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Sintered Iron Coupling Hub



Hytrex Spider Insert

Jaw Couplings

L-type couplings are designed for close-coupling applications.

Coupling Hubs—Maintenance-free couplings connect to drive shafts to provide dependable power transfer, even in high-temperature applications. Plated metal construction requires no lubrication. Simple design helps assure easy installation and consistent performance. Coupling keyway dimensions conform to DIN 6885, JIS B 1310-1976, UNI 6604-1969, USAS B 17.1-1967, GB 1095-1979 standards.

- Max. angular misalignment: 1°
- Max. parallel misalignment: 0.015"

Note: a complete assembly requires 2 hubs and 1 spider, sold separately.

Spider Inserts—Oil- and high temperature-resistant inserts conform to the sintered alloy couplings to help them maintain position and structure for equal power transfer.

- Temp. range: -40° to 100°C (Buna N); -51° to 121°C (Hytrex)



Size	Rated Torque	100	HP Rating @ Listed RPM			Item No.
			1200	1800	3600	
Buna N Spider Inserts (Black Color)						
L050	26 in-lb	0.04	0.49	0.73	1.47	29HZ10
L070	44 in-lb	0.07	0.83	1.25	2.51	29HZ09
L075	90 in-lb	0.14	1.67	2.51	5.03	29HZ11
L090/L095	315 in-lb	0.23/0.30	2.74/3.69	4.11/5.54	8.23/11.08	29HZ08
L099/L100	415 in-lb	0.49/0.65	5.99/7.9	8.99/11.85	17.99/23.7	29HZ07
L110	788 in-lb	1.25	15	22.5	45.01	29HZ12
L150	1,260 in-lb	1.99	23.99	35.98	71.97	29HZ13
L190	1,702 in-lb	2.70	32.4	48.6	97.22	29HZ05

Size	Rated Torque	100	HP Rating @ Listed RPM			Item No.
			1200	1800	3600	
Hytrex Spider Inserts (Tan Color)						
L070	114 in-lb	0.18	2.17	3.25	6.51	29HZ16
L075	227 in-lb	0.36	4.32	6.48	12.97	29HZ17
L090/L095	561 in-lb	0.63/0.89	7.63/10.68	11.45/16.02	22.90/32.04	29HZ18
L099/L100	1,134 in-lb	1.36/1.80	16.37/21.59	24.56/32.39	49.12/64.78	29HZ15
L110	2,268 in-lb	3.59	43.18	64.77	129.55	29HZ14
L150	3,708 in-lb	5.88	70.6	105.9	211.8	29HZ13
L190	4,680 in-lb	7.42	89.1	133.66	267.3	29HZ19

Size	Outside Dia.	Overall Length**	Bore Dia.															
			3/4 in	7/8 in	1 in	1 1/8 in	1 1/4 in	1 3/8 in	1 1/2 in	1 5/8 in	1 3/4 in	1 7/8 in	2 in	2 1/8 in	2 1/4 in	2 3/8 in		
Sintered Iron Coupling Hubs																		
L050	1.08 in	1.71 in	29HY94 *	29HY57 *	29HY74 *	29HY97 *	29HY75 *	29HY76 *	—	—	—	—	—	—	—	—	—	—
L095	2.1 in	2.48 in	—	—	—	29HY59	29HY98 *	29HY99	29HY88	29HY89	29HZ01 *	—	—	—	—	—	—	29HY90
L070	1.36 in	1.98 in	—	—	—	29HY95 *	29HY77 *	29HY78	29HY79	—	—	—	—	—	—	—	—	—
L075	1.75 in	2.12 in	—	—	—	29HY96 *	29HY80 *	29HY81	29HY82	29HY83	—	—	—	—	—	—	—	—
L090	2.1 in	2.12 in	—	—	—	—	—	29HY84 *	29HY85	29HY86	29HY87	—	—	—	—	—	—	—
L110	3.31 in	4.26 in	—	—	—	—	—	—	29HY58	29HY67	29HY69	29HY70	29HY71	29HY72	29HY73	—	—	29HY68
L100	2.53 in	3.46 in	—	—	—	—	—	—	29HZ02	29HZ03	29HY91	29HY92	29HY93	—	—	—	—	29HZ04
L150	3.75 in	4.5 in	—	—	—	—	—	—	—	29HY49	29HY50	29HY51	29HY52	29HY53	29HY54	29HY55	29HY56	—
Steel Coupling Hubs																		
L190	4.5 in	4.9 in	—	—	—	—	—	—	—	—	29HY61	29HY62	29HY63	29HY64	29HY65	—	29HY66	29HY60

* No Keyway. ** Total length of assembled coupling with jaws engaged to full depth (assembled coupling = 2 hubs + 1 spider).



