PRODUCT BROCHURE

Roll-2-Roll Unwind/Rewind Guide



Most Intelligent WEB GUIDES should be EASY TO USE!

Key Features

- **Shifts roll stands** – positions entire unwind or rewind assemblies
- **High load capacity** – the RLA-200 moves about 33,333 lb on rolling bearings at ? 0.06 (20,000 lb at ? 0.1); see the RLA load table
- **High thrust actuators** – RLA Series, 500–2,000 lbf nominal, for heavy rolls
- **Variable stroke lengths** – 4 in (100 mm) to 12 in (300 mm)
- **Zero recalibration sensors** – material-agnostic detection works on any substrate

Benefits

- **Stop manual roll positioning** that slows changeovers and creates safety risks
- **Eliminate edge tracking issues** caused by roll buildup variation
- **End operator intervention** during roll diameter changes
- **Remove roll quality defects** from inconsistent winding
- **Prevent safety incidents** from manual roll shifting with heavy loads

Specifications

System Includes	Sensor (ODC/1DC) + Controller (SCU5/SCU6x) + Actuator (RLA) + Mounting + Cables		
Load Capacity	Sized by bearing type: nominal thrust ÷ ? (see the RLA load table)	**Thrust (RLA)**	500–2,000 lbf (nominal)
Stroke Length	4–12 in (100–300 mm)	**Speed**	15 mm/sec (0.59 in/sec)
Driver Voltage	24 VDC or 48 VDC	**Power**	6.5 W to 210 W
Actuator Type	RLA (Rod Linear Actuator)	**Motor**	Brushless bi-polar stepper
Sensor Technology	Fiber-optic (diffuse-reflective)	**Repeatability**	±0.127 mm (±0.005 in)

Applications

- Unwind roll positioning
- Rewind roll positioning
- Heavy roll applications
- Converting lines with roll diameter variations
- Automated roll handling systems

Compatibility

SUPPORTED LINE SPEEDS

0-100 fpm

SUPPORTED MATERIAL TYPES

Porous/Perforated, Porous/Perforated

SUPPORTED WEB WIDTHS

Extra Wide (>72"), Extra Wide (>72")

Supporting Documentation

Manuals (10)

- Master/Slave Web Guiding System Installation
- Motor Driver MC QD 1140/1141/1161/1180/1181/1211/1230/1231/1240/1260
- Retrofit Installation Checklist
- SCU5: Sensor and Web Guide Controller User Manual v3.4
- Servo Center Servo Installation
- Standard Operating Procedure (SOP): Center Guiding Application (v2.x)
- Standard Operating Procedure (SOP): Edge Guiding Application (v2.x)
- Standard Operating Procedure (SOP): Line Guiding Application
- Unwind/Rewind Installation Checklist
- Web Guide Installation Checklist

2D Drawings (15)

- 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)
- Motor Controller - MC QD 1140/1141/1240/1241: 2D Drawing
- Motor Controller - MC QD 1140/1141/1240/1241: 2D Drawing (DXF)
- Motor Controller - MC QD 1180/1181/1211/1230/1231/1260: 2D Drawing
- Retrofit Actuator - LHS-0xx-xxxx-TG: 2D Drawing (DXF)
- RLA-050-0600-TG: 2D Drawing (pdf)
- SCU5 Controller: 2D Drawing (DXF)
- SCU5 Controller: 2D Drawing (pdf)

Wiring Diagrams (6)

- 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 + Large Upgrade 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/unwind-rewind-guide

Ready to Get Started?

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

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