

Spotlight

Motion Control



Cam roller runner blocks

Rexroth cam roller runner blocks for eLINE profiled rail systems are said to be smooth running with minimal noise at travel speeds of up to 12 m/s. Low friction levels of the lightweight cam roller runner blocks are also said to minimize lubricant consumption and guarantee long service life. The clean-room compatible linear components generate no dust due to abrasion of plastic parts and are easy to clean.

boschrexroth.ca

Info Card 396



Digital PWM motor control

Bodine Electric Company has introduced a digital pulse width modulation (PWM) controlled version of its INTEGRAMotor line. The motors combine the four elements of a typical motion control system – a control, a brushless dc motor, a gearhead and an optical encoder – into one package. The PWM models combine a 24 Vdc brushless dc motor with a built-in open loop voltage mode PWM controller.

bodine-electric.com

Info Card 300



Heavy duty linear actuators

Bishop-Wisecarver Corporation has announced the heavy duty SRX-150, is now available in five standard lengths. The product line features aluminum profile linear actuators in belt or ball screw driven versions. Both the ball screw and belt driven units are now available in 400, 600, 1000, 1500 and 1900 mm stroke lengths. The additional lengths are said to shorten lead delivery times.

bwc.com

Info Card 297



Digital servo drives

The Electromechanical Automation Division of Parker Hannifin has added four high-current power levels to its Compax3 series of digital servo drives. Units are now available with up to 75 kW of output power. The series has four output currents: 50, 90, 125 and 155 A rms. All these have an input voltage range of 350 to 528 Vac. The drives are capable of controlling both synchronous and asynchronous motors.

parkermotion.com

Info Card 302



Panel PCs provide control

Beckhoff Automation has announced the CP72xx line of Intel M-Class Panel PCs designed for simple mounting arm installation. Units integrate all features required for HMI hardware and advanced PC-based machine control in a housing depth of 98 mm. Available in screen sizes of 12, 15 or 19 in., the IP65 protected water- and dust-proof Panel PCs feature aluminum housings with motherboards developed by Beckhoff. Units also feature a free Mini-PCI slot.

beckhoffautomation.com

Info Card 298



High-level language PLCs

The CP 2xx/3xx HLC from Phoenix Contact is suitable for small to medium series applications where a flexible controller that can be programmed with proprietary algorithms using high-level languages is needed. Controller applications and visualizations can be programmed using Microsoft Visual Studio .NET without having to pay a license fee. The Ethernet I/O interface simplifies connections.

phoenixcontact.ca

Info Card 294

Dual-loop servo system

YET US Inc. has announced the addition of the XtraDrive-DL to its XtraDrive Servo System product line. The DL (dual loop), two-encoder model is said to effectively address instability issues inherent in high-speed precision motion system applications requiring superior precision accuracy. The model automatically senses and compensates for inaccuracies from the effects of repetitive motion and temperature variances, providing position control to ± 1 micron.

yet-motion.com

Info Card 303



Ethernet-based motion

Baldor Electric Company has launched Ethernet Powerlink 3-phase ac drives that are said to offer all the major motion control functions, including single-phase drives, a motion and machine controller, and development tools. The introduction of 3-phase ac drives means that users can build all-Ethernet systems with the optimum choice of motor technology for each axis, the company says. Rotary and linear versions of brushless servo, and ac vector motors are all software selectable.

baldormotion.com

Info Card 299

VFD conveyor motor control

Dorner Manufacturing has introduced a single input interface VFD motor control for conveyor systems. The unit comes ready to install with no wiring required. The control unit is designed as a plug-and-play, which allows users to hook it up to the conveyor system, plug in the accessory that best meets their specific application and turn it on. Applications include indexing, increasing or decreasing conveyor belt speed and powering a variety of add-on accessories, such as photo eye kits.

dorner.com

Info Card 295



0.9° linear actuators

Haydon Switch & Instrument has announced that its size 23 hybrid linear actuators are available with a 0.9° step angle. The step angle is designed for higher resolution and allows for a full step linear movement of 0.0000625 in. Like the 1.8° version, the actuator is available in four designs; captive, non-captive, external linear, and linear rotary. Combined with a stainless steel lead screw, the linear actuator provides operational thrust up to 200 lb.

hsi-inc.com

Info Card 301



UL-approved servo drives

Advanced Motion Controls has announced UL approval for its DigiFlex digital servo drives. The drives can operate brushed and brushless servomotors, and support encoder or resolver feedback. A ± 10 V command reference signal can be used to control either torque or velocity.

electromate.com

Info Card 304