# LoadMate® Electric Chain Hoists

**Innovation . . . Performance . . . Reliability**

![A Sample of the LoadMate® Offering](image)

## LoadMate® Features
- **Patented Track Trolley Option**
- **Swiveling Motor Driven Trolley Option**
- **Variable Speed LoadMate®**
- **Stainless Steel Chain, Block & Hook Options**
- **ADDED VERSATILITY**
  - **Variable Frequency Drive Option**
  - **Food Grade Hoist Options**
  - **Low Headroom Option**
  - **Special Hoist Control Options**
  - **Variable Frequency Drive option**
  - **Digital Ergonomic Controls**

### Variable Speed LoadMate®
- **3-Phase Models 208, 230, 460 V - 3 Ph - 60 Hz**
- **2-Speed, Three Phase Models**
  - 208, 230, 460 or 575 V - 3 Ph - 60 Hz
- **Single Speed, Three Phase Models**
  - 208, 230, 460 V - 3 Ph - 60 Hz

### LoadMate® Electric Chain Hoists
- **Innovation . . . Performance . . . Reliability**
- **Reliable Long-term Performance**
- **Versatility**

### Patent Information
- **US Patent No.**
- **Class**
- **Field of Use**
- **Inventors**

### LoadMate® Electric Chain Hoists Data Table

<table>
<thead>
<tr>
<th>Model</th>
<th>Wt.</th>
<th>H.R.</th>
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<td>H4</td>
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</tbody>
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### LoadMate® Electric Chain Hoists Specifications
- **Single Fall Models Only**
- **Special Hoist Control Options**
- **Stainless Steel Chain, Block & Hook Options**
- **Food Grade Hoist Options**
- **Low Headroom Trolley Option**
- **Special Hoist Control Options**

### Additional Information
- **Low Headroom Trolley Option**
- **Special Hoist Control Options**
- **Variable Frequency Drive Option**
- **Digital Ergonomic Controls**

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LoadMate® Electric Chain Hoists — and Cutting-edge Technology

Best Clearance Dimensions in the Industry — More Standard Features

Flexibility to meet your exact requirements

LoadMate® electric chain hoists offer a wide variety of applications:

- Single phase 208-230 V. (3 phase 460-575 V.)
- Chain of 1 to 550 ft. for all duty classes
- Multiple trolley and hoist combinations available
- Mounting configurations also available

- 16, 10, and 25/5t. (8, 5t. and 12.5t.) addition to our standard 5t. hoists
- Lifting capacities of 2 to 50 tons

Toughness Gearbox in the Business!

- Minimum AGMA 10 heat treated gearing
- AGMA rated precision gearing
- 5/8 in. or 1 in. chain to maximize the life of your gearing
- Gear case is fully sealed to provide maximum protection against dust and lubricant contamination

Innovative design enhances versatility and ease of use

- Designed to meet the toughest demands of your operations
- Innovative design, low noise level and smooth operation.
- Flexibility to meet your exact requirements
- The compact design provides low maintenance, repair and downtime costs even to the extreme.

Toughest Gearbox in the Business!

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R&M LoadMate® electric chain hoist is designed to last

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- Lifting capacities of 2 to 50 tons

The Best Torque Limiter EVER!

- E-stop for quick replacement is standard. All R&M hoists are statically and dynamically tested with a minimum of 125% rated load prior to shipping.
- All models are equipped with a standard resettable torque limiter. The electro-magnetic disc brake-clutch combination is designed for efficiency, safety, easy access and adjustment. The friction-type torque limiter is integrated with the brake (LM1, LM05, LM10) to ensure that the load is always stopped when the control button is released.

Long life, lasting performance

- Two-speed, three phase hoist motors and controls available for all models and for 208, 230, 460, 575/3/60 or 380/3/50 power supply.
- One piece heavy duty ductile iron chain guide above load sprocket for hoist overload protection.
- The electro-magnetic disc brake-clutch combination is designed for efficiency, safety, easy access and adjustment. The friction-type torque limiter is integrated with the brake (LM1, LM05, LM10) to ensure that the load is always stopped when the control button is released.

