

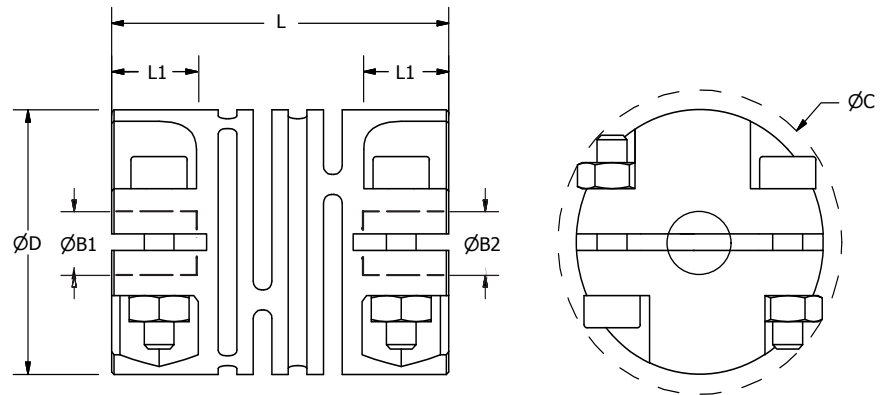
TLC

COUPLINGS

TLC

Step-Beam™

No Backlash - No Wind up



Part Number	ØD (in)	L (in)	L1* (in)	Max Bore	Cap Screw	Max. Misalignment			Max Torque (in-lb)	Torsional Stiffness (in-lb/deg)	Max RPM	Weight (lb)	ØC (in)
						Angular (deg)	Radial (in)	Axial (in)					
TLC13	0.52	0.71	0.20	0.250	M2	3	0.006	0.008	4.5	0.85	7500	0.007	.600
TLC19	0.75	1.10	0.31	0.375	M2.5	4	0.006	0.008	17	1.85	7500	0.017	.900
TLC25	0.98	1.50	0.39	0.500	M3	5	0.012	0.012	33	2.78	7500	0.038	1.050

*L1 is the maximum shaft penetration depth

Part Number consists of Order Code and both Bore codes.
i.e., TLC25.1622 is a coupler with 1/8 by 6 mm bores.

Registered Trade Mark USA and UK
Patented USA and UK

Coupling Size	Inch Bores +.0015 / -0					
	1/8	3/16	1/4	5/16	3/8	1/2
13	•	•	•			
19	*	•	•	•	•	
25	*	*	*	•	•	•
Bore Code	16	19	24	27	31	36

Metric Bores +.04 / -0									
3	4	5	6	7	8	9	10	11	12
	•	•	•						
	*	•	•		•		•		
*	*	*	•	*	•	*	•	*	•
14	18	20	22	25	28	30	32	33	35

• = molded bore

* = may be supplied with metal bore adaptor insert for small quantities

Features

Temperature Range -4°F to +302°F (-20°C to +150°C)
Maximum torque is usable for reversing applications without derating
Embedded stainless hex nut provides high fastening strength
UV resistant
15% of the weight of aluminum beam couplings
Very low inertia

Materials

Coupling: Engineered Polymer
Fasteners: Stainless Steel

Performance is equal or superior to aluminum and plastic spiral beam couplings
Zero Backlash due to high torsional stiffness and no windup or unwinding as with spiralcut beam couplings
Statically balanced design allows higher speeds
Voltage and RF Isolation
Inch and metric bores available
All combinations of mixed bores available

Testing in your application is necessary. You will need to assess duty cycles and confirm suitability with your own calculations. All figures listed are to be used for guidance only.

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☎ 1-888-260-7466
📄 516-771-6444

💻 sales@ondrivesus.com
🌐 www.ondrivesus.com