

# Evolution

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## *The Next Generation is Here!*

# Magnetek Introduces Electromotive Systems' Series 3 Drives

*The Premier AC Drive for the Overhead Material Handling Market*



Magnetek's Electromotive Systems Adjustable Frequency Crane Controls have long been the premier controls for the material handling industry. Now, the next generation of our IMPULSE product line is here! IMPULSE Series 3 drives incorporate the latest in advanced control technology to maximize

the performance of your material handling system. There's no need to learn new programming. IMPULSE Series 3 has been designed to mirror the programming of our Series 2 product line—making the move to Series 3 drives an easy transition.

### **Improved Features**

We've improved the keypad in Series 3 with expanded digital technology and added features such as Load Share and Static Auto Tune to enhance performance. Increased drive output current ratings make for a more robust power section. New features like Snapped Shaft and Encoder Loss Detection



*This quick-ship, easy-to-install panel offers cost effective and reliable operation using high quality components.*

increase operator safety. In total, IMPULSE Series 3



has over 20 new features that improve performance, safety and reliability! Plus, you get all the same great features you've come to rely on in our Series 2 crane and hoist controls.

***Continued on page 2***

## INSIDE

Page	ARTICLES
2	Magnetek Launches Soft Starter Website
	Combined Pricebook CD Coming Soon!
3	In-House Training Class Schedule
	Faster Delivery in Canada
4	Maximize Performance of DC Shunt Wound Motor
	Material Handling Group Trade Show Schedule
5	One-Stop-Shopping for All Your Crane Control Needs
6	How to Contact Magnetek's Material Handling Group

**Continued—**  
**IMPULSE® G+/VG+ Series 3**

The chart below highlights just some of the important Safety and Performance features and benefits of the IMPULSE Series 3 drive. For the complete list refer to our IMPULSE G+/VG+ Series 3 Adjustable Frequency Crane Controls brochure, available from our Marketing Department or on our website at [www.magnetek.com](http://www.magnetek.com).

		Features	Benefits	IMPULSE Series 2	IMPULSE Series 3
Safety		Encoder Loss Detection*— <b>NEW</b>	Signal loss detection at all times		✓
		Snapped Shaft Detection*— <b>NEW</b>	Detects a broken coupling or shaft		✓
		Load Check™	Reduces the possibility of lifting an overload	✓	✓
Performance		Loadshare*— <b>NEW</b>	Allows use of two or more motors on the same drive shaft		✓
		Keypad Copy— <b>NEW</b>	Copy, store and write parameters from keypad		✓
		Static Auto Tune*— <b>NEW</b>	Allows auto tune without mechanical disconnection		✓
		Load Float™*	Allows a load to be held aloft at zero speed without setting the electric brake	✓	✓
		Micro-Positioning™	Allows operator to make precise, slow moves	✓	✓

\*Features only on VG+ Crane Controls

Contact Magnetek’s Electromotive Systems division today at 1-800-288-8178 for more information on our next generation IMPULSE Series 3 drives.

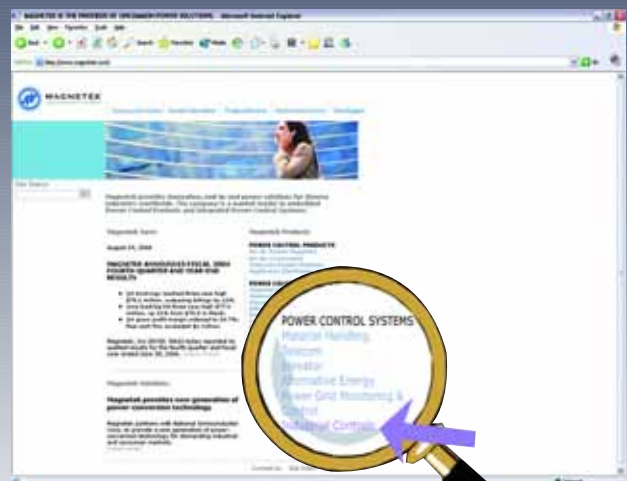
## Magnetek launches soft starter web site

All the information you’ll need about Magnetek’s state-of-the-art low and medium voltage Soft Starters is just a click away at <http://softstarter.magnetek.com>. Or you can access it through Magnetek Corporate’s website at [www.magnetek.com](http://www.magnetek.com) by clicking on “Industrial Controls” on the home page.

