Two new versions of Tandem Trolley/Hoist controls are available in Magnetek’s Enrange Flex EX series of radio remote controls. The first is the Flex-8/12EX-TM which allows one operator to select up to two trolley/hoists on a monorail for single or dual operations. The Enrange Flex-8/12EX-TM offers up to five motions, two speed controls with a trolley/hoist A/B/Both selector switch and one auxiliary function. The second version is a Flex-8EX-TM which allows one operator to select up to two trolley/hoists on a monorail for single or dual operations. The Enrange Flex-8EX-TM offers up to five motions and two speed controls with a trolley/hoist A/B/Both selector switch.

Two new versions are in addition to the current Flex Tandem system, the Flex-8 and Flex-12EX-TM. The Flex-8/12EX-TM system allows two operators to select up to two bridges for single or dual operations. The Enrange Flex-8EX-TM offers up to five motions, two speed controls with a crane 1/2/both selector switch and one auxiliary function. These flexible and reliable radios are also available in four-button and 12-button styles to meet a variety of overhead material handling applications. The Enrange Flex EX series of radio remote controls provides a cost-effective solution to the restrictive use of hardwired cabling.

Static Stepping Simulation Software Whitepaper Available for Download

A new whitepaper, written by Anna S. Kondrath, Controls Products & Development Engineering Manager, is available that focuses on Static Stepping Simulation Software. This unique concept for controlling a cab operated crane is embedded in the software designed for IMPULSE VG+ Series 3 Drives to provide an effective means to slow or stop the motion of the bridge or trolley. Static Stepping Simulation Software allows the operator to use a feedback to either augment or completely control the deceleration and/or stopping of the crane while at the same time provides improved response during sudden input changes, improved open circuit motor decay.

Static Stepping Software provides the best of all worlds, by combining the simplicity, judgment, decision of the crane operator with the latest in crane control technology and safety. It is the ideal control for high performance cab controlled overhead crane.

This useful whitepaper highlights the advantages of IMPULSE VG+ Series 3 Drives for many applications. An article discussing the benefits of static stepping simulation appeared in the July/August 2009 edition of Overhead Crane & Hoist. To download the full version of the Static Stepping Simulation Whitepaper please go to http://www.magnetekmh.com/staticsteplessoverload.htm.

Reference Files

New and updated Magnetek Material Handling product brochures are available online at http://www.magnetekmh.com/brochures.htm:

- CONTROL PRODUCTS
  - IMPULSEVG+ Series 3 Full Brochure
  - Flex-8EX-TM 12/24V Wireless Transceiver

For additional information contact one of our Inside Sales application professionals at 800 268 8778, sales@magnetek.com, or your local Magnetek Sales Representative.

Static Stepped Simulation Software Whitepaper Available for Download

Inside this issue:

- Magnetek introduces the Telemotive XLTX™ Bellybox Transmitter
- New Radio Remote Controls Coming Soon
- First Road Build of New Wisconsin Mandell Facility Delivered
- Transition from IMPULSE® P3 Series 2 to IMPULSE® G+ Mini Drives
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THE CONTROL SYSTEMS

The 10 carrier cab set monorail system begins with three lanes where cabs are picked and queued. As each cab is loaded, a barcode is scanned to identify the cab. This scan associates the cab with the carrier, which is important later in the production process. Truck chassis move under a larger section of the monorail and are read by a barcode scanner. When this is done, the cab is assigned to the chassis required for that chassis automatically moves into place and the chassis assembly process begins. During assembly, the car carrier automatically matches the line speed of the chassis conveyor, making it easier for the operator to attach the cab to the chassis.

Magnetek’s Engineered Systems Group Drives Peterbilt’s Automation Project

An article discussing the benefits of static stepping simulation appeared in the July/August 2009 edition of Overhead Crane & Hoist. To download the full version of the Static Stepless Simulation white paper go to http://www.magnetekmh.com/staticsteplessoverload.htm.

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Magnetek provides the engineering expertise and state-of-the-art control systems to create custom automated material handling resulting in tangible benefits to Peterbilt’s and our customers.

