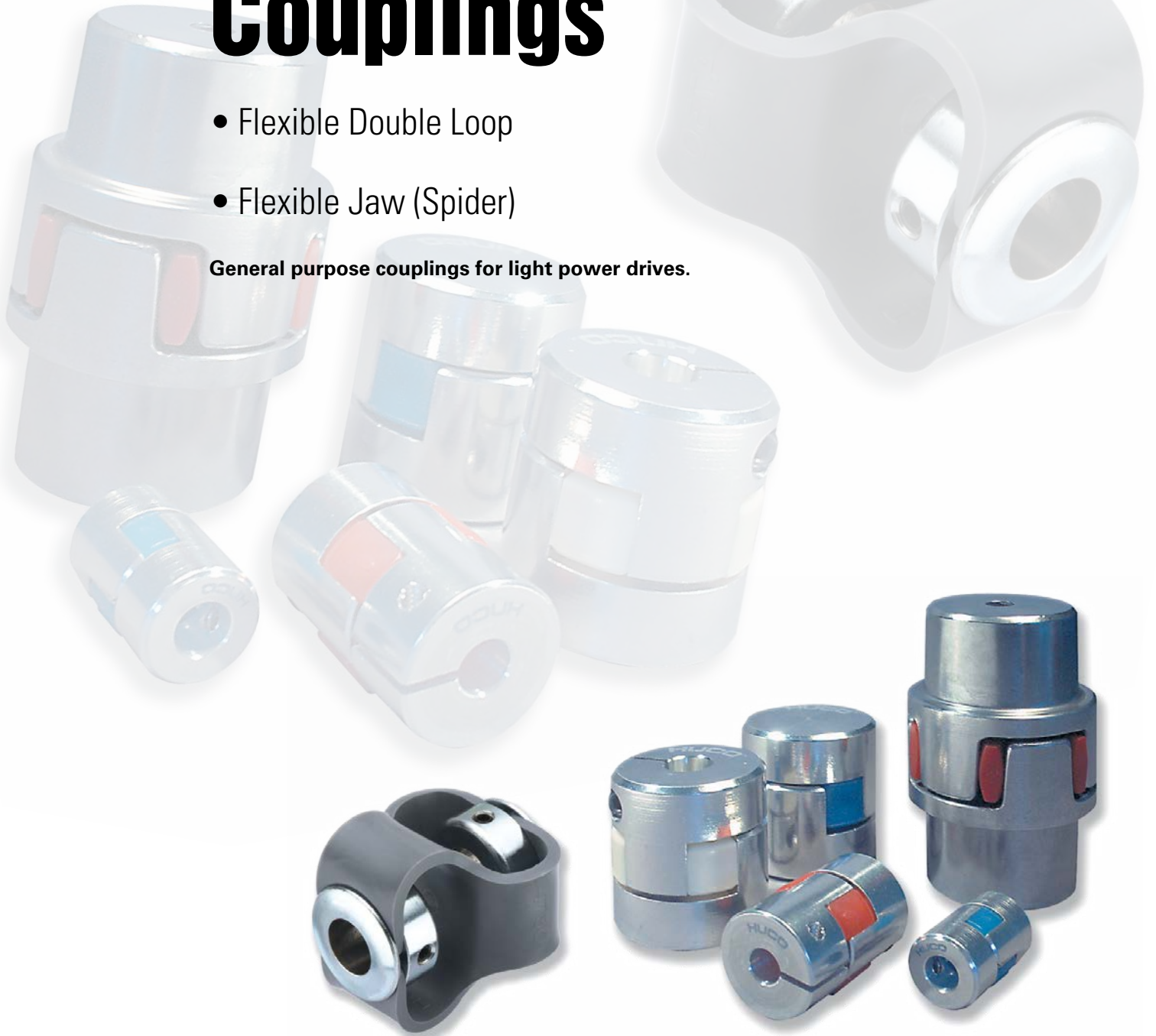




Drive Couplings

- Flexible Double Loop
- Flexible Jaw (Spider)

General purpose couplings for light power drives.



