



**LOW & STABLE RESISTANCE**

**100% MAINTENANCE FREE**

**UNAFFECTED BY RPM & USE OVER TIME**

## ADVANTAGES

- Provides consistent low and stable resistance for high current applications
- Requires ZERO grease or routine maintenance
- Robust industrial design provides reliable long lasting performance
- Remains unaffected by RPM or total number of revolutions
  - \*Oftentimes surpassing **500M (million) revolutions** without demonstrating a change in electrical resistance or performance*

## APPLICATIONS

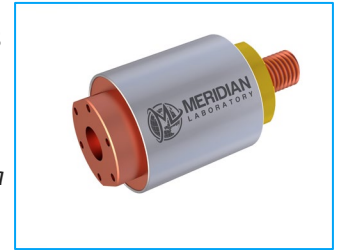
- Rotary welding
- Electro-plating
- Plasma cutting
- Rotary magnetrons/sputtering deposition
- Cable reels
- Lightning strike ground (up to 100,000A tested)
- Electro-polishing

## OPTIONS

- Five robust mounting configurations
- Rotary union integration
- Models available to 15,000A+
- [Magswitch](#) magnetic mounts
- RoHS compliant units available upon request



## VIDEO – ROTARY GROUND / WELDING CLAMP CONTACT RESISTANCE DEMONSTRATION



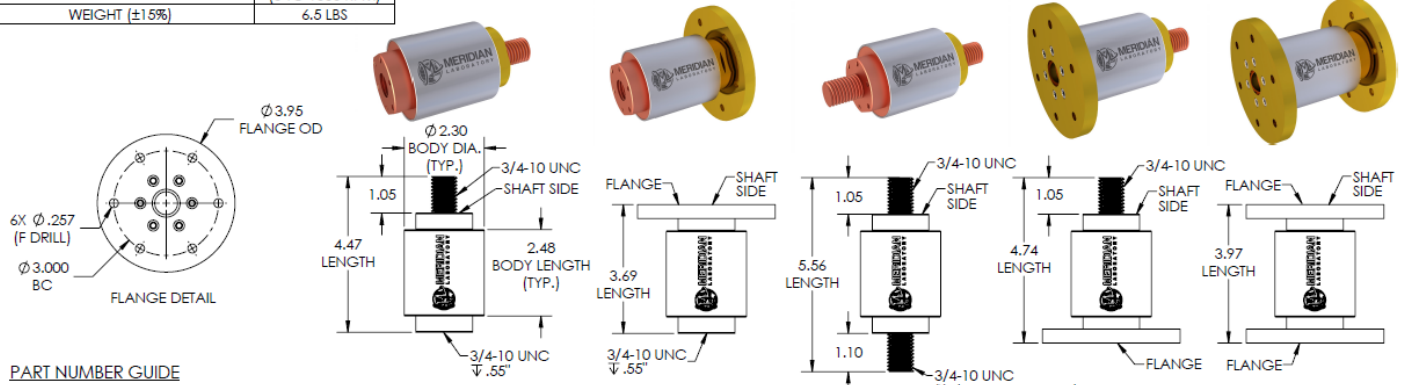
*Enjoy the low resistance, zero maintenance benefits your ROTOCON rotary ground provides!*



SPECIFICATIONS	NOTES
NUMBER OF CIRCUITS	1
DC CURRENT	800A
AC[60Hz] CURRENT	700A
AC[120Hz] CURRENT	600A
<i>For all other AC frequencies, contact Meridian Lab</i>	
VOLTAGE	N/A
MAX CONTINUOUS RPM	1000
STATIC TORQUE	< 0.70 in-lbs < 79.1 mNm
OPERATING TEMPERATURE [Non-RoHS]	-20°C TO 70°C
OPERATING TEMPERATURE [RoHS]	10°C TO 70°C
HOUSING MATERIAL	304 STAINLESS STEEL
CONTACT RESISTANCE	<1mΩ
DYNAMIC RESISTANCE	<1mΩ (0 TO 1000 RPM)
WEIGHT (±15%)	6.5 LBS

