



For Immediate Release

Smartorque® Adjustable Frequency Control Enhances Performance of New and Existing Cranes in a Smart, Compact Package

OAKCREEK, WI (June 05, 2009)—Smartorque® Adjustable Frequency Control from Morris Material Handling presents the latest AC drive technology in an affordable, compact package to maximize the performance of overhead material handling systems. Smartorque combines high-efficiency variable speed drive and solid-state circuitry in a smaller footprint to boost the efficiency and lifecycle value of existing and new installations. Specifically designed for overhead material handling equipment, Smartorque is ideal for enhancing current operations, modernizing aging cranes, updating cranes to suit changing environments, and retrofitting existing AC and DC cranes.

Smartorque® Adjustable Frequency Control can vitally improve the performance and reliability of all crane and hoist installations, optimizing the lifecycle value and overall operating efficiency of equipment. Smartorque is an energy-saving and self-regulating drive system with controlled smooth torque for precise load control and positioning. Smooth starts and stops reduce shock effects on valuable loads and prevent unnecessary wear on crane gearing, bearings, wheels, drive train, and rails. The control limits high inrush currents during start-up, lowering the demand on the motor and reducing power consumption. A shielded power control section eliminates radio interference. Dynamic braking reduces brake wear, with optional regeneration of dynamic braking energy to further improve the efficiency of the drive system.

Advanced Smartorque control technology addresses the specific problems, i.e. free falling loads, vibration, and power regeneration, associated with control to enhance the safety of crane operations. The control is equipped with patented self-monitoring systems to mitigate the chances of accidents while lifting, transporting, and spotting loads. The Deviation Detection Circuitry and software system monitors all movements to prevent load free fall, and the Torque Proving Circuitry ensures sufficient torque is available to lift the load before releasing the brake. An off-position safety circuit prevents the control from restarting after a power interruption, protecting against unexpected movements. A 200% current limit switch protects against stall conditions, drive overloads, and line current surges.

Cranes with Smartorque® Adjustable Frequency Control are easy to operate and maintain, providing cost-efficient operation with optimal uptime. Adjustable acceleration and deceleration and other programmable software features allow the operator to fine-tune crane performance for specific plant operations. A built-in diagnostics system displays faults for quick troubleshooting, minimized downtime, and safe multi-hoist load handling. Control components allow maximum interchangeability between horsepower sizes, simplifying service and reducing parts inventory. Plug-in wiring on the control boards helps to speed repairs and component replacements, and eliminates the chances of mis-wiring replacement components. AC squirrel-cage motors require no motor brushes to maintain, and solid-state circuitry eliminates the need to replace mechanical contactor parts.

Several Smartorque control configurations are available to meet diverse application requirements. Options include a user keypad for easier programming and improved diagnostics, an on-board or remote-mounted control panel, ExpressSpeed™ for moving light loads faster, mechanical overload protection, SWINGUARD™ load sway control, simulated plugging, line reactors, single-motion or common bussed regeneration modules, and input/output filter systems.

Smartorque® Adjustable Frequency Control fits nearly all overhead lifting equipment applications, including: automated crane systems, waste-to-energy, steel mills, power plant/utility, lumber and log handling, pulp and paper mills, foundries, aerospace, precision assembly, cement mills, port container handling, metal service centers, and more.

To find out more about Smartorque® Adjustable Frequency Control and all other material handling solutions from Morris Material Handling, contact Morris Material Handling, 315 W. Forest Hill Avenue, Oak Creek, WI 53154. For the nearest service center anywhere in North America, call 800-933-3001 or visit www.morriscranes.com.

About Morris Material Handling

Morris Material Handling is a world-class supplier of overhead cranes and maintenance services, and the original equipment manufacturer of P&H® Cranes, Hoists, and Replacement Parts. Headquarters are in Wisconsin, where the original company was founded in 1884. The company serves customers in the U.S., Canada, Mexico, and Chile, with over 1,000 employees in multiple service and manufacturing locations. Their on-going commitment is to improve safety, productivity, and return on investment over the entire life-cycle of its customers' operations.

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