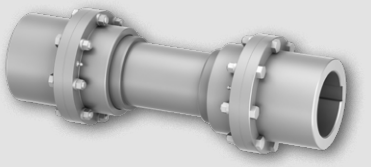
# Gear Couplings

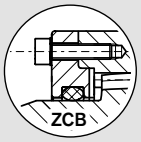
# RINGFEDER® TNZ ZCAF / TNZ ZCBF

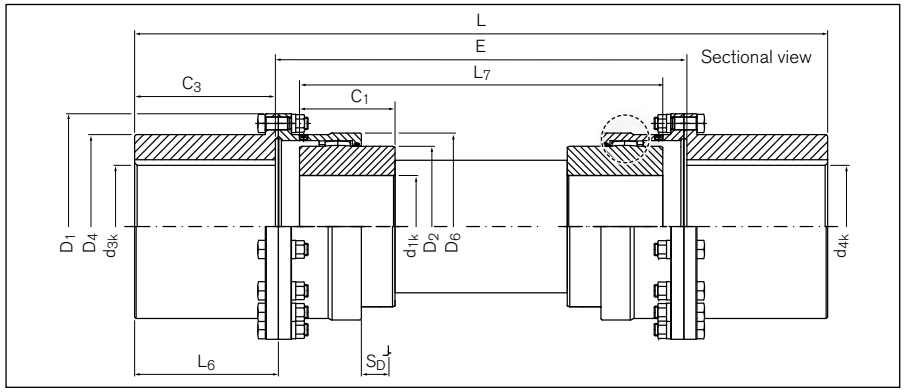
## Intermediate shaft and rigid counter-flanges



**ZCA:**
with integrated O-ring

**ZCB:**
with separate O-ring cover




| Identifier | | Size | $T_{KN}$ | $T_{Kmax}$ | $n_{max}$ | $d_{1k}$ min-max | $d_{3k}$ min-max | $d_{4k}$ min-max | $D_1$ | $D_2$ | $D_4$ | $D_6$ | $C_1$ | $C_3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ZCAF | ZCBF | | Nm | Nm | 1/min | mm | mm | mm | mm | mm | mm | mm | mm | mm |
| XC6106 | --- | 69 | 1750 | 3500 | ↑ | 12 - 50 | 12 - 55 | 0 - 55 | 111 | 69 | 80 | 81,5 | 43 | 40 |
| XC6108 | --- | 85 | 2750 | 5500 | | 18 - 60 | 18 - 75 | 0 - 75 | 152 | 85 | 103,5 | 103,5 | 50 | 47 |
| XC6110 | XC7110 | 107 | 5500 | 11000 | | 28 - 75 | 28 - 95 | 0 - 95 | 178 | 107 | 126 | 127,5 | 62 | 58 |
| XC6113 | XC7113 | 133 | 8500 | 17000 | | 40 - 95 | 40 - 110 | 0 - 110 | 213 | 133 | 152 | 156 | 76 | 74 |
| XC6115 | XC7115 | 152 | 13500 | 27000 | | 50 - 110 | 50 - 130 | 0 - 130 | 240 | 152 | 178 | 181 | 90 | 87 |
| XC6117 | XC7117 | 179 | 22000 | 44000 | | 60 - 130 | 60 - 155 | 55 - 155 | 280 | 179 | 208 | 209 | 105 | 101 |
| XC6120 | XC7120 | 209 | 35000 | 70000 | | 70 - 155 | 70 - 180 | 65 - 180 | 318 | 209 | 245 | 245,5 | 120 | 113 |
| XC6123 | XC7123 | 234 | 43000 | 86000 | On request | 85 - 170 | 85 - 200 | 80 - 200 | 346 | 234 | 270 | 274 | 135 | 129 |
| XC6125 | XC7125 | 254 | 68000 | 136000 | | 95 - 190 | 95 - 230 | 90 - 230 | 389 | 254 | 305 | 307 | 150 | 150 |
| XC6127 | XC7127 | 279 | 82000 | 164000 | | 110 - 210 | 110 - 250 | 100 - 250 | 425 | 279 | 330 | 334,5 | 175 | 175 |
| XC6130 | XC7130 | 305 | 150000 | 300000 | | 120 - 230 | 120 - 280 | 120 - 280 | 457 | 305 | 362 | 366 | 190 | 190 |
| XC6135 | XC7135 | 355 | 195000 | 390000 | ↓ | 130 - 270 | 130 - 330 | 150 - 330 | 527 | 355 | 419 | 423 | 220 | 220 |

