



PressRelease

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Editorial Contact:

Lisa Wade

Galil Motion Control, Inc.

916-626-0101 lisaw@galilmc.com

Galil Introduces DMC-30017 Pocket Motion Controller Single-Axis Controller with Microstepping Drive

(Rocklin, CA) — Galil Motion Control, an industry leader in motion control technology, is announcing a stepper motor drive option for their DMC-30000 Pocket Motion Controller Series. The new DMC-30017 combines a single-axis motion controller with a 6A microstepping drive. Like other products in the DMC-30000 Series, the DMC-30017 offers higher performance, better power efficiency, smaller size, and a lower price than prior generation, single-axis controllers.

“Now Galil offers a single-axis controller/drive package for stepper motors in addition to servo motors”, said Lisa Wade, vice president of sales and marketing. “The already released DMC-30012 combines a single-axis motion controller and 800W drive for servo motors. The new DMC-30017 contains a 6A microstepping drive for stepper motors.”

The DMC-30017 contains a microstepping drive for operating a two-phase bipolar stepper motor. The drive produces 256 microsteps per full step or 1024 steps per full cycle which results in 51,200 steps/rev for a standard 200-step motor. The maximum step rate generated by the controller is 3,000,000 microsteps/second. The DMC-30017 drives motors operating at up to 6 Amps at 20 to 80 VDC. There are four software-selectable current settings: 0.75A, 1.5A, 3 A, and 6A.

Designed for compact size, the dimensions of the DMC-30017 controller/drive package are 3.9” x 5.0” x 1.5”, and no external heat sink is required.

Like other products in the DMC-30000 series, the DMC-30017 is higher speed than Galil’s prior generation single-axis controllers; The 125 microsecond servo loop update time is twice as fast and the 15MHz encoder frequency and 3 MHz stepper pulse output are 25% faster. Other features of DMC-30000 controllers include PID compensation with velocity and acceleration feedforward, non-volatile memory for user programs, multitasking for simultaneously running up to four programs, and I/O processing for synchronizing motion with external events. Modes of motion include point-to-point positioning, position tracking, jogging, contouring, electronic gearing, ECAM, and PVT.

The DMC-30000 provides optically isolated inputs and outputs as a standard feature. I/O include forward and reverse limit inputs, homing input, 8 uncommitted digital inputs, 4 uncommitted digital outputs, 2 uncommitted analog inputs and 1 uncommitted analog output. Two daisy-chainable Ethernet ports are included and an external Ethernet hub is not required. A 115 kb RS232 port is also provided.

In addition to the DMC-30012 controller/servo drive and DMC-30017 controller/stepper drive packages, the DMC-30000 Series is also available as a controller-only model which can be connected to a stepper or servo motor amplifier of any power range.

The DMC-30017 controller and microstepping drive unit is \$745 U.S. in single quantity and \$480 in quantities of 100. The DMC-30017 is available for immediate delivery.

For more information, see: <http://www.galilmc.com/products/dmc-300xx.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 and was 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 their 5th generation single and multi-axis motion controllers for the Ethernet including the high-speed Accelera motion controllers, lower cost Econo motion controllers, and the single-axis Pocket Motion Controller series. Galil also offers the RIO Pocket PLC series for intelligent I/O control over Ethernet. Follow us on Twitter at [@Galil](https://twitter.com/Galil), Like us on Facebook at <http://www.facebook.com/Galilmc>, Subscribe on YouTube <http://www.youtube.com/user/GalilMC> and Join the Discussion on LinkedIn at <http://www.linkedin.com/groups/Galil-Motion-Control-1840468>.



DMC-30017 Single-axis motion controller and microstepping drive