High Performance Motor

- All models equipped with a high efficiency motor for greater performance and lower maintenance costs.
- R&M LoadMate® hoists are designed to run cool and have a high quality running.
**LoadMate® Electric Chain Hoists**

**Toughness & Gearbox in the USA!**

- **Minimum AGMA 10 load limiting gear**
- **Slower backlash on LM1-100 EXO models, Gear Rat of 1:80 EXO**
- **Quart gear case = 8 HP**

**Innovative Torque Limiter**

- Better torque limiter setting helps to protect hoist gearboxes and load hoist system.
- **Higher torque limit for extended wear period.**
- **The best torque limiter, LMP001:09A2, FROM THE INDIAN!</p>
LoadMate® Electric Chain Hoists — and Cutting-edge Technology

Best Clearance Dimensions in the Industry — More Standard Features

LoadMate® hoists are designed to maximize productivity with low installation, operation, and maintenance costs and built-for-durability. The compact design provides low headroom and saves valuable space. R&M’s advanced design and manufacturing techniques ensure superior performance, unsurpassed reliability and longer component life. The temporary tags, which run on maintenance, repair and discard costs even over to the end.

Flexibility to meet your exact requirements

LoadMate® electric chain hoists offerBOA a wide variety of applications.

APPLICATIONS

• 1/4 ton capacities (230 - 575 kg)
• Choice of 3 standard built-in control configurations: Trolley, Fixed Hook, and Rail-mounted control cart
• Mounting configurations also available

1/4, 1/2, and 3/4 ton, 360° swivel • Standard hoists are pre-assembled for ease of installation and require minimum preparation and modification for installation.

Load chains are electro-zinc plated, heat-treated, and has a high tensile strength. Chain is also specially designed for chain hoist use.

The chain guides on LoadMate hoists combine simple design with a high level of reliability - Up direction: spring and washer actuator on block contacts micro switch in chain guide - Down direction: spring and washer actuator near end of chain

P/B Station with E-stop

EASE OF OPERATION

• Premium grade, ASME B30.19 precision gearing contributes to the hoist’s compact size and smooth operation.

• Integral hoist control panel encloses all electrical components (hoist contactors, transformer, terminal strips, etc.) and is easily accessible for maintenance.

TOUGHEST GEARBOX IN THE BUSINESS!

• INNOVATIVE TORQUE LIMITER / BRAKE DESIGN IN THE INDUSTRY!

• Brake can be replaced WITHOUT needing torque limiting.

• EXTERNAL TORQUE LIMIT ADJUSTMENT - Easy to adjust. Just remove rubber cover, insert socket and turn!

• BRAKE LIMITER - The best torque limiter / brake on the market.

• DC brake for quiet operation

• Built for tough duty, lasting performance

• Meeting and exceeding industry safety standards

LOAD LIFT LIMIT NOW MOUNTED IN CHAIN GUIDE FOR EASY MAINTENANCE

• The chain guide on LoadMate hoists contains a rubber strap which gives the same level of reliability. Top suspension spring and adjuster on block contacts micro switch in chain guide - Chain disconnect springs and weight excluder near end of chain.

Toughness Gearbox in the Industry - More Standard Features

• Minimum ASME B30.10 load limiting gearing

• Grease lubricant on LM01-LM10 models. Gear oil for LM16-LM25

• Premium-grade, AGMA rated• precision gearing

• Increases component life expectancy and optimizes the hoist’s efficiency.

• Eases hoist’s maintenance, repair and discard costs even over to the end.

PRODUCT FEATURES

EASE OF INSTALLATION

• Lift speeds from 8 to 32 FPM • single-speed, 12/3 to 64/16 FPM two-speed, 1 - 16 to 4 - 64 FPM variable speed inverter, 0.16 to 5.7 HP hoist motors.

