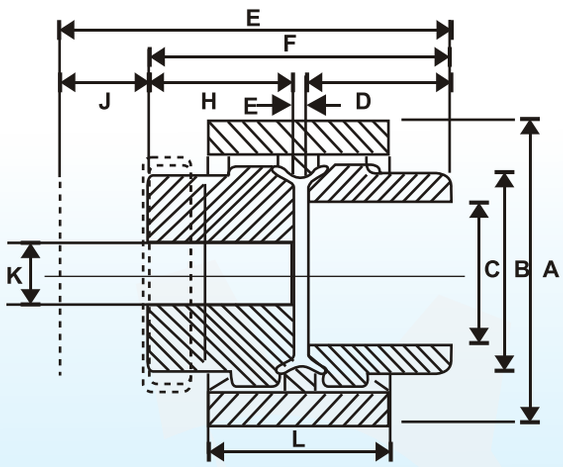
EMCO ENGINEERING

NYLON SLEEVE GEAR COUPLING



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:

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

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

TECHNICAL DATA

Nylon Sleeve Gear 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. The gears have crowned-tooth form which permit axial and angular misalignment. The couplings have undergone extensive testing under severe load conditions. They are easy to assemble and require no maintenance or lubrication and do not emit transmission noise.

FEATURES

- Applicable to all range of hydraulic equipment and in the Transmission market.
- Maintenance free, no lubrication.
- Gears in the crowned-tooth form permit axial and angular Misalignment.
- Cost effective and easy to assemble.
- Two drive hubs engaging in a sleeve.
- Compact and streamlined.
- Available in five sizes to suit 1HP to 75HP
- Available in non-corrosive options of Stainless Steel and Nylon materials also

Coupling size	ϕA	B	Max. C	D	E	F	G	H	J	Min. ϕK	L	Pilot Bore
M - 19	48	30	19	25	4	54	70	25	16	7	37	7
M - 28	66	44	28	40	4	84	104	40	20	12	46	12
M - 38	83	56	38	40	4	84	104	40	24	12	48	12
M - 48	100	68	48	50	6.5	104	126	50	22	15	50	15
M - 65	140	96	65	70	4	144	176	70	32	15	72	15

SPECIFICATION FOR NYLON SLEEVE GEAR 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	
M - 19	80 90S, 90L	2.2	2	1.5	1	1.1	1	.75	1	.5	3.6	3000
M - 28	100L 112 M	7.5	10	5.5	5	4.25	5	2.2	3	2.3	16.6	3000
M - 38	132 S 132 M	10	13	7.5	10	5.5	7.5	3	4.5	7	4.9	3000
M - 48	160 M.L. 180 M.L.	22	30	18.5	25	15	20	11	15	14.4	104	3000
M - 65	200 L 250 M	55	75	55	75	37	50	30	40	35.5	256	3000

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