                     | 14          |
| 1200 | 50             | 1000                    | 1500               | 2000              | 400                         | 290                    | 585                     | 4500                          | 1,00             | 3500                                     | 11,5        |
|      | 60             | 1200                    | 1800               | 2400              | 480                         | 300                    | 605                     | 7000                          | 1,10             |                                          |             |
|      | 70             | 1300                    | 1950               | 3000              | 520                         | 310                    | 625                     | 11700                         | 1,10             | 3000                                     | 14          |
| 1600 | 50             | 1450                    | 2175               | 2900              | 580                         | 315                    | 710                     | 6000                          | 1,00             | 3200                                     | 11,5        |
|      | 60             | 1800                    | 2700               | 3600              | 720                         | 325                    | 735                     | 9000                          | 1,10             | 3000                                     | 14          |
| 1800 | 50             | 1800                    | 2700               | 3600              | 720                         | 330                    | 820                     | 7600                          | 1,00             | 3200                                     | 11,5        |
|      | 60             | 2000                    | 3000               | 5000              | 800                         | 340                    | 850                     | 11500                         | 1,10             | 3000                                     | 14          |
|      | 70             | 2500                    | 3750               | 6300              | 1000                        | 355                    | 875                     | 17500                         | 1,10             | 3000                                     | 475         |
| 2400 | 50             | 2000                    | 3000               | 4000              | 800                         | 355                    | 965                     | 10000                         | 1,00             | 3000                                     | 14          |
|      | 60             | 2500                    | 3750               | 5000              | 1000                        | 365                    | 1000                    | 15000                         | 1,10             | 3000                                     | 475         |
|      | 70             | 2800                    | 4200               | 6000              | 1120                        | 380                    | 1035                    | 22500                         | 1,10             | 2500                                     | 18          |
| 2600 | 50             | 2500                    | 3750               | 5000              | 1000                        | 395                    | 1165                    | 9500                          | 1,00             | 3000                                     | 14          |
|      | 60             | 2700                    | 4050               | 6000              | 1080                        | 410                    | 1205                    | 13500                         | 1,10             | 2500                                     | 16          |
| 2800 | 50             | 2800                    | 4200               | 6000              | 1120                        | 330                    | 710                     | 25000                         | 1,00             | 3000                                     | 14          |
|      | 60             | 3000                    | 4500               | 7500              | 1200                        | 340                    | 735                     | 37500                         | 1,10             | 2500                                     | 18          |
|      | 70             | 3200                    | 4800               | 8000              | 1280                        | 355                    | 760                     | 63000                         | 1,10             | 3000                                     | 475         |
| 3500 | 50             | 3200                    | 4800               | 6500              | 1280                        | 440                    | 1355                    | 16000                         | 1,00             | 3000                                     | 14          |
|      | 60             | 3500                    | 5250               | 8000              | 1400                        | 455                    | 1405                    | 24000                         | 1,10             | 3000                                     | 475         |
|      | 70             | 3800                    | 5700               | 8500              | 1520                        | 470                    | 1450                    | 38000                         | 1,10             | 2500                                     | 18          |

Standard sizes in bold  
\* conditionally

# CENTAMAX-S

## CENTALAN HT

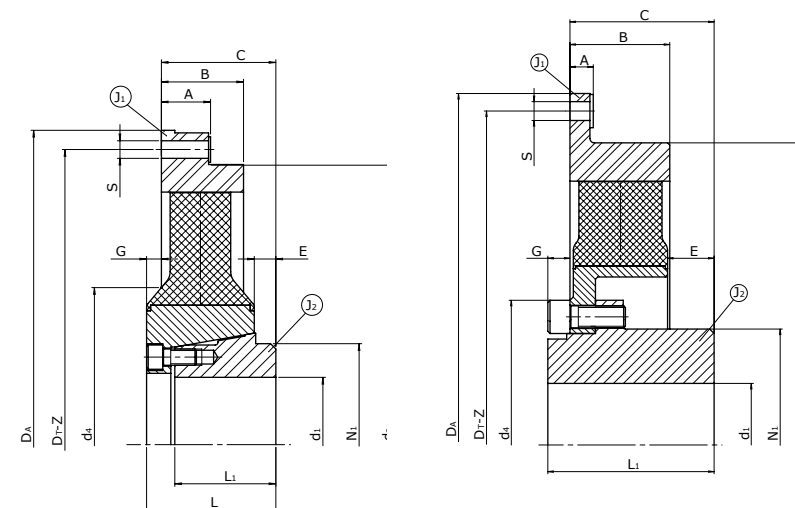


| TECHNICAL DATA |                             | ↓ SIZES 4000-18000                 |                                                    |              | → SIZES 800-3500                                |                                                       |             |                                                       |                            |                                            |                      |
|----------------|-----------------------------|------------------------------------|----------------------------------------------------|--------------|-------------------------------------------------|-------------------------------------------------------|-------------|-------------------------------------------------------|----------------------------|--------------------------------------------|----------------------|
| 1              | 2                           | 3                                  | 4                                                  |              | 5                                               | 6*                                                    |             | 7*                                                    | 8                          | 9                                          |                      |
| Size           | Rubber quality<br>[Shore A] | Nominal torque<br>$T_{KN}$<br>[Nm] | Maximum torque<br>$T_{Kmax1}$   $T_{Kmax}$<br>[Nm] |              | Continuous vibratory torque<br>$T_{KW}$<br>[Nm] | Permissible power loss<br>$P_{KV}$   $P_{KVZ}$<br>[W] |             | Dynamic torsional stiffness<br>$C_{Tdyn}$<br>[Nm/rad] | Relative damping<br>$\psi$ | Speed<br>$n_{max}$<br>[min <sup>-1</sup> ] | Flange size<br>SAE/ø |
| <b>4000</b>    | <b>50</b>                   | <b>4000</b>                        | <b>6000</b>                                        | <b>8000</b>  | <b>1600</b>                                     | <b>400</b>                                            | <b>1000</b> | <b>34000</b>                                          | <b>1,00</b>                | <b>3000</b>                                | <b>14</b>            |
|                | <b>60</b>                   | <b>4500</b>                        | <b>6750</b>                                        | <b>11000</b> | <b>1800</b>                                     | <b>415</b>                                            | <b>1035</b> | <b>50000</b>                                          | <b>1,10</b>                | <b>3000</b>                                | <b>475</b>           |
|                | <b>70</b>                   | <b>5000</b>                        | <b>7500</b>                                        | <b>12500</b> | <b>2000</b>                                     | <b>430</b>                                            | <b>1070</b> | <b>80000</b>                                          | <b>1,10</b>                | <b>2500</b>                                | <b>18</b>            |
| <b>5000</b>    | <b>50</b>                   | <b>4500</b>                        | <b>6750</b>                                        | <b>9000</b>  | <b>1800</b>                                     | <b>465</b>                                            | <b>1165</b> | <b>17000</b>                                          | <b>1,00</b>                | <b>3000</b>                                | <b>14</b>            |
|                | <b>60</b>                   | <b>5000</b>                        | <b>7500</b>                                        | <b>10000</b> | <b>2000</b>                                     | <b>480</b>                                            | <b>1205</b> | <b>27000</b>                                          | <b>1,10</b>                | <b>3000</b>                                | <b>475</b>           |
|                | <b>70</b>                   | <b>6000</b>                        | <b>9000</b>                                        | <b>12000</b> | <b>2400</b>                                     | <b>500</b>                                            | <b>1245</b> | <b>45000</b>                                          | <b>1,10</b>                | <b>2500</b>                                | <b>18</b>            |
| <b>7000</b>    | <b>50</b>                   | <b>6300</b>                        | <b>9450</b>                                        | <b>12600</b> | <b>2520</b>                                     | <b>625</b>                                            | <b>1990</b> | <b>28500</b>                                          | <b>1,00</b>                | <b>2500</b>                                | <b>18</b>            |
|                | <b>60</b>                   | <b>7000</b>                        | <b>10500</b>                                       | <b>14000</b> | <b>2800</b>                                     | <b>645</b>                                            | <b>2060</b> | <b>45000</b>                                          | <b>1,10</b>                |                                            |                      |
|                | <b>70</b>                   | <b>7900</b>                        | <b>11850</b>                                       | <b>15800</b> | <b>3160</b>                                     | <b>670</b>                                            | <b>2130</b> | <b>67000</b>                                          | <b>1,10</b>                |                                            |                      |
| <b>8000</b>    | <b>50</b>                   | <b>8000</b>                        | <b>12000</b>                                       | <b>16000</b> | <b>3200</b>                                     | <b>600</b>                                            | <b>1740</b> | <b>60000</b>                                          | <b>1,00</b>                | <b>2500</b>                                | <b>18</b>            |
|                | <b>60</b>                   | <b>9000</b>                        | <b>13500</b>                                       | <b>22000</b> | <b>3600</b>                                     | <b>620</b>                                            | <b>1800</b> | <b>80000</b>                                          | <b>1,10</b>                | <b>2500</b>                                | <b>21</b>            |
|                | <b>70</b>                   | <b>10000</b>                       | <b>15000</b>                                       | <b>25000</b> | <b>4000</b>                                     | <b>640</b>                                            | <b>1860</b> | <b>130000</b>                                         | <b>1,10</b>                | <b>2000</b>                                | <b>24</b>            |
| 9000           | 50                          | 8000                               | 12000                                              | 16000        | 3200                                            | 500                                                   | 1360        | 51000                                                 | 1,00                       | 2500                                       | 18                   |
|                | 60                          | 9000                               | 13500                                              | 22000        | 3600                                            | 520                                                   | 1410        | 68000                                                 | 1,10                       | 2300                                       | 21                   |
| <b>18000</b>   | <b>50</b>                   | <b>16000</b>                       | <b>24000</b>                                       | <b>32000</b> | <b>6400</b>                                     | <b>750</b>                                            | <b>2775</b> | <b>115000</b>                                         | <b>1,00</b>                | <b>2300</b>                                | <b>21</b>            |
|                | <b>60</b>                   | <b>18000</b>                       | <b>27000</b>                                       | <b>36000</b> | <b>7200</b>                                     | <b>775</b>                                            | <b>2870</b> | <b>170000</b>                                         | <b>1,10</b>                | <b>2000</b>                                | <b>24</b>            |
|                | <b>70</b>                   | <b>20000</b>                       | <b>30000</b>                                       | <b>40000</b> | <b>8000</b>                                     | <b>805</b>                                            | <b>2970</b> | <b>282000</b>                                         | <b>1,10</b>                |                                            |                      |

