

G-FLEX FLEXIBLE JAW COUPLER

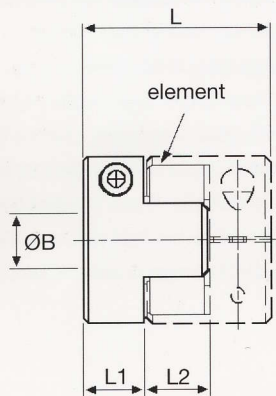
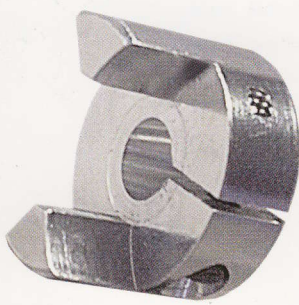


Huco Flexible Jaw Couplers utilise the flexibility and resilience of a polyurethane element between aluminium hubs. This combination allows high torque to be transmitted with little or no backlash, even where there is significant angular and/or parallel shaft misalignment.

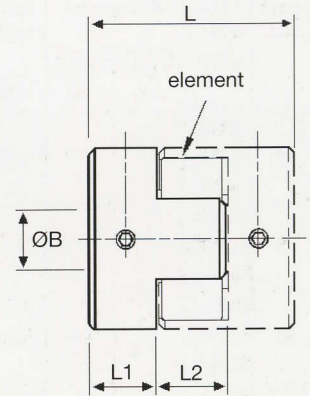
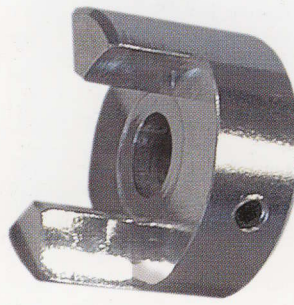
- Zero/Low backlash
- Rated up to 17Nm Torque
- Choice of 3 polyurethane elements



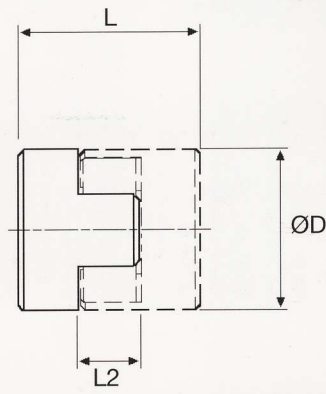
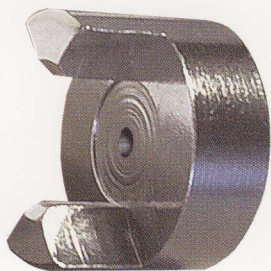
Thro' Clamp hubs



Thro' Set Screw hubs

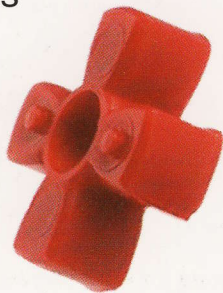


Pilot hubs



User-adaptable for special needs, e.g. fitting within tubes. Blank hubs are supplied centred with no provision for fastening. External dimensions identical with blind hubs. Except size 40 which has 6.35 pilot hole.

Elements



Polyurethane elements are available with three hardness levels; hard, standard and soft which exhibit different operating characteristics. Other features of polyurethane are:

- Resistance to oils, grease and many solvents.
- Good atmospheric and chemical resistance.
- Excellent shock and vibration damping.



MAIN TABLE - DIMENSIONS & ORDER CODES

Coupler Size	Set Screw Style	Clamp Style	Pilot Hub	ØD	L	L1	L2	ØB1 max	Fasteners ²			Moment of inertia kgm ² x 10 ⁻⁸ 3	Mass kg x 10 ⁻³ 3	Soft (Blue)	Med (White)	Hard (Red)
									Screw	Torque Nm	Wrench mm					
HUB REF								1	6				ELEMENT REF			
14	802.14	-	-	14.0	22.0	7.0	8.0	6.35	M3	0.94	1.5	18.4	7.0	804.14	805.14	806.14
	-	803.14	-						M2.5	1.32	2.5					
	-	-	800.14						-	-	-					
20	802.20	-	-	20.0	30.0	10.0	10.0	9.0	M3	0.94	1.5	106.0	17.0	804.20	805.20	806.20
	-	803.20	-						M3	2.43	2.5					
	-	-	800.20						-	-	-					
30	802.30	-	-	30.0	35.0	11.0	13.0	14.0	M4	2.27	2.0	606.0	51.0	804.30	805.30	806.30
	-	803.30	-						M3	2.43	2.5					
	-	-	800.30						-	-	-					
40	802.40	-	-	40.0	66.0	25.0	16.0	16.0	M5	4.62	2.5	4230.0	108.0	804.40	805.40	806.40
	-	803.40	-						M4	5.66	3.0					
	-	-	800.40						-	-	-					

PERFORMANCE (AT 20°C)

Coupler Size	Spider Rigidity Duro ⁷	Misalignment		Speed R.P.M max	Torsional ⁵		Backlash Free Torque Nm	Torque Nominal ⁴ Nm	Torque Max Nm
		Angular deg	Radial mm		Rate deg / Nm	Stiffness Nm / rad			
14	80 Blue	2	0.10	40000	6.7	8.5	0.22	0.67	1.34
	92 White				3.9	14.7		1.12	2.24
	98 Red				2.29	25.0		1.90	3.80
20	80 Blue	2	0.15	28000	3.37	17	0.45	1.80	3.60
	92 White				2.05	28		2.93	6.00
	98 Red				1.22	47		4.85	9.70
30	80 Blue	2	0.20	19000	1.24	71	1.00	3.95	7.90
	92 White				0.40	143		7.33	14.60
	98 Red				0.25	228		12.40	24.80
40	80 Blue	2	0.38	14000	0.34	170	2.40	4.85	9.70
	92 White				0.17	344		9.80	19.60
	98 Red				0.10	573		16.70	33.40

1. Maximum permissible hub penetration
2. Maximum recommended tightening torque
3. Values apply to complete couplings with max. bores
4. Nominal Torque. Select a size where Nominal Torque exceeds application torque x service factor
5. Values apply at 50% nominal torque, measured shaft to shaft with largest standard bores
6. Hubs can be provided with keyways or D'bores
7. Spider Durometer is shore 'A' hardness

STANDARD BORES⁸

Coupler Size	3	3.175	4	4.763	5	6	6.350	8	9.525	10	12	12.700	14	15	15.875	16
14	•	•	•	•	•	•	•									
20			•	•	•	•	•	•								
30						•	•	•	•	•	•	•	•			
40								•	•	•	•	•	•	•	•	•
Bore ref.	14	16	18	19	20	22	24	28	31	32	35	36	38	40	41	42

SERVICE FACTORS

Duty	Factor
Uniform Load	1.0
Intermittent Load	2.0
Reversing Load	4.0

Materials & Finishes

Hub sizes 14 to 30: Al. Alloy 2024

Hub size 40: Cast Aluminium LM9

Elements: Polyurethane

Temperature Range

-40°C to +80°C For short durations up to 100°C

HOW TO ORDER

Combine the HUB REF in the Main Table with the BORE REF in the Standard Bores Table, e.g.

803.20.22

Hub ref.

Bore ref.

Order elements separately from the Main Table, e.g.

805.20

Element ref.

ORDER 2 HUBS + 1 ELEMENT PER COUPLER