



MAGNETEK

INTELLI- LIFT™ SYSTEM

SIDE PULL AND OFF-CENTER PICK TECHNOLOGY

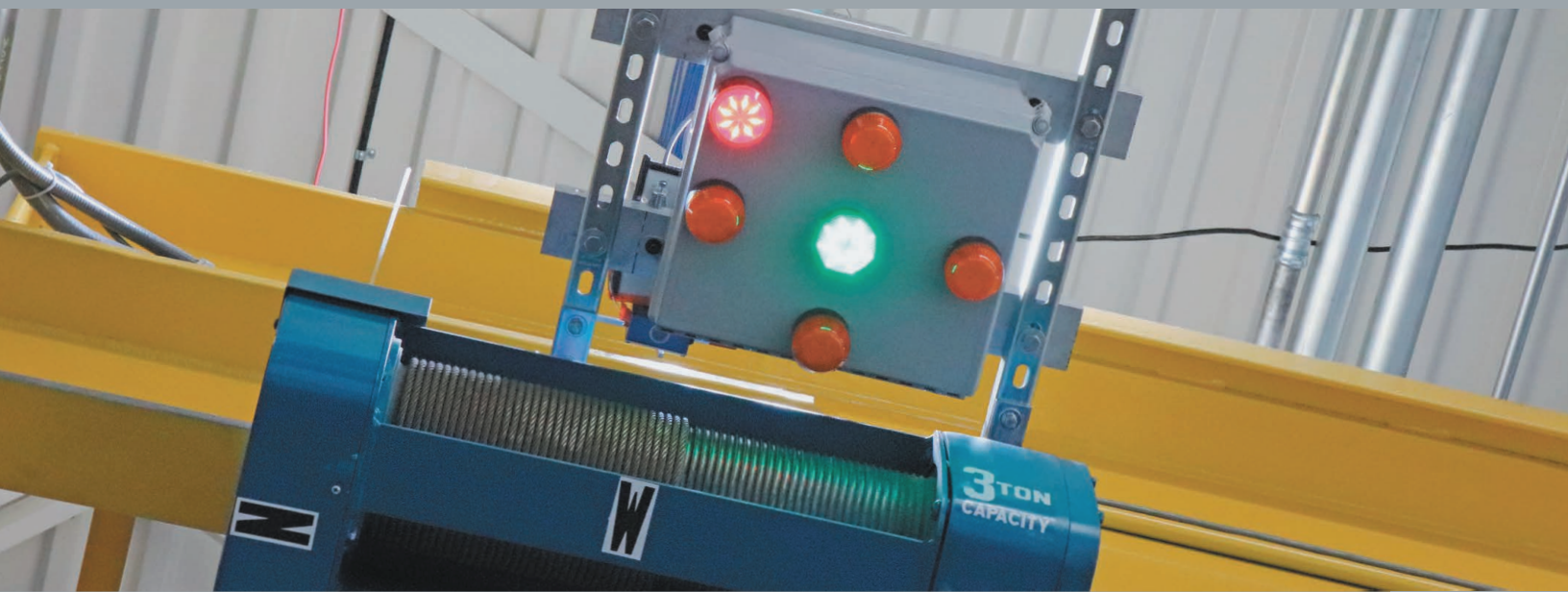


COLUMBUS MCKINNON CORPORATION

Improving Safety and Productivity Through Automation. Swinging loads, whether caused by misalignment or snags, are not only dangerous for your employees but can damage equipment, resulting in costly repairs and downtime. To reduce these risks, loads should be centered under the hoist and free of obstacles. The Magnetek® brand Intelli-Lift™ System can help. The Intelli-Lift System detects a load misalignment or snag condition and alerts operators with a visible and audible warning before a dangerous situation occurs.

Using sensors and a status control enclosure, the system activates lights and an optional warning horn if a side pull or off-center pick is detected. From there, the misalignment or snag can be corrected manually or automatically by the Intelli-Lift System.

Intelli-Lift is ideal for the automotive, aerospace, steel, and marine terminal industries.



DEVELOPED BY

CMC
COLUMBUS MCKINNON
AUTOMATION

Columbus McKinnon and its dedicated Automation Division are working side by side with customers to leverage automation technology to improve their safety, uptime and productivity. We'll partner with you every step of the way, from project evaluation to aftermarket support, to ensure your application needs are met – every time.



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FEATURES & BENEFITS

EASY-TO-ACCESS SYSTEM DATA

Intelli-Lift displays and logs data related to misalignments and snag events. Information can be used to adjust processes and equipment locations and identify needs for operator training.