Find out why Magnetek Soft Starters provide unmatched soft starting and stopping for any AC induction motor.



<http://softstarter.magnetek.com>



[www.magnetek.com](http://www.magnetek.com)



## New & Improved

Material handling control products  
COMBINED price book CD available soon!

This fall, look for Magnetek's Material Handling Control Products NEW & IMPROVED Price book CD! We're combining pricing, literature and technical information for Electromotive Systems, Telemotive and Mondel products all on one CD. This will make for easier one-stop-shopping!

### Revised Format for Easier Navigation

This second version will also have a revised format making it quicker and easier to navigate. Each product line will have its own section so you no longer need to scroll through all our control products. Just click on the product section you would like to access (e.g. Controls, Electrification, Radios).

We think you'll find Version 2.0 of our Price book CD helpful and easy to use. Watch for it this fall.

### IMPULSE TRAINING DATES

Nov. 16-17, 2004  
Jan. 11-12, 2005  
March 15-16, 2005

## Material Handling in-house training schedule

### Technical Training Program for IMPULSE®•G+/VG+ Series 3 and IMPULSE®•P<sup>3</sup> Series 2 Drives

This comprehensive 3-day training program starts with a review of basic drive theory and the "how to's" of selecting and applying adjustable frequency crane controls for overhead material handling applications. Programming information for the IMPULSE®•P<sup>3</sup> Series 2 and the IMPULSE®•G+ Series 3 Drives in both V/F and open loop vector mode is also covered. The second half of this session covers introduction, theory, and programming of our closed loop flux vector crane control, IMPULSE®•VG+ Series 3, and is ideal for anyone involved with the start-up and maintenance of flux vector motor controls. The training session concludes with a discussion of troubleshooting for all adjustable frequency crane controls.

### RADIO PRODUCTS TRAINING DATES

Nov. 18, 2004  
Jan. 13, 2005  
March 17, 2005

### Telemotive Radio Products

Our one-day program details all the features and benefits of our Telemotive radio product line. You will learn about the application, use and troubleshooting of the *telePilot* and *telePendant* models, and about the various technologies included in these advanced remote radio crane controls.

*Magnetek reserves the right to cancel training if a minimum number of registrations is not met three weeks prior to the session date. Given this possibility, if you plan to fly, please do not book your flight too early. In the event of a cancelled session, you will be rescheduled for another training session at a later date.*

*For more information, please visit our web site at [www.electromotive.com](http://www.electromotive.com) or call us at 1-800-288-8178. All training sessions take place at our suburban Milwaukee facility and are free of charge. However, you are responsible for your travel and lodging expenses. Space is limited and reserved on a first-come, first-serve basis. Due to high demand, we do limit three people per company per training session.*

## Faster delivery in Canada—

# Ontario facility becomes distribution center for Magnetek products in Canada

Magnetek's Mississauga, Ontario facility, in addition to being the manufacturing center for Mondel Brakes, has now added "controls and soft starter distribution center" to its resume! The following products are available direct from our Canadian facility:

- ❑ IMPULSE®•G+/VG+ Series 2 Drives
  - 1 HP–50 HP
  - 460 VAC and 575 VAC
- ❑ IMPULSE®•P<sup>3</sup> Series 2
  - 1/2 HP–10 HP
  - 460 VAC
- ❑ Magnetek 575 Volt Soft Starters
  - RVS-DN\* 7.5–400 HP
  - RVS-DX\* 5–200 HP
  - RVS-AX 7.5–150 HP
  - RVS-ST 7.5–50 HP

Telemotive Remote Radio Controls and SBP2 Pushbutton Pendant Stations are available in Canada from our Canadian partner, Berlet Electronics.

This means quick, convenient and cost-effective delivery to meet our Canadian customers' needs! Contact one of the representatives below for more information.

