



## **SERVONUT POWER MODULE**

Zero backlash, driven-nut ball screw linear actuator.

- Zero backlash. ServoNut directly drives the nut along the screw with exact position feedback for backlash-free operation.
- Standalone or Complete Actuator. ServoNut Power Modules are available as a standalone drive element or as a complete precision linear actuator assembly with bearing carriage and linear or rotary encoder.
- Inertia Matching Made Easy. A wide range of direct-drive servo motors and screw leads allows for exact matching of your payload and motion requirements, eliminating the complications and inefficiencies of a driven-screw system's belt passes. ServoNut inertia is equivalent to or less than that of a driven-screw stage.
- High-Force Applications. Load capacity exceeds 1,500N continuous force. With options for pneumatic or electric fail-safe brakes, ServoNut Power Module is ideal for highforce vertical axis applications.
- Fast and Precise. ServoNut offers speeds in excess of 1 m/s and accelerations over 4 g. Bi-directional repeatability is ± 1 encoder count.
- Built To Last. ServoNut Power Module features lubed-for-life rotary bearings and an anodized aluminum and stainless steel construction.

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## DATA SHEET

TECHNICAL SPECIFICATIONS	ServoNut Power Module
Туре	Rotating Nut Ballscrew Actuator
Bearing type	Internally preloaded ballscrew with preloaded spindle bearings
Length max (m)	1.8
Motor type	3-phase brushless servo
Lead	5 mm, 10 mm
Encoder	8000 CPR A quad B incremental or none
Accuracy (µm) Linear accuracy at stage centerline, after two-point temperature scale correction.	±5
Speed (m/sec) With 1000 mm screw.	0.2, 0.4
Continuous linear force (N)	1560, 780
Moving mass (kg)	1.7
Rotary inertia (kg-m²)	0.00010

