

SPOTLIGHT

Motion Control



Crane controls

The **Magnetek Material Handling Group** has introduced Electromotive Systems Impulse G+/VG+ Series 3 crane controls. Designed to mirror the programming the Impulse Series 2 product line, the Series 3 offers additional features such as an improved keypad with expanded digital display, additional alarm and fault codes, increased current carrying capacities and load share.

magnetek.com

Circle DPN 303

Roller pinion system

Nexen Group Inc. has announced the Precision Roller Pinion System (RPS). The technology is said to convert rotary motion into very precise, backlash-free linear motion, while operating at high speeds over long distances. The system features a patented tooth design, combined with a pinion consisting of bearing-supported rollers that move smoothly along the face of each tooth.

nexengroup.com

Circle DPN 296

Digital servo drive

Advanced Motion Controls has announced the digital ZDR servo drive is designed to be PCB embedded. It can drive brushed or brushless rotary or linear motors, or voice coils. The 3.4 oz, 2 x 2.5 in. product can output up to 6 A continuous and 12 A peak from 20 to 80 Vdc. Multi-mode operations include: torque/current, velocity, analog input positioning, step and direction.

electromate.com

Circle DPN 300

Drives rated to 10 kW

Elmo Motion Control has announced Tuba, the latest product in its SimplIQ servo drives line. The 6 Tuba models range in output power from 3.32 to 10.0 kW in an overall size of 9.7 x 7.4 x 3.6 in. that weighs <5.9 lb. A built in power supply provides a direct ac input capability that ranges from 115 to 460 Vac at 50/60 Hz. Operating network functionalities includes CANopen DS301.

elmomc.com

Circle DPN 306



'Drive-like' stepper control

The **Beckhoff KL2531** and KL2541 stepper motor terminals are said to be a compact and cost-effective I/O alternative to traditional stepper controls. A standard motor with a 1.8° step angle can be set to up to 12,800 electronic positions per turn. The drive technology bus terminals integrate into stepper motors up to 200 W, eliminating the need for remote amplifiers. With a size of 12 mm, the KL2531 bus terminal covers the lower performance range. The device is designed for integration into a 24 Vdc control voltage system.

beckhoffautomation.com Circle DPN 297



Single-axis drive system

Applied Motion Products has announced the BLu series single-axis controller and drive system designed to provide high performance and precise control of a single brush or brushless or linear servomotor. It combines a programmable motion controller and 950 W drive. The hardware features a digital signal processor coupled to an IGBT PWM amplifier. The system can be combined with a tunable position loop and velocity and acceleration feed-forward for high performance results.

applied-motion.com

Circle DPN 305

Nano-controllers employ large ladder logic capacity

Rockwell Automation has announced the Allen-Bradley line of Pico Series B nano-controllers. The controllers are said to be equipped with faster processor speeds and an expanded memory, resulting in three times the ladder logic capacity and twice the number of function blocks than previously available. The line of controllers also features backwards-compatible programming, improved display functionality and additional power supply options. The nano-

controllers use free PicoSoft 6.0 software.

ab.com

Circle DPN 302



High performance brush and brushless servomotors

Trust Automation, Inc. has introduced a series of brushed servos and two series of brushless servos engineered to reduce torque ripple. Integral encoder, brake and tachometer options make the servos suitable for robotics, machine tools, medical equipment, assembly and packaging applications. The SE500 series consists of eight brushed servos from 23 to

500 W. These motors have been designed for high performance. For example, the 5000 rpm SE540-0200 motor is rated at 200 W, 3.3 A continuous, and 25 A peak. The SE600 series of eight low inertia brushless servos features servo motors that go from 30 to 1500 W and the SE700 series of twelve medium inertia brushless servos go from 50 to 7000 W.

trustautomation.com

Circle DPN 301



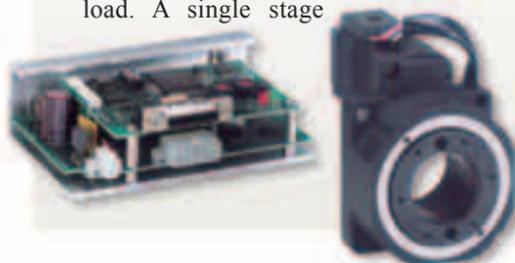
Hollow shaft rotary actuators available in three sizes

Oriental Motor USA Corp. has announced DG Series hollow (through hole) shaft precision rotary actuators. Units are available in 3 sizes, the 60 mm, the 85 mm and the 130 mm. The output table of the rotary actuators permit the user to directly couple to the application load. A single stage

reduction gear mechanism increases the diameter of the driven gear in the output table that enables a large through hole configuration. The gear reduction mechanism achieves a repeatability of ±15 arc sec and a total lost motion (backlash) of <2 min. The 60 mm rotary actuator achieves a permissible torque of 7.9 lb in. The 85 mm and 130 mm high rigidity models develop a permissible torque of 24 lb in. and 106 lb in., respectively. Maximum permissible speed is 200 rpm or 250 kHz input frequency.

orientalmotor.com

Circle DPN 299

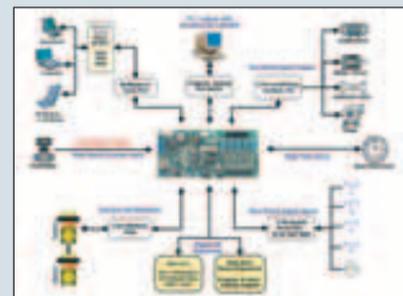


Electrical servo drive

The electrical compact drive MTR-DCI from **Festo** has been developed especially for format setting, i.e. multi-product machine setting such as in the packaging industry, where the correct guide stops need to be set for each carton size. The drive is said to be characterized by a compact design, an optional HMI and ease of operation. It can be mounted decentrally, creating space in the control cabinet and eliminating the need for climate control for the electronics. The entire commissioning procedure is accomplished either via the PC and RS232, using the Festo Config-Tool (FCT) software as standard or via the optionally integrated LCD, the HMI.

festo.com

Circle DPN 298



Programmable controller

Divelbiss Corp. has announced the Enhanced Baby Bear PLC based on PLC on a Chip technology. The unit is programmed using the Divelbiss EZ Ladder software that supports Ladder diagram and Function block programming. The PLC has 5 digital inputs and 5 relay outputs, expandable to 250 I/O. There is a dedicated port for connecting to EZ Ladder running on a PC.

divelbiss.com

Circle DPN 304