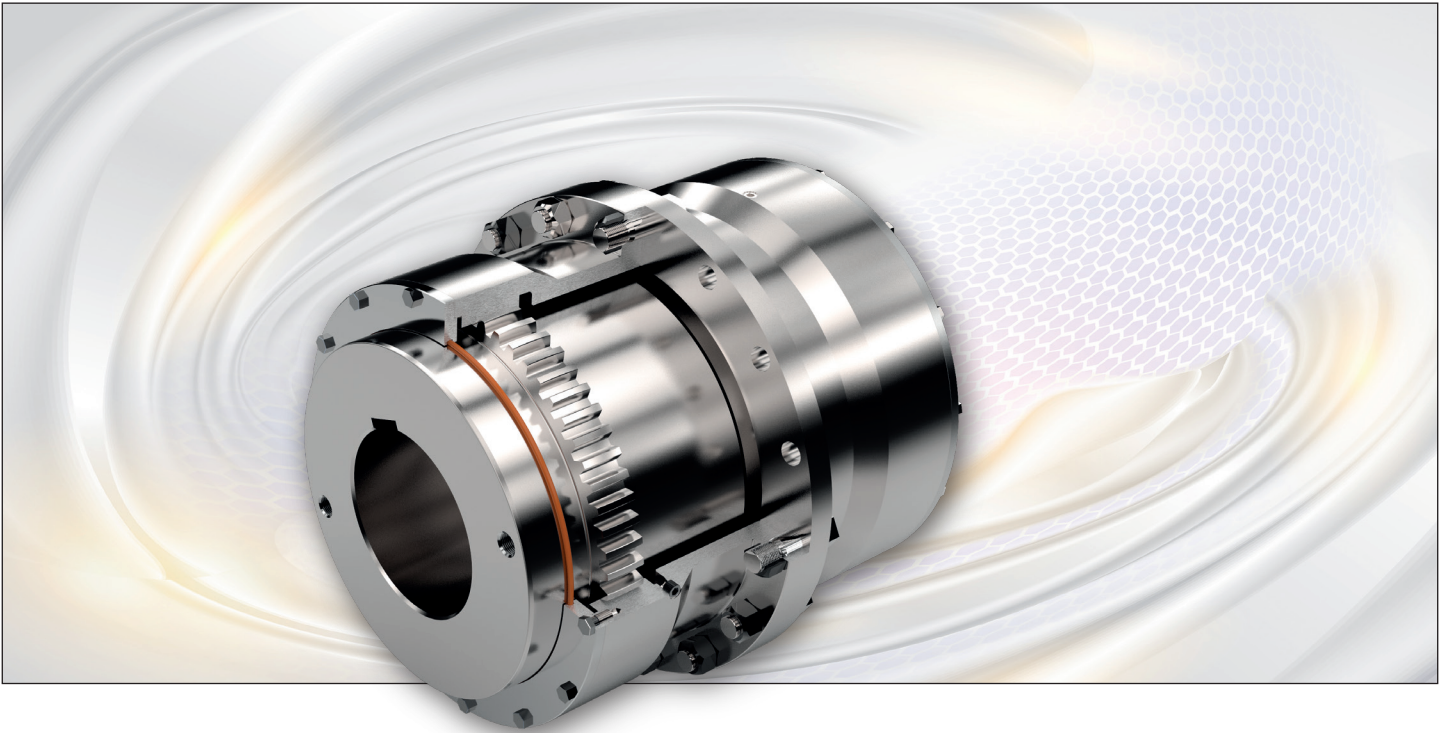


DESCH GC, GC-ECO

Gear Couplings



DESCH Gear Couplings GC



Type GC

- High quality heavy duty coupling
- Special types are possible in short delivery times

Gear Couplings GC

DESCH gear couplings GC are flexible shaft connections suitable for a positive torque transmission. They ensure to compensate radial, axial and angular shaft misalignments. The gear coupling is made of high quality tempered steel with grease lubrication and O-ring seal.

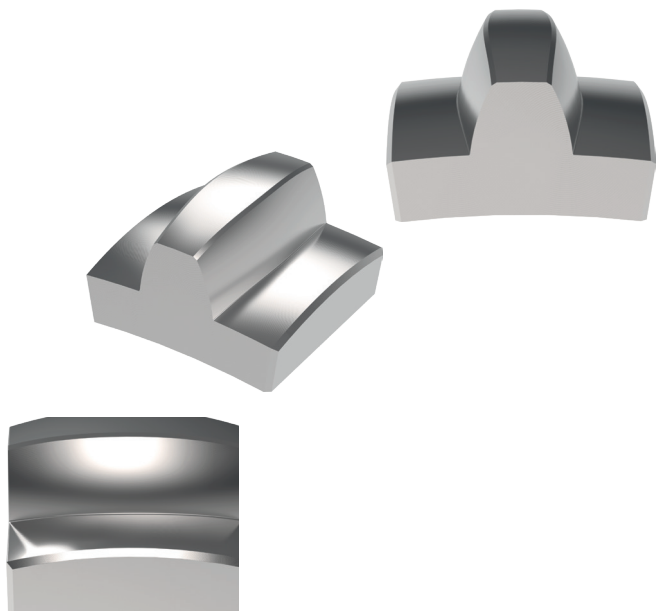
DESCH gear couplings GC are used in all areas of mechanical engineering and offers a long service life with maximum reliability, resulting from the optimal grease lubrication of the crowned spline. The couplings are generally suitable for a horizontal assembly. Special types are suitable for vertical assembly, too.

