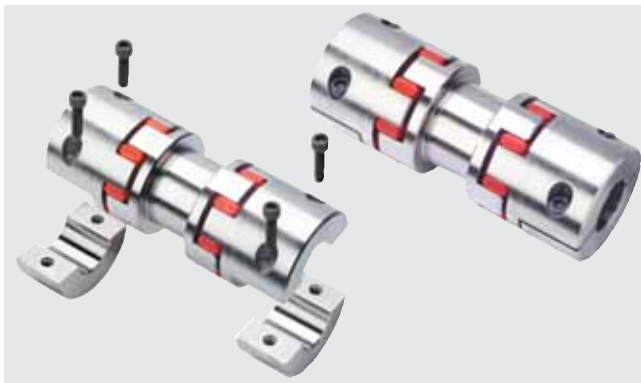


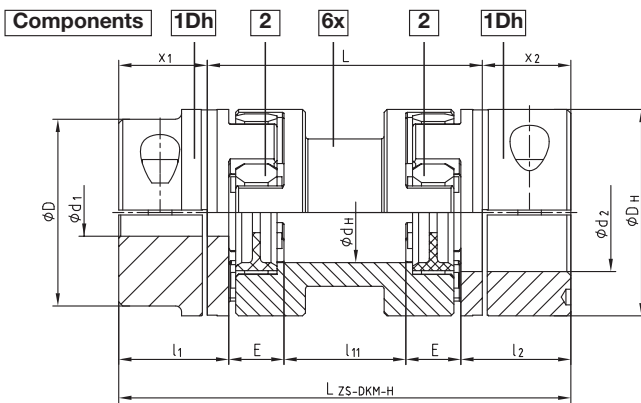
ROTEX® Torsionally flexible couplings

Double cardanic – the innovation in pump design

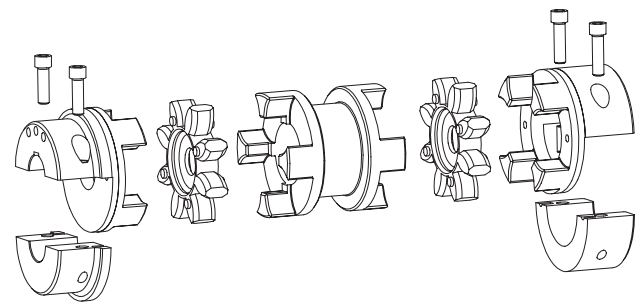
Type ZS-DKM-H



- Standard spacers up to 250 mm shaft distance dimension – ex stock
- Assembly/disassembly through 4 screws only
- Compensates for high shaft displacements due to double-cardanic design
- Remains torsionally symmetric in case of shaft displacements
- Reduced vibration and noise
- Low restoring forces → Increase of the total lifetime of all adjacent components (bearings, seals etc.)
- Finish bore according to ISO fit H7, feather keyway according to DIN 6885 sheet 1 - JS9
- Approved according to EC Standard 94/9/EC (Explosion Certificate ATEX 95) (type 7.6 marked at stock, type 7.5 shell clamping hub without feather key according to category 3)
- Mounting instructions under www.ktr.com



