

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** – supports loads up to 15,000 lbs (6,800 kg)
- **High thrust actuators** – up to 1,500 lbf (6,670 N) for heavy rolls
- **Variable stroke lengths** – 1 in (25 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	Up to 15,000 lbs (6,800 kg)	Max Thrust	1,500 lbf (6,670 N)
Stroke Length	1-12 in (25-300 mm)	Speed	Up to 2 in/sec (51 mm/sec)
Driver Voltage	24 VDC or 48 VDC	Power	6.5 W to 210 W
Actuator Type	RLA (Rotary Linear Actuator)	Motor	Brushless bi-polar stepper
Sensor Technology	Fiber optic (diffuse-reflective)	Repeatability	>99.9%

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.

Phone: +1 (888) 290-3215 | **Email:** experts@r2r.tech | **Web:** r2r.tech