| Identifier | | Size | $E_{min}$ | L | $L_6$ | $L_{7min}$ | $S_D$ | $\Delta K_r$ | $\Delta K_w$ | J | $V_{GR}$ | $Gw_{sb}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ZCAF | ZCBF | | mm | mm | mm | mm | mm | mm | degree | $10^{-3}kgm^2$ | $dm^3$ | kg |
| XC6106 | --- | 69 | 99 | 179 | 43,5 | 86 | 30 | ↑ | 2 x 0,5 | ↑ | 2 x 0,035 | ↑ |
| XC6108 | --- | 85 | 119 | 213 | 50,5 | 100 | 37 | | 2 x 0,5 | | 2 x 0,040 | |
| XC6110 | XC7110 | 107 | 155 | 271 | 61,5 | 124 | 48 | | 2 x 0,5 | | 2 x 0,065 | |
| XC6113 | XC7113 | 133 | 177 | 325 | 77,5 | 152 | 56 | | 2 x 0,5 | | 2 x 0,110 | |
| XC6115 | XC7115 | 152 | 229 | 403 | 90,5 | 180 | 70 | | 2 x 0,5 | | 2 x 0,190 | |
| XC6117 | XC7117 | 179 | 264 | 466 | 104 | 210 | 79 | | 2 x 0,5 | | 2 x 0,290 | |
| XC6120 | XC7120 | 209 | 304 | 530 | 116,5 | 240 | 92 | | 2 x 0,5 | | 2 x 0,375 | |
| XC6123 | XC7123 | 234 | 344 | 602 | 133 | 270 | 103 | Depends on E | 2 x 0,5 | Depends on E | 2 x 0,625 | Depends on E |
| XC6125 | XC7125 | 254 | 400 | 700 | 154 | 300 | 120 | | 2 x 0,5 | | 2 x 0,960 | |
| XC6127 | XC7127 | 279 | 456 | 806 | 179 | 350 | 136 | | 2 x 0,5 | | 2 x 1,335 | |
| XC6130 | XC7130 | 305 | 500 | 880 | 196 | 380 | 148 | | 2 x 0,5 | | 2 x 1,665 | |
| XC6135 | XC7135 | 355 | 590 | 1040 | 228 | 440 | 174 | ↓ | 2 x 0,5 | ↓ | 2 x 2,500 | ↓ |

- Examine the load capacity of the shaft-hub connection
- Hubs pilot bored, bore diameter 2 mm smaller than smallest finish bore diameter, without intermediate shaft

**To continue see next page**

# Gear Couplings RINGFEDER® TNZ ZCAF / TNZ ZCBF

## Explanation

| | | | | | |
|---|---|---|---|---|---|
| $T_{KN}$ | = Nom. Transmissible torque | $D_1$ | = Outer diameter | $L_6$ | = Length of basic part |
| $T_{Kmax}$ | = Max. transmissible torque of the coupling | $D_2$ | = Outer diameter hub | $L_{7min}$ | = Min. length of the middle connection part |
| $n_{max}$ | = Max. rotation speed | $D_4$ | = Outer diameter hub | $S_D$ | = Disassembly Space |
| $d_{1kmin}$; $d_{3kmin}$; $d_{4kmin}$; | = Min. bore diameter $d_1/d_3/d_4$ with keyway acc. to DIN 6885-1 | $D_6$ | = Diameter | $\Delta K_r$ | = Max. permissible radial misalignment |
| | | $C_1$ | = Guided length in hub bore | $\Delta K_w$ | = Max. permissible angular misalignment |
| $d_{1kmax}$; $d_{3kmax}$; $d_{4kmax}$ | = Max. bore diameter $d_1/d_3/d_4$ with keyway acc. to DIN 6885-1 | $C_3$ | = Guided length in hub bore | J | = Total moment of inertia |
| | | $E_{min}$ | = Min. gap width between left and right component | $V_{GR}$ | = Grease volume |
| | | L | = Total length | $Gw_{sb}$ | = Weight at smallest bore diameter |

## Ordering example

| Identifier | Size | $d_{3k}$ | $d_{4k}$ | Further details |
|---|---|---|---|---|
| XC6127 | 279 | 180 | 230 | * |

*) Without any other specification, we deliver as a standard: keyway acc. to DIN 6885-1, keyway side fit P9, bore tolerance H7; optional with set screw

Further information on
**RINGFEDER® TNZ ZCAF / TNZ ZCBF**
on **www.ringfeder.com**

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