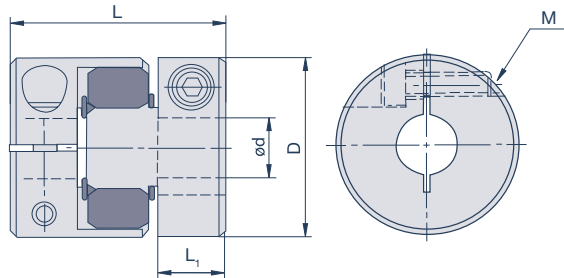


Jawflex ZJC | Aluminium compact, Shore hardness 64D

Compact Clamping hub version



Specifications

Size	D mm	L mm	L ₁ mm	S mm	M	T _A Nm	max. rpm min ⁻¹	T _{KN} Nm	T _{Kmax} Nm	C _T Nm/rad	g g	Misalignment		
												angular °	radial mm	axial mm
ZJC30-R	30	35,3	11,3	1,2	M4	3,5	10.000	16	32	220	50	1	0,06	1
ZJC40-R	40	55	19,5	2	M5	8	8.500	21	42	2.500	135	1	0,04	1,2
ZJC55-R	55	59,3	20,8	2	M6	13	4.000	75	150	6.000	280	1	0,06	1,4
ZJC65-R	65	63,3	21,8	2,5	M8	30	3.500	180	360	10.000	400	1	0,08	1,5
ZJC80-R	80	87,2	31,7	3	M10	50	3.000	380	760	14.000	860	1	0,08	1,5
ZJC100-R	104	96,2	34,2	3,5	M12	90	3.000	600	1.200	40.000	1.700	1	0,1	2

M= Screw size, T_A= Tightening torque, T_{KN}= Nominal torque, T_{Kmax}= Maximum coupling torque, C_T= Torsional stiffness, g= Mass
 ZJC40-R: 2 clamping screws 180° per hub

Bore diameters

Size	d (mm)																					
	3	4	5	6	8	9	10	11	12	14	15	16	18	20	22	24	25	28	30	32	35	40
ZJC30-R				•	•	•	•	•	•													
ZJC40-R					•	•	•	•	•	•	•	•	•									
ZJC55-R									•	•	•	•	•	•	•	•	•	•				
ZJC65-R										•	•	•	•	•	•	•	•	•	•	•	•	•
ZJC80-R											•	•	•	•	•	•	•	•	•	•	•	•
ZJC100-R														•	•	•	•	•	•	•	•	•

Spiders JM30 to JM100 are available with a through hole if required. Please specify this by adding TH to the order code.
 Example: JM30-R-TH

Ordering example:

Hub ZJC30 ø10, Hub ZJC30 ø12, Spider JM30-R (red spider)
 Jawflex ZJC Size 30, Bore 10 and 12, Shore hardness 64D



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

$$T_{KN} > T_A \times C_T \times C_S \times (C_D)$$

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

If a high torsional stiffness is required in applications, a torsional stiffness factor (C_D) should also be taken into account in the formula when selecting the size. This multiplication factor is between 2 and 5 for main spindle drives of machine tools, for example.

Temperature factor C_T

Operating temperature	-30°C bis +30°C	+60°C	+80°C	+100°C	+120°C
Factor C_T	1	1,2	1,3	1,6	2,0

For temperatures > 120°C, we recommend the use of all-metal couplings from our company (e.g. Diskflex or Beamflex)

Shock factor C_S

	Light shocks or up to 60 starts per minute	Medium shocks or up to 300 starts per minute	Heavy shocks or > 300 starts per minute
Factor C_S	1,0	1,3	1,6

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 clutch size.

General technical specifications

Material

Sprockets: Hytrel*, either hardness 98Sh-A (green) or hardness 64Sh-D (red), resistant to pure mineral oils such as lubricating oils and anhydrous greases.

Hubs: High-strength aluminium in accordance with EN AW-2024 AlCu4Mg1, additionally anodised to protect against corrosion;

Hubs: Steel additionally nickel-plated with corrosion protection (Heavy Duty series)

Clamping screws: EN ISO 4762/DIN 912 12.9

Set screws: EN ISO 4029/DIN 916

*Hytrel is a registered trademark of E.I. du Pont de Nemours and Company

Temperature range

-30°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