The range of gear couplings includes sizes from 50 to 1.000 with torque transmissions from 1.920 Nm to 8.000.000 Nm, these are suitable for shaft diameters from 20 mm to 1.000 mm.

Special types, adapted to your application requirements, are possible in a short delivery time!

Tooth principle

The crowned spline principle results in case of angular and radial misalignment the avoidance of edge pressure in the spline. Optimal friction conditions of the spline with an almost wear-free operation, resulting due to the permanent grease lubrication, leads to a long service life expectancy of the coupling.



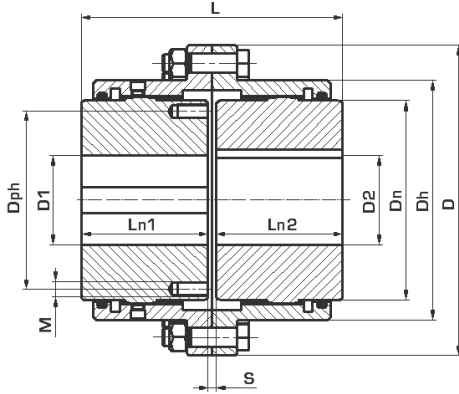
DESCH Gear Couplings GC - types

| | | | |
|---|--|--|---|
|  | <p>GC - Standard coupling - Small Sizes GC 50 - GC 220</p> |  | <p>GCL - with extended hubs</p> |
|  | <p>GC - Standard coupling - Large Sizes GC 240 - GC 600</p> |  | <p>GCT - with shear pins</p> |
|  | <p>GCY - with one-piece sleeve</p> |  | <p>GCB - with brake disc</p> |
|  | <p>GCLE - with intermediate shaft</p> |  | <p>GCV - for vertical drives</p> |
|  | <p>GCX - with spacer sleeve</p> |  | <p>GCTAM - Special type for winder</p> |

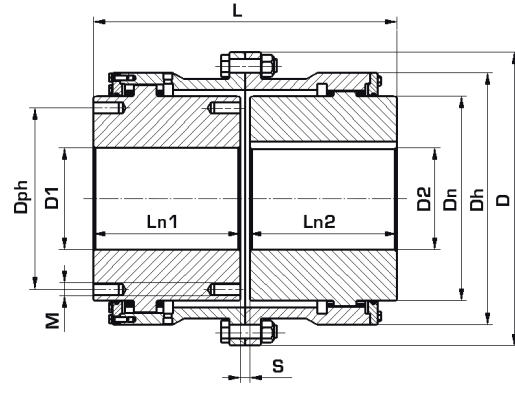
Further types available on request!