We use our innovative new Telemotive XLT® Bellybox Transmitter. This radio remote control offers versatile, ergonomic styling and the latest electronic technology to meet the needs of a variety of applications and industries. The telemotive XLT® Bellybox Transmitter incorporates the latest electronic technology in a lightweight, comfortably contoured, yet durable case.

The XLT® Bellybox Transmitter is a compact, low-horsepower IMPULSE® Mini Adjustable Frequency Crane remote control system designed for applications requiring a limited number of functions and offer basic information feedback. Both transmitters feature rugged nylon housings to withstand shock and are rated NEMA 4 (IP66).

The IMPULSE® Mini Adjustable Frequency Crane remote control system is designed for versatile, ergonomic styling and the latest electronic technology to meet the needs of a variety of applications and industries. The IMPULSE® G+ Mini Adjustable Frequency Crane remote control system is designed for applications requiring a limited number of functions and offer basic information feedback. Both transmitters feature rugged nylon housings to withstand shock and are rated NEMA 4 (IP66).

New Radio Remote Controls Coming Soon!

Magnetek will be launching its new Telemotive XLT® and PGT Transmitters. These radio remote controls offer versatile, ergonomic styling and the latest electronic technology to meet the needs of a variety of applications and industries. The IMPULSE® and IMPULSE® G+ Adjustable Frequency Crane remote control systems are designed for applications requiring a limited number of functions and offer basic information feedback. Both transmitters feature rugged nylon housings to withstand shock and are rated NEMA 4 (IP66).

Before

On Sept. 24, 2009, Magnetek’s new Mondel brake facility in Menomonee Falls, Wis., delivered its first brake rebuild. The 16-inch Mondel MBT brake had seen over 10 years of hard duty in a steel mill and was in need of repair. The customer turned to Magnetek’s Service Group after they received a call from bridge rebuild supplier. Magnetek diagnosed the problem and had it up and running to be back in service in four days after receiving the brake.

After

Magnetek’s new Mondel brake facility in Menomonee Falls, Wis., was delivered its first brake rebuild. The 16-inch Mondel MBT brake had seen over 10 years of hard duty in a steel mill and was in need of repair. The customer turned to Magnetek’s Service Group after they received a call from bridge rebuild supplier. Magnetek diagnosed the problem and had it up and running to be back in service in four days after receiving the brake.

The refurbished brake was delivered back to the customer within the estimated delivery time.

The scope of the refurbishment project included replacement of the Auto Adjust Assembly, all bushing assemblies and all assembly hardware including Balluffi Washers. A mixing cover on the firebox was also replaced. The brake was reassembled and the same tests were performed on the brake.

The EMD/VEU1141212/213 brake was tested and checked. Finally, the brake was reasssembled and tested.

All of the work was completed by Wisconsin service personnel using the inventory on hand at the new location. According to Jim Swenor, Magnetek’s Director of Service and Technical Support, all brake rebuilds were previously done at Mondel’s Canadian facility, which resulted in increased costs due to export fees and freight charges and longer turnaround times due to shipping distance. The U.S. facility adds reduce these costs and provide quicker turnaround times to return brakes.

With the Wisconsin service facility in place, we are in a better position now to service our U.S.-based customers with repairs,” Swenor said.

Magnetek has recently installed new state-of-the-art technicians and diagnostic equipment. The facility now has a state-of-the-art technical support lab equipped with all the latest technology to perform the latest brake rebuilds with speed and efficiency.

The new facility is now able to service our U.S.-based customers with repairs,” Swenor said.

The facility now has a state-of-the-art diagnostic lab equipped with all the latest technology to perform the latest brake rebuilds with speed and efficiency.

New Radio Remote Controls Coming Soon!

Magnetek will be launching its new Telemotive XLT® and PGT Transmitters. These radio remote controls offer versatile, ergonomic styling and the latest electronic technology to meet the needs of a variety of applications and industries. The IMPULSE® and IMPULSE® G+ Adjustable Frequency Crane remote control systems are designed for applications requiring a limited number of functions and offer basic information feedback. Both transmitters feature rugged nylon housings to withstand shock and are rated NEMA 4 (IP66).