Standard sizes in bold  
\* conditionally

# CENTAMAX-S

## TYPE SA



Size 120-2400

Size 2600-18000

## DIMENSIONS

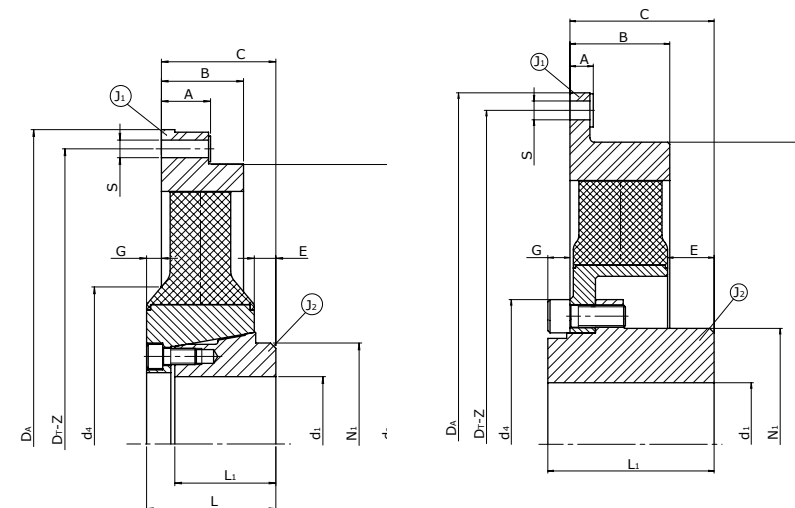
## ↓ SIZES 120-2800

## → SIZES 3500-18000

| Size | Dimensions |      |       |                       |                  |                |      |    |     |                |                | SAE/Ø | Flange dimensions |                |        |      | Moments of inertia and masses         |                |                |                |                            |
|------|------------|------|-------|-----------------------|------------------|----------------|------|----|-----|----------------|----------------|-------|-------------------|----------------|--------|------|---------------------------------------|----------------|----------------|----------------|----------------------------|
|      | A          | B    | C     | d <sub>1</sub><br>max | d <sub>3</sub> * | d <sub>4</sub> | E    | G  | L   | L <sub>1</sub> | N <sub>1</sub> |       | D <sub>A</sub>    | D <sub>T</sub> | Z      | S    | J <sub>1</sub><br>[kgm <sup>2</sup> ] | J <sub>2</sub> | m <sub>1</sub> | m <sub>2</sub> | m <sub>total</sub><br>[kg] |
| 120  | 5          | 43   | 64    | 42                    | -                | -              | 20   | -  | 56  | 42             | 67             | 6,5   | 215,9             | 200,0          | 6x60°  | 9    | 0,010                                 | 0,002          | 1,1            | 1,3            | 2,4                        |
|      | 4          | 43   | 64    | 42                    | -                | -              | 20   | -  | 56  | 42             | 67             | 7,5   | 241,3             | 222,3          | 6x60°  | 9    | 0,013                                 | 0,002          | 1,3            | 1,3            | 2,6                        |
|      | 6,6        | 43   | 64    | 42                    | -                | -              | 20   | -  | 56  | 42             | 67             | 8     | 263,5             | 244,5          | 6x60°  | 11   | 0,013                                 | 0,002          | 1,3            | 1,3            | 2,6                        |
| 240  | 27,2       | 46   | 75    | 50                    | -                | 50             | 26   | -  | 75  | 60             | 73             | 8     | 263,5             | 244,5          | 6x60°  | 11   | 0,018                                 | 0,004          | 1,6            | 2,5            | 4,1                        |
|      | 10         | 46   | 75    | 50                    | -                | 50             | 26   | -  | 75  | 60             | 73             | 10    | 314,3             | 295,3          | 8x45°  | 10,5 | 0,026                                 | 0,004          | 1,9            | 2,5            | 4,4                        |
|      | 10         | 46   | 75    | 50                    | 225              | -              | 27   | -  | 75  | 60             | 73             | 11,5  | 352,4             | 333,4          | 8x45°  | 11   | 0,039                                 | 0,004          | 2,4            | 2,5            | 4,9                        |
| 400  | 26,2       | 45   | 75    | 6                     | -                | 131            | 25   | 5  | 80  | 65             | 90             | 10    | 314,3             | 295,3          | 8x45°  | 10,5 | 0,056                                 | 0,023          | 2,9            | 6,6            | 9,5                        |
| 800  | 41,2       | 50   | 82    | 70                    | 316              | 143            | 18   | 2  | 84  | 66             | 107            | 10    | 314,3             | 295,3          | 8x45°  | 10,5 | 0,056                                 | 0,023          | 2,9            | 6,6            | 9,5                        |
|      | 27,2       | 39   | 71    | 70                    | 351              | 180            | 18   | 13 | 84  | 66             | 107            | 11,5  | 352,4             | 333,4          | 8x45°  | 11   | 0,058                                 | 0,021          | 2,8            | 6,6            | 9,4                        |
|      | 11,5       | 46   | 74    | 70                    | 466,7            | 170            | 18   | 10 | 84  | 66             | 107            | 14    | 466,7             | 438,2          | 8x45°  | 13   | 0,134                                 | 0,021          | 4,6            | 6,6            | 11,2                       |
| 1200 | 27,2       | 39   | 65    | 70                    | 351              | 185            | 18   | 8  | 84  | 66             | 107            | 11,5  | 352,4             | 333,4          | 8x45°  | 11   | 0,065                                 | 0,039          | 3,1            | 9,2            | 12,3                       |
|      | 11,5       | 46   | 74    | 70                    | 466,7            | 192            | 18   | 10 | 84  | 66             | 107            | 14    | 466,7             | 438,2          | 8x45°  | 13   | 0,137                                 | 0,039          | 4,7            | 9,2            | 13,9                       |
|      | 14,2       | 68   | 113   | 105                   | 418              | -              | 24,5 | -  | 106 | 85             | 150            | 11,5  | 352,4             | 333,4          | 8x45°  | 11   | 0,228                                 | 0,086          | 6,9            | 13,6           | 20,5                       |
| 1600 | 36,5       | 61   | 93    | 105                   | 464              | 223,1          | 24,5 | 13 | 106 | 85             | 150            | 14    | 466,7             | 438,2          | 8x45°  | 13   | 0,223                                 | 0,086          | 6,1            | 13,6           | 19,7                       |
|      | 27,2       | 64   | 92    | 79                    | 350,4            | 225            | 18   | 10 | 104 | 75             | 122            | 11,5  | 352,4             | 333,4          | 8x45°  | 10,5 | 0,099                                 | 0,068          | 4,6            | 13,8           | 18,4                       |
|      | 12,5       | 78   | 100   | 79                    | 466,7            | 181            | 18   | 4  | 104 | 75             | 122            | 14    | 466,7             | 438,2          | 8x45°  | 13   | 0,149                                 | 0,070          | 6,2            | 13,8           | 20,0                       |
| 2400 | 23         | 83,5 | 111,5 | 79                    | -                | -              | 18   | -  | 104 | 75             | 122            | 475   | 475,0             | 450,0          | 12x30° | 11   | 0,803                                 | 0,069          | 21,9           | 13,8           | 35,7                       |
|      | 36,5       | 61   | 85    | 105                   | 263,7            | 248            | 16   | 11 | 96  | 75             | 150            | 14    | 466,7             | 438,2          | 8x45°  | 13   | 0,234                                 | 0,137          | 6,3            | 17,9           | 24,2                       |
|      | 13,5       | 61   | 83    | 105                   | 571,5            | 256            | 16   | 13 | 96  | 75             | 150            | 18    | 571,5             | 542,9          | 6x60°  | 17   | 0,422                                 | 0,136          | 9,1            | 17,9           | 27,0                       |
| 2600 | 13,5       | 61   | 93    | 105                   | 571,5            | 256            | 26   | 13 | 96  | 85             | 150            | 18    | 571,5             | 542,9          | 6x60°  | 17   | 0,422                                 | 0,137          | 9,1            | 18,0           | 27,1                       |
|      | 32,5       | 70   | 96    | 110                   | 465              | 255            | 20   | 8  | -   | 100            | 162            | 14    | 466,7             | 438,2          | 8x45°  | 13   | 0,278                                 | 0,195          | 6,3            | 20,3           | 26,6                       |
|      | 17,5       | 70   | 96    | 110                   | 465              | 255            | 20   | 8  | -   | 100            | 162            | 16    | 517,5             | 489,0          | 8x45°  | 13   | 0,445                                 | 0,195          | 9,3            | 20,3           | 29,6                       |
| 2800 | 17,5       | 70   | 96    | 110                   | 465              | 255            | 20   | 8  | -   | 100            | 162            | 18    | 571,5             | 542,9          | 12x30° | 17   | 0,588                                 | 0,195          | 11,2           | 20,3           | 31,5                       |
|      | 36,5       | 61   | 93    | 110                   | 417              | 204            | 33   | 11 | -   | 100            | 162            | 14    | 466,7             | 438,2          | 8x45°  | 13   | 0,209                                 | 0,200          | 5,2            | 19,3           | 24,5                       |
|      | 13,5       | 61   | 93    | 110                   | 417              | 204            | 33   | 11 | -   | 100            | 162            | 18    | 571,5             | 542,9          | 6x60°  | 17   | 0,396                                 | 0,203          | 8,0            | 19,3           | 27,3                       |
| 2800 | 13,2       | 61   | 93    | 110                   | 417              | 204            | 33   | 8  | -   | 100            | 162            | 475   | 475,0             | 450,0          | 12x30° | 11   | 0,219                                 | 0,203          | 5,4            | 19,3           | 24,7                       |

# CENTAMAX-S

## TYPE SA



Size 800–2400

Size 2800–18000

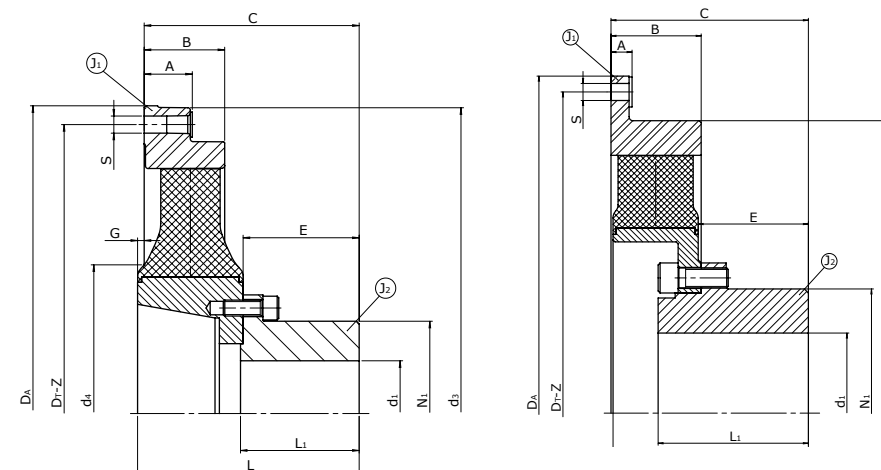
| DIMENSIONS |            |     |     | ↓ SIZES 3500-18000    |                         |                |    |    |     |                |                | → SIZES 120-2800  |                |                |        |                               |                          | Size 800-2400  |                |                        |                    | Size 2800-18000 |  |  |  |  |
|------------|------------|-----|-----|-----------------------|-------------------------|----------------|----|----|-----|----------------|----------------|-------------------|----------------|----------------|--------|-------------------------------|--------------------------|----------------|----------------|------------------------|--------------------|-----------------|--|--|--|--|
| Size       | Dimensions |     |     |                       |                         |                |    |    |     |                |                | Flange dimensions |                |                |        | Moments of inertia and masses |                          |                |                |                        |                    |                 |  |  |  |  |
|            | A          | B   | C   | d <sub>1</sub><br>max | d <sub>3</sub> *<br>max | d <sub>4</sub> | E  | G  | L   | L <sub>1</sub> | N <sub>1</sub> | SAE/Ø             | D <sub>A</sub> | D <sub>T</sub> | Z      | S                             | J <sub>1</sub><br>[kgm²] | J <sub>2</sub> | m <sub>1</sub> | m <sub>2</sub><br>[kg] | m <sub>total</sub> |                 |  |  |  |  |
| 3500       | 32,5       | 70  | 93  | 110                   | 429                     | 305            | 20 | 11 | -   | 100            | 162            | 14                | 466,7          | 438,2          | 8x45°  | 13                            | 0,312                    | 0,218          | 7,2            | 21,4                   | 28,6               |                 |  |  |  |  |
|            | 71,2       | 85  | 96  | 110                   | -                       | 290            | 11 | 4  | 100 | 100            | 162            | 475               | 475,0          | 450,0          | 12x30° | 11                            | 0,466                    | 0,218          | 10,3           | 21,4                   | 31,7               |                 |  |  |  |  |
|            | 17,5       | 70  | 95  | 110                   | 465                     | 297            | 20 | 9  | -   | 100            | 162            | 18                | 571,5          | 542,9          | 12x30° | 17                            | 0,615                    | 0,218          | 12,3           | 21,4                   | 33,7               |                 |  |  |  |  |
| 4000       | 32,5       | 70  | 109 | 140                   | 429                     | 260            | 42 | 16 | -   | 125            | 218            | 14                | 466,7          | 438,2          | 8x45°  | 13                            | 0,261                    | 0,428          | 5,7            | 32,7                   | 38,4               |                 |  |  |  |  |
|            | 71,2       | 85  | 111 | 140                   | -                       | 260            | 26 | 14 | -   | 125            | 218            | 475               | 475,0          | 450,0          | 12x30° | 11                            | 0,422                    | 0,428          | 8,8            | 32,7                   | 41,5               |                 |  |  |  |  |
|            | 17,5       | 70  | 109 | 140                   | 465                     | 260            | 42 | 16 | -   | 125            | 218            | 18                | 571,5          | 542,9          | 12x30° | 17                            | 0,572                    | 0,428          | 10,7           | 32,7                   | 43,4               |                 |  |  |  |  |
| 5000       | 32,5       | 70  | 93  | 110                   | 429                     | 283            | 10 | 16 | -   | 105            | 162            | 14                | 466,7          | 438,2          | 8x45°  | 13                            | 0,313                    | 0,234          | 7,3            | 23,0                   | 30,3               |                 |  |  |  |  |
|            | 71,2       | 85  | 101 | 110                   | -                       | 290            | 10 | 8  | -   | 105            | 162            | 475               | 475,0          | 450,0          | 12x30° | 11                            | 0,474                    | 0,233          | 10,5           | 23,0                   | 33,5               |                 |  |  |  |  |
|            | 17,5       | 70  | 93  | 110                   | 465                     | 283            | 10 | 12 | -   | 105            | 162            | 18                | 571,5          | 542,9          | 12x30° | 17                            | 0,624                    | 0,235          | 12,2           | 23,0                   | 35,2               |                 |  |  |  |  |
| 7000       | 51,5       | 80  | 123 | 140                   | 523                     | 324            | 40 | 2  | -   | 125            | 218            | 18                | 571,5          | 542,9          | 12x30° | 17                            | 0,761                    | 0,547          | 11,9           | 37,4                   | 49,3               |                 |  |  |  |  |
| 8000       | 95         | -   | 130 | 175                   | 600                     | 300            | 42 | 20 | -   | 150            | 248            | 18                | 571,5          | 542,9          | 12x30° | 17                            | 1,049                    | 1,032          | 14,1           | 52,3                   | 66,4               |                 |  |  |  |  |
|            | 21         | 90  | 130 | 175                   | 584                     | 300            | 42 | 20 | -   | 150            | 248            | 21                | 673,1          | 641,4          | 12x30° | 17                            | 1,437                    | 1,033          | 18,3           | 52,3                   | 70,6               |                 |  |  |  |  |
|            | 21         | 90  | 130 | 175                   | 584                     | 300            | 42 | 20 | -   | 150            | 248            | 21                | 673,1          | 641,4          | 12x30° | 17                            | 1,437                    | 1,033          | 18,3           | 52,3                   | 70,6               |                 |  |  |  |  |
| 9000       | 53         | 80  | 125 | 170                   | 517                     | 300            | 42 | 23 | -   | 150            | 248            | 18                | 571,5          | 542,9          | 12x30° | 17                            | 0,757                    | 0,967          | 11,5           | 52,1                   | 63,6               |                 |  |  |  |  |
| 10000      | 95         | -   | 130 | 175                   | 600                     | 300            | 42 | 20 | 130 | 110            | 248            | 18                | 571,5          | 542,9          | 12x30° | 17                            | 1,000                    | 1,335          | 13,3           | 55,7                   | 69,0               |                 |  |  |  |  |
|            | 21         | 90  | 130 | 175                   | 584                     | 300            | 42 | 20 | -   | 110            | 248            | 21                | 673,1          | 641,4          | 12x30° | 17                            | 1,389                    | 1,335          | 17,4           | 55,7                   | 73,1               |                 |  |  |  |  |
|            | 21         | 90  | 130 | 175                   | 584                     | 300            | 42 | 20 | -   | 110            | 248            | 24                | 733,4          | 692,2          | 12x30° | 19,5                          | 1,755                    | 1,401          | 20,2           | 61,9                   | 82,1               |                 |  |  |  |  |
| 12000      | 141        | -   | 200 | 170                   | 680                     | 300            | 65 | 18 | -   | 200            | 248            | 21                | 673,1          | 641,4          | 12x30° | 17                            | 2,960                    | 1,772          | 31,6           | 80,1                   | 111,7              |                 |  |  |  |  |
|            | 108        | 137 | 200 | 175                   | 657                     | 300            | 65 | 18 | -   | 200            | 248            | 24                | 733,4          | 692,2          | 12x30° | 19,5                          | 4,318                    | 1,772          | 43,0           | 79,6                   | 122,6              |                 |  |  |  |  |
| 18000      | 141        | -   | 200 | 175                   | 680                     | 300            | 65 | 18 | -   | 200            | 248            | 21                | 673,1          | 641,4          | 24x15° | 17                            | 3,093                    | 2,017          | 33,9           | 80,9                   | 114,8              |                 |  |  |  |  |
|            | 108,8      | 137 | 200 | 175                   | 657                     | 300            | 65 | 18 | -   | 200            | 248            | 24                | 733,4          | 692,2          | 12x30° | 19,5                          | 4,460                    | 2,017          | 45,4           | 80,8                   | 126,2              |                 |  |  |  |  |

