

SCHMIDT **L400 SERIES** INLINE COUPLINGS

Schmidt Inline Couplings - L400 Series

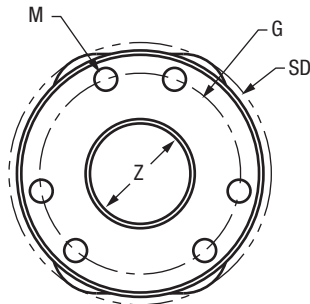
Schmidt Inline Couplings are a torque-rigid type, designed with two pairs of parallel links installed 90 degrees out of phase with each other. This linkage arrangement allows for the precise transmission of torque and constant angular velocity between shafts with small to moderate parallel misalignments. The coupling utilizes needle bearings which can be preloaded for Low and Ultra Low backlash conditions. Where backlash is not as critical, non-lubricated filament wound teflon bearings are available for higher torque capacity and where relubrication of the coupling is difficult.

Typical applications which benefit from the high accuracy provided by Schmidt Inline Couplings are feeders, embossers, compactors, printing presses and many others.

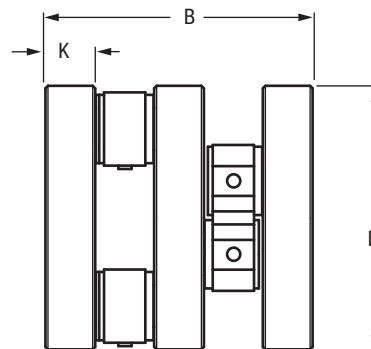
Schmidt Inline Couplings are available for a torque range from 500 to 35,000 inch-pounds. Couplings for higher torque requirements are made available on special orders.



End View



Side View



Dimensions and Performance Data of Inline Couplings

Coupling Designation		L4xxC or L4xxD Series*							
		L431C/D	L442C/D	L436C/D	L448C/D	L463C/D	L485C/D	L481C/D	L411C/D
Performance Capacity	HP/100 rpm**	0.88	1.35	3.17	5.08	19.04	29.51	36.49	56.49
	Torque (In x Lb)**	550	850	2,000	3,200	12,000	18,600	23,000	35,600
	Displacement	Parallel* (In)	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Angular (°)		±0.5	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5
Coupling Dimensions (In.)	Disc Diameter D	3.098	4.190	3.613	4.863	6.286	8.475	8.129	10.943
	Swing Diameter SD	3.23	4.32	3.70	4.95	6.44	8.63	8.33	11.14
	Coupling Length B	3.156	3.156	3.810	3.810	6.373	6.373	7.623	7.623
	Disc Width K	0.500	0.500	0.600	0.600	1.187	1.187	1.437	1.437
	Center Bore Dia Z	1.500	1.812	1.625	2.562	2.875	4.000	3.625	5.500
	Bolt Circle G	2.412	2.412	3.000	3.000	5.000	5.000	7.000	7.000
	No. of Bolts and Size M	3 1/4"-20	3 1/4"-20	6 1/4"-20	6 1/4"-20	6 1/2"-13	6 1/2"-13	8 5/8"-11	8 5/8"-11
Net Weight (Lb)	3.1	5.1	5.6	7.8	32.0	47.0	64.2	93.2	
Inertia Wk ² (Lb-In ²)	6.7	18.6	10.2	29.7	178.7	534.0	604.0	1,783	

Notes: *Data apply to shaft speed under 1800 RPM. Greater parallel misalignment is possible at lower RPM. Consult factory.

**LC Series Inline Couplings are equipped with needle bearings. LD Series Inline Couplings are equipped with filament wound teflon bearings for 20% higher torque capacities than shown above.