



PressRelease

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Galil Introduces Two Servo Drives with Sinusoidal Commutation AMP-43540 4-axis 600W Drive and AMP-43640 4-axis 20W Drive

(Rocklin, CA) — Galil Motion Control, an industry pioneer in motion control technology, is announcing two multi-axis servo drives that perform sinusoidal commutation: the AMP-43540 which contains four 600Watt servo drives and the AMP-43640 which contains four 20Watt servo drives. Both models are sinusoidally commutated which minimizes torque ripple compared to drives using trapezoidal commutation. This is especially important for applications using low friction linear motors.

The new AMP-43540 and AMP-43640 4-axis drives are available as options for Galil's DMC-40x0 Accelera and DMC-41x3 Econo motion controllers with Ethernet. Designed to minimize space, cost and wiring, the drives reside directly inside the controller enclosure. The packaging of the 4-axis drive inside the motion controller enclosure saves space compared to using external drives. The DMC-4040 4-axis controller and drive package dimensions are 8.1" x 7.3" x 1.7". Two 4-axis drives can also be installed inside the DMC-4080 8-axis controller package which measures 11.5" x 7.3" x 1.7".

The new AMP-43540 contains four 600Watt fully digital, transconductance amplifiers for driving brushless motors with sinusoidal commutation. Each amplifier drives motors operating at up to 8 Amps continuous, 15 Amps peak, 20-80 VDC. The gain settings of the amplifier are user-programmable at 0.4, 0.8 and 1.6 Amp/Volt. Both the switching and sampling frequencies are 33 kHz. The amplifier offers protection for over-voltage, under-voltage, over-current, short-circuit and over temperature. A shunt regulator option is available. The U.S. list price of the AMP-43540 4-axis 600W drive is \$1000 in single quantity and \$600 in 100 quantities.

The new AMP-43640 contains four 20Watt linear, transconductance amplifiers for driving brushless motors with sinusoidal commutation. Each amplifier drives motors operating at up to 1 Amp peak, 15-30 VDC with a gain setting of 0.1 Amp/Volt. The U.S. list price of the AMP-43640 4-axis 20Watt drive is \$600 in single quantity and \$350 in 100 quantities.

When using the AMP-43540 and AMP-43640 sinusoidal drives, hall sensors are not required for brushless motor commutation. Galil provides commands for initialization of the motor using the encoder feedback.

The AMP-43540 and AMP-43640 are available for immediate delivery.

For more info, see Galil's application note "Brushless Sine Drives" at <http://www.galilmc.com/support/application-notes.php>. Detailed specs for Galil controllers and drives see <http://www.galilmc.com/products/dmc-40x0.php> or <http://www.galilmc.com/products/dmc-41x3.php>.

For more information about Galil, please see <http://www.galilmc.com/> or contact Lisa Wade, VP-Marketing and Sales, at Galil Motion Control, Inc., 270 Technology Way, Rocklin, CA 95765, Ph. 800-377-6329 or email lisaw@galilmc.com.

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About Galil Motion Control, Inc. (www.galilmc.com)

Privately held and profitable for over 100 consecutive quarters, Galil Motion Control, Inc. was founded in 1983 by Jacob Tal and Wayne Baron. Galil became the first company to produce a microprocessor-based servo motor controller without tachometer feedback. Since then, Galil has continued to advance motion control technology and has found industry-leading acceptance with over 500,000 controllers successfully installed worldwide. Various applications include machines for the medical, semiconductor, machine tool, food processing, and textile industries. Recently, Galil has introduced several motion and I/O controllers for the Ethernet including the high-speed Accelera motion controllers, lowest cost Econo motion controllers and the RIO Pocket PLC series.



Image 1: Galil's 4-axis Brushless Sine Drives Install Directly Inside the DMC-40x0 Accelera or DMC-41x3 Econo 4- and 8-axis Motion Controllers