Type ZS-DKM-H



| Size ZS-DKM-H | Dis-mount-able length L [mm] | Finish bored $\varnothing d_1/d_2$ max. [mm] | Spider (part 2) ¹⁾ T_{KN} [Nm] | Dimensions [mm] | | | | | | | Cap screws DIN EN ISO 4762 – 12.9 | | Max. displacements | | | | | Weight ²⁾ [kg] | |
|------------------|------------------------------|--|--|-----------------|-------|------------|------------|----------|----|----------------|--------------------------------------|------------|--------------------|-------------------|-------------|-------------------|-------------|------------------------------|------|
| | | | | D_H | d_H | $l_1; l_2$ | $x_1; x_2$ | l_{11} | E | $L_{ZS-DKM-H}$ | M | T_A [Nm] | Axial [mm] | at n = 1500 1/min | | at n = 3000 1/min | | | |
| | | | | | | | | | | | | | | Radial [mm] | Angular [°] | Radial [mm] | Angular [°] | | |
| 24 | 100 | 28 | 35 | 55 | 27 | 30 | 22,5 | 49 | 18 | 145 | M6 | 14 | 1,4 | 1,17 | 0,87 | 1,40 | 1,40 | 1,40 | |
| | 89 | | | | | | | 185 | | 1,87 | | | | 1,40 | | | | | |
| 28 | 100 | 38 | 95 | 65 | 30 | 35 | 25,5 | 41 | 20 | 151 | M8 | 35 | 1,5 | 1,06 | 0,80 | 1,32 | 1,32 | 1,32 | |
| | 81 | | | | | | | 191 | | 1,76 | | | | 1,32 | | | | | |
| 38 | 100 | 45 | 190 | 80 | 38 | 45 | 35,5 | 33 | 24 | 171 | M8 | 35 | 1,8 | 0,99 | 0,74 | 1,27 | 1,27 | 1,27 | |
| | 73 | | | | | | | 211 | | 1,69 | | | | 1,27 | | | | | |
| 42 | 100 | 55 | 265 | 95 | 46 | 50 | 39,0 | 26 | 26 | 178 | M10 | 69 | 2,0 | 0,91 | 0,68 | 1,20 | 1,20 | 1,20 | |
| | 66 | | | | | | | 218 | | 1,60 | | | | 1,20 | | | | | |
| 48 | 100 | 60 | 310 | 105 | 51 | 56 | 45,0 | 22 | 28 | 190 | M12 | 120 | 2,1 | 0,87 | 0,65 | 1,18 | 1,18 | 1,18 | |
| | 62 | | | | | | | 230 | | 1,57 | | | | 1,18 | | | | | |
| 55 | 100 | 70 | 410 | 120 | 60 | 65 | 50,0 | 10 | 30 | 200 | M12 | 120 | 2,2 | 0,70 | 1,0 | 0,52 | 0,75 | 0,75 | 0,75 |
| | 50 | | | | | | | 240 | | 1,40 | | | | 1,05 | | | | | |
| | 90 | | | | | | | 280 | | 2,09 | | | | 1,57 | | | | | |
| | 110 | | | | | | | 300 | | 2,44 | | | | 1,83 | | | | | |
| 65 | 140 | 80 | 625 | 135 | 68 | 75 | 60,0 | 40 | 35 | 260 | M12 | 120 | 2,6 | 1,31 | 0,98 | 1,50 | 1,50 | 1,50 | 1,50 |
| | 80 | | | | | | | 300 | | 2,00 | | | | 1,50 | | | | | |
| 75 | 140 | 90 | 1280 | 160 | 80 | 85 | 67,5 | 25 | 40 | 275 | M16 | 295 | 3,0 | 1,13 | 0,85 | 1,37 | 1,37 | 1,37 | 1,37 |
| | 65 | | | | | | | 315 | | 1,83 | | | | 1,37 | | | | | |
| | 85 | | | | | | | 335 | | 2,19 | | | | 1,64 | | | | | |
| | 135 | | | | | | | 385 | | 3,05 | | | | 2,29 | | | | | |
| 90 | 180 | 110 | 2400 | 200 | 100 | 100 | 81,5 | 53 | 45 | 343 | M20 | 580 | 3,4 | 1,71 | 1,28 | 1,28 | 1,28 | 1,28 | 1,28 |
| | 123 | | | | | | | 413 | | 2,93 | | | | 2,19 | | | | | |

1) Maximum torque of coupling $T_{Kmax.}$ = nominal torque of coupling $T_{KN} \times 2$
 Size 24 to 75 spider type 95/98 Sh A-GS; at size 90 spider type 95 Sh A with inner ring
 ZS-DKM-H: transmittable torque according to 92 Sh A-GS

2) Refer to max. bore

ATTENTION: The standard line is only for the horizontal assembly. Vertical assembly on request.

Order form:

| ROTEX®-38 | ZS-DKM-H | 140 | 98 | Ø 38 | Ø 30 |
|---------------|----------|----------------------------|---------------------------|-------------------------------|-------------------------------|
| Coupling size | Type | Shaft distance dimension L | Spider hardness [Sh A-GS] | Finish bore $\varnothing d_1$ | Finish bore $\varnothing d_2$ |