DESCH Gear Couplings GC

Size 50 - 220



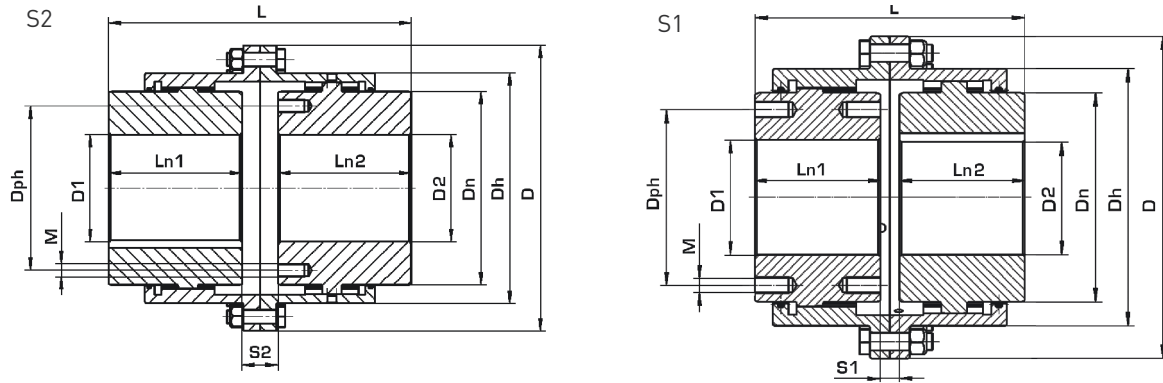
Size 240 - 600



| Size | D | D _{max} | D _h | D _n | D1/D2 min. | D1/D2 max. | L _{min} | L | L _{max} | L _{n min} | L _{n 1/L_{n 2}} | L _{n max} | S | S1 | S2 | D _{ph} | M |
|------|-------|------------------|----------------|----------------|---------------|---------------|------------------|-------|------------------|--------------------|----------------------------------|--------------------|-----|-----|-----|-----------------|-----|
| | mm | | mm | mm | mm | | mm | | | mm | | | mm | mm | mm | mm | mm |
| 50 | 111 | 250 | 83 | 64 | 20 | 50 | 91 | 93 | 208 | 43 | 45 | 100 | 3 | 8 | 10 | 57 | M5 |
| 65 | 148 | 250 | 105 | 83 | 20 | 65 | 131 | 136 | 316 | 50 | 65 | 150 | 6 | 20 | 26 | 72 | M8 |
| 75 | 169 | 250 | 126 | 100 | 20 | 75 | 151 | 156 | 316 | 62 | 75 | 150 | 6 | 18 | 23 | 88 | M8 |
| 100 | 209 | 300 | 162 | 135 | 30 | 100 | 171 | 176 | 316 | 76 | 85 | 150 | 6 | 17 | 23 | 120 | M10 |
| 120 | 233 | 300 | 186 | 160 | 40 | 120 | 211 | 216 | 416 | 90 | 105 | 200 | 6 | 24 | 34 | 144 | M10 |
| 135 | 254 | 300 | 204 | 175 | 40 | 135 | 231 | 236 | 418 | 100 | 115 | 200 | 6 | 24 | 44 | 156 | M12 |
| 150 | 308 | 400 | 246 | 200 | 50 | 150 | 241 | 246 | 618 | 105 | 120 | 300 | 6 | 27 | 44 | 168 | M16 |
| 165 | 336 | 500 | 262 | 220 | 60 | 165 | 301 | 310 | 628 | 120 | 150 | 300 | 10 | 58 | 83 | 196 | M16 |
| 190 | 366 | 500 | 303 | 255 | 80 | 190 | 341 | 350 | 828 | 150 | 170 | 400 | 10 | 47 | 83 | 228 | M20 |
| 220 | 428 | 600 | 345 | 290 | 80 | 220 | 401 | 410 | 828 | 175 | 200 | 400 | 10 | 50 | 94 | 246 | M20 |
| 240 | 458 | 600 | 394 | 320 | 80 | 240 | 463 | 476 | 844 | 190 | 230 | 400 | 16 | 99 | 170 | 284 | M20 |
| 270 | 490 | 600 | 436 | 360 | 120 | 270 | 503 | 516 | 844 | 220 | 250 | 400 | 16 | 94 | 162 | 314 | M24 |
| 285 | 534 | 800 | 474 | 380 | 120 | 285 | 563 | 576 | 844 | 250 | 280 | 400 | 16 | 121 | 213 | 330 | M24 |
| 330 | 580 | 800 | 518 | 431 | 160 | 330 | 603 | 616 | 844 | 280 | 300 | 400 | 16 | 101 | 173 | 390 | M30 |
| 365 | 668 | 800 | 586 | 480 | 180 | 365 | 705 | 730 | 858 | 325 | 350 | 400 | 30 | 137 | 233 | 422 | M30 |
| 400 | 730 | 1.000 | 642 | 530 | 200 | 400 | 805 | 830 | 358 | 345 | 400 | 450 | 30 | 131 | 213 | 478 | M30 |
| 450 | 830 | 1.000 | 720 | 621 | 200 | 450 | 805 | 830 | 358 | 400 | 400 | 450 | 30 | 131 | 213 | 560 | M30 |
| 500 | 882 | 1.000 | 742 | 651 | 200 | 500 | 905 | 930 | 1.058 | 410 | 450 | 500 | 30 | 141 | 230 | 600 | M30 |
| 600 | 970 | 1.000 | 867 | 761 | 300 | 600 | 1.005 | 1.030 | 1.070 | 470 | 500 | 500 | 30 | 151 | 230 | 680 | M30 |
| 700 | 1.220 | 2.000 | 1.064 | 921 | 300 | 700 | 1.405 | 1.440 | 1.710 | 580 | 700 | 800 | 40 | - | - | 830 | M42 |
| 800 | 1.440 | 2.000 | 1.240 | 1.061 | 300 | 800 | 1.405 | 1.440 | 1.710 | 600 | 700 | 800 | 40 | - | - | 920 | M48 |
| 900 | 1.600 | 2.000 | 1.416 | 1.190 | 400 | 900 | 1.505 | 1.540 | 1.710 | 680 | 750 | 800 | 40 | - | - | 1.100 | M48 |
| 1000 | 1.814 | 2.000 | 1.630 | 1.350 | 500 | 1.000 | 1.660 | 1.700 | 2.380 | 740 | 800 | 1.100 | 100 | - | - | 1.160 | M48 |

The diameters D_n and D_h are locked.
Other dimensions can be chosen according to the range given.