Standard sizes in bold

\*Position of measure d3 depends on coupling size

# CENTAMAX-S

## TYPE SB



Size 800–2400

Size 2800–18000

## DIMENSIONS

## ↓ SIZES 240-3500

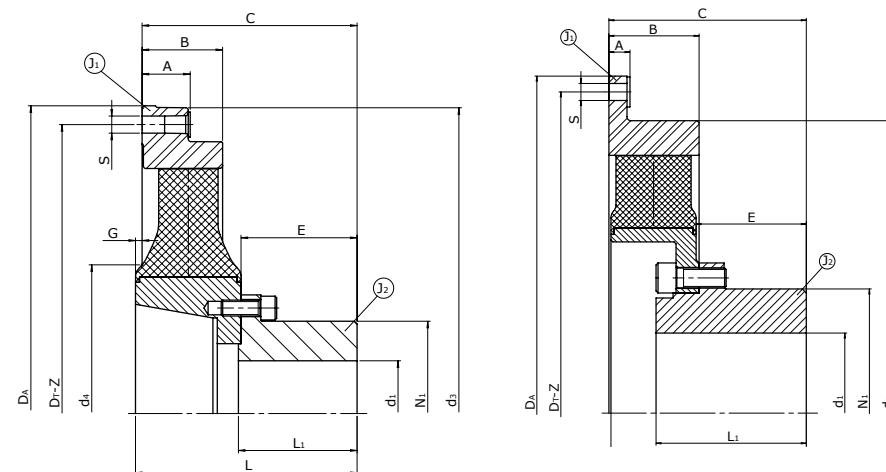
## → SIZES 4000-18000

| Size | Dimensions |      |       |                       |                  |                |    |     |       |                |                | SAE/Ø | Flange dimensions |                |        |      | Moments of inertia and masses         |                |                |                |                            |
|------|------------|------|-------|-----------------------|------------------|----------------|----|-----|-------|----------------|----------------|-------|-------------------|----------------|--------|------|---------------------------------------|----------------|----------------|----------------|----------------------------|
|      | A          | B    | C     | d <sub>1</sub><br>max | d <sub>3</sub> * | d <sub>4</sub> | E  | G   | L     | L <sub>1</sub> | N <sub>1</sub> |       | D <sub>A</sub>    | D <sub>T</sub> | Z      | S    | J <sub>1</sub><br>[kgm <sup>2</sup> ] | J <sub>2</sub> | m <sub>1</sub> | m <sub>2</sub> | m <sub>total</sub><br>[kg] |
| 240  | 27,2       | 46   | 113   | 45                    | 262              | -              | 58 | -   | 106   | 60             | 66             | 8     | 263,5             | 244,5          | 6x60°  | 11   | 0,018                                 | 0,004          | 1,6            | 2,5            | 4,1                        |
|      | 10         | 46   | 113   | 45                    | 225              | -              | 58 | -   | 106   | 60             | 66             | 10    | 314,3             | 295,3          | 8x45°  | 11   | 0,026                                 | 0,004          | 1,9            | 2,5            | 4,4                        |
|      | 10         | 46   | 113   | 45                    | 225              | -              | 58 | -   | 106   | 60             | 66             | 11,5  | 352,4             | 333,4          | 8x45°  | 11   | 0,039                                 | 0,004          | 2,4            | 2,5            | 4,9                        |
| 400  | 26,2       | 45   | 117   | 55                    | -                | 118,3          | 63 | 1   | 118   | 65             | 85             | 10    | 314,3             | 295,3          | 8x45°  | 10,5 | 0,038                                 | 0,011          | 2,3            | 4,4            | 6,7                        |
| 800  | 40,2       | 50   | 122   | 65                    | 316              | 164            | 64 | 8   | 130   | 66             | 100            | 10    | 314,3             | 295,3          | 8x45°  | 11   | 0,056                                 | 0,024          | 2,9            | 6,8            | 9,7                        |
|      | 27,2       | 39   | 117   | 65                    | 351              | 180            | 64 | 13  | 130   | 66             | 100            | 11,5  | 352,4             | 333,4          | 8x45°  | 11   | 0,058                                 | 0,024          | 2,8            | 6,8            | 9,6                        |
|      | 11,5       | 46   | 117   | 65                    | 317              | 183            | 64 | 13  | 130   | 66             | 100            | 14    | 466,7             | 438,2          | 8x45°  | 13   | 0,134                                 | 0,024          | 4,6            | 6,8            | 11,4                       |
| 1200 | 27,2       | 39   | 113   | 65                    | 351              | 178            | 64 | 6   | 130   | 66             | 100            | 11,5  | 352,4             | 333,4          | 8x45°  | 11   | 0,065                                 | 0,039          | 3,1            | 9,3            | 12,4                       |
|      | 11,5       | 46   | 120   | 65                    | 463,7            | 193            | 64 | 10  | 130   | 66             | 100            | 14    | 466,7             | 438,2          | 8x45°  | 13   | 0,137                                 | 0,039          | 4,7            | 9,3            | 14,0                       |
|      | 14,2       | 68   | 175   | 100                   | 418              | -              | 88 | -   | 169,5 | 90             | 140            | 11,5  | 352,4             | 333,4          | 8x45°  | 11   | 0,228                                 | 0,086          | 6,9            | 13,7           | 20,6                       |
| 1600 | 36,5       | 61   | 168   | 100                   | 463,7            | 187            | 88 | 1,5 | 169,5 | 90             | 140            | 14    | 466,7             | 438,2          | 8x45°  | 13   | 0,223                                 | 0,086          | 6,1            | 13,7           | 19,8                       |
| 1800 | 27,2       | 64   | 162   | 79                    | 320              | 225            | 88 | 12  | 174   | 90             | 120            | 11,5  | 352,4             | 333,4          | 8x45°  | 11   | 0,099                                 | 0,072          | 4,6            | 14,6           | 19,2                       |
|      | 12,5       | 78   | 162   | 79                    | 320              | 225            | 88 | 12  | 174   | 90             | 120            | 14    | 466,7             | 438,2          | 8x45°  | 11   | 0,150                                 | 0,072          | 6,2            | 14,6           | 20,8                       |
|      | 23         | 83,5 | 181,5 | 79                    | -                | -              | 88 | -   | 174   | 90             | 120            | 475   | 475,0             | 450,0          | 12x30° | 11   | 0,803                                 | 0,072          | 21,9           | 14,6           | 36,5                       |
| 2400 | 36,5       | 61   | 163   | 100                   | 463,7            | 226            | 88 | 5   | 168   | 90             | 140            | 14    | 466,7             | 438,2          | 8x45°  | 13   | 0,234                                 | 0,140          | 6,3            | 18,8           | 25,1                       |
|      | 13,2       | 61   | 163   | 100                   | -                | 227            | 88 | 5   | 168   | 90             | 140            | 475   | 475,0             | 450,0          | 12x30° | 11   | 0,245                                 | 0,140          | 6,5            | 18,8           | 25,3                       |
|      | 13,5       | 61   | 163   | 100                   | 571,5            | 226            | 88 | 5   | 168   | 90             | 140            | 18    | 571,5             | 542,9          | 6x60°  | 17   | 0,422                                 | 0,140          | 9,1            | 18,8           | 27,9                       |
| 2600 | 32,5       | 70   | 135   | 110                   | 465              | 255            | 59 | 4   | 139   | 100            | 162            | 14    | 466,7             | 438,2          | 8x45°  | 13   | 0,278                                 | 0,195          | 6,3            | 20,3           | 26,6                       |
|      | 17,5       | 70   | 135   | 110                   | 465              | 255            | 59 | 4   | 139   | 100            | 162            | 16    | 517,5             | 489,0          | 8x45°  | 13   | 0,445                                 | 0,195          | 9,3            | 20,3           | 29,6                       |
|      | 17,5       | 70   | 135   | 110                   | 465              | 255            | 59 | 4   | 139   | 100            | 162            | 18    | 571,5             | 542,9          | 6x60°  | 17   | 0,588                                 | 0,195          | 11,2           | 20,3           | 31,5                       |
| 2800 | 36,5       | 61   | 130   | 110                   | 417              | -              | 71 | -   | 126   | 100            | 162            | 14    | 466,7             | 438,2          | 8x45°  | 13   | 0,210                                 | 0,203          | 5,3            | 19,3           | 24,6                       |
|      | 13,5       | 61   | 130   | 110                   | 417              | -              | 71 | -   | 126   | 100            | 162            | 18    | 571,5             | 542,9          | 6x60°  | 17   | 0,396                                 | 0,203          | 8,0            | 19,3           | 27,3                       |
|      | 13,2       | 61   | 130   | 110                   | 417              | -              | 69 | -   | 126   | 100            | 162            | 475   | 475,0             | 450,0          | 12x30° | 11   | 0,219                                 | 0,203          | 5,4            | 19,3           | 24,7                       |
| 3500 | 32,5       | 70   | 135   | 110                   | 429              | 292            | 59 | 4   | 139   | 100            | 162            | 14    | 466,7             | 438,2          | 8x45°  | 13   | 0,312                                 | 0,203          | 7,4            | 21,4           | 28,8                       |
|      | 71,2       | 85   | 135   | 110                   | -                | 290            | 50 | 4   | 100   | 100            | 162            | 475   | 475,0             | 450,0          | 12x30° | 11   | 0,466                                 | 0,218          | 10,3           | 21,4           | 31,7                       |
|      | 17,5       | 70   | 135   | 110                   | 465              | 292            | 59 | 4   | 139   | 100            | 162            | 18    | 571,5             | 542,9          | 12x30° | 17   | 0,615                                 | 0,219          | 12,1           | 21,4           | 33,5                       |



# CENTAMAX-S

## TYPE SB



Size 800–2400

Size 2800–18000

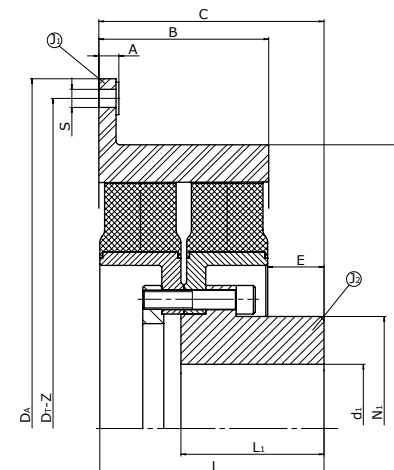
| DIMENSIONS |            |     |     | ↓ SIZES 4000-18000    |                      |                |     |    |     |                |                | → SIZES 240-3500  |                |                |        |      | Size 800–2400                 |                |                |                        |                    | Size 2800–18000 |  |  |  |  |
|------------|------------|-----|-----|-----------------------|----------------------|----------------|-----|----|-----|----------------|----------------|-------------------|----------------|----------------|--------|------|-------------------------------|----------------|----------------|------------------------|--------------------|-----------------|--|--|--|--|
| Size       | Dimensions |     |     |                       |                      |                |     |    |     |                |                | Flange dimensions |                |                |        |      | Moments of inertia and masses |                |                |                        |                    |                 |  |  |  |  |
|            | A          | B   | C   | d <sub>1</sub><br>max | d <sub>3</sub> *<br> | d <sub>4</sub> | E   | G  | L   | L <sub>1</sub> | N <sub>1</sub> | SAE/Ø             | D <sub>A</sub> | D <sub>T</sub> | Z      | S    | J <sub>1</sub><br>[kgm²]      | J <sub>2</sub> | m <sub>1</sub> | m <sub>2</sub><br>[kg] | m <sub>total</sub> |                 |  |  |  |  |
| 4000       | 32,5       | 70  | 161 | 140                   | 429                  | -              | 94  | -  | 159 | 125            | 218            | 14                | 466,7          | 438,2          | 8x45°  | 13   | 0,263                         | 0,426          | 5,8            | 33,1                   | 38,9               |                 |  |  |  |  |
|            | 71,2       | 85  | 111 | 140                   | -                    | 260            | 26  | 14 | 125 | 125            | 218            | 475               | 475,0          | 450,0          | 12x30° | 11   | 0,422                         | 0,426          | 8,8            | 33,1                   | 41,9               |                 |  |  |  |  |
|            | 17,5       | 70  | 161 | 140                   | 465                  | -              | 94  | -  | 159 | 125            | 218            | 18                | 571,5          | 542,9          | 12x30° | 17   | 0,578                         | 0,429          | 10,8           | 33,1                   | 43,9               |                 |  |  |  |  |
| 5000       | 32,5       | 70  | 147 | 110                   | 429                  | -              | 64  | -  | 159 | 105            | 162            | 14                | 466,7          | 438,2          | 8x45°  | 13   | 0,313                         | 0,234          | 7,3            | 23,0                   | 30,3               |                 |  |  |  |  |
|            | 71,2       | 85  | 155 | 110                   | -                    | 290            | 16  | 4  | 159 | 105            | 162            | 475               | 475,0          | 450,0          | 12x30° | 11   | 0,474                         | 0,233          | 10,5           | 23,0                   | 33,5               |                 |  |  |  |  |
|            | 17,5       | 70  | 147 | 110                   | 465                  | 283            | 64  | 12 | 159 | 105            | 162            | 18                | 571,5          | 542,9          | 12x30° | 17   | 0,620                         | 0,239          | 12,3           | 23,0                   | 35,3               |                 |  |  |  |  |
| 7000       | 53         | 80  | 159 | 140                   | 523                  | 324            | 76  | 2  | 161 | 125            | 218            | 18                | 571,5          | 542,9          | 12x30° | 17   | 0,768                         | 0,547          | 11,9           | 37,4                   | 49,3               |                 |  |  |  |  |
| 8000       | 95         | -   | 197 | 175                   | 600                  | -              | 110 | -  | 195 | 150            | 248            | 18                | 571,5          | 542,9          | 12x30° | 17   | 1,049                         | 1,033          | 14,1           | 52,5                   | 66,6               |                 |  |  |  |  |
|            | 21         | 90  | 197 | 175                   | 584                  | -              | 110 | -  | 195 | 150            | 248            | 21                | 673,1          | 641,4          | 12x30° | 17   | 1,437                         | 1,033          | 18,3           | 52,5                   | 70,8               |                 |  |  |  |  |
|            | 21         | 90  | 197 | 175                   | 584                  | -              | 110 | -  | 195 | 150            | 248            | 24                | 733,4          | 692,2          | 12x30° | 19,5 | 1,834                         | 1,033          | 21,5           | 52,5                   | 74,0               |                 |  |  |  |  |
| 9000       | 53         | 80  | 125 | 170                   | 517                  | 300            | 110 | -  | 195 | 150            | 248            | 18                | 571,5          | 542,9          | 12x30° | 17   | 0,757                         | 0,967          | 11,5           | 52,1                   | 63,6               |                 |  |  |  |  |
| 10000      | 95         | -   | 197 | 175                   | 600                  | -              | 110 | -  | 195 | 150            | 248            | 18                | 571,5          | 542,9          | 12x30° | 17   | 1,000                         | 1,369          | 13,3           | 61,8                   | 75,1               |                 |  |  |  |  |
|            | 21         | 90  | 197 | 175                   | 584                  | 197            | 110 | -  | 195 | 150            | 248            | 21                | 673,1          | 641,4          | 12x30° | 17   | 1,389                         | 1,369          | 17,4           | 61,8                   | 79,2               |                 |  |  |  |  |
|            | 21         | 90  | 197 | 175                   | 584                  | 197            | 110 | -  | 195 | 150            | 248            | 24                | 733,4          | 692,2          | 12x30° | 19,5 | 1,755                         | 1,369          | 20,2           | 61,8                   | 82,0               |                 |  |  |  |  |
| 12000      | 141        | -   | 310 | 175                   | 680                  | -              | 176 | -  | 306 | 200            | 248            | 21                | 673,1          | 641,4          | 12x30° | 17   | 2,960                         | 1,754          | 31,6           | 71,3                   | 102,9              |                 |  |  |  |  |
|            | 108        | 137 | 310 | 175                   | 731,6                | -              | 176 | -  | 306 | 200            | 248            | 24                | 733,4          | 692,2          | 12x30° | 19,5 | 4,318                         | 1,754          | 43,0           | 71,3                   | 114,3              |                 |  |  |  |  |
| 18000      | 141        | -   | 310 | 175                   | 680                  | 310            | 176 | -  | 306 | 200            | 248            | 21                | 673,1          | 641,4          | 24x15° | 17   | 3,093                         | 2,017          | 33,9           | 80,9                   | 114,8              |                 |  |  |  |  |
|            | 108        | 137 | 310 | 175                   | 680                  | 310            | 176 | -  | 306 | 200            | 248            | 24                | 733,4          | 692,2          | 12x30° | 19,5 | 4,460                         | 2,017          | 45,4           | 80,9                   | 126,3              |                 |  |  |  |  |

