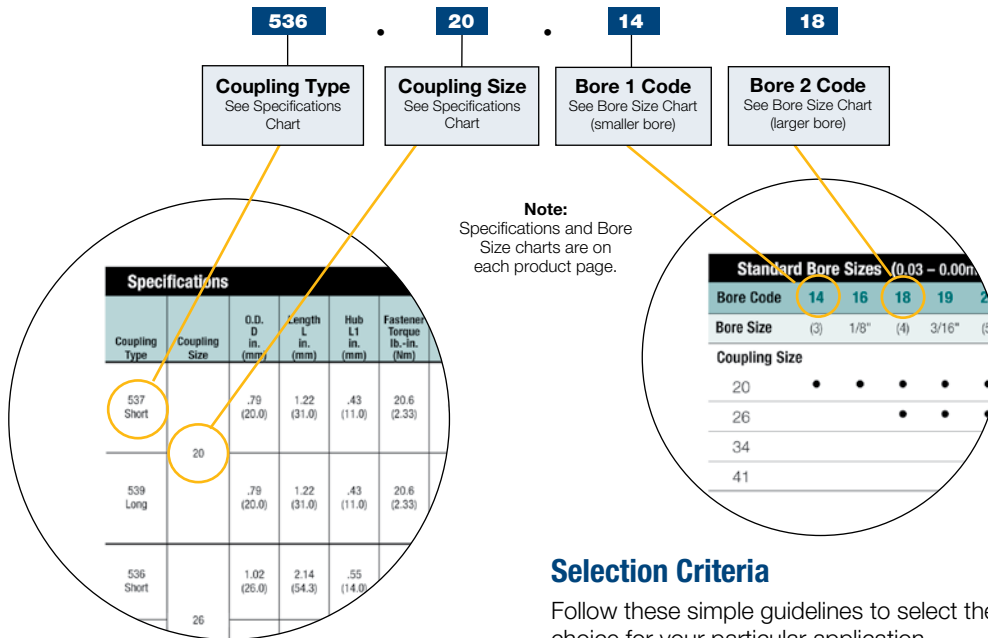


Selecting Flexible Couplings

Building an Ordering Part Number is fast and easy using the Specifications and Bore Size charts on each product page. Simply select the coupling type, coupling size and two bore sizes you require (always place smaller bore first). Always include (.) in Part Number.

Ordering Number System **Example: 536.20.1418**



The following key factors should always be considered when specifying flexible shaft couplings:

- Torsional Stiffness
- Backlash
- Torque
- Life
- Shaft Attachment Type
- Misalignment Requirements

Service Factors

- Torque capacity values shown in the coupling specification charts assume uniform load conditions at a constant speed with no misalignment or axial displacement. See page 48 to provide adequate service factors.
- The torque capacity of flexible couplings will reduce when acceleration is present (eg: stop/start or reverse conditions).
- The more severe the acceleration, the greater reduction in torque capacity.
- The more severe the misalignment, the greater reduction in torque capacity.
- Sliding couplings (Oldham and UniLat) are subject to a wear rate dependant on the number of cycles completed and environmental factors.

Selection Criteria

Follow these simple guidelines to select the optimal coupling choice for your particular application.

- Does the coupling provide adequate misalignment protection?
- Can it transmit the required torque?
- Can it sustain the required rotational speed?
- Will it fit in the available space envelope?
- Can it operate at the designated ambient temperature?
- Will it provide the torsional stiffness required for positional accuracy?
- Does it provide electrical isolation between the shafts?
- Will it provide the required life expectancy?
- Is axial motion or axial stiffness required?

	Load				
	Steady State	Stop/Start	Reversing	Shock	Shock & Reversing
Huco Flex B	1.5	2.0	2.0	3.0	4.0
Huco Flex K	1.5	2.0	2.0	3.0	4.0
Huco Flex M	1.5	2.0	2.0	3.0	4.0
Huco Flex Ni	1.0	2.0	2.0	3.0	4.0
Huco Flex P	1.0	1.5	1.5	3.0	4.0
Huco Flex G	1.0	2.0	4.0	4.0	4.0
Huco MultiBeam	1.0	1.5	2.0	(Note 1)	(Note 1)
Huco S-Beam	1.0	1.5	2.0	(Note 1)	(Note 1)
Huco TorqLink	1.0	1.5	2.0	(Note 1)	(Note 1)
Duty (Hours/Day)					
	<1	1-2	3-5	6-12	>12
Huco Oldham	1.0	2.0	4.0	6.0	8.0
Huco Flex-B	1.0	1.5	2.0	3.0	4.0
Uni-Lat	1.0	1.5	2.0	3.0	4.0

* Note 1 - Not recommended in these conditions.

