

Products: Motion Control

Rodless electric actuators



Rodless actuator supplier Tolomatic has introduced MXE electric actuators to its MX product platform. MXE offers two different bearing options in a line of modular actuator bodies for lean manufacturing efficiencies. The profiled rail design uses THK Caged Ball technology to reduce friction and extend actuator life in high load and moment applications. The trapezoidal solid bearing design reduces stress concentration by 59% for millions of maintenance-free cycles.

tolomatic.com

Info Card 364

Slotless brushless dc motors



Pittman "Size 04" slotless brushless dc motors from AMETEK Technical & Industrial Products are said to perform with virtually no noise or vibration at high speeds. No load speeds up to 50000 rpm and continuous torque up to 0.30 oz in. can be achieved. Features include 2-pole rotor, 3-phase stator, and neodymium magnets, as well as stainless steel housings, shielded ball bearings and balanced rotors.

ametekttechnicalproducts.com

Info Card 421

Modular controller master



The Model CSMSTR from Red Lion is a communications and control platform designed for use with Modular Controller Series slave modules. The unit uses a proprietary serial protocol to communicate,

via backplane connection with up to 16 slave modules. The master provides RS232/422/485 communication ports and an Ethernet port for connection to PCs, PLCs and SCADA systems. The 10 Base-T/100 base-TX Ethernet port can also be used to connect and share data with other devices at high speeds.

vickers-warnick.com

Info Card 422

Sanitary conveyor systems



Dorner Mfg. Corp. has engineered every conveyor series within its AquaPruf line of sanitary conveyors with enhanced controls and system capabilities such as inspection, identification, sortation and label/marketing positions. The company can outfit any conveyor in its AquaPruf line with inspection systems, and Dorner engineering can integrate multiple inspection operations onto one conveyor and combine controls to create one system.

dorner.com

Info Card 368

Rolling ring drives



Uhing RG rolling ring drives convert the rotary motion of a threadless shaft into backlash-free linear output. The smooth shaft prevents clogging or jamming. Linear speed and travel direction are mechanically controlled – independently of the drive motor. The design is said to simplify design, set-up and operation by eliminating the need for complex electronic controls. Applications requiring repetitive "back-and-forth" linear motion (click logo for video clip) include winding machines, spray/coating equipment and scanning devices.

amacoil.com

Info Card 365

Multi-axis positioning tables



Danaher Motion has introduced IDC DS4 positioning tables (click logo for 3D PDF). DS4 tables feature the IDEAL-SEAL system for properly tensioned seal strips, said to provide for maximum seal strip life and easy access to the table interior for mounting and maintenance. The tables offer a configurable modular design with option and accessory sets. The ballscrew drive has 5 and 10 mm leads and standard bi-directional repeatability of ± 3 microns, with a Precision Grade version repeatable to ± 1.3 microns.

electromate.com

Info Card 366

Linear stepper motor



A 2-phase, linear stepper motor from H2W Technologies with 1-micron resolution is designed for integration into new and existing applications. The "5 lb Linear Stepper" travels at 80 ips, can operate in any axis, and features 1 G acceleration. Resolution by full stepping is 0.010 in. and by microstepping is 0.00004 in. (1 micron). The single axis unit is capable of 22 N of continuous force.

h2wtech.com

Info Card 367

Hybrid stepper motors



Ametek Technical & Industrial Products has announced MAE brand hybrid stepper motors are engineered to deliver accurate open loop control for a wide range of high-performance positioning applications.

Three series of MAE brand motors in various standard NEMA frame sizes are available, all with step resolutions of 1.8° in full-step mode. Holding torques (bipolar) ranging from 12 to 2018 oz in. can be achieved, depending on model.

ametekttechnicalproducts.com Info Card 369

Single-axis servo controller



Techno, Inc. has introduced the Phoenix I single-axis servo controller, a package that includes a servo controller, drive, power supply, enclosure, wiring, cabling and software. As a standalone unit, it does not require a PC to operate, only to program. The Phoenix I controls a single belt slide, ball screw slide or rotary table with servomotor. The jog buttons on the front allow for manual positioning without the PC.

techno-isel.com

Info Card 370

BLDC adjustable controls



Baldor has announced the BMC-series of controls now provides designers the advantages and benefits of brushless dc technology for adjustable speed applications. These include quieter operation, less maintenance, tight speed regulation and a more efficient design, the company says. The brushless motor control is available from 1/4 to 3 hp and will accept 115, 208, or 230 Vac input voltage. The series includes protection features such as rms current, short circuit, electronic inrush, under-voltage and over-voltage, motor overload, MOV transient and finger safe IP20 protection.

baldor.com

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