Standard sizes in bold

\*Position of measure d<sub>3</sub> depends on coupling size

# CENTAMAX-S

## TYPE SD



### DIMENSIONS

### ↓ SIZES 4000-18000

| Size  | Dimensions |       |     |                       |                  |                |     |   |     |                |                | Flange dimensions |                |                |        |    | Moments of inertia and masses         |                |                |                |                    |
|-------|------------|-------|-----|-----------------------|------------------|----------------|-----|---|-----|----------------|----------------|-------------------|----------------|----------------|--------|----|---------------------------------------|----------------|----------------|----------------|--------------------|
|       | A          | B     | C   | d <sub>1</sub><br>max | d <sub>3</sub> * | d <sub>4</sub> | E   | G | L   | L <sub>1</sub> | N <sub>1</sub> | SAE               | D <sub>A</sub> | D <sub>T</sub> | Z      | S  | J <sub>1</sub><br>[kgm <sup>2</sup> ] | J <sub>2</sub> | m <sub>1</sub> | m <sub>2</sub> | m <sub>total</sub> |
| 4000  | 126,5      | 145   | 220 | 150                   | 465              | -              | 80  | - | 214 | 150            | 210            | 14                | 466,7          | 438,2          | 8x45°  | 13 | 0,675                                 | 0,689          | 14,6           | 46,0           | 60,6               |
|       | 17,5       | 145   | 220 | 150                   | 465              | -              | 80  | - | 214 | 150            | 210            | 18                | 571,5          | 542,9          | 12x30° | 17 | 0,898                                 | 0,689          | 17,6           | 46,0           | 63,6               |
| 8000  | 181,0      | 181   | 318 | 170                   | -                | -              | 139 | - | 315 | 230            | 235            | 18                | 571,5          | 542,9          | 12x30° | 17 | 2,074                                 | 1,890          | 28,0           | 91,0           | 119,0              |
|       | 21,0       | 192,5 | 318 | 170                   | 595              | -              | 139 | - | 315 | 230            | 235            | 21                | 673,1          | 641,4          | 12x30° | 17 | 2,646                                 | 1,890          | 34,6           | 91,0           | 125,6              |
|       | 21,0       | 192,5 | 318 | 170                   | 595              | -              | 139 | - | 315 | 230            | 235            | 24                | 733,4          | 692,2          | 12x30° | 19 | 3,044                                 | 1,890          | 37,8           | 91,0           | 128,8              |
| 10000 | 181,0      | 181   | 320 | 170                   | -                | -              | 139 | - | 315 | 230            | 235            | 18                | 571,5          | 542,9          | 12x30° | 17 | 1,978                                 | 2,630          | 26,2           | 110,4          | 136,6              |
|       | 21,0       | 192,5 | 320 | 170                   | -                | -              | 139 | - | 315 | 230            | 235            | 21                | 673,1          | 641,4          | 12x30° | 17 | 2,550                                 | 2,630          | 32,9           | 110,4          | 143,3              |
|       | 21,0       | 192,5 | 320 | 170                   | 595              | -              | 139 | - | 315 | 230            | 235            | 24                | 733,4          | 692,2          | 12x30° | 19 | 2,948                                 | 2,630          | 36,1           | 110,4          | 146,5              |
| 12000 | 274,0      | 274   | 390 | 165                   | -                | -              | 115 | - | 381 | 250            | 232            | 21                | 673,1          | 641,4          | 12x30° | 17 | 5,824                                 | 3,153          | 62,2           | 129,1          | 191,3              |
|       | 108,0      | 291   | 390 | 165                   | 680              | -              | 115 | - | 381 | 250            | 232            | 24                | 733,4          | 692,2          | 12x30° | 19 | 7,692                                 | 3,153          | 78,6           | 129,1          | 207,7              |
| 18000 | 274,0      | 274   | 390 | 165                   | -                | -              | 115 | - | 381 | 250            | 232            | 21                | 673,1          | 641,4          | 24x15° | 17 | 6,335                                 | 3,674          | 69,1           | 131,2          | 200,3              |
|       | 108,0      | 291   | 390 | 165                   | 595              | -              | 115 | - | 381 | 250            | 232            | 24                | 733,4          | 692,2          | 12x30° | 19 | 7,710                                 | 3,637          | 80,8           | 131,2          | 212,0              |

\*Position of measure d<sub>3</sub> depends on coupling size

# CENTAMAX-G

## AT A GLANCE



Robust coupling with high torsional flexibility. For quick and easy mounting in drives subject to torsional vibration particularly on gensets.

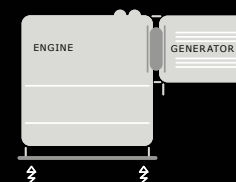
Transmission of torque via toothed outer ring onto a rubber element. Additionally equipped with a taper locking bush for quick and easy installation. Highly dependable and fail-safe design. Characterised by high torsional flexibility with linear characteristic. dampens torsional vibrations and shocks and compensates axial, radial and angular misalignments. Effectively ventilated and with high allowable energy loss.

Blind assembly for minimum mounting effort. With flywheel connections acc. to SAE. Also available for engine and generator connections acc. to DIN 6281.

### Features

- High torsional flexibility
- High allowable power loss
- High flexibility in all directions
- Backlash-free torque transmission

### Areas of Application



|                   |                                                     |
|-------------------|-----------------------------------------------------|
| torque range      | 1,2 bis 7 kNm                                       |
| elastic material  | NR/SI/CENTALAN HT                                   |
| temperature range | NR -45° to +80°C                                    |
|                   | Si -45° to +120°C                                   |
|                   | CENTALAN HT<br>-25° to +100°C,<br>short term +120°C |

## CENTAMAX-G

# TECHNICAL DATA

Questions on product selection?  
We will gladly assist → [www.centa.info/contact](http://www.centa.info/contact)

## CENTAMAX-G

NR



## TECHNICAL DATA

## ↓ SIZES 1400-4600

| 1           | 2                           | 3                                  | 4                                                  |              | 5                                               | 6                                                     |              | 7                                                     | 8                          | 9                                          |                          |                              |
|-------------|-----------------------------|------------------------------------|----------------------------------------------------|--------------|-------------------------------------------------|-------------------------------------------------------|--------------|-------------------------------------------------------|----------------------------|--------------------------------------------|--------------------------|------------------------------|
| Size        | Rubber quality<br>[Shore A] | Nominal torque<br>$T_{KN}$<br>[Nm] | Maximum torque<br>$T_{Kmax1}$   $T_{Kmax}$<br>[Nm] |              | Continuous vibratory torque<br>$T_{KW}$<br>[Nm] | Permissible power loss<br>$P_{KV}$   $P_{KVZ}$<br>[W] |              | Dynamic torsional stiffness<br>$C_{Tdyn}$<br>[Nm/rad] | Relative damping<br>$\psi$ | Speed<br>$n_{max}$<br>[min <sup>-1</sup> ] | Flange size<br>SAE       | Hub types                    |
| 1400        | 50<br>60                    | 1200<br>1400                       | 1800<br>2100                                       | 2400<br>3500 | 480<br>560                                      | 270<br>280                                            | 680<br>700   | 5600<br>8500                                          | 1,05<br>1,10               | <b>3200</b><br><b>3000</b>                 | <b>11,5</b><br><b>14</b> | Stiebel                      |
| <b>1800</b> | <b>50</b>                   | <b>1800</b>                        | <b>2700</b>                                        | <b>3600</b>  | <b>720</b>                                      | <b>265</b>                                            | <b>660</b>   | <b>7600</b>                                           | <b>1,05</b>                | <b>3200</b><br><b>3000</b>                 | <b>11,5</b><br><b>14</b> | <b>Taper 3535</b><br>Stiebel |
|             | <b>60</b>                   | <b>2000</b>                        | <b>3000</b>                                        | <b>5000</b>  | <b>800</b>                                      | <b>275</b>                                            | <b>685</b>   | <b>11500</b>                                          | <b>1,10</b>                |                                            |                          |                              |
|             | <b>70</b>                   | <b>2500</b>                        | <b>3750</b>                                        | <b>6300</b>  | <b>1000</b>                                     | <b>285</b>                                            | <b>705</b>   | <b>17500</b>                                          | <b>1,15</b>                |                                            |                          |                              |
|             | <b>72</b>                   | <b>2600</b>                        | <b>3900</b>                                        | <b>6500</b>  | <b>1040</b>                                     | <b>300</b>                                            | <b>745</b>   | <b>23000</b>                                          | <b>1,25</b>                |                                            |                          |                              |
|             | 75                          | 2800                               | 4200                                               | 7000         | 1120                                            | 330                                                   | 820          | 37000                                                 | 1,40                       |                                            |                          |                              |
| 3200        | 50<br>60                    | 3150<br>3500                       | 4725<br>5250                                       | 6300<br>8800 | 1260<br>1400                                    | 350<br>360                                            | 1160<br>1190 | 17000<br>25000                                        | 1,05<br>1,10               | 3000<br>2500                               | 14<br>18                 | Stiebel                      |
| <b>4600</b> | <b>50</b>                   | <b>4600</b>                        | <b>6900</b>                                        | <b>9200</b>  | <b>1840</b>                                     | <b>340</b>                                            | <b>1100</b>  | <b>26500</b>                                          | <b>1,05</b>                | <b>3000</b><br><b>2500</b>                 | <b>14</b><br><b>18</b>   | <b>Taper 4545</b>            |
|             | <b>60</b>                   | <b>5200</b>                        | <b>7800</b>                                        | <b>13000</b> | <b>2080</b>                                     | <b>350</b>                                            | <b>1130</b>  | <b>39000</b>                                          | <b>1,10</b>                |                                            |                          |                              |
|             | <b>70</b>                   | <b>6300</b>                        | <b>9450</b>                                        | <b>16800</b> | <b>2520</b>                                     | <b>370</b>                                            | <b>1200</b>  | <b>60000</b>                                          | <b>1,15</b>                |                                            |                          |                              |
|             | <b>72</b>                   | <b>6600</b>                        | <b>9900</b>                                        | <b>17000</b> | <b>2640</b>                                     | <b>390</b>                                            | <b>1260</b>  | <b>80000</b>                                          | <b>1,25</b>                |                                            |                          |                              |
|             | 75                          | 7000                               | 10500                                              | 17500        | 2800                                            | 410                                                   | 1320         | 140000                                                | 1,40                       |                                            |                          |                              |

Standard sizes in bold

## CENTAMAX-G

## SILIKON



## TECHNICAL DATA

## ↓ SIZES 1400-3200

| 1    | 2              | 3                | 4              |            | 5                           | 6                      |                  | 7                           |              |              |              |               | 8                | 9                                 |             |           |
|------|----------------|------------------|----------------|------------|-----------------------------|------------------------|------------------|-----------------------------|--------------|--------------|--------------|---------------|------------------|-----------------------------------|-------------|-----------|
| Size | Rubber quality | Nominal torque   | Maximum torque |            | Continuous vibratory torque | Permissible power loss |                  | Dynamic torsional stiffness |              |              |              |               | Relative damping | Speed                             | Flange size | Hub types |
|      | [Shore A]      | $T_{KN}$<br>[Nm] | $T_{Kmax1}$    | $T_{Kmax}$ | $T_{KW}$<br>[Nm]            | $P_{KV}$<br>[W]        | $P_{KVZ}$<br>[W] | $C_{Tdyn}$ [Nm/rad]         |              |              |              |               | $\psi$           | $n_{max}$<br>[min <sup>-1</sup> ] | SAE/ø       |           |
|      |                |                  |                |            |                             |                        |                  | 10% $T_{KN}$                | 25% $T_{KN}$ | 50% $T_{KN}$ | 75% $T_{KN}$ | 100% $T_{KN}$ |                  |                                   |             |           |
| 1400 | 50             | 1200             | 1800           | 2400       | 480                         | 405                    | 1020             | 4700                        | 4950         | 5500         | 6800         | 9350          | 1,05             | 3200<br>3000                      | 11,5<br>14  | Stiebel   |
| 1800 | 50             | 1800             | 2700           | 3600       | 720                         | 400                    | 990              | 6300                        | 6600         | 7300         | 9100         | 12600         | 1,05             | 3200                              | 11,5        | Stiebel   |
|      | 60             | 2000             | 3000           | 5000       | 800                         | 415                    | 1030             | 8900                        | 9400         | 11000        | 14000        | 19500         | 1,10             | 3000                              | 14          |           |
| 3200 | 50             | 3150             | 4725           | 6300       | 1260                        | 525                    | 1740             | 12400                       | 13000        | 14500        | 17800        | 24500         | 1,05             | 3000<br>2500                      | 14<br>18    | Stiebel   |