Technical data



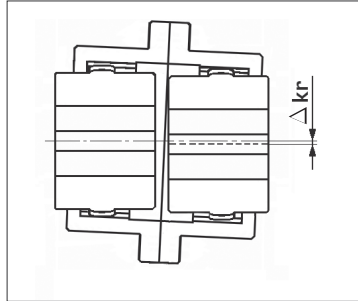
| Size | Torque Nm | | Max. speed rpm | Weight ¹⁾ kg | Moments of inertia ¹⁾ J kgm ² | Max. shaft misalignment ²⁾ | | S _{min} S _{max} | | S1 _{min} S1 _{max} | | S2 _{min} S2 _{max} | |
|------|-------------------------|-----------------------|----------------|-------------------------|---|---------------------------------------|-------------------------------------|-----------------------------------|-----|-------------------------------------|-----|-------------------------------------|-----|
| | Nominal-T _{KN} | Max T _{kmax} | | | | radial Δ K _r mm | angular Δ K _w Grad | mm | | mm | | mm | |
| 50 | 1.920 | 3.840 | 8.700 | 3,60 | 0,005 | 0,45 | 1 | 1 | 8 | 5 | 10 | 7 | 12 |
| 65 | 3.550 | 7.100 | 6.700 | 8,70 | 0,022 | 0,69 | 1 | 1 | 16 | 15 | 24 | 20 | 32 |
| 75 | 6.100 | 12.200 | 5.200 | 13 | 0,044 | 0,76 | 1 | 1 | 16 | 13 | 22 | 18 | 28 |
| 100 | 13.600 | 27.200 | 4.200 | 25 | 0,139 | 0,84 | 1 | 1 | 16 | 12 | 21 | 18 | 28 |
| 120 | 18.900 | 37.800 | 3.600 | 37 | 0,270 | 1,10 | 1 | 1 | 16 | 17 | 31 | 24 | 44 |
| 135 | 25.300 | 50.600 | 3.250 | 47 | 0,380 | 1,23 | 1 | 1 | 18 | 15 | 33 | 24 | 64 |
| 150 | 35.500 | 71.000 | 2.800 | 70 | 0,868 | 1,23 | 1 | 1 | 18 | 20 | 33 | 24 | 64 |
| 165 | 38.600 | 77.200 | 2.600 | 103 | 1,50 | 1,73 | 1 | 1 | 28 | 52 | 63 | 58 | 108 |
| 190 | 78.000 | 156.000 | 2.200 | 148 | 2,74 | 1,85 | 1 | 1 | 28 | 36 | 58 | 58 | 108 |
| 220 | 110.600 | 221.200 | 1.950 | 215 | 5,32 | 2,27 | 1 | 1 | 28 | 33 | 66 | 64 | 124 |
| 240 | 156.000 | 312.000 | 1.750 | 324 | 9,68 | 2,73 | 1 | 3 | 44 | 86 | 111 | 155 | 185 |
| 270 | 186.000 | 372.000 | 1.600 | 415 | 14,9 | 2,92 | 1 | 3 | 44 | 81 | 106 | 148 | 176 |
| 285 | 219.000 | 438.000 | 1.450 | 540 | 23,7 | 3,43 | 1 | 3 | 44 | 111 | 131 | 198 | 228 |
| 330 | 250.500 | 501.000 | 1.300 | 717 | 36,8 | 3,61 | 1 | 3 | 44 | 91 | 111 | 158 | 188 |
| 365 | 345.000 | 690.000 | 1.150 | 927 | 61 | 4,19 | 1 | 5 | 58 | 124 | 150 | 216 | 250 |
| 400 | 470.000 | 940.000 | 1.050 | 1.299 | 102 | 6,68 | 1,5 | 5 | 58 | 112 | 150 | 192 | 234 |
| 450 | 661.000 | 1.322.000 | 950 | 1.712 | 172 | 6,68 | 1,5 | 5 | 58 | 112 | 150 | 192 | 234 |
| 500 | 790.000 | 1.580.000 | 900 | 2.214 | 252 | 7,46 | 1,5 | 5 | 58 | 122 | 160 | 210 | 250 |
| 600 | 1.250.000 | 2.500.000 | 775 | 3.242 | 488 | 8,25 | 1,5 | 5 | 70 | 131 | 170 | 230 | 270 |
| 700 | 2.150.000 | 4.300.000 | 650 | 6.054 | 1.358 | 9,00 | 2 | 5 | 110 | - | - | - | - |
| 800 | 3.600.000 | 7.200.000 | 550 | 9.014 | 2.744 | 9,00 | 2 | 5 | 110 | - | - | - | - |
| 900 | 5.300.000 | 10.600.000 | 475 | 11.866 | 4.574 | 9,00 | 2 | 5 | 110 | - | - | - | - |
| 1000 | 8.000.000 | 16.000.000 | 425 | 13.500 | 6.691 | 9,00 | 2 | 60 | 180 | - | - | - | - |

1) Weight and moments of inertia apply for max. bore diameter.

