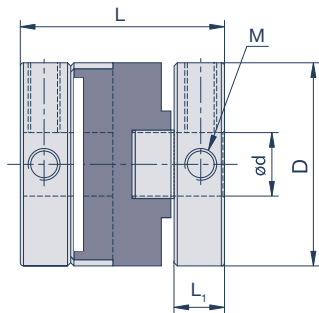


Oldham-Coupling ZOS-A | Aluminium

Compact set screw version



Specifications

Size	D mm	L mm	L ₁ mm	M	T _A Nm	max. rpm min ⁻¹	T _{KN} Nm	C _T Nm/rad	g g	Misalignment			
										angular	radial _{nenn} mm	radial _{max} mm	axial mm
ZOS6-A	5,9	8,4	2,5	M2	0,3	4.500	0,2	5	0,5	1,5	0,1	0,5	0,05
ZOS8-A	7,9	9,8	2,5	M2	0,3	4.500	0,5	10	0,9	1,5	0,1	0,7	0,05
ZOS10-A	9,9	10,4	2,9	M2	0,3	4.500	0,7	25	1,7	1,5	0,1	0,9	0,05
ZOS12-A	11,9	14,5	3,9	M3	0,7	4.500	0,9	55	3	1,5	0,2	1	0,05
ZOS16-A	16	18	4,7	M3	0,7	4.500	1	65	7	1,5	0,2	1	0,1
ZOS20-A	20	20	5,1	M4	1,7	4.500	1,5	120	12	1,5	0,2	1,5	0,1
ZOS25-A	25,5	25,7	6,9	M4	1,7	4.500	2,5	200	24	1,5	0,2	2	0,1
ZOS32-A	32	32	8	M5	4	4.500	7	620	41	1,5	0,2	2,5	0,15
ZOS53-A	53	58,3	19,5	M6	7	4.500	20	1.400	228	1,5	0,25	3,2	0,15
ZOS70-A	73	75,5	25	M8	15	3.000	65	5.000	567	1,5	0,4	3,5	0,2

M= Screw size, T_A= Tightening torque, T_{KN}= Nominal torque, C_T= Torsional stiffness, g= Mass
radial_{nenn}= Values for misalignments apply at a speed of 3.000 rpm. The values guarantee backlash-free function over the entire service life.
radial_{max}= Max. permissible values at slow speed or in step or cycle operation.

Bore diameters

Size	d (mm)																			
	1	2	3	4	5	6	8	10	12	14	15	16	18	19	20	22	24	25	28	30
ZOS6-A	•	•																		
ZOS8-A	•	•	•																	
ZOS10-A		•	•	•																
ZOS12-A			•	•	•															
ZOS16-A			•	•	•	•														
ZOS20-A				•	•	•	•													
ZOS25-A					•	•	•	•												
ZOS32-A						•	•	•	•	•	•									
ZOS53-A								•	•	•	•	•	•	•	•	•	•	•	•	•
ZOS70-A											•	•	•	•	•	•	•	•	•	•

Ordering example:

Hub ZOS25 ø8, Hub ZOS25 ø10,
Transmission disc OM25-AT (Material Acetal)
Oldham-Coupling Size 25, Bore 8 and 10



Various technical parameters play a decisive role in the selection of the Oldham coupling. Parameters such as maximum speeds, occurring shaft misalignments and drive torque should be taken into account. The required coupling size can be roughly calculated using the following formula:

$$T_{KN} > T_A \times C_B$$

The nominal torque T_{KN} of the selected coupling size should be greater than the drive torque T_A in Nm (obtained from the manufacturer's specification of the drive motor) multiplied by the service factor of the application.

Load duration and resulting operating factor

	Short-term load	1 hour per day	3 hour per day	6 hour per day	All-day
Factor C_B	1,0	1,5	2,0	3,0	4,0

Please note the maximum permissible bore diameter and the corresponding displacement capacity for the selected coupling size. These can be found in the table for the corresponding coupling size.

General technical specifications

Material

Hubs MOCT/MOST-A: High-strength aluminium 3.4365 AlZn5.5MgCu oder 3.1355 AlCuMg2 corrosion-protected anodised

Hubs ZOC/ZOS-A: High-strength aluminium EN AW-2024-AlCu4Mg1 additionally corrosion-protected anodised

Hubs GOC-SS: 1.4305 X10CrNiS18-9 Finish: Electropolished

Transmission discs: Polyacetal, PEEK, Vespel (polyimide)

Clamping screws: EN ISO 4762/DIN 912 12.9

Set screws: EN ISO 4029/DIN 916

Clamping screws: DIN 912 A2

Temperature range

Acetal: -25°C bis +70°C

PEEK: -20°C bis +120°C

Vespel: -20°C bis +200°C

„briefly and concisely ...
explained“

OUR PICTOGRAMS



High temperature resistance



Vibration damping



Axially pluggable



High radial misalignment



Backlash-free



Torsionally rigid



High angular misalignment



High speeds



Electrically insulating



Corrosion resistant