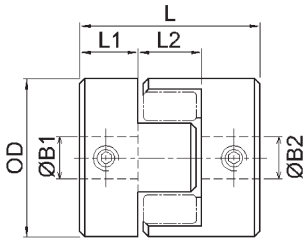
Flex - G Flexible Jaw Coupling

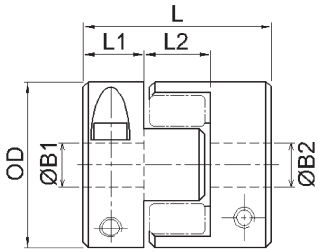
Huco Flexible Jaw Couplings utilise the flexibility and resilience of a polyurethane element between aluminium hubs. This combination allows high torque to be transmitted with little or no back-lash, even where there is significant angular and/or parallel misalignment.

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

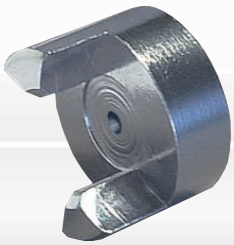
Set Screw Hubs

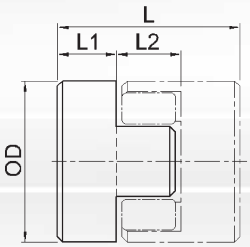


Thro' Clamp Hubs



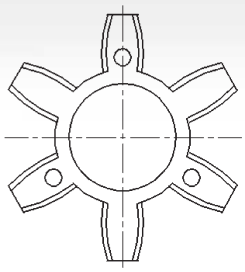
Pilot Hubs

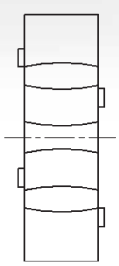




User-adaptable for special needs e.g. fitting within tubes. Blank hubs are supplied centred with no provision for fastening. External dimensions identical with blind hubs. Except size 40 which has 6.35 pilot hole.

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

Flex - G Flexible Jaw Coupling

DIMENSIONS & ORDER CODES

Coupling Size	Set Screw Style	Clamping Style	Pilot Hub	ØD	L	L1	L2	ØB1 max	Fasteners 2		Moment of inertia kgm²	Mass	Soft	Med	Hard
									Screw	Torque			(Blue)	(White)	(Red)
	HUB REF					1		6		Nm	x 10⁻⁸3	x 10⁻³3	ELEMENT REF		
14	802.14	-	-	14.0	22.0	7.0	8.0	6.35	M3	0.94	18.4	7.0	804.14	805.14	806.14
	-	803.14	-						M2.5	1.32					
	-	-	800.14						-	-					
20	802.20	-	-	20.0	30.0	10.0	10.0	9.0	M3	0.94	106.0	17.0	804.20	805.20	806.20
	-	803.20	-						M3	2.43					
	-	-	800.20						-	-					
30	802.30	-	-	30.0	35.0	11.0	13.0	14.0	M4	2.27	606.0	51.0	804.30	805.30	806.30
	-	803.30	-						M3	2.43					
	-	-	800.30						-	-					
40	802.40	-	-	40.0	66.0	25.0	16.0	16.0	M5	4.62	4230.0	108.0	804.40	805.40	806.40
	-	803.40	-						M4	5.66					
	-	-	800.40						-	-					

PERFORMANCE (AT 20ºC)

Coupling Size	Spider Rigidity Duro 7	Misalignment		Speed R.P.M	Torsional 5		Backlash Free Torque	Torque Nominal 4	Torque Max
		Angular deg	Radial mm	max	Rate deg/Nm	Stiffness Nm/rad	Nm	Nm	Nm
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 permissable 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 (*see page 6*)

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 BORES

	+0.03/-0mm															
Coupling 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

Materials & Finishes

Hub sizes 14 - 30: Al. Alloy 2024
Hub size 40: Cast Aluminium LM9
Membranes: Polyurethane
Fastener: Alloy steel, black oiled

Temperature Range

-40ºC to +80ºC
For short durations up to 100ºC