## CENTAMAX-G

## CENTALAN HT



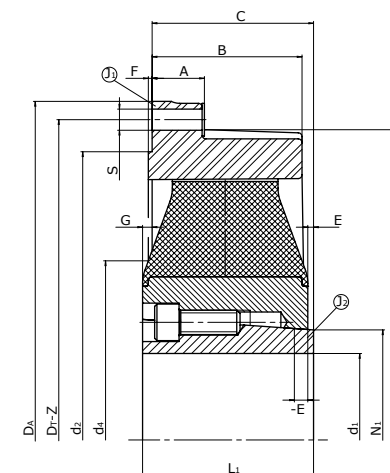
## TECHNICAL DATA

## ↓ SIZES 1400-4600

| 1    | 2              | 3                | 4              |              | 5                           | 6                      |                  | 7                           | 8                | 9                                 |                          |                              |
|------|----------------|------------------|----------------|--------------|-----------------------------|------------------------|------------------|-----------------------------|------------------|-----------------------------------|--------------------------|------------------------------|
| Size | Rubber quality | Nominal torque   | Maximum torque |              | Continuous vibratory torque | Permissible power loss |                  | Dynamic torsional stiffness | Relative damping | Speed                             | Flange size              | Hub types                    |
|      | [Shore A]      | $T_{KN}$<br>[Nm] | $T_{Kmax1}$    | $T_{Kmax}$   | $T_{KW}$<br>[Nm]            | $P_{KV}$<br>[W]        | $P_{KVZ}$<br>[W] | $C_{Tdyn}$<br>[Nm/rad]      | $\psi$           | $n_{max}$<br>[min <sup>-1</sup> ] | SAE                      |                              |
| 1400 | 50             | 1200             | 1800           | 2400         | 480                         | 340                    | 850              | 5600                        | 1,00             | 3200                              | 11,5                     | Stiebel                      |
|      | 60             | 1400             | 2100           | 3500         | 560                         | 350                    | 875              | 8500                        | 1,10             | 3000                              | 14                       |                              |
| 1800 | <b>50</b>      | <b>1800</b>      | <b>2700</b>    | <b>3600</b>  | <b>720</b>                  | <b>335</b>             | <b>825</b>       | <b>7600</b>                 | <b>1,00</b>      | <b>3200</b><br><b>3000</b>        | <b>11,5</b><br><b>14</b> | <b>Taper 3535</b><br>Stiebel |
|      | <b>60</b>      | <b>2000</b>      | <b>3000</b>    | <b>5000</b>  | <b>800</b>                  | <b>345</b>             | <b>855</b>       | <b>11500</b>                | <b>1,10</b>      |                                   |                          |                              |
|      | <b>70</b>      | <b>2500</b>      | <b>3750</b>    | <b>6300</b>  | <b>1000</b>                 | <b>365</b>             | <b>900</b>       | <b>17500</b>                | <b>1,10</b>      |                                   |                          |                              |
|      | <b>72</b>      | <b>2600</b>      | <b>3900</b>    | <b>6500</b>  | <b>1040</b>                 | <b>390</b>             | <b>965</b>       | <b>23000</b>                | <b>1,15</b>      |                                   |                          |                              |
|      | 75             | 2800             | 4200           | 7000         | 1120                        | 415                    | 1025             | 37000                       | 1,20             |                                   |                          |                              |
| 3200 | 50             | 3150             | 4725           | 6300         | 1260                        | 440                    | 1450             | 17000                       | 1,00             | 3000                              | 14                       | Stiebel                      |
|      | 60             | 3500             | 5250           | 8800         | 1400                        | 450                    | 1490             | 25000                       | 1,10             | 2500                              | 18                       |                              |
| 4600 | <b>50</b>      | <b>4600</b>      | <b>6900</b>    | <b>9200</b>  | <b>1840</b>                 | <b>425</b>             | <b>1375</b>      | <b>26500</b>                | <b>1,00</b>      | <b>3000</b><br><b>2500</b>        | <b>14</b><br><b>18</b>   | <b>Taper 4545</b>            |
|      | <b>60</b>      | <b>5200</b>      | <b>7800</b>    | <b>13000</b> | <b>2080</b>                 | <b>440</b>             | <b>1415</b>      | <b>39000</b>                | <b>1,10</b>      |                                   |                          |                              |
|      | <b>70</b>      | <b>6300</b>      | <b>9450</b>    | <b>16800</b> | <b>2520</b>                 | <b>465</b>             | <b>1500</b>      | <b>60000</b>                | <b>1,10</b>      |                                   |                          |                              |
|      | <b>72</b>      | <b>6600</b>      | <b>9900</b>    | <b>17000</b> | <b>2640</b>                 | <b>490</b>             | <b>1575</b>      | <b>80000</b>                | <b>1,15</b>      |                                   |                          |                              |
|      | 75             | 7000             | 10500          | 17500        | 2800                        | 515                    | 1650             | 140000                      | 1,20             |                                   |                          |                              |

Standard sizes in bold

## CENTAMAX-G



## DIMENSIONS

## ↓ SIZES 1400-4600

| Size |      |    |     | Dimensions            |                |                |                |     |    |    |                |                | Flange dimensions |                |                |        |    | Moments of inertia and masses |                |                |                |                    |
|------|------|----|-----|-----------------------|----------------|----------------|----------------|-----|----|----|----------------|----------------|-------------------|----------------|----------------|--------|----|-------------------------------|----------------|----------------|----------------|--------------------|
|      | A    | B  | C   | d <sub>1</sub><br>max | d <sub>2</sub> | d <sub>3</sub> | d <sub>4</sub> | E   | F  | G  | L <sub>1</sub> | N <sub>1</sub> | SAE               | D <sub>A</sub> | D <sub>T</sub> | Z      | S  | J <sub>1</sub>                | J <sub>2</sub> | m <sub>1</sub> | m <sub>2</sub> | m <sub>total</sub> |
|      |      |    |     |                       |                |                |                |     |    |    |                |                |                   |                |                |        |    |                               | [kgm²]         | [kg]           |                |                    |
| 1400 | 27,2 | 78 | 81  | 65                    | 300            | 318            | 197            | -10 | 2  | 5  | 76             | -              | 11,5              | 352,4          | 333,4          | 8x45°  | 11 | 0,114                         | 0,036          | 5,4            | 9,1            | 14,5               |
|      | 12,5 | 78 | 81  | 65                    | 390            | 318            | 187            | -10 | 2  | 5  | 76             | -              | 14                | 466,7          | 138,2          | 8x45°  | 13 | 0,157                         | 0,034          | 6,7            | 8,9            | 15,6               |
| 1800 | 27,2 | 78 | 84  | 90                    | 300            | 318            | 187            | 3   | 2  | 5  | 89             | 114,6          | 11,5              | 352,4          | 333,4          | 8x45°  | 11 | 0,112                         | 0,061          | 5,2            | 11,3           | 16,5               |
|      | 12,5 | 78 | 84  | 90                    | 390            | 318            | 187            | 3   | 2  | 5  | 89             | 114,6          | 14                | 466,7          | 438,2          | 8x45°  | 13 | 0,150                         | 0,061          | 6,2            | 11,3           | 17,5               |
| 3200 | 15,5 | 85 | 93  | 100                   | -              | 410            | 316            | 0   | -  | 9  | 102            | 131,8          | 14                | 466,7          | 138,2          | 8x45°  | 13 | 0,157                         | 0,034          | 6,7            | 8,9            | 15,6               |
|      | 5,5  | 71 | 79  | 100                   | 466,7          | 410            | 316            | 0   | 27 | 23 | 102            | 131,8          | 18                | 575,5          | 542,9          | 12x30° | 17 | 0,331                         | 0,332          | 12,0           | 31,9           | 43,9               |
| 4600 | 15,5 | 85 | 105 | 110                   | -              | 410            | 316            | 12  | -  | 9  | 114            | 146,0          | 14                | 466,7          | 438,2          | 12x30° | 13 | 0,310                         | 0,332          | 8,4            | 31,9           | 40,3               |
|      | 5,5  | 71 | 91  | 110                   | 466,7          | 410            | 316            | 12  | 27 | 23 | 114            | 146,0          | 18                | 571,5          | 542,9          | 12x30° | 17 | 0,331                         | 0,332          | 12,0           | 31,9           | 43,9               |

Standard sizes in bold



# CENTAMAX-HTC

## AT A GLANCE

Robust coupling with high torsional flexibility. For resonance-free operation of drives susceptible to torsional vibration.

Torque transmission via a toothed outer ring onto a rubber element. Highly reliable and rupture-proof design for the transmission of high torques in a compact design.

Characterised by high torsional flexibility with linear characteristic. Dampens torsional vibrations and shocks and compensates axial, radial and angular misalignments. Effectively ventilated and with high allowable energy loss.

Blind assembly for minimum axial mounting effort. With flywheel connections acc. to SAE. Also available for non-standard flywheels.



### Features

- High flexibility in design
- High flexibility in all directions
- Effective ventilation
- High allowable power loss

### Areas of Application



|                   |                                                                      |
|-------------------|----------------------------------------------------------------------|
| torque range      | 5.4 to 45 kNm                                                        |
| elastic material  | NR/CENTALAN HT                                                       |
| temperature range | -45° to +80°C<br>CENTALAN HT<br>-25° to +100°C,<br>short term +120°C |

# CENTAMAX-HTC

# TECHNICAL DATA

Questions on product selection?  
We will gladly assist → [www.centa.info/contact](http://www.centa.info/contact)

## CENTAMAX-HTC

NR



## TECHNICAL DATA

## ↓ SIZES 5600-30000

| 1            | 2              | 3                | 4                                | 5                           | 6                           | 7                           | 8                | 9                                 |             |
|--------------|----------------|------------------|----------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------|-----------------------------------|-------------|
| Size         | Rubber quality | Nominal torque   | Maximum torque                   | Continuous vibratory torque | Permissible power loss      | Dynamic torsional stiffness | Relative damping | Speed                             | Flange size |
|              | [Shore A]      | $T_{KN}$<br>[Nm] | $T_{Kmax1}$   $T_{Kmax}$<br>[Nm] | $T_{KW}$<br>[Nm]            | $P_{KV}$   $P_{KVZ}$<br>[W] | $C_{Tdyn}$<br>[Nm/rad]      | $\psi$           | $n_{max}$<br>[min <sup>-1</sup> ] | SAE/ø       |
| <b>5600</b>  | <b>50</b>      | <b>5400</b>      | <b>8100</b>                      | <b>10800</b>                | <b>2160</b>                 | <b>720</b>                  | <b>2330</b>      | <b>36000</b>                      | <b>1,05</b> |
|              | <b>60</b>      | <b>5800</b>      | <b>8700</b>                      | <b>11600</b>                | <b>2320</b>                 | <b>745</b>                  | <b>2410</b>      | <b>52000</b>                      | <b>1,10</b> |
|              | <b>70</b>      | <b>6800</b>      | <b>10200</b>                     | <b>13600</b>                | <b>2720</b>                 | <b>770</b>                  | <b>2490</b>      | <b>80000</b>                      | <b>1,15</b> |
|              | <b>72</b>      | <b>7300</b>      | <b>10900</b>                     | <b>14600</b>                | <b>2920</b>                 | <b>820</b>                  | <b>2650</b>      | <b>107000</b>                     | <b>1,25</b> |
|              | <b>75</b>      | <b>7800</b>      | <b>11700</b>                     | <b>15600</b>                | <b>3120</b>                 | <b>890</b>                  | <b>2880</b>      | <b>187000</b>                     | <b>1,40</b> |
| 10000        | 70             | 12500            | 18750                            | 25000                       | 5000                        | 1100                        | 3495             | 126000                            | 1,15        |
|              | 72             | 13800            | 20700                            | 25000                       | 5520                        | 1170                        | 3720             | 183000                            | 1,25        |
|              | 75             | 15000            | 22500                            | 25000                       | 6000                        | 1275                        | 4050             | 310000                            | 1,40        |
| <b>18000</b> | 50             | 16000            | 24000                            | 32000                       | 6400                        | 1170                        | 3490             | 108000                            | 1,05        |
|              | 60             | 18000            | 27000                            | 36000                       | 7200                        | 1210                        | 4540             | 160000                            | 1,10        |
|              | 70             | 20000            | 30000                            | 40000                       | 8000                        | 1250                        | 4690             | 265000                            | 1,15        |
|              | <b>72</b>      | <b>22000</b>     | <b>33000</b>                     | <b>40000</b>                | <b>8800</b>                 | <b>1330</b>                 | <b>4990</b>      | <b>370000</b>                     | <b>1,25</b> |
|              | <b>75</b>      | <b>24000</b>     | <b>36000</b>                     | <b>40000</b>                | <b>9600</b>                 | <b>1450</b>                 | <b>5440</b>      | <b>555000</b>                     | <b>1,40</b> |
| <b>30000</b> | <b>80</b>      | <b>24000</b>     | <b>36000</b>                     | <b>40000</b>                | <b>9600</b>                 | <b>1450</b>                 | <b>5440</b>      | <b>750000</b>                     | <b>1,40</b> |
|              | 50             | 31000            | 46500                            | 62000                       | 12400                       | 1800                        | 6750             | 253000                            | 1,05        |
|              | 60             | 35000            | 52500                            | 70000                       | 14000                       | 1860                        | 6975             | 374000                            | 1,10        |
|              | <b>70</b>      | <b>40000</b>     | <b>60000</b>                     | <b>80000</b>                | <b>16000</b>                | <b>1925</b>                 | <b>7220</b>      | <b>620000</b>                     | <b>1,15</b> |
|              | <b>72</b>      | <b>42000</b>     | <b>63000</b>                     | <b>84000</b>                | <b>16800</b>                | <b>2050</b>                 | <b>7690</b>      | <b>870000</b>                     | <b>1,25</b> |
| <b>30000</b> | <b>75</b>      | <b>45000</b>     | <b>67500</b>                     | <b>90000</b>                | <b>18000</b>                | <b>2230</b>                 | <b>8370</b>      | <b>1300000</b>                    | <b>1,40</b> |

