



News Release

For Release: Immediately

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Parker features Global Shield™ Advanced Anti-Corrosive Piston Rod Coating Technology for Solar Power Actuation Systems in High Humidity and Coastal Climates
Advanced coating can extend cylinder/actuator service life up to 8x when compared to conventional coatings

See us at Solar Power International, Sept 10-13, Mandalay Bay Convention Center, Las Vegas, NV Booth #1545

August 31, 2017 Las Vegas, NV– Parker Hannifin Corporation, the global leader in motion and control technologies, continues to expand its advanced cylinder rod coating technology that resists corrosion up to eight times longer than conventional coatings. The Global Shield™ coating was specifically designed to meet the corrosion, caustic, impact, chemical and salt water resistance requirements of challenging industrial and outdoor environments while avoiding the detrimental environmental impacts caused by current plating technologies. The coating will be illustrated on rod cylinders in Parker's Hybrid Actuation System, which will be on display in the ***SPI 2017 Parker booth #1545– At the Mandalay Bay Convention Center, Las Vegas, NV - Sept 10-13*** in a solar panel actuation demo.

This highly engineered coating greatly exceeds the performance of industrial hard chrome and nitriding while matching or exceeding the corrosion resistance of costlier high-performance alternatives. It can be applied during original Parker cylinder manufacture or installed after-market, during cylinder maintenance through a process that is both efficient and environmentally responsible.

Global Shield coating was designed to meet the requirements of heavy-duty, outdoor applications with zero tolerance for downtime. It is ideally suited to a variety of applications that include renewable power generation, such as solar actuation solutions and related equipment. Global Shield is available as an option for almost all Parker cylinder sizes.

According to Michael Sell, Parker Cylinder Product Manager, "Development of Global Shield is a direct response to customer demands for a more advanced corrosion resistant coating." "Current customers in industrial markets are seeing decreased costs associated with operating critical equipment due to significantly lower rates of rod corrosion and seal failures," he added.

When compared to traditional coatings, Global Shield has the following advantages:

- *Decreased Downtime*: reduced maintenance intervals due to increased useful life of Global Shield coated components
- *Increased Corrosion Resistance*: submicron fully dense structure and increased plasticity eliminates micro-cracking
- *Promotes Ease of Repair*: significant reduction of base material corrosion reduces required processing for after-market repairs of rod cylinders

In addition, Global Shield is a more environmentally friendly coating than current conventional coatings. The Global Shield coating process involves no chromium, no hex valence, has no hazardous waste stream, and has no Personal Exposure Limit (PEL) concerns. The process is OSHA and EU RoHS Compliant (Directive 2011/65/EU).

For more information on Global Shield coating technology please visit our web page at:

<http://parkercylindernews.com/global/index.html> and view related Global Shield application reference in related brochure on Hybrid Actuation System (HAS) solar solution:

<http://parkercylindernews.com/PDF/HY08-1710-B3.pdf>

About Parker

Parker Hannifin is a Fortune 250 global leader in motion and control technologies. For 100 years the company has engineered the success of its customers in a wide range of diversified industrial and aerospace markets. Learn more at www.parker.com or @Parker-Hannifin.

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