Data can be easily accessed through Intelli-Lift's intuitive user interface via your smartphone, tablet, or PC. Wireless access makes it easy and safe to monitor and configure from the plant floor.

PRECISION LOAD CONTROL

Through manual or automatic adjustment, Intelli-Lift assists operators in centering the bridge and trolley over the load before it can be hoisted, reducing the likelihood of snags or swaying loads.

REDUCED STRESS ON EQUIPMENT

Intelli-Lift alerts operators if a load is misaligned or snagged on other objects. If a hoist continues to lift while misaligned, damage to hoist components can occur, which may result in costly repairs and downtime.

QUICK, EASY INSTALLATION

Hardware is easy to install and connect with Intelli-Lift technology, making it ideal for both new installations and retrofit applications.

FLEXIBILITY FOR YOUR APPLICATION NEEDS

Robust design allows for operation in both indoor and outdoor applications, including harsh environments. The Intelli-Lift System can be easily bundled with Magnetek-brand motion control products for additional safety and diagnostic information.

SYSTEM INCLUDES

STATUS CONTROL ENCLOSURE

- Directional lights indicate angle of misalignment
- Center light indicates vertical alignment of hook and hoist
- Corner light indicates bypass mode
- UL Type 12/IP54 rated

SENSORS AND PROCESSOR

Sensor requires the crane hoist to have a dead end or idler sheave installed in a static point on the rope.

OPTION OF WIRELESS OR FESTOON (WIRED) CONTROL

OPTION OF WIRELESS OR PC CONNECTION USER INTERFACE



Intelli-Lift provides visual identification of a misaligned load.

AVAILABLE SYSTEMS

PREVENTION & CORRECTION

The Prevention System offers two types of positional correction: Manual and Auto. In either Manual or Auto Correction, the load may not be adjusted until hoist movement is stopped. Auto or Manual selection is made through the user interface at time of install.

While using **Manual Correction**, an operator may use a radio remote control to manually realign the load, using the light box to see the direction the crane needs to move and when the load is centered.

In the **Auto-Correction System**, software built into Intelli-Lift automatically re-centers the hoist above the load by moving the bridge and trolley. Once the correction has been made, hoist movement can restart with a programmable micro-speed that allows the rope to become taut, and then may operate at full speed after a second alignment check.

DETECTION

In the Detection System, the status control enclosure provides visual notification of a misalignment or snag event via directional lights with an optional warning horn. An operator may manually correct the misalignment of the load. It is recommended that the hoist motion is stopped until the hoist, hook, and load are vertically centered.

HOOK AND RIGGING SNAG DETECTION

After the load has been placed and the operator is ready to move to the next lift, Intelli-Lift continues to monitor if the hook, load, or rigging snags on equipment, racking, or other objects.



FEATURES	Detection	Prevention: Manual Correction	Prevention: Auto Correction	Side Pull/ Snag Detection
Load Angle Detection	●	●	●	●
Control Test at Powerup*	●	●	●	●
Stop Movement		●	●	●
Event Log with Date & Time Stamp	●	●	●	●
Angle Adjustment	●	●	●	●
Status Control Enclosure	●	●	●	●
Key Switch: System Disable		●	●	●
Programmable Bypass Time		●	●	●
Auto Correct			●	

*The control system will power LEDs on the control box, along with the audible indication from the horn, for operator to confirm that lights are in working condition.

CATALOG NUMBER	Description
OCPP-AM-W	Intelli-Lift Correction with Wireless Control & Interface
OCPP-AM-F-W	Intelli-Lift Correction with Festoon Control & Wireless Interface
OCPP-AM-F-P	Intelli-Lift Correction with Festoon Control & PC Interface
OCPP-DETECT-P	Intelli-Lift Detection with Visual Indication with PC Interface
OCPP-DETECT-W	Intelli-Lift Detection with Visual Indication with Wireless Interface

CUSTOM-ENGINEERED SOLUTIONS

For complex projects requiring a unique, fully customized Intelli-Lift system, our engineered-to-order solutions are ideal for your specific applications. Designed by our highly technical team of software, design, and control engineers, our custom solutions integrate our industry-leading products and software with custom programming specific to your needs.



CRANE SOLUTIONS



WWW.COLUMBUSMCKINNON.COM/MAGNETEK



MAGNETEK

USA p: 800.288.8178

p: 262.783.3500

f: 262.783.3510

CAN p: 800.792.7253

p: 905.828.1526

f: 905.828.5707

AUTOMATION@CMWORKS.COM