Standard sizes in bold

## CENTAMAX-HTC

## CENTALAN HT



## TECHNICAL DATA

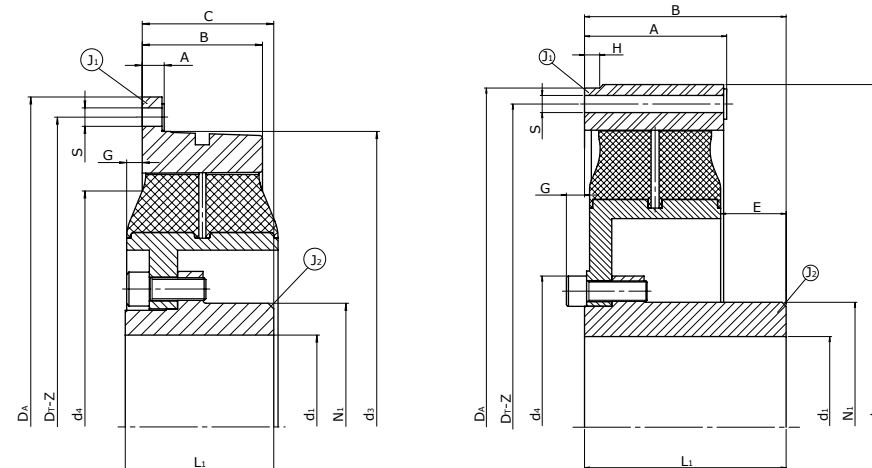
## ↓ SIZES 5600-30000

| 1     | 2              | 3               | 4                  |                   | 5                           | 6                      |                  | 7                           | 8                | 9                    |             |
|-------|----------------|-----------------|--------------------|-------------------|-----------------------------|------------------------|------------------|-----------------------------|------------------|----------------------|-------------|
| Size  | Rubber quality | Nominal torque  | Maximum torque     |                   | Continuous vibratory torque | Permissible power loss |                  | Dynamic torsional stiffness | Relative damping | Speed                | Flange size |
|       | [Shore A]      | T <sub>KN</sub> | T <sub>Kmax1</sub> | T <sub>Kmax</sub> | T <sub>KW</sub>             | P <sub>KV</sub>        | P <sub>KVZ</sub> | C <sub>Tdyn</sub>           | Ψ                | n <sub>max</sub>     |             |
|       |                | [Nm]            | [Nm]               |                   | [Nm]                        | [W]                    | [W]              | [Nm/rad]                    |                  | [min <sup>-1</sup> ] | SAE/ø       |
| 5600  | 50             | 5400            | 8100               | 10800             | 2160                        | 900                    | 2910             | 36000                       | 1,00             | 3000<br>2500         | 14<br>18    |
|       | 60             | 5800            | 8700               | 11600             | 2320                        | 930                    | 3010             | 52000                       | 1,10             |                      |             |
|       | 70             | 6800            | 10200              | 13600             | 2720                        | 960                    | 3110             | 80000                       | 1,10             |                      |             |
|       | 72             | 7300            | 10900              | 14600             | 2920                        | 1025                   | 3310             | 107000                      | 1,15             |                      |             |
|       | 75             | 7800            | 11700              | 15600             | 3120                        | 1110                   | 3600             | 187000                      | 1,20             |                      |             |
| 10000 | 70             | 12500           | 18750              | 25000             | 5000                        | 1375                   | 4370             | 126000                      | 1,10             | 2500<br>3000         | 18<br>21    |
|       | 72             | 13800           | 20700              | 25000             | 5520                        | 1460                   | 4650             | 183000                      | 1,15             |                      |             |
|       | 75             | 15000           | 22500              | 25000             | 6000                        | 1595                   | 5060             | 310000                      | 1,20             |                      |             |
| 18000 | 50             | 16000           | 24000              | 32000             | 6400                        | 1460                   | 4360             | 108000                      | 1,00             | 2300<br>2000         | 21<br>24    |
|       | 60             | 18000           | 27000              | 36000             | 7200                        | 1510                   | 5675             | 160000                      | 1,10             |                      |             |
|       | 70             | 20000           | 30000              | 40000             | 8000                        | 1560                   | 5860             | 265000                      | 1,10             |                      |             |
|       | 72             | 22000           | 33000              | 40000             | 8800                        | 1660                   | 6240             | 370000                      | 1,15             |                      |             |
|       | 75             | 24000           | 36000              | 40000             | 9600                        | 1810                   | 6800             | 555000                      | 1,20             |                      |             |
| 30000 | 50             | 31000           | 46500              | 62000             | 12400                       | 2250                   | 8440             | 253000                      | 1,00             | 2000                 | 24          |
|       | 60             | 35000           | 52500              | 70000             | 14000                       | 2325                   | 8720             | 374000                      | 1,10             |                      |             |
|       | 70             | 40000           | 60000              | 80000             | 16000                       | 2410                   | 9025             | 620000                      | 1,10             |                      |             |
|       | 72             | 42000           | 63000              | 84000             | 16800                       | 2560                   | 9610             | 870000                      | 1,15             |                      |             |
|       | 75             | 45000           | 67500              | 90000             | 18000                       | 2790                   | 10460            | 1300000                     | 1,20             |                      |             |

Standard sizes in bold

# CENTAMAX-HTC

## TYPE A



### DIMENSIONS

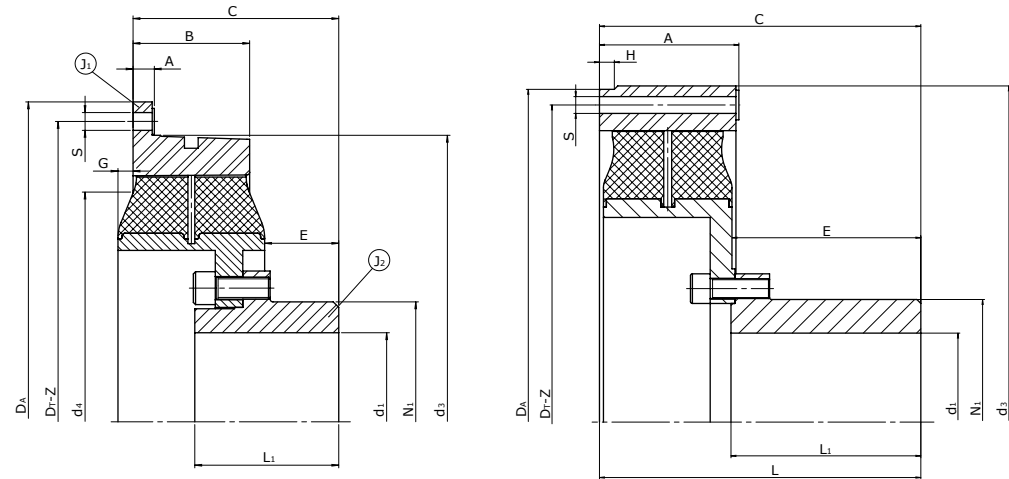
### ↓ SIZES 5600-30000

| Size         | Dimensions  |            |            |                       |                |                |           |           |           |                |                | Flange dimensions |                |                |               |           | Moments of inertia and masses         |                |                |                |                    |
|--------------|-------------|------------|------------|-----------------------|----------------|----------------|-----------|-----------|-----------|----------------|----------------|-------------------|----------------|----------------|---------------|-----------|---------------------------------------|----------------|----------------|----------------|--------------------|
|              | A           | B          | C          | d <sub>1</sub><br>max | d <sub>3</sub> | d <sub>4</sub> | E         | G         | H         | L <sub>1</sub> | N <sub>1</sub> | SAE               | D <sub>A</sub> | D <sub>T</sub> | Z             | S         | J <sub>1</sub><br>[kgm <sup>2</sup> ] | J <sub>2</sub> | m <sub>1</sub> | m <sub>2</sub> | m <sub>total</sub> |
| <b>5600</b>  | <b>15,5</b> | <b>85</b>  | <b>95</b>  | <b>125</b>            | <b>418</b>     | –              | <b>-1</b> | <b>11</b> | –         | <b>105</b>     | <b>175</b>     | <b>14</b>         | <b>466,7</b>   | <b>438,2</b>   | <b>8x45°</b>  | <b>13</b> | <b>0,301</b>                          | <b>0,287</b>   | <b>8,1</b>     | <b>24,6</b>    | <b>32,7</b>        |
|              | <b>5,5</b>  | <b>71</b>  | <b>81</b>  | <b>125</b>            | <b>418</b>     | -              | <b>-1</b> | <b>27</b> | -         | <b>105</b>     | <b>175</b>     | <b>18</b>         | <b>571,5</b>   | <b>542,9</b>   | <b>12x30°</b> | <b>17</b> | <b>0,500</b>                          | <b>0,287</b>   | <b>11,4</b>    | <b>24,6</b>    | <b>36,0</b>        |
| 10000        | 95          | –          | 130        | 175                   | 600            | 300            | 42        | 20        | 20        | 150            | 248            | 18                | 571,5          | 542,9          | 12x30°        | 17        | 0,923                                 | 1,152          | 12,3           | 60,3           | 72,6               |
|              | 21          | 90         | 130        | 175                   | 584            | 300            | 42        | 20        | –         | 150            | 248            | 21                | 673,1          | 641,4          | 12x30°        | 17        | 1,321                                 | 1,100          | 16,5           | 52,9           | 69,4               |
| <b>18000</b> | <b>141</b>  | –          | <b>200</b> | <b>175</b>            | <b>680</b>     | 300            | <b>65</b> | <b>18</b> | <b>15</b> | <b>200</b>     | <b>248</b>     | <b>21</b>         | <b>673,1</b>   | <b>641,4</b>   | <b>12x30°</b> | <b>17</b> | <b>2,925</b>                          | <b>2,045</b>   | <b>32,0</b>    | <b>81,1</b>    | <b>113,1</b>       |
|              | <b>108</b>  | <b>137</b> | <b>200</b> | <b>175</b>            | <b>686</b>     | 300            | <b>65</b> | <b>18</b> | –         | <b>200</b>     | <b>248</b>     | <b>24</b>         | <b>733,4</b>   | <b>692,2</b>   | <b>12x30°</b> | <b>20</b> | <b>4,305</b>                          | <b>2,045</b>   | <b>43,7</b>    | <b>81,1</b>    | <b>124,8</b>       |
| <b>30000</b> | <b>191</b>  | –          | <b>272</b> | <b>260</b>            | <b>740</b>     | <b>396</b>     | <b>90</b> | <b>6</b>  | <b>12</b> | <b>250</b>     | <b>395</b>     | <b>24</b>         | <b>733,4</b>   | <b>692,2</b>   | <b>24x15°</b> | <b>20</b> | <b>4,774</b>                          | <b>7,344</b>   | <b>40,4</b>    | <b>190,4</b>   | <b>230,8</b>       |

Standard sizes in bold

# CENTAMAX-HTC

## TYPE B



| DIMENSIONS |            |     |     | ↓ SIZES 5600-18000 |                |                |     |    |   |                |                |                   |                |                |        |    |                               |                |                |                |                    |
|------------|------------|-----|-----|--------------------|----------------|----------------|-----|----|---|----------------|----------------|-------------------|----------------|----------------|--------|----|-------------------------------|----------------|----------------|----------------|--------------------|
| Size       | Dimensions |     |     |                    |                |                |     |    |   |                |                | Flange dimensions |                |                |        |    | Moments of inertia and masses |                |                |                |                    |
|            | A          | B   | C   | d <sub>1</sub>     | d <sub>3</sub> | d <sub>4</sub> | E   | G  | H | L <sub>1</sub> | N <sub>1</sub> | SAE               | D <sub>A</sub> | D <sub>T</sub> | Z      | S  | J <sub>1</sub>                | J <sub>2</sub> | m <sub>1</sub> | m <sub>2</sub> | m <sub>total</sub> |
|            |            |     |     | max                |                | [kgm²]         |     |    |   |                |                |                   |                |                |        |    | [kg]                          |                |                |                |                    |
| 5600       | 15,5       | 85  | 150 | 125                | 418            | –              | 54  | 11 | - | 105            | 175            | 14                | 466,7          | 438,2          | 8x45°  | 13 | 0,298                         | 0,287          | 8,1            | 24,6           | 32,7               |
| 10000      | 21         | 90  | 260 | 175                | 584            | –              | 170 | –  | – | 210            | 248            | 21                | 673,1          | 641,4          | 12x30° | 17 | 1,437                         | 1,118          | 17,7           | 63,0           | 80,7               |
| 18000      | 108        | 137 | 200 | 175                | 686            | –              | 176 | 18 | - | 200            | 248            | 24                | 733,4          | 692,2          | 12x30° | 20 | 4,460                         | 2,045          | 45,4           | 81,1           | 126,5              |

Standard sizes in bold

# CENTAMAX-B

## AT A GLANCE



Robust coupling with high torsional flexibility. For resonance-free operation of drives susceptible to torsional vibration.

Torque transmission via a toothed outer ring onto a rubber element. highly reliable and rupture-proof design for the transmission of high torques in a compact design.

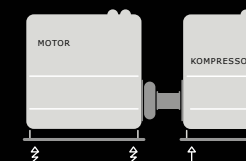
Characterised by high torsional flexibility with linear characteristic. Dampens torsional vibrations and shocks and compensates axial, radial and angular misalignments. Effectively ventilated and with high allowable energy loss. In silicon design, additionally oil resistant and suitable for higher temperatures.

Blind assembly for minimum axial mounting effort. With flywheel connections acc. to SAE. Also available for non-standard flywheels.

### Features

- Effective ventilation
- Blind assembly
- Temperature resistant
- Flexible torsional elasticity

### Areas of Application



|                   |                                      |
|-------------------|--------------------------------------|
| torque range      | 0.7 to 15 kNm                        |
| elastic material  | NR/SI/CENTALAN HT                    |
| temperature range | NR -45° to +80°C                     |
|                   | Si -45° to +120°C                    |
|                   | CENTALAN HT                          |
|                   | -25° to +100°C,<br>short term +120°C |

## CENTAMAX-B

# TECHNICAL DATA

Questions on product selection?  
We will gladly assist → [www.centa.info/contact](http://www.centa.info/contact)



## CENTAMAX-B

NR



## TECHNICAL DATA

↓ SIZES 800-5000

→ SIZES 6000-12000

| 1    | 2                           | 3                                  | 4                                    | 5                                               | 6                                         | 7                                                     |
|------|-----------------------------|------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------------|-------------------------------------------------------|
| Size | Rubber quality<br>[Shore A] | Nominal torque<br>$T_{KN}$<br>[Nm] | Maximum torque<br>$T_{Kmax}$<br>[Nm] | Continuous vibratory torque<br>$T_{KW}$<br>[Nm] | Permissible power loss<br>$P_{KV}$<br>[W] | Dynamic torsional stiffness<br>$C_{Tdyn}$<br>[Nm/rad] |
| 800  | 50                          | 700                                | 1400                                 | 280                                             | 105                                       | 2800                                                  |
|      | 60                          | 850                                | 1700                                 | 340                                             |                                           | 4200                                                  |
|      | 70                          | 950                                | 2000                                 | 380                                             |                                           | 6800                                                  |
| 1200 | 50                          | 1000                               | 2000                                 | 400                                             | 150                                       | 4500                                                  |
|      | 60                          | 1200                               | 2400                                 | 480                                             |                                           | 7000                                                  |
|      | 70                          | 1300                               | 3000                                 | 520                                             |                                           | 11700                                                 |
| 1600 | 50                          | 1450                               | 2900                                 | 580                                             | 220                                       | 6000                                                  |
|      | 60                          | 1800                               | 3600                                 | 720                                             |                                           | 9000                                                  |
|      | 70                          | 2000                               | 4000                                 | 800                                             |                                           | 15000                                                 |
| 2400 | 50                          | 2000                               | 4000                                 | 800                                             | 300                                       | 10000                                                 |
|      | 60                          | 2500                               | 5000                                 | 1000                                            |                                           | 15000                                                 |
|      | 70                          | 2800                               | 6000                                 | 1120                                            |                                           | 25000                                                 |
| 2600 | 50                          | 2500                               | 5000                                 | 1000                                            | 350                                       | 9000                                                  |
|      | 60                          | 2700                               | 6000                                 | 1080                                            |                                           | 12500                                                 |
|      | 70                          | 3000                               | 7000                                 | 1200                                            |                                           | 20000                                                 |
| 3500 | 50                          | 2800                               | 6000                                 | 1120                                            | 360                                       | 25000                                                 |
|      | 60                          | 3000                               | 7500                                 | 1200                                            |                                           | 37500                                                 |
|      | 70                          | 3200                               | 8000                                 | 1280                                            |                                           | 63000                                                 |
| 4000 | 50                          | 3200                               | 6500                                 | 1280                                            | 450                                       | 16000                                                 |
|      | 60                          | 3500                               | 8000                                 | 1400                                            |                                           | 24000                                                 |
|      | 70                          | 3800                               | 8500                                 | 1520                                            |                                           | 38000                                                 |
| 5000 | 50                          | 4500                               | 9000                                 | 1800                                            | 500                                       | 17000                                                 |
|      | 60                          | 5000                               | 10000                                | 2000                                            |                                           | 27000                                                 |
|      | 70                          | 6000                               | 12000                                | 2400                                            |                                           | 45000                                                 |

