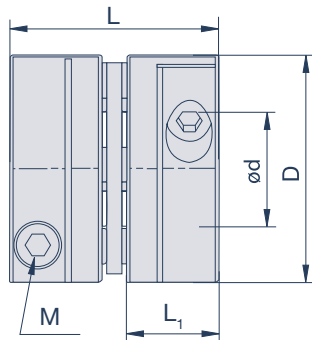


CD Kuplung 6A-A1C | Aluminium

Clamping hub version, single cardanic



Specifications

Size	D mm	L mm	L ₁ mm	M	T _A Nm	max. rpm min ⁻¹	T _{KN} Nm	T _{Kmax} Nm	C _T Nm/rad	g	Misalignment		
											angular °	radial mm	axial mm
6A18-A1C	53	50,5	22,5	M6	13	15.000	20	40	11.650	0,2	2	0,1	0,8
6A22-A1C	62	57,7	26	M6	13	13.500	30	60	17.352	0,33	2	0,15	0,9
6A26-A1C	69,5	65,2	29,5	M8	32	11.500	53	106	20.100	0,46	2	0,2	1,1
6A30-A1C	82	74,7	32,5	M10	58	9.500	90	180	42.976	0,76	2	0,25	1,3
6A37-A1C	101	103,2	46	M12	100	8.000	181	362	67.167	1,59	2	0,33	1,8
6A45-A1C	123	132,8	60	M16	245	6.700	282	564	123.909	3	2	0,38	2,3

M= Screw size, T_A= Tightening torque, T_{KN}= Nominal torque, T_{Kmax}= Maximum coupling torque, C_T= Torsional stiffness, g= Mass

Bore diameters

Size	d (mm)																			
	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48
6A18-A1C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6A22-A1C					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6A26-A1C			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6A30-A1C					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6A37-A1C						•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6A45-A1C										•	•	•	•	•	•	•	•	•	•	•

Ordering example:

6A18-A1C ø14 ø16

CD Kuplung Size 18, Bore 14 and 16



Various technical parameters play a decisive role in the selection of the CD clutch. 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:

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

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

For servo applications, it should be noted that the acceleration torque of these servomotors is many times higher than their rated torque. The design is based on the highest peak torque to be regularly transmitted on the drive side (for servomotors, this is e.g. the maximum acceleration torque or tilting moment in Nm).

Shock factor C_s

	Uniform movement	Light shocks	Medium shocks	Heavy shocks
Factor C_s	1,0	1,5	2,0	2,5

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. The shaft misalignment values specified in the catalogue are maximum values. In the case of combined misalignments, these must be adjusted so that the sum of the actual misalignments does not exceed 100 %.

General technical specifications

Material

Aluminium: High-strength aluminium alloy AlZn5.5MgCu additionally anodised to protect against corrosion

Steel: 1.0736 (11SMn37), burnished

Blades: Glass fibre reinforced composite material

Clamping screws: DIN 912 12.9

Temperature range

-55°C bis +120°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