The IMPULSE® Transmitter is a smaller and lighter adjustable frequency controller. It controls the balance of larger VFDs or a compact, double-wire PGT Transmitter. Both transmitters feature rugged nylon housings to withstand shock and are rated NEMA 4 (IP66).

The IMPULSE® G+ Transmitter is a smaller and lighter adjustable frequency controller. It controls the balance of larger VFDs or a compact, double-wire PGT Transmitter. Both transmitters feature rugged nylon housings to withstand shock and are rated NEMA 4 (IP66).

The IMPULSE® G+ and G+2 Transmitters are designed for remote handling applications requiring a limited number of functions and offer basic information feedback. Both transmitters feature rugged nylon housings to withstand shock and are rated NEMA 4 (IP66).

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The IMPULSE® G+ and G+2 Transmitters are designed for remote handling applications requiring a limited number of functions and offer basic information feedback. Both transmitters feature rugged nylon housings to withstand shock and are rated NEMA 4 (IP66).

Watch for an Announcement Soon!
Material control of the carriers is provided through SBP Publication Reference Station pendant stations suspended from the carriers. Two speed reversing contactors control the hoist motions, and IMPULSE®G+ Series 3 Drives control the travel motions. All of the controls are mounted in NEMA 4 enclosures on the carriers.

Each fifth wheel carrier is equipped with a red motion beacon that assists the operators in locating the carriers. In addition, each cart contains an I/O that talks with the on-ground PLC over 802.11a wireless communication.

To further increase productivity, the carriers are equipped with variable speed motors that allow the carriers to stop in a predetermined location, which eliminates the need for the man to tie off the end of the line. This system also allows for easy tracking of the carriers and reduces the need for the man to move from one carrier to the next.

The SBP Reference Station Pendant Stations are used to control the crane over the area where the carts are pulled providing optimal control and performance in a compact design. Magnetek’s PalletSaver radius can be used for setting the radius of the carts during the assembly process, and a maintenance technician is also available to maintain and replace the components of the system.

Before

IMPULSE®P3 Series 2 to IMPULSE®G+ Mini

This IMPULSE®G+ Mini Adjustable Frequency Crane Control has been operating in the field for over 5 years with strong customer acceptance. The IMPULSE®G+ Mini replaces the IMPULSE®P3 Series 2 mini adjustable frequency drive by December 2009. Magnetek will continue to support and service the IMPULSE®P3 Series 2 Control until 2013.

Magnetek’s highly trained team of service technicians offers service wherever you are located. Magnetek provides a full line of service offerings to ensure that your installation is up and running smoothly.

The IMPULSE®G+ Mini Adjustable Frequency Crane Control can be delivered to your facility in place, with spare parts and technical training. Magnetek will continue to support and service the IMPULSE®G+ Mini Adjustable Frequency Crane Control for the lifetime of the equipment with no additional cost. If you have any questions about the transition, contact one of our Inside Sales application professionals at 800.288.8178, sales@magnetek.com, or your local Magnetek Sales Representative.

After

First Brake Rebuild in New Wisconsin Mondel Facility Delivered

On Sept. 24, 2009, Magnetek’s new Mondel brake facility in Menomonee Falls, Wis., received its first brake rebuild. The 16-inch Mondel MBT brake had seen over 10 years of hard duty in a steel-mill application. The customer turned to Magnetek’s Service Group after three brakes failed on the bridge crane rebuildable. Magnetek diagnosed the problems and had the brake rebuilt to the specifications of the brake.

The rebuilt brake was delivered back to the customer within the quoted delivery time. The scope of the refurbishment project included replacement of the Auto Adjust Assembly, all bushing assemblies and all surface finishes including Ballute Washers. A matching cover-on the Figure 5 box was also replaced. The brake was calibrated and tested and returned to the customer in 7 days. The shortened delivery time was possible because Magnetek can build a system to your specifications — with our 18K, Flex M, or intele drive by December 2009. The refurbished brake was delivered back to the customer within the quote deadline.