2) The values mentioned are valid for n max. = 1500 rpm

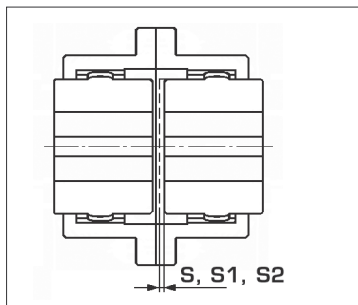
DESCH Gear couplings GC

Misalignment

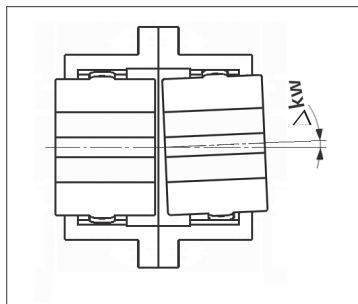


Radial misalignment is given at the maximum allowed angular misalignment and according to the shortest value S, S1, S2 - table page 4.

Radial misalignment

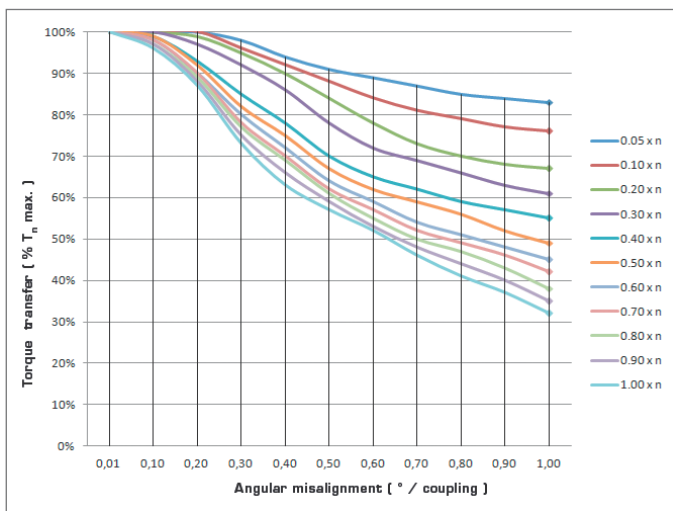


Axial misalignment



Angular misalignment

The size of a coupling for a specific drive depends not only on the driving power and the rotational speed, also on the angular misalignment and the type of machine to be connected.



Torque transfer of the coupling in relation to increasing angular misalignment and rotational speed.

DESCH Gear couplings GC-ECO



Type GC-ECO

- Economic standard coupling
- Special types are possible in short delivery times

Gear Couplings GC-ECO

DESCH gear couplings GC-ECO are economic and torsionally stiff shaft connections suitable for a positive torque transmission. They ensure the flexible compensation of shaft misalignments as well. The gear coupling is made of high tensile steel with grease lubrication and O-ring seal.

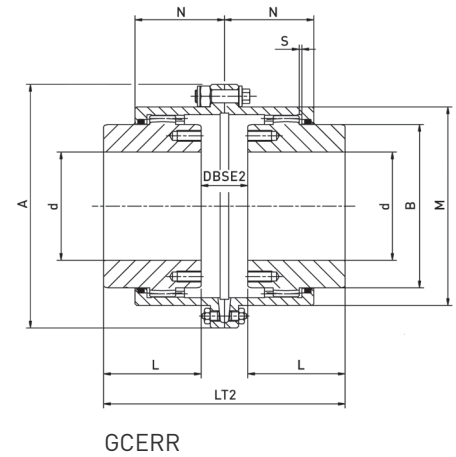
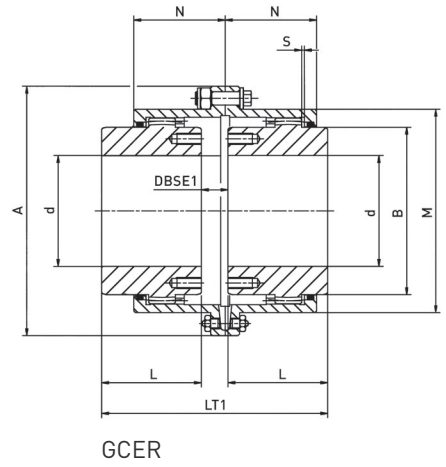
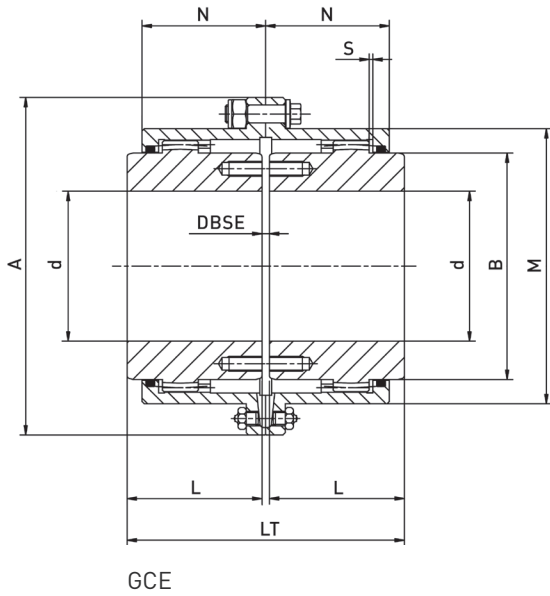
DESCH gear couplings GC-ECO are used in all areas of mechanical engineering and offers a long service life with maximum reliability, resulting from the optimal grease lubrication of the crowned spline. The couplings are generally suitable for a horizontal assembly. Special types are suitable for vertical assembly, too.