• Thermo protection of hoisting motor prevents damage due to over-heating. A 2-speed hoist motor is available, offering more precise load handling and longer motor life due to less wear on the brake and contactor.

• Brake can be replaced WITHOUT need for torque limiting.

• One piece heavy duty pressure cast aluminum • R&M LoadMate chain guide at entry point

• Main entry point chain guide can be easily removed (only 1 bolt and 4 limit switch wires) WITHOUT disassembling hoist

• Upper / lower limit switches stop the hoisting motion • Micro switches for hoist travel limit mounted in chain guide for easy maintenance.

REDUCED MAINTENANCE

• Long life, 5-pocket load sprocket (6-pocket on LM16) • 5-pocket load sprockets last 25% longer than the 4-pocket load sprockets provided by many other hoist manufacturers. Also chain wear from link to link is greatly reduced due to smaller shock factor from chain with load sprocket, reducing wear and prolonging chain life.

• Built-in durability. The compact design provides low headroom and saves valuable space. R&M’s advanced design and manufacturing techniques ensure superior performance, unsurpassed reliability and longer component life.

• High grade quality 80, 152, and 304 stainless steel chain from the LARGEST & OLDEST SUPPLIERS OF CHAIN.

• PRECISION MANUFACTURED, HARDENED LOAD SPROCKET

- 100% pre-assembled for ease of installation and require minimum preparation and modification for installation.

- Top suspension spring and adjuster on block contacts micro switch in chain guide - Chain disconnect springs and weight excluder near end of chain.

- Chain control panel integrally mounted in the tower.

Mounting Configurations

LOADING

• Built for tough duty, lasting performance

• Meeting and exceeding industry safety standards

• All R&M loads and manually operated hoists feature a minimum of 100% overload lift capability to ensure maximum service life and less downtime.

• Lift hook is forged alloy steel for strength and quality engineering for longer service life and less downtime.

• Low-voltage controls enhance operator safety. 115-volt control voltage is standard; 48-volt control is an option (standard with 380 volt).

• Lift speeds from 8 to 32 FPM • single-speed, 12/3 to 64/16 FPM two-speed, 1 - 16 to 4 - 64 FPM variable speed inverter, 0.16 to 5.7 HP hoist motors.

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LoadMate® Electric Chain Hoists — and Cutting-edge Technology

EASE OF OPERATION

Mounting Configurations

LoadMate® hoists are designed to maximize productivity with less maintenance, maximum reliability and built-in durability. The compact design provides low hardship and smooth travel approaches. LoadMate advanced design and manufacturing techniques ensure consistent chain travel, constant speed and longer component life.

Maximum hoist load, rated capacity and maximum duty cycle are based on maintenance, repair and downtime costs even to the

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Flexibility to meet your exact requirements

EASE OF OPERATION

Innovative design enhances versatility and ease of use

High temperature, dust and oil resistant 

Innovative Torque Limiter and Brake

Minimum AGMA 10 heat treated gearing • 

GREASE LUBRICANT on LM01-LM10 models. Gear oil for LM16-LM25 •

INNOVATIVE TORQUE

LIMITER & BRAKE

One piece heavy duty ductile iron • chain guide above load sprocket

IP65 for hoist overload protection. The electromagnetic disc brake-clutch combination is designed for efficiency,

Meets and exceeds industry safety standards

Choice of 3 standard mounting configurations

Cutting-edge Technology

Hoist body is constructed of pressure-cast aluminum for light-weight and easy handling, epoxy-painted for corrosion resistance, and ribbed for better heat dissipation.

Long-life components for a wide variety of applications.

Choice of 4 standard mounting configurations: "Fixed" top hook, trailer mounted, rolloff bed and mobile trailer configuration. Mounting configurations also available for LM01-05:

Toughest Gearbox in the Business!

Compact design provides low hardship and smooth travel approaches. LoadMate advanced design and manufacturing techniques ensure consistent chain travel, constant speed and longer component life.

EASE OF OPERATION

LoadMate® electric chain hoists offer a wide variety of applications for single or three phase motors. 