**Canada**  
Berlet Electronics  
905-564-2710

**Ontario**  
Rotator Products  
905-479-9841

**Quebec**  
Industrie LD  
418-548-1882

**Western Canada**  
Drive Line Service  
204-661-8677



# Maximize performance of your DC Shunt Wound Motor

*Introducing OmniPulse™ DSD DC Crane Control for Overhead Crane Applications!*

Electromotive Systems' OmniPulse DSD DC Control brings advanced power technology to the operation of DC cranes and hoists. We've evolved our highly successful DC drive technology, used to power over 25,000 elevator drives worldwide, to bring you a superior DC control for crane and hoist applications! OmniPulse DSD provides DC shunt wound bridge, trolley and hoist motors with reliable, energy-efficient performance, while significantly reducing operating and maintenance costs.

## A Better Solution to Control DC Shunt Wound Motors

DC clapper controls or M-G sets used to control DC shunt wound motors are costly to maintain. Many competitive DC drives are difficult to use and hard to program. OmniPulse drives are easy to install and program, and require significantly less wiring over standard contactor controls. The patented OmniPulse microprocessor digital logic controller delivers precise, repeatable AC in/DC out control of hoist, bridge and trolley motions. Its solid-state operation eliminates speed control contactors and resistors found in magnetic controls, resulting in reduced maintenance.

OmniPulse drives are designed with many of the same advanced safety,



performance, and diagnostic features built into the long successful Electromotive Systems IMPULSE® AC drives.

## Superior Features, Superior Results

The fully programmable OmniPulse DSD DC drive offers smooth, controlled acceleration and deceleration ramps, permitting more efficient load placement and reduced load swing and mechanical shock. This results in increased production throughput and drive train life.

OmniPulse DSD DC Controls are available in component form, or panels custom designed to your specifications.

Contact the Controls Sales department at Magnetek at 1-800-288-8178 for more information about the new OmniPulse DSD DC drive.



## Magnetek's Material Handling trade show schedule 2004-2005

Make sure to mark your calendar to visit Magnetek at the following trade shows.

Date	Show	Place	Booth #
September 27-30	MinExpo International	Las Vegas, NV Las Vegas Convention Center	#8272
October 25-28	Heavy Movable Structures Inc.	Daytona Beach, FL Adam's Mark Dayton Beach Resort	#43
December 1-3	International Workboat Show	New Orleans, LA Morial Convention Center	#720
January 10-13	ProMat 2005	Chicago, IL McCormick Place	#1252

# “One-stop-shopping” for all your material handling control needs

In our last issue of Evolution, we explained the steps we’re taking to provide you, our customers, with “one-stop-shopping” for all your material handling control needs. Telemotive Industrial Controls has been relocated to our Menomonee Falls, Wisconsin facility. U.S. Sales and Customer Service for Mondel Brakes is now handled out of Menomonee Falls as well. According to Perry Pabich, V.P. of the Material Handling Businesses, “Magnetek is now in a better position to support our material handling customers and achieve the efficiency gains of operating out of one facility.” While there are always bumps along the way with major changes such as these, more than ever, Magnetek’s Material Handling Group is dedicated to providing the industry expertise, products and services to enhance your success:

## Engineered Systems & Solutions

- Project Evaluation
- Application Solutions
- Engineering Design
- PLC/PC Program Development
- System Manufacturing
- Project Management
- Installation Assistance
- Field Startup and Test
- Customer Training
- Maintenance Support

## IMPULSE® AC Adjustable Frequency Drives

- 230, 460, and 575 Volt Power Platforms
- .25– 1,500 Hp
- Exclusive Application Software
- Specific Crane & Hoist Software

## OmniPulse™ DC Digital Drives

- 30 to 500 HP
- 200 to 600 VDC

## OmniPulse™ DSD Digital Drives

- AC in/DC out
- 15-800 Hp

## MAC™•2000 Motor Acceleration Control

- Single & 2 Speed
- 15.2 Amps

## Variable Speed Motor Control Panels

- Standard Pre-Engineered Systems
- Custom Engineered Systems

## Motors & Accessories

- Standard Inverter Duty AC Induction Motors
- Flux Vector Designed Motors

## Power Delivery Systems

- ELECTROBAR®
- ELECTROBAR® FS
- ELECTROBAR ELITE®
- ELECTROBAR® HX
- FABA® Conductor Bar Systems