Visit our website to learn more about the Telemotive XLTX and our entire line of Telemotive and Enrange brand radio remote controls and receivers, or call an Inside Sales application professional at 800.288.8178 or sales@magnetek.com.

New Radio Remote Controls Coming Soon!

You can now activate the telemotive XLTX™ Bellboxy Transmitter.

The IMPULSE®G+ Mini Adjustable Frequency Crane Control has been operating in the field for over 5 years with strong customer acceptance. The IMPULSE®G+ Mini replaces the IMPULSE®P3 Series 2 adjustable frequency drive by December 2009. Magnetek will continue to support and service the IMPULSE®P3 Series 2 Control until 2013.

Magnetek’s Engineered Systems Group contributed to improving the facility by providing a complete turn-key controls solution. The automated monorail control systems were designed by Magnetek’s system engineers. Magnetek’s Service Group performed on-site start-up services, along with maintenance and operator training.

The compact, low-horsepower IMPULSE®G+ Mini is designed with an expanded 90° range (up to 2000'), and an identical dimensional footprint to the IMPULSE®G3 Series 2 (up to 50') and a smaller footprint beyond 50'. IMPULSE®G+ Mini systems are specifically designed for basic applications, and advanced programming capability for high performance applications. This rugged and reliable transmitter has superior Nyquist holding inside to witched shut. It is designed to maximize online control, providing one of the largest 3D drives on the industry today. The IMPULSE®G+ Mini uses a battery to control your system to your specifications — with our 18K, Flex M, or intele drive - that is compatible with the transmission.

Visit our website to learn more about the Telemotive XLTX and our entire line of Telemotive and Enrange brand radio remote controls and receivers, or call an Inside Sales application professional at 800.288.8178 or sales@magnetek.com.
Magnetek provided the engineering control and state-of-the-art control systems to create customized automation manually resulting in tangible benefits to Peterbilt’s customers. New Remote Control Transmitters Coming Soon!

Magnetek will be launching its new Enhanced HFF and PFD Transmitters. These radio remote control systems offer versatile, ergonomic, stylish and the latest electronic technology to meet the needs of a variety of applications and industries. The enhanced Telemotive XLT® bellybox transmitter incorporates the latest electronic technology in a lightweight, comfortably contoured, yet durable case.

- Frequency options: 72MHz, 400MHz, 900MHz, and 2.4GHz
- Choose up to 8 paddles, 4 joysticks or any combination
- New detented/stepped joysticks with a variety of handle shapes
- Available with stepless proportional controls
- Custom engraving on transmitters per application

This rugged and reliable transmitter hasężsuper-tough nylon housing made to withstand shock. It is designed to maximize operator convenience, providing one of the largest backlit color screens on the industry. This makes the bellbox and the display to your specifications — with our 18", 14" or 10" display screens - which is completely customizable.

Visit our website to learn more about the Telemotive XLT® and our entire line of Telemotive and Elecon branded radio remote controls and state-of-the-art electronics. This transmitter system is built like a Mini Adjustable Frequency Crane Control the low-cost drive of choice for overhead material handling applications.

New Radio Remote Controls

The MBT Transmitter is one of the smallest and lightest bellybox controls available. It offers the control features of larger bellyboxes in a compact, double-size case. The MBT transmitter controls the controls they use on Magnetek’s bellybox transmitters, but with a contoured grip and a size and weight similar to most handheld radios. These radio remote controls are designed to customer specifications, reducing ergonomic and manufacturing costs, improving time to market, and enhancing equipment performance.

Watch for an Announcement Soon!

The IMPULSE®-P3 Series 2 to IMPULSE®-G+ Mini

The IMPULSE®-G+ Mini Adjustable Frequency Crane Control has been operating in the field for over seven years with strong customer acceptance. The IMPULSE®-G++ mini replaces our IMPULSE®-P3 Series 2. As production is reduced, availability will become limited. Please contact us to plan your transition before December 31, 2009. Magnetek will continue to support and service the IMPULSE®-P3 Series 2 until Control Crate 2013.