## CENTAMAX-B

NR



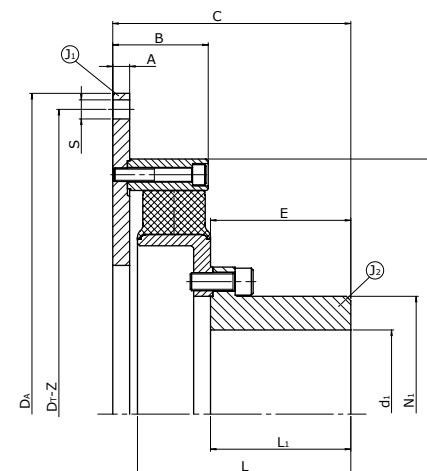
## TECHNICAL DATA

↓ SIZES 6000-12000

→ SIZES 800-5000

| 1     | 2                           | 3                                  | 4                                    | 5                                               | 6                                         | 7                                                     |
|-------|-----------------------------|------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------------|-------------------------------------------------------|
| Size  | Rubber quality<br>[Shore A] | Nominal torque<br>$T_{KN}$<br>[Nm] | Maximum torque<br>$T_{Kmax}$<br>[Nm] | Continuous vibratory torque<br>$T_{KW}$<br>[Nm] | Permissible power loss<br>$P_{KV}$<br>[W] | Dynamic torsional stiffness<br>$C_{Tdyn}$<br>[Nm/rad] |
| 6000  | 50                          | 5400                               | 11000                                | 2160                                            | 750                                       | 28000                                                 |
|       | 60                          | 6000                               | 12000                                | 2400                                            |                                           | 43000                                                 |
|       | 70                          | 7000                               | 15000                                | 2800                                            |                                           | 77000                                                 |
| 8000  | 50                          | 8000                               | 16000                                | 3200                                            | 1000                                      | 60000                                                 |
|       | 60                          | 9000                               | 22000                                | 3600                                            |                                           | 80000                                                 |
|       | 70                          | 10000                              | 25000                                | 4000                                            |                                           | 130000                                                |
| 12000 | 50                          | 12500                              | 25000                                | 5000                                            | 1500                                      | 79000                                                 |
|       | 60                          | 14000                              | 28000                                | 5600                                            |                                           | 115000                                                |
|       | 70                          | 15000                              | 30000                                | 6000                                            |                                           | 188000                                                |

## CENTAMAX-B



## DIMENSIONS

## ↓ SIZES 800-12000

| Size  | Dimensions |     |     |                       |                |     |     |                |                | Flange dimensions |                         |                         |                            |                | Moments of inertia and masses         |                |                      |                |                         |
|-------|------------|-----|-----|-----------------------|----------------|-----|-----|----------------|----------------|-------------------|-------------------------|-------------------------|----------------------------|----------------|---------------------------------------|----------------|----------------------|----------------|-------------------------|
|       | A          | B   | C   | d <sub>1</sub><br>max | d <sub>3</sub> | E   | L   | L <sub>1</sub> | N <sub>1</sub> | SAE               | D <sub>A</sub>          | D <sub>T</sub>          | Z                          | S              | J <sub>1</sub><br>[kgm <sup>2</sup> ] | J <sub>2</sub> | m <sub>1</sub>       | m <sub>2</sub> | m <sub>total</sub>      |
| 800   | 15         | 87  | 150 | 65                    | 326            | 64  | 130 | 66             | 100            | 11,5<br>14        | 352,4<br>466,7          | 333,4<br>438,2          | 8x45°<br>8x45°             | 11<br>13       | 0,331<br>0,705                        | 0,028          | 17,3<br>26,1         | 9,3            | 26,6<br>35,4            |
| 1200  | 15         | 87  | 150 | 65                    | 326            | 64  | 130 | 66             | 100            | 11,5<br>14        | 352,4<br>466,7          | 333,4<br>438,2          | 8x45°<br>8x45°             | 11<br>13       | 0,338<br>0,708                        | 0,051          | 17,5<br>26,2         | 12,2           | 29,7<br>38,4            |
| 1600  | 15         | 87  | 188 | 100                   | 425            | 88  | 168 | 90             | 140            | 14<br>16<br>18    | 466,7<br>517,5<br>571,5 | 438,2<br>489,0<br>542,9 | 8x45°<br>8x45°<br>6x60°    | 11<br>13<br>17 | 0,933<br>1,214<br>1,618               | 0,106          | 28,1<br>32,7<br>38,1 | 19,8           | 47,9<br>52,5<br>57,9    |
| 2400  | 15         | 87  | 188 | 100                   | 425            | 88  | 168 | 90             | 140            | 14<br>16<br>18    | 466,7<br>517,5<br>571,5 | 438,2<br>489,0<br>542,9 | 8x45°<br>8x45°<br>6x60°    | 11<br>13<br>17 | 0,947<br>1,227<br>1,631               | 0,155          | 28,4<br>33,1<br>38,5 | 23,8           | 52,2<br>56,9<br>62,3    |
| 2600  | 15         | 98  | 212 | 105                   | 454,5          | 103 | 183 | 105            | 154            | 14<br>16<br>18    | 466,7<br>517,5<br>571,5 | 438,2<br>489,0<br>542,9 | 8x45°<br>8x45°<br>6x60°    | 11<br>13<br>17 | 1,056<br>1,337<br>1,741               | 0,201          | 27,9<br>32,5<br>37,9 | 27,4           | 55,3<br>59,9<br>65,3    |
| 2800  | 15         | 87  | 188 | 105                   | 425            | 103 | 158 | 105            | 154            | 14<br>16<br>18    | 466,7<br>517,5<br>571,5 | 438,2<br>489,0<br>542,9 | 8x45°<br>8x45°<br>6x60°    | 11<br>13<br>17 | 0,916<br>1,197<br>1,601               | 0,218          | 26,3<br>30,9<br>36,3 | 26,2           | 52,5<br>57,1<br>62,5    |
| 3500  | 15         | 98  | 212 | 105                   | 454,5          | 103 | 183 | 105            | 154            | 14<br>16<br>18    | 466,7<br>517,5<br>571,5 | 438,2<br>489,0<br>542,9 | 8x45°<br>8x45°<br>12x30°   | 11<br>13<br>17 | 1,076<br>1,357<br>1,761               | 0,221          | 28,7<br>33,3<br>38,7 | 28,2           | 56,9<br>61,5<br>66,9    |
| 4000  | 15         | 85  | 212 | 140                   | 454,5          | 125 | 190 | 125            | 210            | 14<br>16<br>18    | 466,7<br>517,5<br>571,5 | 438,2<br>489,0<br>542,9 | 8x45°<br>8x45°<br>12x30°   | 11<br>13<br>17 | 0,948<br>1,228<br>1,632               | 0,445          | 23,8<br>28,4<br>33,9 | 44,6           | 68,4<br>73,0<br>78,5    |
| 5000  | 15         | 111 | 227 | 105                   | 454,5          | 103 | 198 | 105            | 154            | 14<br>16<br>18    | 466,7<br>517,5<br>571,5 | 438,2<br>489,0<br>542,9 | 8x45°<br>8x45°<br>12x30°   | 11<br>13<br>17 | 1,177<br>1,468<br>1,862               | 0,223          | 30,2<br>34,8<br>40,2 | 31,1           | 61,3<br>65,9<br>71,3    |
| 6000  | 15         | 98  | 232 | 140                   | 544            | 123 | 208 | 125            | 210            | 18<br>21          | 571,5<br>673,1          | 542,9<br>641,4          | 12x30°<br>12x30°           | 17<br>17       | 1,938<br>3,078                        | 0,613          | 37,9<br>49,6         | 51,9           | 89,8<br>101,5           |
| 8000  | 18         | 111 | 265 | 170                   | 576            | 151 | 236 | 150            | 235            | 18<br>21<br>24    | 571,5<br>673,1<br>733,4 | 542,9<br>641,4<br>692,2 | 12x30°<br>12x30°<br>12x30° | 17<br>17<br>19 | 2,805<br>4,325<br>5,621               | 1,058          | 47,1<br>62,6<br>73,1 | 70,5           | 117,6<br>133,1<br>143,6 |
| 12000 | 16         | 157 | 362 | 170                   | 658            | 201 | 331 | 200            | 235            | 21<br>24          | 673,1<br>733,4          | 641,4<br>692,2          | 12x30°<br>12x30°           | 17<br>19       | 7,082<br>8,454                        | 1,711          | 93,5<br>104          | 106            | 199,5<br>210,0          |

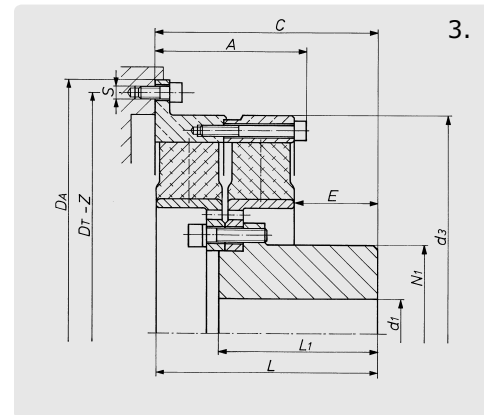
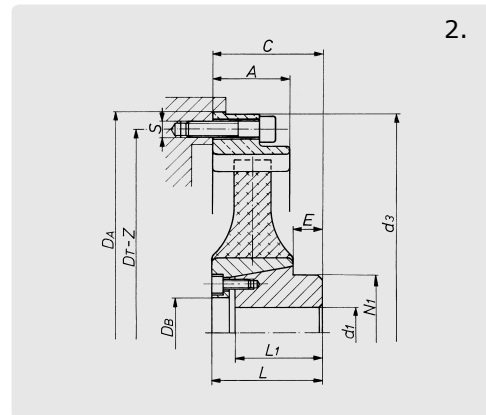
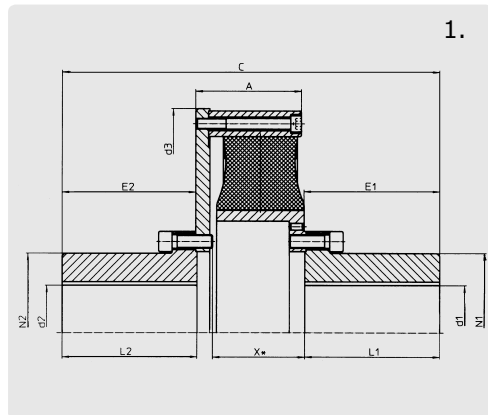
# CENTAMAX

## APPENDIX

|                                          |            |
|------------------------------------------|------------|
| <b>Variants</b>                          | Page APP-2 |
| <b>Special types</b>                     | Page APP-3 |
| <b>Explanation of the technical data</b> | Page APP-4 |

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## VARIANTS



1. BBEW, BCEW

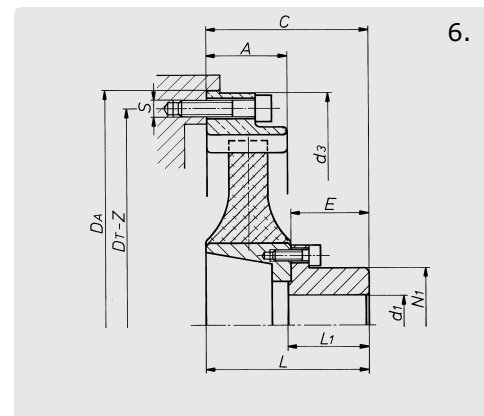
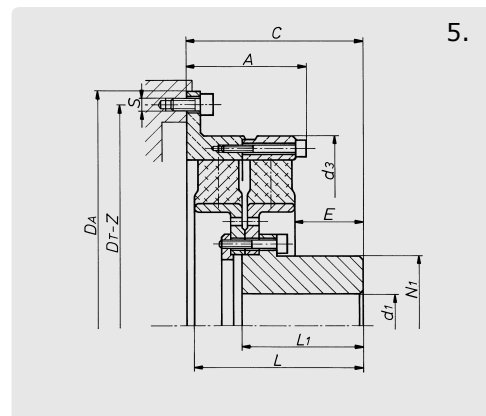
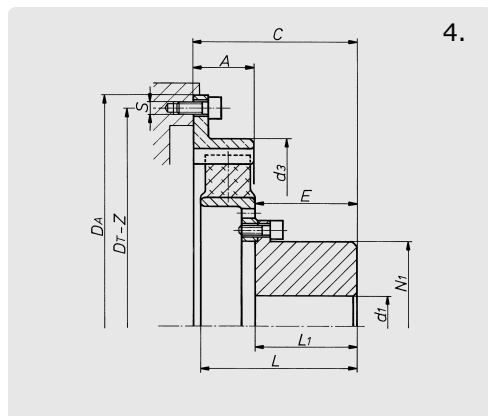
2. SB

3. SD

4. SCE

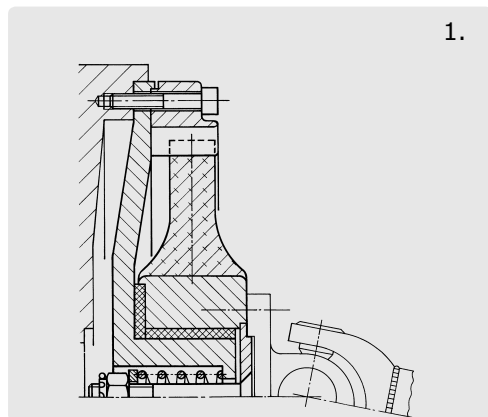
5. SDE

6. SBE

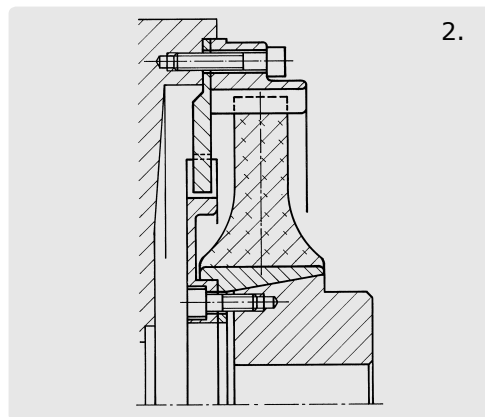


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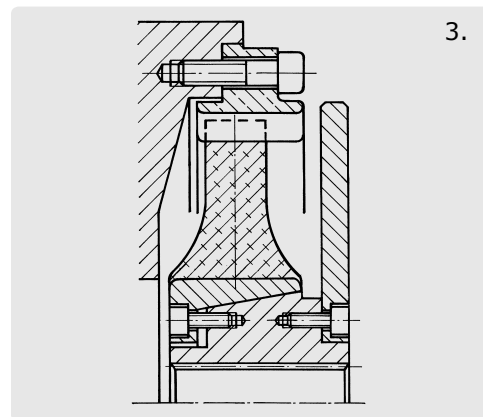
## SPECIAL TYPES



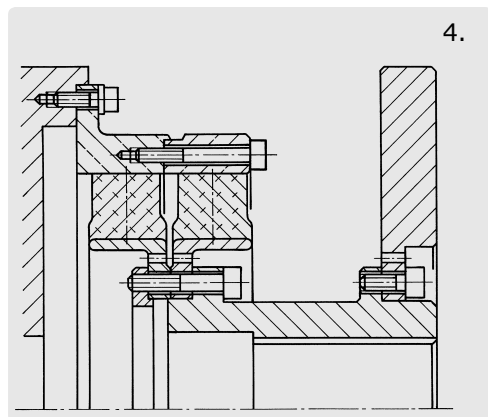
1.