The range of gear couplings ECO includes standard sizes from 52 to 280 with torque transmissions from 1.900 Nm to 200.000 Nm, these are suitable for shaft diameters from 20 mm to 280 mm.

Bigger shaft diameters and higher torques are possible on request.

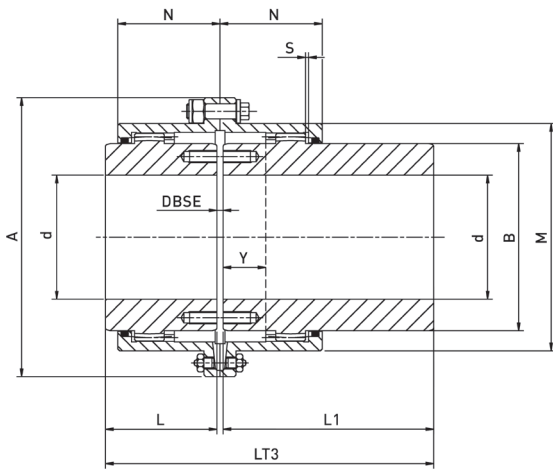
Special types, adapted to your application requirements, are possible in a short delivery time!

DESCH Gear couplings GC-ECO

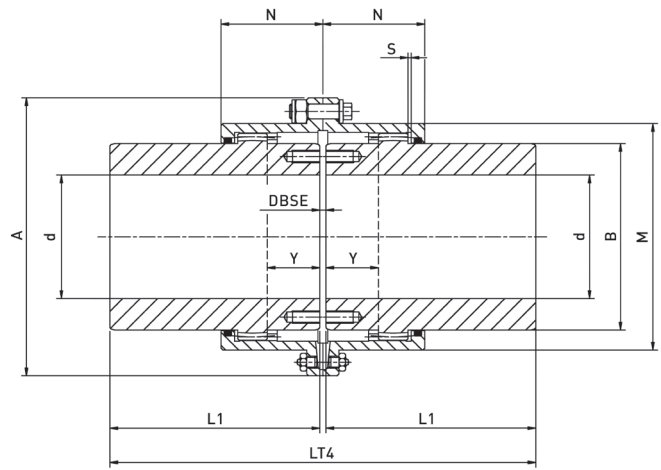


| Size | d_{max} mm | A mm | M mm | B mm | L mm | L1 mm | LT mm | LT1 mm | LT2 mm | LT3 mm | LT4 mm | N mm | Y mm | DBSE mm | DBSE1 mm | DBSE2 mm |
|------|-----------------|---------|---------|---------|---------|----------|----------|-----------|-----------|-----------|-----------|---------|---------|------------|-------------|-------------|
| 52 | 52 | 111 | 82,5 | 68 | 43 | 105 | 89 | 91 | 93 | 151 | 213 | 39 | 12 | 3 | 5 | 7 |
| 62 | 62 | 142 | 104,6 | 86 | 50 | 115 | 103 | 108 | 113 | 168 | 233 | 45,5 | 16 | 3 | 8 | 13 |
| 78 | 78 | 168 | 130,5 | 105 | 62 | 130 | 127 | 138 | 149 | 195 | 263 | 59 | 22 | 3 | 14 | 25 |
| 98 | 98 | 200 | 158,4 | 132 | 76 | 150 | 157 | 170 | 184 | 231 | 305 | 68 | 26 | 5 | 18 | 32 |
| 112 | 112 | 225 | 183,4 | 151 | 90 | 170 | 185 | 204 | 223 | 265 | 345 | 82,5 | 38 | 5 | 24 | 43 |
| 132 | 132 | 265 | 211,5 | 179 | 105 | 185 | 216 | 237 | 258 | 296 | 376 | 93 | 45 | 6 | 27 | 48 |
| 156 | 156 | 300 | 245,5 | 209 | 120 | 215 | 246 | 272 | 298 | 296 | 436 | 106 | 50 | 6 | 32 | 58 |
| 174 | 174 | 330 | 275 | 234 | 135 | 245 | 278 | 307 | 336 | 341 | 498 | 118 | 58 | 8 | 37 | 66 |
| 190 | 190 | 370 | 307 | 255 | 150 | 295 | 308 | 350 | 392 | 388 | 598 | 138 | 70 | 8 | 50 | 92 |
| 210 | 210 | 406 | 335 | 280 | 175 | 300 | 358 | 403 | 448 | 453 | 608 | 154 | 80 | 8 | 53 | 98 |
| 233 | 233 | 439 | 367 | 306 | 190 | 305 | 388 | 438 | 488 | 483 | 618 | 166 | 86 | 8 | 58 | 108 |
| 280 | 280 | 505 | 423 | 356 | 220 | 310 | 450 | 512 | 574 | 540 | 630 | 193 | 96 | 10 | 72 | 134 |

