



FLEXIBLE DRIVE COUPLING

MODEL: Hydax 19, 28, 38, 48, 55, 65

- Available in Six sizes to suit 1HP to 75HP.
- Flexible Drive Coupling consists of two gear hubs engaging in a sleeve of high grade plastic material.
- This material has superior strength and a wide operating temperature range.
- Couplings are easy to assemble and require no maintenance or lubrication and do not emit transmission noise.
- Gears in the crowned-tooth form permit axial and angular Misalignment.
- Available in non-corrosive options of Stainless Steel and Nylon materials also.

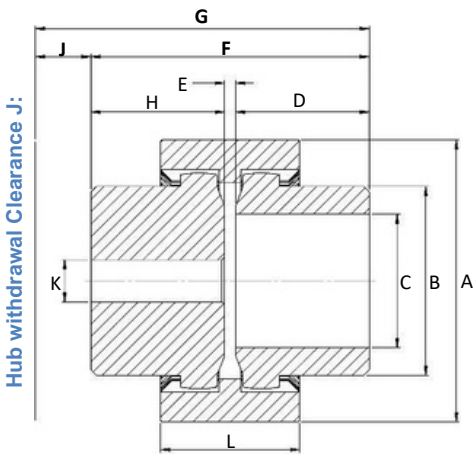
Custom Bore & Keyway as per requirements

ASSEMBLY PROCEDURE:

Maximum permissible angular misalignment is 1.5 degrees. Ensure that the coupling hubs easily fit on the shaft. Do not use undue force. Maintain gap between hubs as shown in sketch. Use grub screws to locate gear hubs on their respective shafts.

For shock load applications use the following formula:

Rating /100 RPM of coupling = $\frac{\text{HP of application} \times 100 \times F}{\text{RPM of application}}$



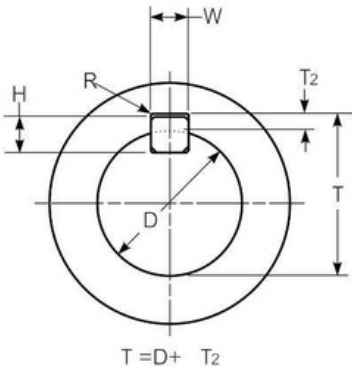
Application	Load Factor	Load Factor (F)
	El Motor	IC Engines
Uniform Load	1	1.2
Medium Shock	1.25	1.5
Heavy Shock	1.75	2.0

Coupling size	ØA	ØB	Max. ØC	D	E	F	G	H	J	Min. ØK	L	Pilot Bore	No of teeth
HYDAX - 19	48	30	19	25	4	54	70	25	16	7	37	7	24
HYDAX - 28	66	44	28	38	4	80	100	38	20	12	46	12	34
HYDAX - 38	83	56	38	38	4	80	104	38	24	12	486	12	44
HYDAX - 48	100	68	48	48	4	100	122	48	22	15	50	15	50
HYDAX - 55	124	82	55	60	4	124	148	60	24	15	64	15	48
HYDAX - 65	140	96	65	70	4	144	176	70	32	15	72	15	54

Specification for HYDAX Flexible Drive Coupling:

Coupling Size	Elec. Motor Frame Size	3000 RPM		1500 RPM		1000 RPM		750 RPM		Max. Torque at 1500 RPM		Max. RPM
		kW	Hp	kW	Hp	kW	Hp	kW	Hp	Kg.M	Ft. Lbs	
HYDAX 19	80	2.2	2	1.5	1	1.1	1	0.75	1	0.5	3.6	3000
	90S, 90L											
HYDAX 28	100L	7.5	10	5.5	5	4.25	5	2.2	3	2.3	16.6	3000
	112 M											
HYDAX 38	132 S	10	13	7.5	10	5.5	7.5	3	4.5	7	4.9	3000
	132 M											
HYDAX 48	160 ML	22	30	18.5	25	15	20	11	15	14.4	104	3000
	180 ML											
HYDAX 55	225 S	37	50	37	50	22	30	15	20	20	170	3000
	225 M											
HYDAX 65	200 L	55	75	55	75	37	50	30	40	35.5	256	3000
	250 M											

Standard Metric Keys & Keyways for Metric Bores with One Key • Couplings																	
Metric Key & Keyway Dimensions Per ISO/R773 – Js9 Width Tolerance																	
Key & Keyway Dimensions – Millimeters											Coupling Hub Keyway Dimensions – Inches						
Shaft Diameter “D”		Key Size Nominal		Keyway Width Hub “W”			Keyway Depth Hub “T2”		Keyway Radius “R”		Shaft Diameter “D”		Keyway Width Hub “W”	Keyway Depth Hub “T2”		Keyway Radius “R”	
Over	Thru	Width “W”	Height “H”	Nominal	Min	Max	Min	Max	Min	Max	Over	Thru		Min	Max	Min	Max
6	8	2	2	2	-0.0125	+0.0125	1.0	1.1	0.08	0.16	0.2362	0.3150		0.0783	0.0792	0.0394	0.0433
8	10	3	3	3	-0.0125	+0.0125	1.4	1.5	0.08	0.16	0.3150	0.3937		0.1176	0.1186	0.0551	0.0591
10	12	4	4	4	-0.0150	+0.0150	1.8	1.9	0.08	0.16	0.3937	0.4724		0.1569	0.1581	0.0709	0.0748
12	17	5	5	5	-0.0150	+0.0150	2.3	2.4	0.16	0.25	0.4724	0.6693		0.1963	0.1974	0.0906	0.0945
17	22	6	6	6	-0.0150	+0.0150	2.8	2.9	0.16	0.25	0.6693	0.8661		0.2357	0.2368	0.1102	0.1142
22	30	8	7	8	-0.0180	+0.0180	3.3	3.5	0.16	0.25	0.8661	1.1811		0.3143	0.3157	0.1299	0.1378
30	38	10	8	10	-0.0180	+0.0180	3.3	3.5	0.25	0.40	1.1811	1.4961		0.3930	0.3944	0.1299	0.1378
38	44	12	8	12	-.0215	+0.0215	3.3	3.5	0.25	0.40	1.4961	1.7323		0.4716	0.4733	0.1299	0.1378
44	50	14	9	14	-.0215	+0.0215	3.8	4.0	0.25	0.40	1.7323	1.9685		0.5503	0.5520	0.1496	0.1575
50	58	16	10	16	-.0215	+0.0215	4.3	4.5	0.25	0.40	1.9685	2.2835		0.6291	0.6308	0.1693	0.1772
58	65	18	11	18	-.0215	+0.0215	4.4	4.6	0.25	0.40	2.2835	2.5591		0.7078	0.7095	0.1732	0.1811
65	75	20	12	20	-0.0260	+0.0260	4.9	5.1	0.40	0.60	2.5591	2.9528		0.7864	0.7884	0.1929	0.2008



Note:
Please ensure that there is not more than a month’s gap between purchase of the coupling sleeves and it’s working application. If the storage time of the couplings exceeds a month, please cure it by placing the sleeves in hot water of about 80°C for at least 8 hours. Bigger size sleeves should be cured more often.