



Model 130 Brushless Slip Ring

Conductors: One Conductor
Amps: 30

The Mercotac® model 130 brushless slip ring is a compact, single-channel slip ring that is suitable for applications that require up to 30 Amps of current capacity. It is specifically designed for applications that require more current capacity than the model 110 or 110-T, but do not need the high 250-amp power of the model 1250. This slip ring is ideal for electroplating and welding uses, but can also be used in automation machinery, mineral processing and other applications

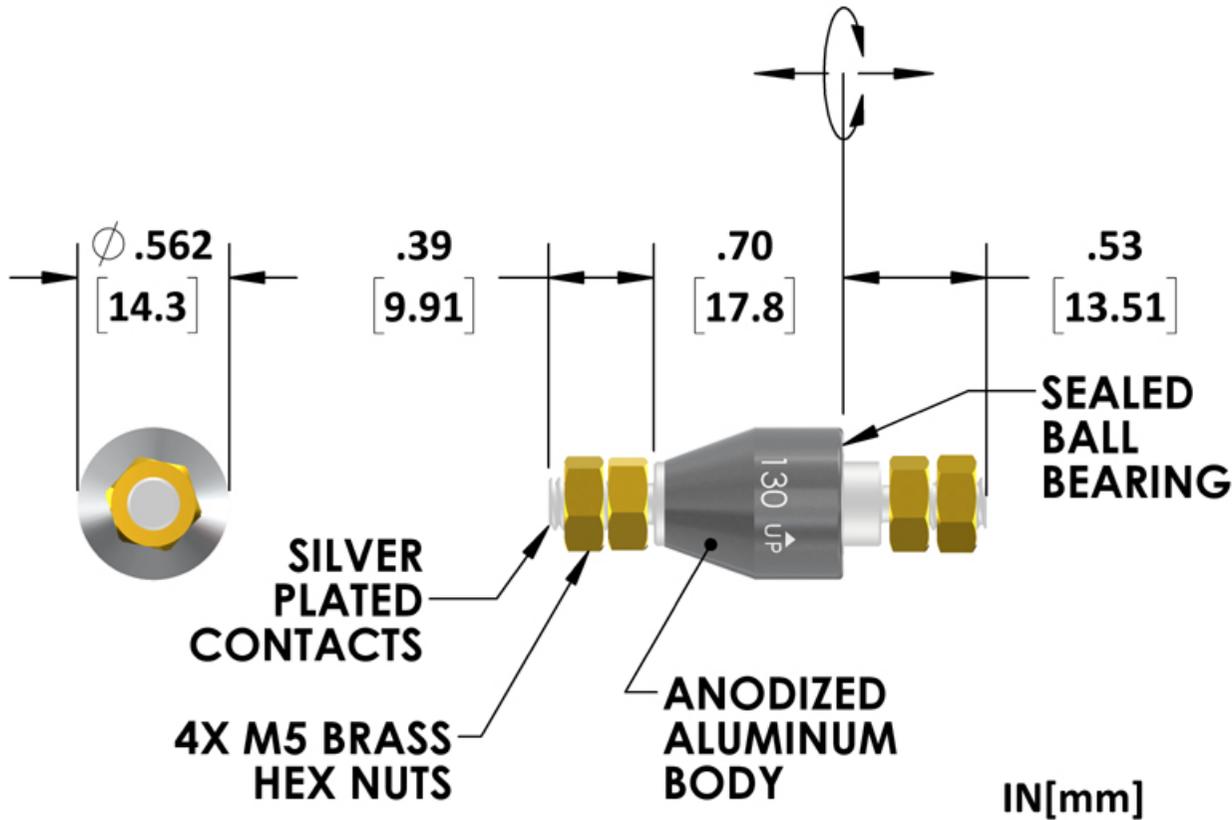
Advantages:

- Durable, compact, and low cost
- Use for signal and/or power connections
- Easy to install and replace
- IP 51 protection rating with boot kit
- Lightweight with robust metal construction
- Long-lasting, energy efficient, and no maintenance
- Made in the USA



Model 130 Product Specifications

Dimensions



Details:

- Disconnects are not included
- Available with stainless steel ball bearing (130-SS) (recommended for wet or corrosive environments)

Specifications

Model No.	Terminals	Body Material	Bearing Type	Max. Rotational Torque (gf-cm)	Max. Voltage Rating (AC/DC)	Max. Current Rating (Amps)	Max. Rotational Speed (RPM)	Operating Temp. Min °F (°C) Max °F (°C)	Max. Frequency (MHz)	Contact Resistance (mΩ)	Circuit Separation (MΩ)
130	1	Anodized Aluminum	Chrome Steel	75	N/A	30	2000	Min -20 (-29) Max 140 (60)	200	<1	>N/A
130-SS			Stainless Steel								

"SS" designator indicates stainless steel ball bearing (recommended for wet or corrosive environments)

Accessories

Connector options are noted below. They are not included with a 130 Mercotac purchase. Order the desired connector(s) separately.

Description: Boot Kit Parts
Item #: 57130

- Vinyl Boot Kit for dust and splash protection
- IP51 protection rating



Description: Boot Kit Assembled
Item #: 57130

- Vinyl Boot Kit for dust and splash protection
- IP51 protection rating



Note: For attaching the wires, use a ring terminal with a hole large enough for a 5mm stud. Not currently offered. Purchase externally separately.

