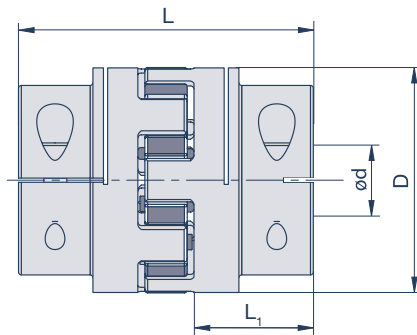


Jawflex GJC HeavyDuty | Nickel-plated steel, Shore hardness 64D

Clamping hub version



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 kg	Misalignment		
											angular °	radial mm	axial mm
GJC120-R	120	160	65	M12	115	3.150	740	1.480	90.000	7,39	0,8	0,11	-1,0 - +2,2
GJC135-R	135	185	75	M12	115	2.800	1.050	2.100	100.000	9,9	0,8	0,12	-1,0 - +2,6
GJC160-R	160	210	85	M16	280	2.350	2.100	4.200	150.000	16,3	0,8	0,14	-1,5 - +3,0

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

Bore diameters

Modell	d (mm)													
	32	35	38	40	42	45	48	50	55	60	65	70	80	
GJC120-R	•	•	•	•	•	•	•	•	•	•	•			
GJC135-R		•	•	•	•	•	•	•	•	•	•	•		
GJC160-R					•	•	•	•	•	•	•	•	•	

Ordering example:

Hub GJC135 ø40, Hub GJC135 ø42, Spider JM135-R (red spider)
Jawflex Size 135, Bore 40 and 42, 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