## ELECTROMOTIVE™ Festooning Systems

- Standard Duty
- Heavy Duty
- Mill Duty

## SBP® & SBP2® Pendant Push Button Stations

- Standard 2 thru 12 Button Stations
- Custom Configured Stations

## Radio Remote Control Systems

### Pre Engineered Radio Control Systems

- telePilot™
- telePendant™
- 10K Series
- SCS®–Stepless Control System

### Engineered Radio Control Systems

- 18K Series
- Exclusive Application Software
- Specific Crane & Hoist Software
- Locomotive Control Systems Data Communication

## Collision Avoidance Systems

- Laser Guard®
- Reflex®

## Magnetek Low & Medium Voltage Soft Starters

- RVS-DN Digital Soft Starter
- RVS-DX Digital Soft Starter
- RVS-AX Analog Soft Starter
- RVS-ST Analog Soft Starter
- HRVS-DN Digital Soft Starter

## Brakes

### 200S Industrial Shoe Brakes

- 4”–19” Diameter
- 6–2,650 Lb. Ft. Torque
- AC, DC, Hydraulic Actuators
- AC Explosion-proof Actuators

### AISE-NEMA 300M Mill Duty Shoe Brakes

- 5”–30” Diameter
- 10–11,000 Lb. Ft. Torque
- AC, DC, Hydraulic Actuators
- AC Explosion-proof Actuators

### 400D Heavy Duty Disc Brakes

- 8”–50” Diameter
- 50–30,000 Lb. Ft. Torque
- AC, DC, Hydraulic Actuators
- AC Explosion-proof Actuators

### Braketronic™ Control System

- Braketronic Controller
- Standard Pre-engineered Panel
- Mill Duty Foot Pedal (optional)

## Magnetek Mining Traction Drives

- OmniPulse–D-Trac Mining Drive
- SD 500 Severe Duty AC Traction Drive
- SD 1000 Severe Duty AC Traction Drive
- RVS-DN 1000 Volt Soft Starter



# How To Contact Magnetek



At Magnetek, we're committed to providing you the industry expertise, products and services to enhance your success. That's why we have consolidated most of the Material Handling business functions in our Menomonee Falls, Wisconsin facility. Below you will find a partial listing of our **new** contact information. You can access the complete list through Magnetek's Corporate website at [www.magnetek.com](http://www.magnetek.com) by clicking on Material Handling, or through the Electromotive, Telemotive, or Mondel Engineering websites at [www.electromotive.com](http://www.electromotive.com), [www.telemotive.com](http://www.telemotive.com) and [www.mondelengineering.com](http://www.mondelengineering.com) and clicking on Support.

To bring you the unsurpassed service you deserve, we have also added our **NEW "MAG SERV"** toll free number so you can easily access our Service personnel for technical support 24 hours a day, seven days a week.

## Magnetek Material Handling Group Contact List

Controls, Motors, Electrification, Radios, Brakes, & Soft Starters <b>Sales &amp; Customer Service Phone</b> <b>Sales &amp; Customer Service Fax</b>	P: 1-800-288-8178 F: 1-800-298-3503 F: 1-262-783-3503
Controls, Motors, Electrification, Radios, & Soft Starters <b>Technical Support &amp; Repairs Phone</b> <b>Technical Support &amp; Repairs Fax</b>	P: 1-866-MAG-SERV (1-866-624-7378) F: 1-262-783-3508
Brakes & Brake Products <b>Technical Support &amp; Repairs Phone</b> <b>Technical Support &amp; Repairs Fax</b>	P: 1-800-792-7253 F: 1-905-828-5707



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[www.magnetek.com](http://www.magnetek.com)

*Provide the industry expertise, products and services to enhance the success of our customers.*



**What's Inside!**

- Introducing the new IMPULSE® Series 3 Crane Control
- Faster Delivery Now Available in Canada
- Magnetek Launches Soft Starter Web Site

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