Bost-Bronze Spider Insert



Steel Coupling Hub

Size	Shaft Dia. Range	Rated Torque	100	HP Rating @ Listed RPM					Item No.
				300	690	870	1750		
Bost-Bronze Spider Inserts									
FC12	3/8 to 5/8"	200 in-lb	0.30	1.0	2.2 hp	2.8 hp	5.6 hp	2L064	
FC15	1/2 to 7/8"	500 in-lb	0.80	2.4	5.5 hp	6.9 hp	13.9 hp	2L067	
FC20	1/2 to 1 1/8"	1,000 in-lb	1.60	4.8	10.9 hp	13.8 hp	—	2L070	
FC25	3/4 to 1 1/8"	1,800 in-lb	2.90	8.6	19.7 hp	24.8 hp	—	2L073	
FC30	1 to 1 1/8"	3,200 in-lb	5.10	15.2	35.0 hp	—	—	2L076	
FC38	1 1/4 to 1 7/8"	7,000 in-lb	11.10	33.3	—	—	—	2L079	
FC45	1 3/4 to 2 1/8"	11,000 in-lb	17.50	—	—	—	—	2L082	
Synthetic Rubber Spider Inserts									
FC12	3/8 to 5/8"	65 in-lb	0.10	0.3	0.7 hp	0.9 hp	1.8 hp	2L065	
FC15	1/2 to 7/8"	125 in-lb	0.20	0.6	1.4 hp	1.7 hp	3.5 hp	2L068	
FC20	1/2 to 1 1/8"	250 in-lb	0.40	1.2	2.7 hp	3.5 hp	6.9 hp	2L071	
FC25	3/4 to 1 1/8"	450 in-lb	0.70	2.1	4.9 hp	6.2 hp	12.5 hp	2L074	
FC30	1 to 1 1/8"	800 in-lb	1.30	3.8	8.8 hp	11.0 hp	22.2 hp	2L077	
FC38	1 1/4 to 1 7/8"	1,600 in-lb	2.50	7.6	17.5 hp	22.1 hp	44.4 hp	2L080	
FC45	1 3/4 to 2 1/8"	2,800 in-lb	4.40	13.3	30.7 hp	38.7 hp	77.7 hp	2L083	

Size	Outside Dia.	Overall Length*	Bore Dia.															
			3/8 in	7/8 in	1 in	1 1/8 in	1 1/4 in	1 3/8 in	1 1/2 in	1 5/8 in	1 3/4 in	1 7/8 in	2 in	2 1/8 in	2 1/4 in	2 3/8 in		
Steel Coupling Hubs																		
FC12	1.25 in	2.31 in	2L028	2L029	2L030	—	—	—	—	—	—	—	—	—	—	—	—	—
FC15	1.5 in	2.75 in	—	—	2L031	2L032	2L033	2L034	2L035	—	—	—	—	—	—	—	—	—
FC20	2 in	3.69 in	—	—	2L036	2L037	2L038	2L039	2L040	2L041	6G234	—	—	—	—	—	—	—
FC25	2.5 in	4.13 in	—	—	—	—	—	2L042	2L043	—	—	—	—	—	—	—	—	—
FC30	3 in	5.47 in	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
FC38	3.75 in	6.31 in	—	—	—	—	—	—	2L044	2L045	2L046	2L047	—	—	—	—	—	—
FC45	4.5 in	7.19 in	—	—	—	—	—	—	2L048	2L049	—	2L050	2L051	2L052	2L053	—	—	—
Stainless Steel Coupling Hubs																		
SSFC12	1.25 in	2.31 in	36GG27	—	36GG28	—	—	—	—	—	—	—	—	—	—	—	—	—
SSFC15	1.5 in	2.75 in	—	—	36GG30	—	—	—	—	—	—	—	—	—	—	—	—	—
SSFC20	2 in	3.69 in	—	—	—	36GG31	36GG32	—	—	—	—	—	—	—	—	—	—	—
SSFC25	2.5 in	4.13 in	—	—	—	36GG34	36GG35	36GG36	—	36GG37	—	—	—	—	—	—	—	—
SSFC30	3 in	5.47 in	—	—	—	—	36GG39	—	—	36GG40	—	36GG41	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	36GG43	—	36GG44	36GG45	—	—	—	—	—

* Total length of assembled coupling with jaws engaged to full depth (assembled coupling = 2 hubs + 1 spider).

Jaw Couplings

Coupling Hubs—3-jaw insert design is complete with keyway and set screw. No lubrication required.

- Standard tolerance: +0.001/-0.000", all bore dimensions

Note: A complete assembly requires 2 hubs and 1 spider, sold separately.

Synthetic Rubber Spider Inserts—Recommended where minimal noise is desired, particularly at motor speeds.

- Oil-resistant
- Temp. range: -32° to 200°F (-35° to 93°C)

Polyurethane Spider Inserts—Recommended where moderate-to-heavy shock loads are encountered.

- Oil-impregnated
- Temp. range: -60° to 250°F (-51° to 121°C)

Bost-Bronze Spider Inserts—Recommended for high-torque loads, particularly at slower speeds.

- Oil-impregnated
- Temp. range: -60° to 250°F (-51° to 121°C)

Size	Shaft Dia. Range	Rated Torque	100	HP Rating @ Listed RPM					Item No.
				300	690	870	1750		
Polyurethane Spider Inserts									
FC12	3/8 to 5/8"	125 in-lb	0.19	0.56	1.2 hp	1.6 hp	3.0 hp	2L066	
FC15	1/2 to 7/8"	250 in-lb	0.37	1.1	2.5 hp	3.1 hp	6.0 hp	2L069	
FC20	1/2 to 1 1/8"	470 in-lb	0.70	2.1	4.6 hp	5.7 hp	11.1 hp	2L072	
FC25	3/4 to 1 1/8"	845 in-lb	1.20	3.7	8.1 hp	10.1 hp	19.3 hp	2L075	
FC30	1 to 1 1/8"	1,500 in-lb	2.20	6.5	14.4 hp	17.9 hp	34.3 hp	2L078	
FC38	1 1/4 to 1 7/8"	3,000 in-lb	4.30	12.9	28.4 hp	35.3 hp	67.3 hp	2L081	
FC45	1 3/4 to 2 1/8"	5,250 in-lb	7.50	22.4	49.2 hp	61.0 hp	115.9 hp	2L084	