Load hook is forged alloy steel for strength and quality engineering for longer service life and less downtime.

Load chain is electro-zinc plated, heat-treated and has a high tensile strength. Chain is also specially designed for chain hoist use.

2 PART CHAIN GUIDING SYSTEM

- One piece heavy duty precision cut aluminum chain guide that mates perfectly with the drum

- One piece heavy duty double cut aluminum chain guide that mates perfectly with the drum

- Heavy-duty spring-return safety latch

- Micro switches for hoist travel limit • mounted in chain guide for easy maintenance

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<th>Lift</th>
<th>Hoist Speed</th>
<th>Track Section Width</th>
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<th>FAMV</th>
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<td>1/2 ton</td>
<td>10</td>
<td>10</td>
<td>16</td>
<td>0.16</td>
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<td>16</td>
<td>0.64</td>
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#### Patented Track Trolley Option
- Allows for shorter curve radius tolerances on custom monorail applications.
- LM05, LM10, and LM16 hoist swiveling trolleys... LM20 and LM25 hoist swiveling trolleys can negotiate a radius as small as 4'.

#### Special Low-Headroom Trolley Configuration
- Allows for maximum hook height in tight configurations.

### Special Hoist Control Options
- Available on LM1 and LM05 models.

### Food Grade Hoist Options
- Stainless steel chain, block & hook
- NEMA type 3R (IP-55) protection rating
- Standard E-stop button
- Variable frequency drive hoist control provides precision hook positioning.
- Hour counter for scheduled preventive maintenance as well as hoist SWP (Safe Working Period) calculations.

### Variable Frequency Drive Option
- Minimum and maximum speed settings can be defined.
- The sealed brake is incorporated into the motor design.

### Variable Speed LoadMate®
- Single Speed, Three Phase Models: 208, 230, 460 V - 3 Ph - 60 Hz
- Two Speed, Three Phase Models: 208, 230, 460, or 575 V - 3 Ph - 60 Hz
- Three Speed Control Variations:
  - MS - 2-step using digital input
  - EP - stepless using 2-step controller

### Digitalerg® Ergonomic Controls
- All hoists are equipped with a 2-speed, 80/20 FPM; 2-speed digital input.
- All enclosures come with 9 x 10 x 10 steel sealing input.

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**ADDED VERSATILITY**

### Variable Frequency Drive option
- 2-speed multi-speeds as designed control method
- Flexibility in speed settings
- Smooth braking

### Outdoor Weather Protection Options
- Available with a range of outdoor protection options including: stainless steel chain, hoist and trolley weather proof covers, NEMA 4 type enclosures, low voltage 48 VAC control system, and panel heaters.

### Digichain® Ergonomic Controls
- Ergonomically designed handle control allowing the hoist to be used as an extension of the operator's arm.
- Available on LM1 and LM05 models.
- Single or dual controls
- Standard 6” drop handle
- NEMA type TS (3R-IP-55) protection rating
- Motorized Trolley Speed: 80/20 FPM
- Trolley bumpers, drop lugs, and motor brake are included.

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**LoadMate® Electric Chain Hoists**

Innovation . . . Performance . . . Reliability

www.rmhoist.com

1/8 - 5 Ton (125 - 5000 kg)

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### LoadMate® Options

**Patented Track Trolley Option**
- Trolley includes patented steel flanged track and steel plate trolley, designed for maximum flexibility. The trolley incorporates a flat tread wheel designed for minimum noise and maximum durability. The trolley is designed for use on standard track surfaces in EB-5100, EB-5100-2, 1.25", 3.25", and 4". The patented track section running surface.

**Variable Motor Drive Option**
- Optional Variable Frequency Drive (VFD) is available for custom scenarios. Available drives include: 1.5 HP, 3 HP, and 5 HP. The drives can be configured for lifting applications reaching speeds in excess of 1000 FPM. The Variable Frequency Drive allows for smooth starts and stops. The maximum variable speed can be set up to 650 FPM. The minimum variable speed can be set down to 5 FPM.

