

## DC Servo Motor Actuator

The DRV414 DC Servo Motor Actuator provides higher speed and torque capability compared to stepper motor actuators. The ball screw drive delivers highly reliable, low-friction operation. It has ceramic-tipped electromechanical limit switches and is ideally suited for applications that require high-speed precise motion control.

The design incorporates a rotary encoder with 1024 lines (4096 effective) for accurate, repeatable positioning when combined with the BDC101 DC motor controller.

The DRV414 actuator, which has been designed specifically for heavy loads, can handle a load capacity of 55 lbs (25 kg). It is also compatible with our TravelMax series of stages (see page 432).



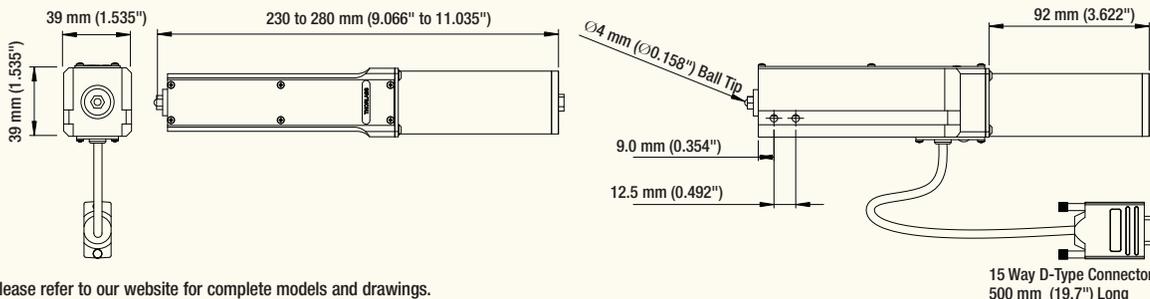
### Specifications

- **Maximum Speed:** >50 mm/s
- **Travel:** 2" (50 mm)
- **Bidirectional Repeatability:** 5 μm
- **Leadscrew Pitch:** 1.25 mm
- **Minimum Incremental Movement:** 0.3 μm
- **Home Switch Accuracy:** <10 μm

*Specifications measured on an LNR50 stage, using a BDC101 controller.*

- High-Speed Operation
- High-Load Capacity
- Low-Friction Ball Screw Drives
- Preloaded to Minimize Backlash
- 1024 Line Rotary Encoder (4096 Effective QEP)
- Compatible with BDC101 DC Servo Driver (see page 555)

**Our Full Line of Motor Controllers Starts on Page 541.**

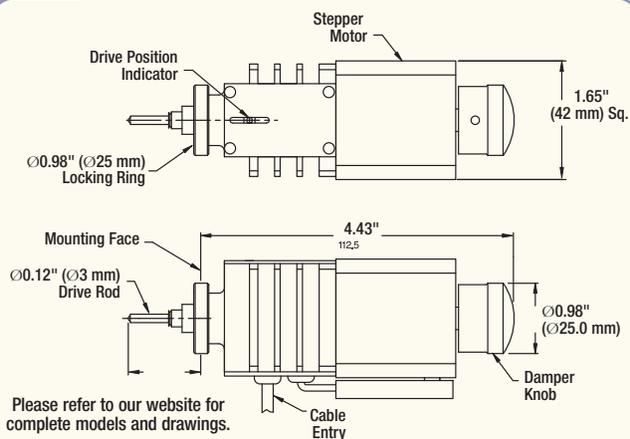


Please refer to our website for complete models and drawings.

ITEM#	\$	£	€	RMB	DESCRIPTION
DRV414	\$ 1,495.00	£ 1,036.50	€ 1,327.50	¥ 12,624.00	2" (50 mm) of Travel, DC Servo Motor Actuator

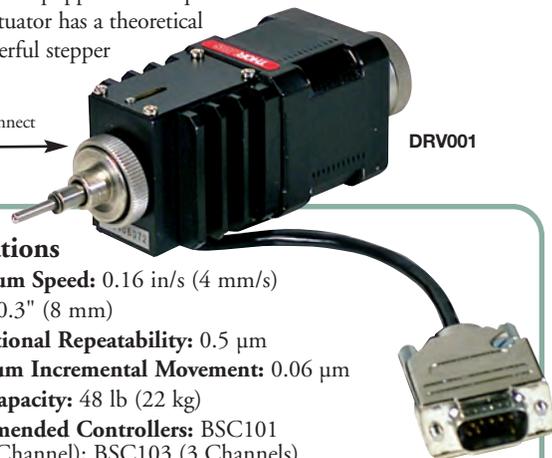
## Modular Stepper Motor Actuator, 0.31" (8 mm) Travel

The DRV001 Stepper Motor Actuator has a travel range of 0.31" (8 mm) and is equipped with a quick-connect fitting that ideal for use with our MAX300 and MAX600 series stages. The actuator has a theoretical minimum step size of 25 nm and is capable of speeds up to 4 mm/s. The powerful stepper motor is capable of handling a load capacity of up to 48 lbs (22 kg).



Please refer to our website for complete models and drawings.

Quick-Connect Fitting



DRV001

### Specifications

- **Maximum Speed:** 0.16 in/s (4 mm/s)
- **Travel:** 0.3" (8 mm)
- **Bidirectional Repeatability:** 0.5 μm
- **Minimum Incremental Movement:** 0.06 μm
- **Load Capacity:** 48 lb (22 kg)
- **Recommended Controllers:** BSC101 (Single Channel); BSC103 (3 Channels)
- Non-Rotating Tip
- Manual Adjuster Knob Provided

ITEM#	\$	£	€	RMB	DESCRIPTION
DRV001	\$ 585.00	£ 405.60	€ 519.40	¥ 4,939.80	0.31" (8 mm) of Travel, Stepper Motor Actuator