Mounting

Mercotac Model 130 is typically mounted by the threaded stud on either end or by the black body using a set screw. When mounting horizontally, mount the Mercotac so the body of the connector rotates

Bottom Mount with Conductive Shaft

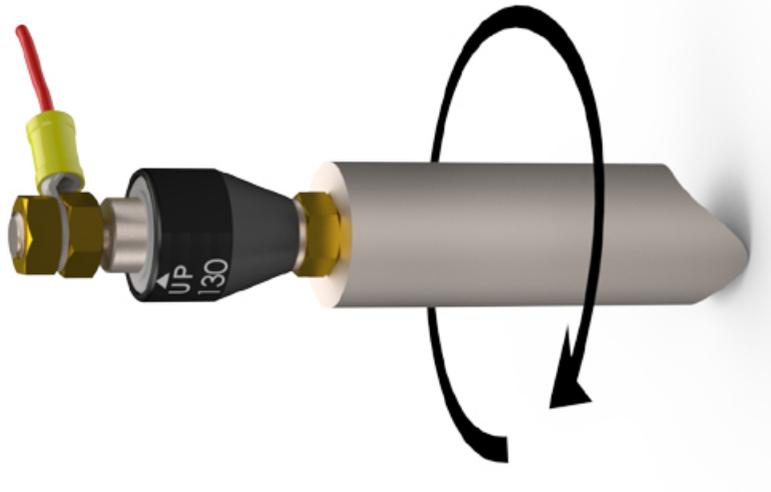
Top Mount with Conductive Shaf



Preferred mounting orientation.



Horizontal Mount with Conductive Shaft



Installation Notes:

- The up arrow should not point below horizontal.
- Do not solder to or bend terminals.
- Avoid lateral forces and mechanical loads (overly stiff or tight wires).
- Do not rigid mount both ends of the Mercotac.
- Limit the mounting eccentricity (runout / wobble) to .005" (.13mm).
- Provide overload protection within the circuit.
- Avoid vibration and bumping motions.

Connections

1. Threaded connection to rotating shaft.



1. Threaded connection to rotating shaft.
2. Stationary end showing wire attached with a ring terminal.

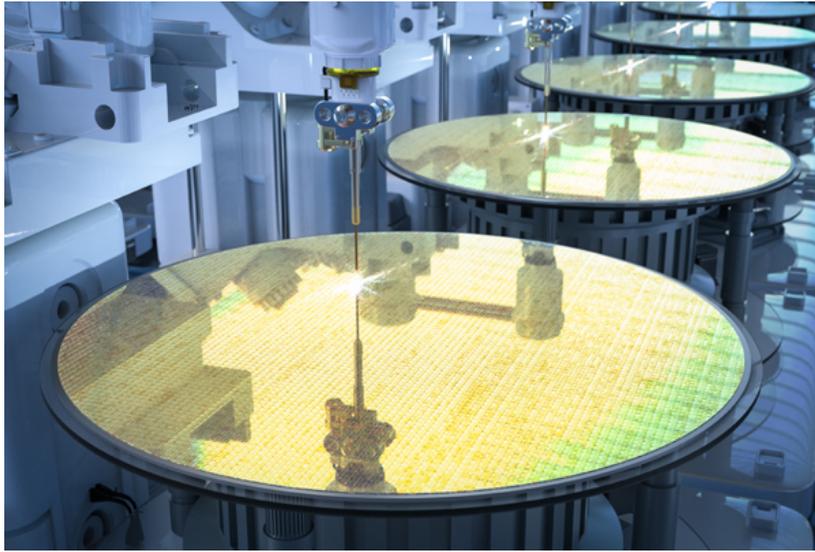
Model 130 Wire Connections with Optional Boot Kit



1. Threaded connection to rotating shaft.
2. Stationary end showing optional boot kit.
3. Cutaway view.

Applications

The Mercotac model 130 brushless slip ring provides a compact, low-cost, and high-performance electrical connection that is unsurpassed in a wide range of applications that require up to 30 amps of current. It is much smaller than other alternatives, making it ideal for applications with space constraints. Some possible uses are for strip electroplating lines, general electroplating, and electroforming of parts. Another typical application is welding, such as spot welding on a rotating production turntable. It provides a



cost-effective solution for a low-resistance, stable electrical connection and is an ideal solution for many industries. The applications for this brushless slip ring are only limited by one's imagination.

Check out our [Applications](#) page for more examples of how Mercotac products are utilized.

Learning Center

Guidance for using Mercotac® Brushless Slip Rings in engineering designs.



Learn about our Mercotac® Construction & Materials: Body Materials, Bearing Types, Conductors/Terminals, Thread Sizes, Mounting Options.
[Learn More](#)



Learn about Mercotac® Electrical Characteristics: Voltage Rating, Current Rating, Contact Resistance, Circuit Separation, Operating Temperature, Frequency.
[Learn More](#)



Learn about Mercotac® Rotational Characteristics: Rotational Speed, Rotational Torque.
[Learn More](#)

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