

For Immediate Release

Motor Rewinds from Morris Material Handling Improve Performance, Reliability, and Service Life of Crane Motors

OAKCREEK, WI (July 28, 2009) — Morris Material Handling, the original equipment manufacturer of P&H Cranes, Hoists, and Replacement Parts, offers detailed and efficient motor rewinds to renew crane motors affected by age and usage. Motor rewinds provided by Morris Material Handling can revive original performance and quality, enhance reliability, and extend the life of the motor.

Motor rewinds from Morris Material Handling restore the crane motor back to its original condition, rather than “reverse engineering” the motor, which can lead to performance loss. Insufficient analysis of the motor can result in defective rewinding, leading to a pattern of frequent and premature motor failures. Experienced technicians from Morris Material Handling thoroughly analyze and pinpoint causes of failure through a detailed fifty-point repair summary. Morris Material Handling returns the motor to its original performance standards by repairing and replacing components according to the requirements of the specific motor, including: correct wire size, sufficient varnish adhesion and insulation, correct end turn tension, and adequate assemblies.

Crane motors experience repeated stress, including extreme temperature changes, abrupt starts, stops, and changes in direction. These external factors will degrade the components of the most rugged motors. Morris Material Handling determines the proper specifications for the motor and restores components to original performance, enabling the motor to withstand external stresses with a reduced failure rate. Windings are stripped, all remnants of old laminations are removed, and wire is replaced with new wire that is appropriate for the crane application. Using the correct wire gauge and type prevents excessive resistance, poor performance, and premature motor failure. All slots are hand-cleaned to ensure proper seating and fit of new wire. To prevent wire abrasion and insulation failure, the stator and rotor of the rewound motor are dipped in varnish or epoxy repeatedly, according to the proper adhesion requirements of the original specifications.

Motor rewinds from Morris Material Handling deliver the best long-term, productivity-enhancing solution. Unlike other rewind service providers, Morris Material Handling replaces, rather than repairs, damaged shafts to avoid possible stress points that shorten motor life. Engineers test the motor for core loss and, if necessary, replace it with proper laminations and stack heights. Laminations are hand-stacked to ensure proper stacking and precise alignment. End turns are banded at the proper tension to prevent loosening and abrasion that can lead to short circuits. Brush holders and slip ring assemblies are replaced, instead of repaired or cleaned, to ensure adequate tension.

Morris Material Handling conducts extensive service beyond standard motor repair to support optimal crane performance. Motor rewinds from Morris Material Handling apply Class H Insulation, higher than the industry standard Class F Insulation, enabling motors to withstand higher temperatures. All motor rewinds are completed with a superior insulation system achieved through the Vacuum Pressure Impregnation (VPI) process. VPI ensures maximum penetration of resin throughout the rotor coils, stators, and end turns to further extend motor life, even in the highest moisture and corrosive environments.

To find out more about motor rewinds 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 ongoing commitment is to improve safety, productivity, and return on investment over the entire life-cycle of its customers' operations.

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