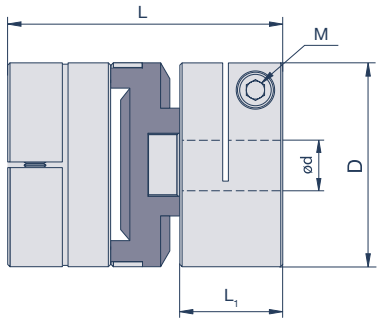
Oldham-Coupling MOCT-A | Aluminium

Clamping hub 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 °	Misalignment $radial_{nenn}$ mm	Misalignment $radial_{max}$ mm	Misalignment axial mm
MOCT16-A	16	23,6	10,34	M2,6	1	4.500	1	65	10	0,5	0,2	1	0,1
MOCT19-A	19,1	25,4	9,7	M2,5	1,21	4.500	2,25	150	13	0,5	0,2	1,91	0,1
MOCT25-A	25,4	31,8	11,9	M3	1,7	4.500	4,75	200	31	0,5	0,2	2,54	0,1
MOCT33-A	33,3	47,6	15	M3	1,7	4.500	8	720	74	0,5	0,2	3,33	0,15
MOCT41-A	41,3	50,8	18	M4	3,5	4.500	14,75	850	142	0,5	0,25	4,13	0,15
MOCT51-A	50,8	59,7	20,8	M5	8	4.500	28,5	1.300	208	0,5	0,25	5,08	0,2
MOCT57-A	57,2	78,7	78,7	M6	13	4.500	42,5	2.150	361	0,5	0,25	5,72	0,2
MOCT70-A*	73	81,5	28,7	M8	30	3.000	65	2.250	670	1	0,4	5	0,2
MOCT90-A*	88	97	33,5	M10	50	2.800	105	2.500	1.240	1	0,5	7	0,4
MOCT120-A*	118	138	40,5	M12	90	2.500	200	6.300	2.600	1	0,6	7	0,6

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)																						
	3	4	5	6	8	10	12	14	15	16	18	19	20	22	24	25	28	30	32	35	40	45	50	60
MOCT16-A	•	•	•	•																				
MOCT19-A		•	•	•	•																			
MOCT25-A				•	•	•	•																	
MOCT33-A					•	•	•	•	•	•														
MOCT41-A						•	•	•	•	•	•	•	•											
MOCT51-A							•	•	•	•	•	•	•	•	•	•								
MOCT57-A								•	•	•	•	•	•	•	•	•	•	•						
MOCT70-A*									•	•	•	•	•	•	•	•	•	•	•	•	•			
MOCT90-A*									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
MOCT120-A*																•	•	•	•	•	•	•	•	•

**MOCT70, MOCT90, MOCT120 have transmission disc with through-hole (ø35,3; ø40,5; ø50,5)

Ordering example:
Hub MOCT16-3-A, Hub MOCT16-5-A,
Transmission disc OD16-AT (Material Acetal)
Oldham-Coupling Size 16, Bore 3 and 5

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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

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