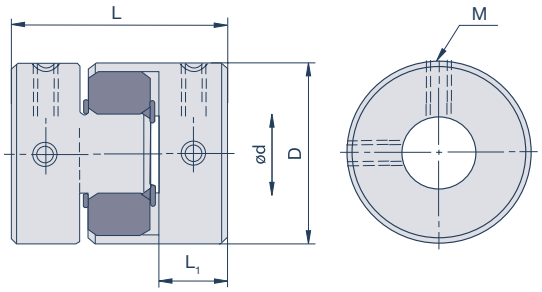
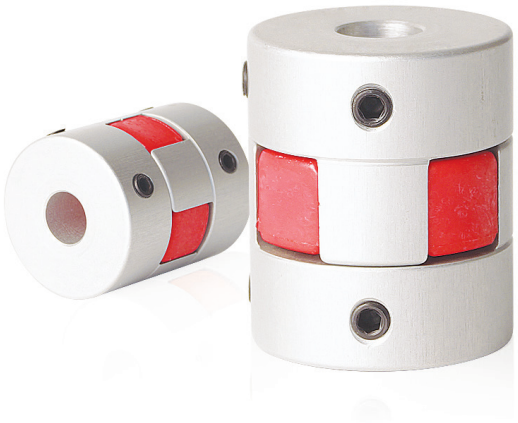
Jawflex ZJS | Aluminium compact, Shore hardness 64D

Compact set screw version





Specifications

Size	D	L	L_1	S	M	T_A	max. rpm	T_{KN}	T_{Kmax}	C_T	g	Misalignment		
	mm	mm	mm	mm		Nm	min^{-1}	Nm	Nm	Nm/rad	g	angular °	radial mm	axial mm
ZJS30-R*	30	35,3	11,3	1,2	M4	1,7	13.000	16	32	220	46	1	0,06	1
ZJS40-R**	40	55	19,5	2	M5	4	9.600	21	42	2.500	132	1	0,04	1,2

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)																							
	3	4	5	6	8	9	10	11	12	14	15	16	18	20	22	24	25	28	30	32	35	40	45	50	60
ZJS30-R*				•	•	•	•	•	•	•															
ZJS40-R**					•	•	•	•	•	•	•	•	•												

*ZJS30 is optionally available with groove to DIN 6885/1.

**ZJS40 is supplied with a groove to DIN 6885/1 as standard. Please add the suffix kw after the respective hole.
Example: ZJS40 hub ø16kw.

Spiders JM30 to JM40 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 ZJS30 ø10, Hub ZJS30 ø12, Spider JM30-R (red spider)
Jawflex 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