

POWER PLATE™

Breakthrough Technology in
Rotary Electric Unions



CONNECT • ROTATE • ELEVATE

POWER PLATE™

APPLICATION VERSATILITY • RELIABILITY • LONG LIFE • LOW ELECTRICAL NOISE



PUT POWER PLATE™ TECHNOLOGY TO WORK In applications from mobile equipment to machinery, robotics to rotating signs, and throughout industry, POWER PLATE™ is the name to choose. It is the best solution for smooth, trouble-free rotating power and information transmission.

DEFEATING THE CHALLENGES IN ROTARY ELECTRICAL TRANSMISSION

CONTINUITY IS CRITICAL

Intermittent transmission of electrical power and data through rotating connections can cause unreliable, and even unsafe, operation of your product. Corrosion, wear, arcing, and contamination in conventional slip rings may be at fault. There is just one best answer. It's the breakthrough, continuous connection technology* in the **POWER PLATE™** family of slip plates.

POWER PLATE™ slip plates are built around Hydromotion's exclusive rotating contact plates. This design guarantees full-time, 360 degree contact between the fixed and rotating elements. It eliminates dead zones and the deterioration that lead to intermittent operation or total failure. The result is trouble-free transmission for power, a noise-free channel for CAN/BUS and other multiplexed signal communications, low ownership cost, and a long life cycle.

* Patent Pending

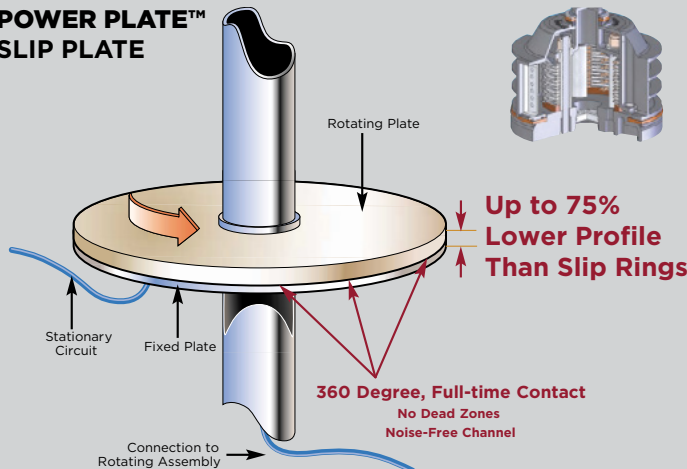
MAKING YOUR PRODUCT BETTER

Hydromotion engineers the **POWER PLATE™** family of products to perform and build value for you and your customers, in tough environments in a world of applications.

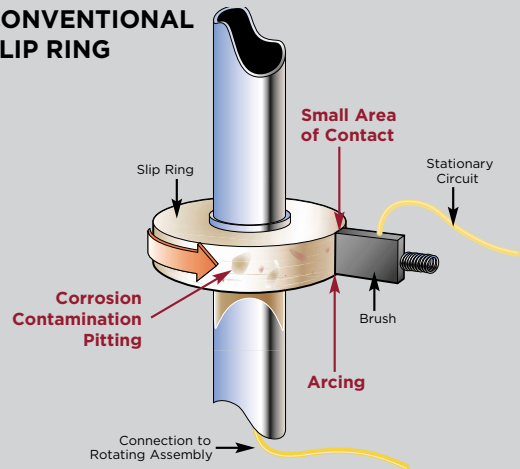
- No maintenance—sealed, internally lubricated assembly
- Lighter weight and simpler, more compact structure
- Lower profile—up to 75% less height than slip rings
- Longer life, field proven, reliable performance
- Lower cost, making your product more competitive
- Configuration options—position sensing, circuit selections, all to meet your needs

POWER PLATE™ TECHNOLOGY - A CLEAR BENEFIT

POWER PLATE™ SLIP PLATE



CONVENTIONAL SLIP RING



CHOICES FOR YOUR PRODUCT Continuous connection technology is available in models to fit your application

POWER PLATE™

The Low Cost, Ready-to-Go Solution

The **POWER PLATE™** model, with a high-impact plastic case and molded-in components, is the economical solution for a broad spectrum of applications. The standard configuration of twelve, 20A pre-wired circuits eliminates assembly line internal wiring. An environmentally sealed housing and dry lubricant eliminate maintenance cost. And at only 2.6 pounds, it's the choice for weight-critical applications.

POWER PLATE™ XD

For More Demanding Environments

The rugged **POWER PLATE™ XD** slip plate is built in a hermetically sealed aluminum case. Configurations can be tailored for your product, including absolute analog position encoder, number of circuits installed, and mounting arrangements. A dielectric lubricant fill reduces temperatures in higher speed use, while it maintains stable circuit continuity. **POWER PLATE™ XD** is the right fit for more rigorous applications.

	POWER PLATE™	POWER PLATE™ XD	POWER PLATE™ CUSTOM
CIRCUITS	12	2 to 38	Custom design and configuration to meet customer requirement
I/O WIRING	12 gauge	18 to 10 gauge	
MAXIMUM CURRENT PER PLATE	20A	30A	
SPEED	10 RPM	20 RPM	
HOUSING	High-impact plastic; environmentally sealed to exclude dirt and water	Anodized aluminum; hermetically sealed	
MOUNTING	2, 5/16 - 18 UNC threaded holes on 2 1/2" bolt circle	2, 5/16 - 18 UNC threaded holes on 2 1/2" bolt circle	
LUBRICATION	Dry lubricant	Silicone oil	
POSITION SENSOR	N/A	Absolute encoder 0.5 - 4.5 VDC output	
OPTIONS	Fixed standard configuration	Customized for customer requirement	

A WORLD OF APPLICATIONS



Applications abound, wherever power, or analog or digital signals must be sent through rotating platforms. **POWER PLATE™** and **POWER PLATE™ XD** slip plates have applications in both stationary and mobile equipment, including:

- Aerospace
- Agriculture
- Chemical handling
- Data communication & transmission
- Forestry equipment
- Industrial automation
- Machine tools
- Marine
- Material handling
- Medical equipment
- Military/Government
- Mining/Construction
- Mobile lifting & attachments
- Papermaking
- Robotics
- Rotary signage
- Tank farms



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