



Pump and motor family delivers superior performance in a compact package

Eaton has announced the launch of its X3 medium-duty pump and motor portfolio, including a new two-speed cartridge motor paired with single or back-to-back pump configurations. Combining superior package size, precision and efficiency, Eaton's latest plug-in variable piston motor solutions are designed to help original equipment manufacturers (OEMs) improve machine control, productivity and system life.

"Eaton's X3 pump and motor portfolio offers a compact package for mobile applications where space is at a premium," said Florin Radoi, product manager for mobile pumps and motors, at

Eaton's Hydraulics Group. "Providing more flexibility and customization in designing mobile machines, OEMs can combine improved control and accuracy as part of an advanced propel solution."

Eaton's X3 two-speed cartridge motor is available in 41cc and 49cc displacements, providing more top-end horsepower at the wheel while ensuring most mid-frame mobile propel needs are covered. The motor also has a built-in speed sensor port, making it easy to add a sensor to measure speed and direction. Using a standard SAE B 2-bolt mount, the motor will fit into virtually any existing machine design and can also be positioned as a drop-in replacement for several motor configurations.

Built for durability in the toughest mobile environments, the X3 motor pairs with back-to-back or single pump options, which offer a 36 percent increase in the side load capacity over previous generations of Eaton pumps. The compact size makes it easier for designers to fit the pump into smaller machines, a key advantage given the increasing need to save space in construction and agricultural equipment. The pump also has improved packaging that better protects the control solenoids against damage.

The X3 portfolio is a Pro-FX Ready integrated solution that is available with a variety of controls, including a non-feedback electrohydraulic control, a hydraulic remote control and a manual servo control. When combined with an Eaton HFX programmable controller, the solution can actively sense and dynamically adjust parameters such as position and flow – taking dynamic machine control to a whole new level.

www.eaton.com/X3



Igus expands its PRT-04 slewing ring range for compact rotation in tight spaces

The space-saving PRT-04 slewing ring bearings are now available in a range of sizes with inner and outer tooth drives and a locking function. Compact and lightweight, the new bearings have been developed specifically for movement in tight spaces and give Igus an entire PRT-04 modular system. The lubrication-free, slewing ring bearing system comes in eight sizes and features an outer tooth drive and angle stop (optional), and now also inner drive teeth and a locking function. This allows the design engineer to find the right bearing product for applications with very little installation space.

Igus slewing ring bearings rotate assembly units, control panels and indexing tables, even at high speeds. For them to turn while remaining maintenance-free, Igus uses sliding elements that work radially and axially between the bearing's inner and outer faces. These slides, that are made of the high-performance polymer iglidur J, ensure that friction and wear are minimised without lubrication.



Introduced as a new product in 2019, Igus is now launching an entire modular system for the PRT-04 ring bearing range. The corrosion-resistant slewing rings have been developed specifically for use in tight installation spaces and for loads of up to 48KN. The PRT-04 range requires only half the space the PRT-01 needs, is 60% lighter and costs 20% less. Several strong arguments have shown customers the merits of the new range. "The PRT-04 slewing ring bearings allowed us to implement several applications in automation technology in the packaging industry and furniture technology," says Dean Aylott, product manager for the PRT business unit at Igus UK. "The series has now been expanded so that design engineers can have even greater design freedom."

The compact, lightweight slewing rings are available in eight sizes from 20 to 300 millimetres. In addition to standard accessories such as drive pins, variable mounting plates and clamping levers, Igus offers three outer drive ring systems and one inner drive ring for very tight installation spaces, such as in automated transport systems. The slewing ring bearings are driven with drive belts or gears that Igus manufactures by injection moulding highly wear-resistant tribo-polymers.

Igus has also developed a slewing ring bearing with a locking function specifically for applications such as assembly tables.

www.igus.co.uk/slewing-ring-bearings

RS Components extends its range of RS PRO sensors with over 340 additions

RS Components has announced the expansion of its popular RS PRO sensors range to give customers a comprehensive choice of sensors for use in factory automation applications. The range consists of high-quality sensors and accessories that deliver excellent reliability and great value.

Ultrasonic proximity sensors and fibre optical sensors have been added to complement the existing photoelectric proximity sensors (through-beam, retro-reflective and diffuse), inductive proximity sensors and capacitive proximity sensors. Depending on the sensor technology selected, RS PRO products can be used to detect a wide range of materials including metals, plastics, paper, liquids, powders and particles. They are ideal for incorporation into quality and verification systems.



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