Technical data



GCEL



GCELL

| Size | Torque | | Max. speed rpm | GCE / GCER / GCERR weight kg | GCEL weight kg | GCELL weight kg |
|------|----------|---------------|----------------|------------------------------|----------------|-----------------|
| | T_k Nm | $T_{max.}$ Nm | | | | |
| 52 | 1.900 | 3.800 | 6000 | 4,2 | 6,15 | 8 |
| 62 | 2.900 | 5.800 | 4550 | 7,6 | 10,2 | 13 |
| 78 | 5.700 | 11.400 | 4000 | 13,5 | 18,2 | 23 |
| 98 | 9.000 | 18.000 | 3900 | 25 | 33 | 41 |
| 112 | 14.500 | 29.000 | 3700 | 37 | 48,5 | 60 |
| 132 | 22.800 | 45.600 | 3550 | 60 | 56,5 | 91 |
| 156 | 34.800 | 69.600 | 3000 | 90 | 115 | 141 |
| 174 | 45.800 | 91.600 | 2750 | 124 | 161 | 199 |
| 190 | 70.800 | 141.600 | 2420 | 170 | 227 | 285 |
| 210 | 85.400 | 170.800 | 2270 | 233 | 292 | 352 |
| 233 | 150.000 | 300.000 | 1950 | 298 | 363 | 428 |
| 280 | 200.000 | 400.000 | 1730 | 457 | 526 | 596 |

Selection

For the selection of a GC - Coupling following information are required:

- P_N Motor power respectively input power (kW)
- n Operating speed (rpm)
- L, d Length and diameter of the shafts (mm)
- S Safety factor, table page 11

Where required other geometrical or environmental restrictions.

The torque of the machine T_{AN} is determined by:

This torque T_{AN} multiplied by a safety factor S depending on the application gives the required nominal coupling torque T_{KN} .

$$T_{AN} \text{ [Nm]} = 9550 \times \frac{P_N \text{ [kW]}}{n \text{ [rpm]}}$$

$$\text{Result: } T_{KN} = S \times T_{AN}$$

The coupling must be selected with a nominal torque T_{KN} higher than the calculated value.

Furthermore must be checked that the peak torque of the application is lower than the max. torque T_{Kmax} of the coupling.

Torque transfer regarding angular misalignment and rotational speed acc. to diagram page 6 must be checked.

In case that bigger shock or changing load occur we recommend a revision according to DIN 740. An adequate calculation program is available. For such a revision the following information is required:

- | | |
|---|--|
| 1. Kind of the driving machine | 5. Shock loads |
| 2. Kind of the driven machine | 6. Exciting loads |
| 3. Power of driving and driven machines | 7. Moments of inertia of load- and driving sides |
| 4. Starts per hour | 8. Ambient temperature |

Selection example for IEC standard motors

Given Data of the application

Driving machine: Electric motor
Power of the motor: $P = 400 \text{ kW}$
Speed: $n = 500 \text{ rpm}$
Driven machine: Rotary furnace

$$T_{AN} \text{ [Nm]} = 9.550 \times \frac{400 \text{ kW}}{500 \text{ rpm}} = 7.640 \text{ Nm}$$