Selecting Flexible Couplings

Round & Keywayed Bore Details & Codes

Metric mm	Inch fraction	Inch decimal	Round bore code	Metric keys key size w x h	Inch keys key size w x h	Keywayed bore code
1	–	0.0394	08	–	–	–
1.5	–	0.0591	09	–	–	–
1.588	1/16	0.0625	10	–	–	–
2	–	0.0787	11	–	–	–
2.286	–	0.0900	12	–	–	–
2.382	3/32	0.0938	13	–	–	–
3	–	0.1181	14	–	–	–
3.048	–	0.1200	15	–	–	–
3.175	1/8	0.1250	16	–	–	–
*3.969	5/32	0.1563	–	–	–	–
4	–	0.1575	18	–	–	–
4.763	3/16	0.1875	19	–	–	–
5	–	0.1969	20	–	–	–
5.556	7/32	0.2188	21	–	–	–
6	–	0.2362	22	–	–	–
6.096	–	0.2400	23	–	–	–
6.350	1/4	0.2500	24	–	–	–
7	–	0.2756	25	2 x 2	–	P25
7.144	9/32	0.2813	26	–	–	–
7.938	5/16	0.3125	27	–	1/8 x 1/8	R27
8	–	0.3150	28	2 x 2	–	P28
8.731	11/32	0.3438	29	–	1/8 x 1/8	R29
9	–	0.3543	30	3 x 3	–	P30
9.525	3/8	0.3750	31	–	1/8 x 1/8	R31
10	–	0.3937	32	3 x 3	–	P32
11	–	0.4331	33	4 x 4	–	P33
11.113	7/16	0.4375	34	–	1/8 x 1/8	R34
12	–	0.4724	35	4 x 4	–	P35
12.700	1/2	0.5000	36	–	1/8 x 1/8	R36
13	–	0.5118	37	5 x 5	–	P37
14	–	0.5512	38	5 x 5	–	P38
14.288	9/16	0.5625	39	–	3/16 x 3/16	R39
15	–	0.5906	40	5 x 5	–	P40
15.875	5/8	0.6250	41	–	3/16 x 3/16	R41
16	–	0.6299	42	5 x 5	–	P42
17	–	0.6693	43	5 x 5	–	P43
17.463	11/16	0.6875	44	–	3/16 x 3/16	R44
18	–	0.7087	45	6 x 6	–	P45
19	–	0.7480	46	6 x 6	–	P46
19.050	3/4	0.7500	47	–	3/16 x 3/16	R47
20	–	0.7874	48	6 x 6	–	P48
22	–	0.8661	49	6 x 6	–	P49
22.225	7/8	0.8750	50	–	1/4 x 1/4	R50
24	–	0.9449	51	8 x 7	–	P51
25	–	0.9843	52	8 x 7	–	P52
25.400	1	1.0000	53	–	1/4 x 1/4	R53
28	–	1.1024	54	8 x 7	–	P54
28.575	1-1/8	1.1250	55	–	5/16 x 1/4	R55
30	–	1.1811	56	8 x 7	–	P56
31.750	1-1/4	1.2500	57	–	5/16 x 1/4	R57

* Not manufactured. Nearest alternative 4mm.

Round & Keywayed Bore Details & Codes Cont.

Metric mm	Inch fraction	Inch decimal	Round bore code	Metric keys key size w x h	Inch keys key size w x h	Keywayed bore code
32	–	1.2598	58	10 x 8	–	P58
34.925	1-3/8	1.3750	59	–	3/8 x 1/4	R59
35	–	1.3780	60	10 x 8	–	P60
38	–	1.4961	61	10 x 8	–	P61
38.10	1-1/2	1.5000	62	–	–	–
40	–	1.5748	63	–	–	Specify on Order
41.28	1-5/8	1.6250	64	–	–	–
42	–	1.6535	65	–	–	Specify on Order
44.45	1-3/4	1.7500	66	–	–	–
45	–	1.7717	67	–	–	–
47.63	1-7/8	1.8750	68	–	–	Specify on Order
48	–	1.8898	69	–	–	–
50	–	1.9685	70	–	–	–
50.80	2	2.0000	71	–	–	Specify on Order
53.98	2-1/8	2.1250	72	–	–	–
55	–	2.1654	73	–	–	–
57.15	2-1/4	2.2500	74	–	–	Specify on Order
60	–	2.3622	75	–	–	–
60.33	2-3/8	2.3750	76	–	–	–
63.50	2-1/2	2.5000	77	–	–	Specify on Order
65	–	2.5591	78	–	–	–
73.03	2-7/8	2.8750	79	–	–	Specify on Order
75	–	2.9528	80	–	–	–

Specifying a Keywayed Bore

To specify a keywayed bore, prefix the 2-digit bore code number with a “P” for metric keyways or an “R” for an inch keyway.

Examples:

Metric: 538.34.P28P28

In this example both bores have a keyway.

Inch: 538.34.24R36

In this example only the second bore will have a keyway.

Standard keyways are machined to two specifications:

- Bore Codes prefixed with a “P” denote a metric keyway conforming to ISO 773/774 (BS 4235 Pt. 1).
- Bore Codes prefixed with a “R” denote an inch keyway conforming to BS 46 Pt. 1.