

BLA Series

Ball Screw Precision for Low-to-Medium Load Terminal Guides.

Key Features

- **Ball screw drive mechanism** – precision ball screw technology for smooth, efficient linear motion with minimal backlash
- **Paired with SCU6x controller** – BLA-015 and BLA-030 use SCU6x MD; BLA-067 uses SCU6x MxD for higher current demand
- **Front and rear spherical bearing mounting** – accommodates misalignment and angular deflection, reducing side loading on the ball screw
- **BLA-015-0600-TG** – 150 lbf thrust, 6 in stroke, 4 A at 24 VDC for light terminal guides and slitter carriages
- **BLA-030-0600-TG** – 300 lbf thrust, 6 in stroke, 4 A at 24 VDC for medium-load coating heads and shifting stands
- **BLA-067-0600-TG** – up to 650 lbf thrust, 6 in stroke, 6 A at 24/48 VDC for maximum BLA capacity terminal applications
- **Load capacity up to 10,000 lb** – with precision linear bearings (5,000 lb with standard bearings)

Benefits

- **Stop overpaying for oversized actuators** – the BLA Series is purpose-built for low-to-medium load applications, delivering up to 650 lbf of thrust at a fraction of the cost and complexity of larger systems
- **Handle loads up to 10,000 lb** – with precision linear bearings, BLA actuators support web roll loads for most slitter carriages, coating heads, and light shifting stands
- **Eliminate custom engineering** – three standard models cover the most common low-to-medium load terminal guide applications; order, bolt in, wire up
- **Drop in with zero frame modifications** – pivot, rod eye, and clevis mounting options match existing frame geometries for pneumatic cylinder or worn actuator replacement

Specifications

Specification	BLA-015-0600-TG	BLA-030-0600-TG	BLA-067-0600-TG
Max Thrust	150 lbf	300 lbf	Up to 650 lbf
Load Capacity (Standard)	Up to 5,000 lb		
Load Capacity (Precision Bearings)	Up to 10,000 lb		
Stroke Length	6 in (150 mm)	6 in (150 mm)	6 in (150 mm)
Maximum Speed	1–2 in/sec (25–50 mm/sec)		
Drive Voltage	24 VDC	24 VDC	24/48 VDC
Motor Current	4 A	4 A	6 A
Power Source	SCU6x MD	SCU6x MD	SCU6x MxD
Motor Type	Brushless Bi-polar Stepper, 1.8° resolution		
Actuator Type	Ball Screw		
Mounting	Pivot / Rod Eye / Clevis		

Applications

- Slitter carriages — precise lateral positioning for slitter knife assemblies
- Coating heads — accurate alignment of coating applicators across the web
- Light shifting stands — lateral shifting of rolls and stands up to 10,000 lb
- Low-to-medium load terminal guides for winders and rewinders handling moderate roll weights

Supporting Documentation

Manuals (2)

- Servo Center Servo Installation
- Unwind/Rewind Installation Checklist

2D Drawings (10)

- BLA-067-0600-TG
- BLA-0xx-0600-TG 2D Drawing
- LHS-005-0125-LP: 2D Drawing (dxf)
- LHS-005-0400-LP: 2D Drawing (dxf)
- LHS-005-0xxx-LP: 2D Drawing (pdf)
- LHS-015-0150-WG: 2D Drawing (pdf)
- LHS-020-0xxx-RF: 2D Drawing (dxf)
- LHS-020-0xxx-RF: 2D Drawing (pdf)
- LHS-030-xxxx-RF: 2D Drawing (pdf)
- RLA-050-0600-TG: 2D Drawing (pdf)

3D Models (1)

- BLA-015-0600-TG or BLA-030-0600-TG

Wiring Diagrams (5)

- Power Supply Regen Clamp Wiring
- SCU5 MD Wiring with MC QD 1141/1140/1240 + Web Guide Actuator
- SCU5 MD Wiring with MC QD 1180/1181/1211/1230/1231/1260 + Regen Clamp + Unwind/Rewind Actuator
- SCU5 MD Wiring with MC QD 1180/1181/1211/1230/1231/1260 + Web Guide Actuator
- SCU6x MxD Wiring Diagram with Unwind/Rewind (Small Load)



Scan for datasheets, 3D models & full documentation

<https://r2r.tech/products/actuators/bla>

Ready to Get Started?

Contact our experts to discuss how this product fits your application.

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