$$T_{KN} = 2,5 \times 7.640 \text{ Nm} = 19.100 \text{ Nm}$$

Selection: DESCH GC size 150

$$T_{KN} = 35.500 \text{ Nm}$$

Safety factors „S“

| Assignment of load characteristics according to type of working machine | | | |
|---|----------------------------------|---|---|
| | DREDGERS | | RUBBER MACHINERY |
| S | Bucket conveyor | S | Extruders |
| S | Landing gear (caterpillar) | M | Calenders |
| M | Landing gear (rail) | S | Kneading mill |
| M | Manoeuvring winches | M | Mixers |
| M | Pumps | S | Rolling mills |
| S | Impellers | | |
| S | Cutter heads | | WOOD WORKING MACHINES |
| M | Slewing gear | S | Barkers |
| | | M | Planing machines |
| | | G | Wood working machines |
| | | S | Saw frames |
| | GENERATORS, TRANSFORMERS | | |
| M | Frequency transformers | | CRANES |
| M | Generators | G | Luffing gear block |
| M | Welding generators | S | Travelling gear |
| | | G | Hoist gear |
| | CHEMICAL INDUSTRY | M | Slewing gear |
| M | Cooling drums | M | Derricking jib gear |
| M | Mixers | | |
| G | Agitators (liquid material) | | PLASIC INDUSTRY MACHINES |
| M | Agitators (semi-liquid material) | M | Extruders |
| M | Drying drums | M | Calenders |
| G | Centrifuges (light) | M | Mixers |
| M | Centrifuges (heavy) | M | Crushers |
| | OIL INDUSTRY | | |
| M | Pipeline pumps | | METAL WORKING MACHINES |
| S | Rotary drilling equipment | M | Plate bending machines |
| | | S | Plate straightening machines |
| | CONVEYORS | S | Hammers |
| M | Pit-head winches | S | Metal planning machines |
| S | Winding engines | S | Presses |
| M | jointed-band conveyors | M | Shears |
| G | Belt conveyors (bulk material) | S | Forging presses |
| M | Belt conveyors (piece goods) | S | Punch presses |
| M | Band pocket conveyors | G | Countershafts, line shafts |
| M | Chain conveyors | M | Machine tools (main drives) |
| M | Circular conveyors | G | Machine tools (auxiliary drives) |
| M | Load elevators | | |
| G | Bucket conveyors for flour | | FOOD INDUSTRY MACHINERY |
| M | Passenger lifts | G | Bottling and container filling machines |
| M | Plate conveyors | M | Kneading machines |
| M | Screw conveyors | M | Mash tubs |
| M | Ballast elevators | G | Packaging machines |
| S | Inclined hoists | M | Cane crushers |
| M | Steel belt conveyors | M | Cane cutters |
| M | Drag chain conveyors | S | Cane mills |
| | | M | Sugar beet cutters |
| | | M | Sugar beet washing machines |
| | BLOWERS, VENTILATORS | | |
| M | Rotary piston blowers | | PAPER MACHINES |
| G | Blowers (axial/radial) | S | Couches |
| M | Cooling tower fans | S | Glazing cylinders |
| M | Induced draught fans | M | Pulper |
| G | Turbo blowers | S | Pulp grinders |
| | | M | Calenders |
| | BUILDING MACHINERY | S | Wet presses |
| S | Hoists | S | Willows |
| G | Concrete mixers | S | Suction presses |
| S | Road construction machinery | S | Suction rolls |
| | | S | Drying cylinders |
| | | | |
| | | | PUMPS |
| | | S | Piston pumps |
| | | G | Centrifugal pumps (light liquids) |
| | | M | Centrifugal pumps (viscous liquids) |
| | | S | Plunger pumps |
| | | S | Press pumps |
| | | | |
| | | | STONE AND CLAY WORKING MACHINES |
| | | S | Crusher |
| | | S | Rotary furnace |
| | | S | Hammer mills |
| | | S | Ball mills |
| | | S | Tube mills |
| | | S | Beater mills |
| | | S | Brick presses |
| | | | |
| | | | TEXTILE MACHINES |
| | | M | Batchers |
| | | M | Printing and dyeing machines |
| | | M | Tanning vats |
| | | M | Willows |
| | | M | Looms |
| | | | |
| | | | COMPRESSORS |
| | | S | Piston compressors |
| | | M | Turbo compressors |
| | | | |
| | | | METAL ROLLING MILLS |
| | | S | Plate shears |
| | | M | Manipulator for turning sheets |
| | | S | Ingot pushers |
| | | S | Ingot and slabbing-mill train |
| | | S | Ingot handling machinery |
| | | M | Wire drawing benches |
| | | S | Descaling machines |
| | | S | Thin plate mills |
| | | S | Heavy and medium plate mills |
| | | M | Winding machines (strip and wire) |
| | | S | Cold rolling mills |
| | | M | Chain tractor |
| | | S | Billet shears |
| | | M | Cooling beds |
| | | M | Cross tractor |
| | | M | Roller tables (light) |
| | | S | Roller tables (heavy) |
| | | M | Roller straighteners |
| | | S | Tube welding machines |
| | | M | Trimming shears |
| | | S | Cropping shears |
| | | S | Continuous casting plant |
| | | M | Rollers adjustment drive |
| | | S | Manipulators |
| | | | |
| | | | LAUNDRIES |
| | | M | Tumblers |
| | | M | Washing machines |
| | | | |
| | | | WATER TREATMENT |
| | | M | Aerators |
| | | M | Screw pumps |

| Safety factors „S“ | | | |
|---------------------------|---|-----|-----|
| Driving machines | Load characteristics of the working machine | | |
| | G | M | S |
| Electric motors, turbines | 1,5 | 2 | 2,5 |
| Hydraulic motors | 2 | 2,5 | 3 |
| Combustion motors | 2,5 | 3 | 3,5 |

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