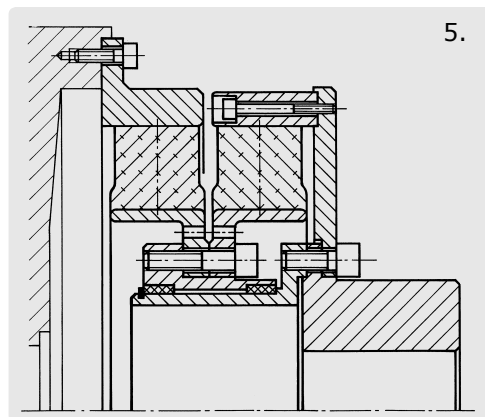
2.



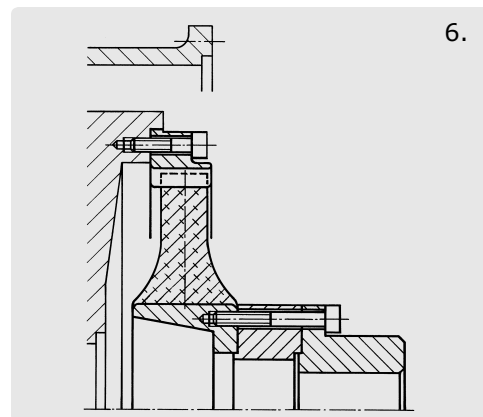
3.



4.



5.



6.

1. As intermediate coupling for cardan shafts.
2. With failsafe feature for classified ship propulsion with only one engine.
3. with 3 special features:
  - a) outer ring protrudes into flywheel for short overall length.
  - b) inner hub elongated towards engine for longer spline engagement.
  - c) with secondary extra inertia for low resonance speeds.
4. CM-8000-SDE, drop-out type, with special hub and additional inertia.
5. Drop-out-type, with 2 elements in line, giving double torsional elasticity, half torsional stiffness.
6. Drop-out-type, with spacer for deep flywheels or flywheel housing.

# EXPLANATION OF THE TECHNICAL DATA

This appendix shows all explanations of the technical data for all CENTA products.

**the green marked explanations are relevant for this catalog:**

|    |                                  |            |
|----|----------------------------------|------------|
| 1  | Size                             | Page APP-2 |
| 2  | Rubber quality                   | Page APP-2 |
| 3  | Nominal torque                   | Page APP-2 |
| 4  | Maximum torque                   | Page APP-2 |
| 5  | Continuous vibratory torque      | Page APP-2 |
| 6  | Permissible power loss           | Page APP-2 |
| 7  | Dynamic torsional stiffness      | Page APP-3 |
| 8  | Relative damping                 | Page APP-3 |
| 9  | Speed                            | Page APP-3 |
| 10 | Permissible axial displacement   | Page APP-3 |
| 11 | Axial stiffness                  | Page APP-4 |
| 12 | Permissible radial displacement  | Page APP-4 |
| 13 | Radial stiffness                 | Page APP-4 |
| 14 | Permissible angular displacement | Page APP-4 |
| 15 | Angular stiffness                | Page APP-4 |

Are these technical explanations up to date?  
click here for an update check!

# CENTAMAX

## EXPLANATION OF THE TECHNICAL DATA

|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>1</div> <div>Size</div> <div>This spontaneously selected figure designates the size of the coupling.</div> | <div>2</div> <div>Rubber quality<br/>Shore A</div> <div>This figure indicates the nominal shore hardness of the elastic element.<br/>The nominal value and the effective value may deviate within given tolerance ranges.</div> <div>3</div> <div>Nominal torque<br/>T<sub>KN</sub> [kNm]</div> <div>Average torque which can be transmitted continuously over the entire speed range.</div> | <div>4</div> <div>Maximum torque<br/>[kNm]</div> <div><div>T<sub>Kmax</sub></div><div>This is the torque that may occur occasionally and for a short period up to 1.000 times and may not lead to a substantial temperature rise in the rubber element.</div></div> <div>In addition the following maximum torques may occur:</div> <div><div>ΔT<sub>Kmax</sub> = 1,8xT<sub>KN</sub></div><div>Peak torque range (peak to peak) between maximum and minimum torque, e.g. switching operation.</div></div> <div><div>T<sub>Kmax1</sub> = 1,5xT<sub>KN</sub></div><div>Temporary peak torque (e.g. passing through resonances). ΔT<sub>Kmax</sub> or T<sub>Kmax1</sub> may occur 50.000 times alternating or 100.000 times swelling.</div></div> <div><div>T<sub>Kmax2</sub> = 4,5xT<sub>KN</sub></div><div>Transient torque rating for very rare, extraordinary conditions (e.g. short circuits).</div></div> |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

5

Continuous vibratory torque  
T<sub>KW</sub> [kNm]

Amplitude of the continuously permissible periodic torque fluctuation with a basic load up to the value T<sub>KN</sub>.  
The frequency of the amplitude has no influence on the permissible continuous vibratory torque. Its main influence on the coupling temperature is taken into consideration in the calculation of the power loss.

Operating torque  
T<sub>Bmax</sub> [kNm]

The maximum operating torque results of T<sub>KN</sub> and T<sub>KW</sub>.

 6  Permissible Power Loss P<sub>KV</sub> [kW] or [W]  Damping of vibrations and displacement results in power loss within the rubber element. The permissible power loss is the maximum heat (converted damping work into heat), which the rubber element can dissipate continuously to the environment (i.e. without time limit) without the maximum permissible temperature being exceeded. The given permissible power loss refers to an ambient temperature of 30° C. If the coupling is to be operated at a higher ambient temperature, the temperature factor S<sub>EPKV</sub> has to be taken into consideration in the calculation. The coupling can momentarily withstand an increase of the permissible power loss for a short period under certain operation modes (e.g. misfiring).  P<sub>KVZ</sub> [kW]  Defines an individual and proven guide for power loss under misfiring. This value acknowledges general information of the engine suppliers, in particular the real appearance of misfiring and implemented control and protection devices. Values on request. |



# CENTAMAX

## EXPLANATION OF THE TECHNICAL DATA

| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dynamic torsional stiffness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| $C_{Tdyn}$ [kNm/rad]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>The dynamic torsional stiffness is the relation of the torque to the torsional angle under dynamic loading.</p> <p>The torsional stiffness may be linear or progressive depending on the coupling design and material.</p> <p>The value given for couplings with linear torsional stiffness considers following terms:</p> <ul style="list-style-type: none"><li>• Pre-load: 50% of <math>T_{KN}</math></li><li>• Amplitude of vibratory torque: 25% of <math>T_{KN}</math></li><li>• Ambient temperature: 20°C</li><li>• Frequency: 10 Hz</li></ul> <p>For couplings with progressive torsional stiffness only the pre-load value changes as stated.</p> <p>The tolerance of the torsional stiffness is <math>\pm 15\%</math> if not stated otherwise.</p> <p>The following influences need to be considered if the torsional stiffness is required for other operating modes:</p> <ul style="list-style-type: none"><li>• Temperature<br/>Higher temperature reduces the dynamic torsional stiffness.<br/>Temperature factor <math>S_{TC_{Tdyn}}</math> has to be taken into consideration in the calculation.</li><li>• Frequency of vibration<br/>Higher frequencies increase the torsional stiffness.<br/>By experience the dynamic torsional stiffness is 30% higher than the static stiffness. CENTA keeps record of exact parameters.</li><li>• Amplitude of vibratory torque<br/>Higher amplitudes reduce the torsional stiffness, therefore small amplitudes result in higher dynamic stiffness. CENTA keeps record of exact parameters.</li></ul> |

| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Relative damping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| $\psi$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>The relative damping is the relationship of the damping work to the elastic deformation during a cycle of vibration.</p> <p>The larger this value <math>[\psi]</math>, the lower is the increase of the continuous vibratory torque within or close to resonance.</p> <p>The tolerance of the relative damping is <math>\pm 20\%</math>, if not otherwise stated.</p> <p>The relative damping is reduced at higher temperatures.</p> <p>Temperature factor <math>S_{T\psi}</math> has to be taken into consideration in the calculation.</p> <p>The vibration amplitude and frequency only have marginal effect on the relative damping.</p> |

| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| $n$ [min <sup>-1</sup> ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <div><div><math>n_{max}</math></div><div>The maximum speed of the coupling element, which may occur occasionally and for a short period (e.g. overspeed).</div></div> <div><div><math>n_d</math></div><div>The characteristics of mounted parts may require a reduction of the maximum speed (e.g. outer diameter or material of brake discs).</div></div> <div><div></div><div>The maximum permissible speed of highly flexible coupling elements is normally 90% thereof.</div></div> |

| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Permissible axial displacement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| $\Delta K_a$ [mm]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <div><div><math>\Delta K_a</math></div><div>The continuous permissible axial displacement of the coupling.<br/>This is the sum of displacement by assembly as well as static and dynamic displacements during operation.</div></div> <div><div><math>\Delta K_{a\ max}</math></div><div>The maximum axial displacement of the coupling, which may occur occasionally for a short period (e.g. extreme load).</div></div> <div><div></div><div>The concurrent occurrence of different kinds of displacements is handled in technical documents (displacement diagrams, data sheets, assembly instructions).</div></div> |

# CENTAMAX

## EXPLANATION OF THE TECHNICAL DATA

| 11                         |                                                                                                                | 12                                      |                                                                                                                                                                                                                                                                                                                                            | 13                          |                                                                                                                   | 14                                                          |                                                                                                                                                                                                                                                                                                                                             | 15                                    |                                                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Axial stiffness<br>[kN/mm] |                                                                                                                | Permissible radial displacement<br>[mm] |                                                                                                                                                                                                                                                                                                                                            | Radial stiffness<br>[kN/mm] |                                                                                                                   | Permissible angular displacement<br>[ $\frac{1}{4}^\circ$ ] |                                                                                                                                                                                                                                                                                                                                             | Angular stiffness<br>[kNm/ $^\circ$ ] |                                                                                                                        |
| $C_a$                      | The axial stiffness determines the axial reaction force on the input and output sides upon axial displacement. | $\Delta K_r$                            | The continuous permissible radial displacement of the coupling. This is the sum of displacement by assembly as well as static and dynamic displacements during operation.<br>The continuous permissible radial displacement depends on the operation speed and may require adjustment (see diagrams $S_n$ of the coupling series).         | $C_r$                       | The radial stiffness determines the radial reaction force on the input and output sides upon radial displacement. | $\Delta K_w$                                                | The continuous permissible angular displacement of the coupling. This is the sum of displacement by assembly as well as static and dynamic displacements during operation.<br>The continuous permissible angular displacement depends on the operation speed and may require adjustment (see diagrams $S_n$ of the coupling series).        | $C_w$                                 | The angular stiffness determines the restoring bending moment on the input and output sides upon angular displacement. |
| $C_{a\ dyn}$               | By experience the dynamic stiffness is higher than the static one. The factor depends on the coupling series.  | $\Delta K_{r\ max}$                     | The maximum radial displacement of the coupling, which may occur occasionally and for a short period without consideration of the operation speed (e.g. extreme overload).<br>The concurrent occurrence of different kinds of displacements is handled in technical documents (displacement diagrams, data sheets, assembly instructions). | $C_{r\ dyn}$                | By experience the dynamic stiffness is higher than the static one. The factor depends on the coupling series.     | $\Delta K_{w\ max}$                                         | The maximum angular displacement of the coupling, which may occur occasionally and for a short period without consideration of the operation speed (e.g. extreme overload).<br>The concurrent occurrence of different kinds of displacements is handled in technical documents (displacement diagrams, data sheets, assembly instructions). | $C_{w\ dyn}$                          | By experience the dynamic stiffness is higher than the static one. The factor depends on the coupling series.          |

**CENTAMAX**

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Rev. CM-EN-01-17

1. This catalog supersedes previous editions.

This catalog shows the extent of our CENTAX®-SEC coupling range at the time of printing. This program is still being extended with further sizes and series. Any changes due to technological progress are reserved.

We reserve the right to amend any dimensions or detail specified or illustrated in this publication without notice and without incurring any obligation to provide such modification to such couplings previously delivered. Please ask for an application drawing and current data before making a detailed coupling selection.

2. We would like to draw your attention to the need of preventing accidents or injury. No safety guards are included in our supply.

3. TRADEMARKS

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4. Torsional responsibility

The responsibility for ensuring the torsional vibration compatibility of the complete drive train, rests with the final assembler. As a component supplier CENTA is not responsible for such calculations, and cannot accept any liability for gear noise/ -damage or coupling damage caused by torsional vibrations.

CENTA recommends that a torsional vibration analysis (TVA) is carried out on the complete drive train prior to start up of the machinery. In general torsional vibration analysis can be undertaken by engine manufacturers, consultants or classification societies. CENTA can assist with such calculations using broad experience in coupling applications and torsional vibration analysis.

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6. The dimensions on the flywheel side of the couplings are based on the specifications given by the purchaser. The responsibility for ensuring dimensional compatibility rests with the assembler of the drive train. CENTA cannot accept liability for interference between the coupling and the flywheel or gearbox or for damage caused by such interference.

7. All technical data in this catalog are according to the metric SI system. All dimensions are in mm. All hub dimensions ( $N$ ,  $N_1$  and  $N_2$ ) may vary, depending on the required finished bore. All dimensions for masses ( $m$ ), inertias ( $J$ ) and centres of gravity ( $S$ ) refer to the maximum bore diameter.

CENTA is the leading producer of flexible couplings for rail, industrial, marine and power generating applications. Worldwide.



#### HEAD OFFICE

CENTA Antriebe  
Kirschey GmbH

Bergische Strasse 7  
42781 Haan/Germany

+49-2129-912-0 Phone

+49-2129-2790 Fax

info@centa.de

www.centa.info

**WWW.CENTA.INFO/CONTACT**