**Load Control System**
- All LoadMate® hoists feature the exclusive LoadMate® Supervision System.

**Variable Speed LoadMate®**
- Available on LM1 and LM05 models.

**Stainless Steel Chain, Hook & Hook Options**
- Available on all models.

**Special Hoist Control Options**
- Tandem control for simultaneous control of two hoists.
- Digichain® Ergonomic Controls
  - An ergonomically designed handle control allowing the hoist to be used as an extension of the operator's arm.

**Food Grade Hoist Options**
- Single fall models only.
- Stainless steel load chain, stainless steel lower hooks, stainless steel bottom block, and food grade lubricant can be provided for food handling and pharmaceutical applications.

### Variable Speed LoadMate®

<table>
<thead>
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<th>No. Tons</th>
<th>No. Feet</th>
<th>Rpm</th>
<th>Voltage</th>
<th>Frequency</th>
<th>Size (In.)</th>
<th>HP</th>
<th>RPM</th>
<th>FPM</th>
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<td>0.16</td>
<td>12</td>
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</tbody>
</table>

### Three Speed Control Variations:
- H1 - 1 Speed
- H2 - 2 Speed
- H3 - 3 Speed

### Special Low Headroom Trolley Configuration
- Using a special trolley frame with an offset hoist, lifting heights can be increased.

### Variable Frequency Drive Option
- TMU’s Variable Frequency Drive offers:
  - Flexibility in speed control
  - Motorized trolley operation
  - Enhanced motorized trolley operation
  - Motorized trolley operation

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LoadMate® Electric Chain Hoists

Innovation . . . Performance . . . Reliability

LoadMate® Options

Patented Track Trolley Option

Available on all LoadMate units, the patented track trolley option provides precision track positioning. The sealed brake is incorporated into the motor design. The dynamic braking provided by the variable frequency drive allows for smooth stops and extended brake life.

Tandem control for simultaneous control of two hoists.

Food Grade Hoist Options

Stainless steel load chain, stainless steel lower hooks, stainless steel bottom block, and food grade lubricant can be provided for food handling and pharmaceutical applications.

Added Versatility

Variable Frequency Drive option

Whip flexibility of motorized trolley operation

Variable frequency drive offers:

- 2-step multi-speed or stepless control method
- Flexibility in speed settings
- Dynamic braking
- Minimum and maximum speed settings can be defined to prevent unwanted speeds and time-warp equipment.

The variable speed allows for maximum hook height in tight clearance applications.

Three Speed Control Variations:

- EP - stepless using 2-step controller
- MS - 2-step using digital input
- AU - automation controls with 0 - 10 Vdc analog input

Outdoor Weather Protection Options

Available with a range of outdoor protection options including: stainless steel chain, hoist and trolley weather proof covers, NEMA 4 type enclosures, low voltage 48 VAC control system, and panel heaters.

LoadMate® Electric Chain Hoists

Innovation . . . Performance . . . Reliability

Variable Speed LoadMate®

- LM10 frame size only
- Cooperate 1/2 to 3/4
- All controls under the cover
- Features ControMaster monitor
- All speed supervision module using feedback from motor sensor bearing

Three Speed Control Variations:

- (11) Single phase using 3-step controller
- 200 - 2-800 vdc digital input
- All automation controls with 0 - 10 Vdc analog input

Diagichain® Ergonomic Controls

An ergonomically designed handle control allowing the hoist to be used as an extension of the operator’s arm.

- Available on LM05 and LM10 models.
- 1/16 - 1/2 inch capacities
- Single fall units only
- Standard 6 inch handle
- NEMA type 3R (IP-55) protection rating

LoadMate® is a registered trademark of R&M Materials Handling, Inc.

YOUR DISTRIBUTOR CONTACT IS:

R&M Materials Handling, Inc. is a proud member of the following organizations:

- National Guard Distributors
- Hoist & Crane Association
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www.rmhoists.com

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