INSTALLATION NOTE: DO NOT RIGIDLY MOUNT BOTH SHAFT AND BODY AND ENSURE CABLE WEIGHT IS <25 LBS

FOR 3D CAD FILES  
PLEASE CONTACT  
MERIDIAN LABORATORY



PART NUMBER GUIDE

ERG - 800 -

- 0 = THREADED HOLE (3/4-10)
- 1 = THREADED STUD (3/4-10)
- 2 = FLANGE (BODY SIDE, SHAFT SIDE)

R = RoHS COMPLIANT  
BLANK = NOT RoHS COMPLIANT  
\*FOR RoHS UNITS ADD .050" TO LENGTH DIMENSIONS

Model	Hardware Inc.
<b>ERG-800-01</b>	Hardware Inc.: 2x 3/4" LockWasher 1x 3/4"-10 Hex Bolt 1x 3/4"-10 Nut
<b>ERG-800-02</b>	Hardware Inc.: 1x 3/4" LockWasher 1x 3/4"-10 Hex Bolt 1x 3/4"-10 Nut
<b>ERG-800-11</b>	Hardware Inc.: 2x 3/4" LockWasher 2x 3/4"-10 Nut *(ERG-800-31 = 9/16-12 STUD)
<b>ERG-800-21</b>	Hardware Inc.: 1x 3/4" LockWasher 1x 3/4"-10 Nut
<b>ERG-800-22</b>	Hardware Inc.: N/A

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SCALE: 1:1.25	MERIDIAN LABORATORY	Rev
DEC. TOL ±.01 DEC. TOL ±.1 ANG. TOL ±1/2	Title ERG-800 TECHNICAL SPECIFICATIONS	A
Drawn By JCE	Date 03/23/2021	Model No. ERG-800
		SHEET 1 OF 1

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**ROTOCON HIGH CURRENT ROTARY GROUND SERIES**

Meridian Laboratory offers a full lineup of single contact, high-current rotary ground clamps that all provide a consistent, maintenance-free contact unaffected by RPM or total number of revolutions.

The ERG Series is available both in end-of-shaft and through-bore configurations in a range of amperage levels, dependent on your needs.

Purchase Direct



**PHONE**  
608-836-7571  
800-837-6010

**EMAIL**  
info@meridianlab.com

**VISIT**  
2415 N. Pleasant View Rd.  
Middleton, WI 53562

**SIMPLE INSTALLATION**

**100% MAINTENANCE FREE**

**DOES NOT REQUIRE ANY GREASING**



## Solid Workpiece Attachment

### THREADED HOLE



Thread workpiece into unit \*

### THREADED STUD



Thread into workpiece †

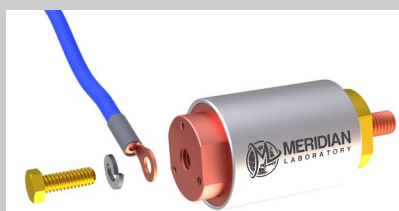
### FLANGE



Mount to workpiece ‡

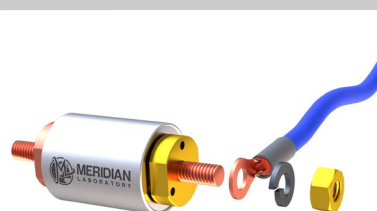
## Flexible Cable Attachment

### THREADED HOLE



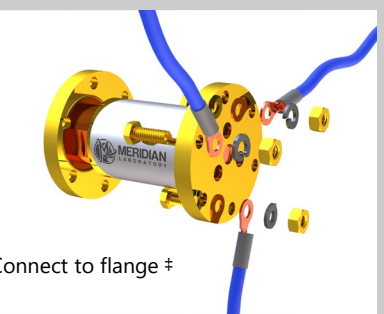
Thread bolt into unit \*

### THREADED STUD



Connect to terminal lug †

### FLANGE



Connect to flange ‡

### General Notes:

- Either end of unit can rotate or be stationary
- Can be used in any direction and orientation
- Can be used for the positive (plus) or the negative (ground) end of all electrical circuits
- Accommodates weight (up to 25#) of cables and work pieces, but provide cable strain relief and avoid significant sideloading for optimal performance
- Ensure electrical connections are adequate and solid surface-to-surface contact is made between conductors

\* Bolt, nut, and lockwasher provided

† Nut and lockwasher provided

‡ Hardware not included