## PCMR25-10-10-A



## PRODUCT SPECIFICATIONS

Ruland PCMR25-10-10-A is a four beam coupling with 10mm x 10mm bores, 25.4mm OD, and 31.8mm length. It is machined from a single piece of material and feature two sets of two spiral cuts. This gives it higher torque capacity, lower windup, and larger body sizes than single beam couplings. PCMR25-10-10-A is well suited for applications such as encoders that require high positioning accuracy. This four beam spiral coupling is zero-backlash and has a balanced design for reduced vibration at high speeds of up to 6,000 RPM. All hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. PCMR25-10-10-A is made from 7075 aluminum for lightweight and low inertia. It is machined from bar stock that is sourced exclusively from North American mills and is RoHS2 and REACH compliant. PCMR25-10-10-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.



## DIMENSIONS

Large Bore B1	10 mm	Small Bore B2	10 mm
B1 Shaft Penetration	14.7 mm	B2 Shaft Penetration	14.7 mm
Outer Diameter OD	25.4 mm	Bore Tolerance	+.025 mm /000 mm
Length L	31.8 mm		
FASTENING HARDWARE			
Cap Screw	M4	Screw Material	Alloy Steel
Hex Wrench Size	3.0 mm	Screw Finish	Black Oxide
Seating Torque	4.6 Nm	Number of Screws	2 ea
PERFORMANCE SPECIFICATIONS			
Static Torque	3.39 Nm	Angular Misalignment	3°
Dynamic Torque Non-Reversing	1.70 Nm	Parallel Misalignment	0.38 mm
Dynamic Torque Reversing	0.85 Nm	Axial Motion	0.25 mm
Torsional Stiffness	1.80 Deg/Nm	Maximum Speed	6,000 RPM
ADDITIONAL INFORMATION			
Material Specification	7075-T651 Extruded and Drawn Aluminum Bar	Temperature	-40°F to 225°F -40°C to 107°C
Finish Specification	Bright	Country of Origin	USA
Weight (lbs.)	0.1340		
CERTIFICATIONS/STANDARDS			
ISO 9001:2008	Certified	Conflict Minerals	Compliant
RoHS2	Compliant	REACH	Compliant