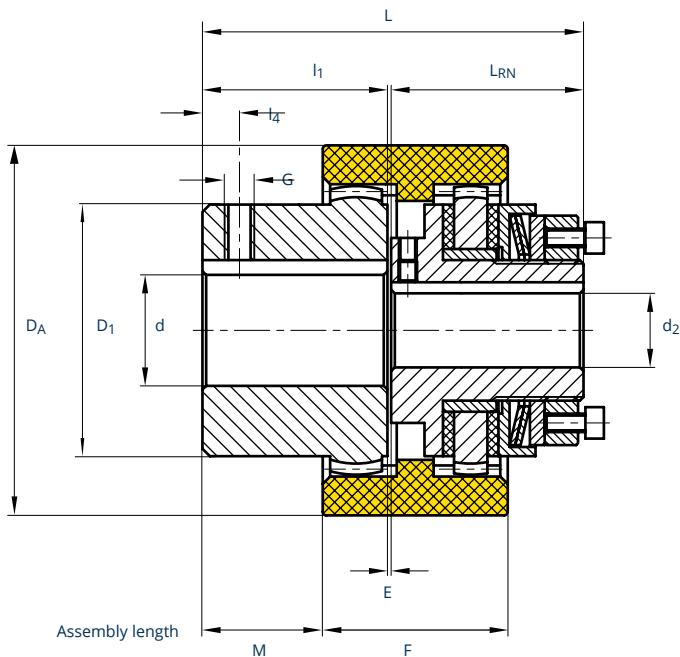


DELTA DA with DELWEX curved-tooth gear coupling



DELWEX – the torsionally rigid coupling compact and maintenance-free

Characteristics of the DELWEX gear shaft coupling

- Double cardanic tooth gear coupling
- Maintenance-free due to the material combination of steel and nylon
- For all applications in the field of general engineering and hydraulics
- Axial plug-in, easy assembly
- Compensates for axial, radial and angular shaft misalignment

Characteristics of the DELWEX-sleeves (material: polyamide)

- High mechanical consistency and rigid
- Favourable slide-friction behaviour
- High thermal stability to +100 °C
- Good viscosity even in case of low temperatures
- Very good electrical insulating properties
- Good resistance to chemicals

| Size torque limiter | Size coupling | Limit torques for overload [Nm] | | | DELWEX Torque [Nm] | | Dimensions [mm] | | | | | | | | | | | | | |
|---------------------|---------------|---------------------------------|----------|-----------|--------------------|-------------------|---------------------|-----------|-------------|-----|----|----------------|----|-----------------|----|----------------|----------------|----|----|---|
| | | Number of disc springs | | | T _{KN} | T _{Kmax} | Bore d ₂ | | Bore d max. | | DA | D ₁ | L | L _{RN} | E | I ₁ | I ₄ | G | M | F |
| DA | DELWEX | single | double | triple | T _{KN} | T _{Kmax} | Pilot bore | Bore max. | | | | | | | | | | | | |
| 00 | 19 | 0,5 – 5 | 1 – 10 | – | 16 | 32 | 3,7 | 10 | 19 | 48 | 30 | 58 | 31 | 2,0 | 25 | 6 | M5 | 7 | 37 | |
| 0 | 28 | 2 – 10 | 4 – 20 | – | 45 | 90 | 5,7 | 20 | 28 | 66 | 44 | 75 | 33 | 2,0 | 40 | 10 | M8 | 19 | 46 | |
| 01 | 38 | 5 – 35 | 10 – 70 | 60 – 90 | 80 | 160 | 10 | 22 | 38 | 83 | 58 | 87,5 | 45 | 2,5 | 40 | 10 | M8 | 18 | 48 | |
| 1 | 48 | 20 – 75 | 40 – 150 | 130 – 200 | 140 | 280 | 10 | 25 | 48 | 100 | 67 | 104,5 | 52 | 2,5 | 50 | 10 | M8 | 27 | 50 | |
| 2 | 65 | 25 – 140 | 50 – 280 | 250 – 400 | 380 | 780 | 14 | 35 | 65 | 140 | 95 | 130 | 57 | 3 | 70 | 20 | M10 | 36 | 72 | |

Technical data

| Type | RPM | Torque [Nm] | | Max. misalignment [mm] | | | |
|------|------|-----------------|------------------------|------------------------|---------|------------|-----------------|
| | | n max. [1/min.] | Normal T _{KN} | Max. T _K | axial L | radial ΔKr | angular ΔKw |
| 14 | 8000 | | 10 | 20 | ± 1 | ± 0,3 | ± 1° per hub |
| 19 | 8000 | | 16 | 32 | | | |
| 24 | 8000 | | 20 | 40 | | | |
| 28 | 8000 | | 45 | 90 | | | |
| 32 | 7000 | | 60 | 120 | | | |
| 38 | 6000 | | 80 | 160 | | | |
| 42 | 5400 | | 100 | 200 | | | |
| 48 | 5000 | | 140 | 280 | | | |
| 55 | 4000 | | 250 | 500 | | | |
| 65 | 3800 | | 390 | 780 | | | |
| 80 | 3000 | | 700 | 1400 | ± 0,6 | ± 0,7 | |
| 100 | 2400 | | 1250 | 2400 | ± 0,7 | ± 0,6 | |
| | | | | | ± 0,8 | ± 0,6 | |

Assembly instructions

On assembly it is important that the hubs are correctly fitted on the shafts and that the dimension E is maintained. The dimension E can be checked by the total assembly length L. An inexact dimension E has a negative influence on the performance of the coupling. Check that axial movement of the coupling sleeve can be effected easily before operating the coupling for the first time. The permissible displacement values are dependent on rotation and transmitted power.

