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HITACHI INTRODUCES HIGH PERFORMANCE AC DRIVE MODEL

Tarrytown, NY, January 4, 2011, Hitachi America, Ltd., Industrial Components & Equipment Division, today announced the new SJ700-2200HFU2 model inverter, with a 440 A output current capability. This new model fills in the gap at 300-350 hp in the SJ700 series, which now completely covers the range from ½ to 600 hp.

The SJ700 significantly expands on the performance, capabilities and functions of its predecessor, the SJ300. Hitachi reasserts its technological leadership with an improved vector control algorithm and auto-tuning function that enables the open-loop SJ700 (SLV) to develop more than 200% starting torque at 0.3 Hz. Using Hitachi's unique "0 Hz Domain" open-loop control mode, the SJ700 can develop 150% torque near 0 Hz, ideal for vertical lift applications. In closed-loop mode with encoder feedback, the SJ700 performance is unmatched, delivering in excess of 100% torque at 0 Hz.

Another major new element in the SJ700 is Hitachi's EzSQ (Easy Sequence) built-in programming function. It's like having a PLC inside the inverter! In many cases, the need for a separate PLC can be eliminated. The user develops EzSQ programs on a PC, and then downloads them to the inverter using the simple-to-use configuration/programming software provided at no charge.

The SJ700 can deliver true servo-like position control when mated with a general-purpose induction motor and encoder, offering a low-cost motion control alternative. The SJ700, given a position command, speed command, and acceleration/deceleration times, can move the motor shaft from position A to position B following the defined profile and then maintain the shaft in "servo lock" status.

Hitachi has added other new features into the SJ700, such as patented micro-surge voltage suppression (to protect the motor winding insulation), advance trip avoidance functions, configurable sink/source logic on I/O, built-in dynamic braking circuit in models up to 30 hp (22 kW), built-in EMC filter up to 75 hp (55 kW).

The SJ700 also includes built-in RS485 Modbus/RTU communication, and options for other communications networks, such as Ethernet Modbus/TCP, DeviceNet, Profibus and LonWorks. Others, such as Ethernet/IP are in the works. The SJ700 can be configured via the front-mounted keypad or using Hitachi's ProDrive PC-based software.

Designed to be a product for the global market, the SJ700 carries CE, UL, cUL and c-Tick marks, and is RoHS compliant.

About Hitachi

Hitachi America, Ltd., headquartered in Tarrytown, New York, a subsidiary of Hitachi, Ltd., and its subsidiary companies offer a broad range of electronics, power and industrial equipment and services, automotive products and consumer electronics with operations throughout the Americas. For more information, visit www.hitachi-america.us. For information on other Hitachi Group companies in the United States, please visit www.hitachi.us

Hitachi America, Ltd., Industrial Components and Equipment Division supplies a broad range of sophisticated electrical and electronic components for application in pharmaceutical plants, food and beverage processing plants, chemical plants and other manufacturing facilities.

Hitachi, Ltd., (NYSE: HIT / TSE: 6501), headquartered in Tokyo, Japan, is a leading global electronics company with approximately 360,000 employees worldwide. Fiscal 2009 (ended March 31, 2010) consolidated revenues totaled 8,968 billion yen (\$96.4 billion.) Hitachi will focus more than ever on the Social Innovation Business, which includes information and telecommunication systems, power systems, environmental, industrial and transportation systems, and social and urban systems, as well as the sophisticated materials and key devices that support them. For more information on Hitachi, please visit the company's website at www.hitachi.com.