Flex-G

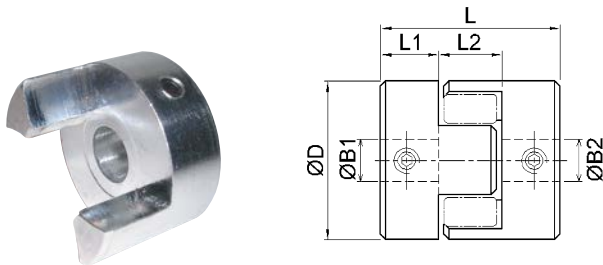
Flexible Jaw Coupling

Huco Flexible Jaw Couplings utilize 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 misalignment.

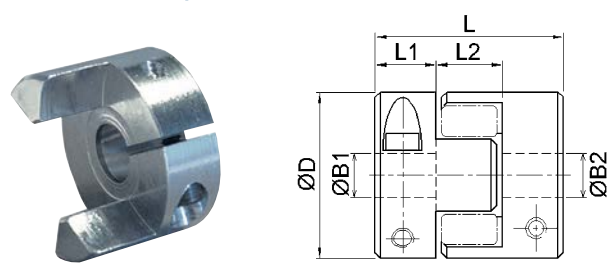
- Zero / Low backlash
- Rated up to 17Nm Torque
- Choice of 3 polyurethane elements



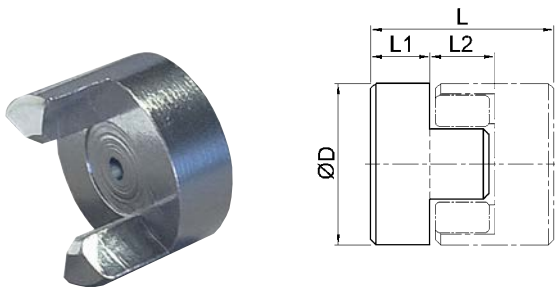
Set Screw Hubs



Thro' Clamp Hubs

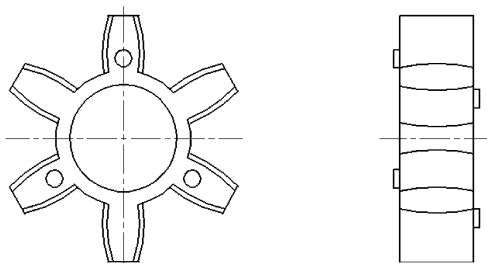


Pilot Hubs



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

Flexible Jaw Coupling

DIMENSIONS & ORDER CODES

Coupling Size	Set Screw Style	Clamping Style	Pilot Hub	ØD in. (mm)	L in. (mm)	L1 in. (mm) ①	L2 in. (mm)	ØB1 max in. (mm) ⑥	Fasteners			Moment of inertia kgm ² x 10 ⁻⁸ ③	Mass kg x 10 ⁻³ ③	Soft (Blue)	Med (White)	Hard (Red)
									Screw	Torque lb.-in. (Nm)	Wrench in. (mm)					
14	802.14	-	-	0.55 (14.0)	0.87 (22.0)	0.28 (7.0)	0.31 (8.0)	0.25 (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	-	-	0.79 (20.0)	1.18 (30.0)	0.39 (10.0)	0.39 (10.0)	0.35 (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	-	-	1.18 (30.0)	1.38 (35.0)	0.43 (11.0)	0.51 (13.0)	0.55 (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	-	-	1.57 (40.0)	2.60 (66.0)	0.98 (25.0)	0.63 (16.0)	0.63 (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)

Coupling Size	Spider Rigidity Duro ⑦	Misalignment		Speed R.P.M max	Torsional ⑤		Backlash Free Torque lb.-in. (Nm)	Torque Nominal lb.-in. (Nm) ④	Torque Max lb.-in. (Nm)
		Angular deg	Radial in. (mm)		Rate deg/Nm	Stiffness Nm/rad			
14	80 Blue	2	.003 (0.10)	40000	6.7	8.5	1.95 (0.22)	5.93 (0.67)	11.9 (1.34)
	92 White				3.9	14.7		9.91 (1.12)	19.8 (2.24)
	98 Red				2.29	25.0		16.8 (1.90)	33.6 (3.80)
20	80 Blue	2	.006 (0.15)	28000	3.37	17	3.98 (0.45)	15.9 (1.80)	31.9 (3.60)
	92 White				2.05	28		25.9 (2.93)	53.1 (6.00)
	98 Red				1.22	47		42.9 (4.85)	85.9 (9.70)
30	80 Blue	2	.008 (0.20)	19000	1.24	71	8.85 (1.00)	35.0 (3.95)	69.9 (7.90)
	92 White				0.40	143		64.9 (7.33)	129.2 (14.60)
	98 Red				0.25	228		109.8 (12.40)	219.5 (24.80)
40	80 Blue	2	0.38	14000	0.34	170	21.2 (2.40)	42.9 (4.85)	85.9 (9.70)
	92 White				0.17	344		86.7 (9.80)	173.5 (19.60)
	98 Red				0.10	573		147.8 (16.70)	295.6 (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 (**see page 4**)
- 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

Sizes indicated in parenthesis are metric (mm).

ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)																
Coupling Size	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)	1/2"	(14)	(15)	5/8"	(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

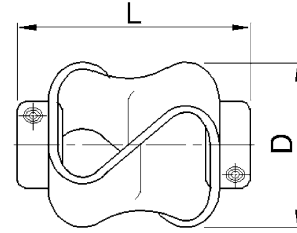
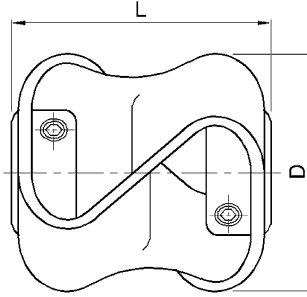
Temperature Range

-40°F to +176°F (-40°C to +80°C)
 For short durations up to 202°F (100°C)

Note: Larger sizes available. Please ask for details.

Flex-P

Double Loop Flexible Coupling



DIMENSIONS & ORDER CODES

Size	Steel zinc plated hubs	Stainless steel hubs	Dimensions					Fasteners		
	Order Code		Max Diameter in. (mm)	Length L in. (+/- 1.0 mm)	Bore length in. (mm)	Max Bores	Mass kg x 10-3	Size	Torque lb.-in. (Nm)	A/F in. (mm)
10	047.10	-	1.06 (27)	1.06 (27)	0.31 (7.9)	9.53	25	M3	8.32 (0.94)	0.17 (1.5)
	-	049.10							.036 (0.32)	
20	047.20	-	1.89 (48)	1.89 (48)	0.50 (12.7)	12.7	92	M4	0.26 (2.27)	0.23 (2.0)
	-	049.20							0.23 (2.0)	
30	047.30	-	2.13 (54)	2.17 (55)	0.63 (16.0)	16.0	124	M5	0.52 (4.62)	0.28 (2.5)
	-	049.30							0.24 (2.1)	
40	047.40	-	2.20 (56)	2.20 (56)	0.63 (16.0)	16.0	136	M6	0.86 (7.61)	0.34 (3.0)
	-	049.40							0.43 (3.75)	

PERFORMANCE

Size	Max Torque 1 lb.-in. (Nm)	Max Torque 2 lb.-in. (Nm)	max misalignment/displacement		
			Angular deg	Radial in. (mm)	Axial in. (+/- mm)
10	4.43 (0.5)	7.08 (0.8)	10	0.10 (2.6)	0.18 (4.5)
20	15.9 (1.8)	26.6 (3)	15	0.13 (3.2)	0.30 (7.5)
30	44.3 (5)	70.8 (8)	15	0.13 (3.2)	0.33 (8.5)
40	88.5 (10)	159.3 (18)	15	0.13 (3.2)	0.43 (11)

Torque 1 = torque at maximum displacement

Torque 2 = torque at 1 deg. angular, 2mm axial and 0.5mm radial displacement

Materials & Finishes

- Hubs:** Steel 230M07 pb Zn plated + clear passivate or
Stainless Steel 303 S31 natural finish
- Flexing Element:** Hytrel
- Fastener:** Steel Hub: Alloy steel, black oiled
Stainless Steel Hub: stainless steel

Temperature Range

-40°F to +212°F (-40°C to +100°C)

Maximum Rotational Speed

3000 rev/min

STANDARD BORES*

Sizes indicated in parenthesis are metric (mm).

Size	ØB1, ØB2 +0.002/ -0 (+0.05mm/-0mm)																
	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	5/16"	(8)	3/8"	(10)	(12)	1/2"	(14)	(15)	5/8"	(16)
10	•	•	•	•	•	•	•	•	•	•							
20						•	•	•	•	•	•	•	•				
30										•	•	•	•	•	•	•	•
40										•	•	•	•	•	•	•	•
Bore Ref	14	16	18	19	20	22	24	27	28	31	32	35	36	38	40	41	42

* Couplings with dissimilar bores are non-standard