For more information, contact your local Magnetek Sales Representative.
New and updated Magnetek Material Handling product brochures are available online at http://www.magnetekmh.com/brochures.htm:

CONTROL PRODUCTS

- IMPULSE®-VG+ Series 3 Drives
- IMPULSE®-G+ Series 3 Drives
- Radio Controls
- Remote Controls
- Telemotive XLTX
- Enrange WIC-2400 Wireless Transceiver

For additional information contact one of our Inside Sales application professionals at 800.288.8178, sales@magnetek.com, or your local Magnetek Sales Representative.

Magnetek’s Engineered Systems Group is helping Peterbilt continue this legacy through the design of automated systems for the line of vehicles produced at the customer’s Denton, Texas, facility.

The highly automated systems result in superior quality and increased production. To achieve both increased production efficiency and output, every line in the factory was updated. Magnetek provided the engineering expertise and state-of-the-art control systems to create custom automated monorails resulting in tangible benefits to Peterbilt’s end customers.

A new whitepaper, written by Aaron S. Kureck, Controls Products & Development Engineering Manager, is available that focuses on Static Stepping Simulation Software. This unique concept for controlling a cab operated crane is embedded in the software designed for IMPULSE®-VG+ Series 3 Drives to provide an effective means to slow or stop the motion of the bridge or trolley. Static Stepping Simulation Software allows the operator to use a footbrake to either augment or completely control the deceleration and/or stopping of the crane while at the same time provides improved response by allowing the operator to modulate the direction or magnitude of the crane operator with the same ease of control commonly used in other control systems and reduces open circuit motor decay.

Static Stepping Software provides the best of all worlds, by combining the smooth, judicious, dynamic control of the crane operator with all the linear in-circuit control technology and safety of the ideal control for high performance cab controlled overhead crane.

This user-friendly whitepaper highlights the advantages of IMPULSE®-VG+ Series 3 Drives for many applications. An article discussing the benefits of static stepping simulation appeared in the July/August 2009 edition of Overhead Crane & Hoist. To download the full version of the Static Stepping Simulation Whitepaper, please go to http://www.magnetek.com/evolution.htm.

Inside this issue:
- Magnetek Introduces the Telemotive XLTX Wireless Transceiver
- New Radio Remote Controls Caring Server
- First Brake Rebuild in New Wisconsin Peterbilt Facility Delivered
- Transition from IMPULSE®-P3 Series 2 to IMPULSE®-G+ Mini Drives
- New Tandem Trolley/Hoist Versions Available in Flex EX Radio Controls
- Static Stepping Simulation Software Whitepaper Available for Download

TO RECEIVE FUTURE EDITIONS OF EVOLUTION DIRECTLY TO YOU, PLEASE SIGN UP AT WWW.MAGNETEK.COM/NEWS ASP. EVOLUTION IS YOUR SOURCE FOR APPLICATION NEWS AND NEW PRODUCT INFORMATION FROM MAGNETEK MATERIAL HANDLING.
Two new versions of Tandum Trolley/Hoist controls are available in Magnetek’s Enrange Flex EX series of radio remote controls. The first is the Flex-8EX-TM which offers one operator to select up to two trolley/hoists on the same crane. The Flex-8EX-TM offers up to four motions, two speed controls with a trolley/hoist A/B switch and one auxiliary function.

The second version is a Flex-12EX-TM which allows a second operator to select up to two trolley/hoists on a second crane. The Flex-12EX-TM offers up to four motions and two speed controls with a trolley/hoist A/B/Both switch and one auxiliary function.

These new versions are an addition to the current Flex Tandem systems, the Flex-8/12EX-T and Flex 8/12EX-T. They allow two operators to select up to two crane/hoists on two cranes for single or dual operations. The Flex-8/12EX-T offers up to five motions, two speed controls with a crane 1/2/Both switch and one auxiliary function.

New and updated Magnetek Material Handling product brochures are available online at http://www.magnetekmh.com/brochures.htm. These flexible and reliable radios are also available in four-button and 12-button styles to meet a variety of overhead material handling applications. The Enrange Flex EX series of radio remote controls provides a cost-effective solution to the restrictive use of hardwired cabling.