

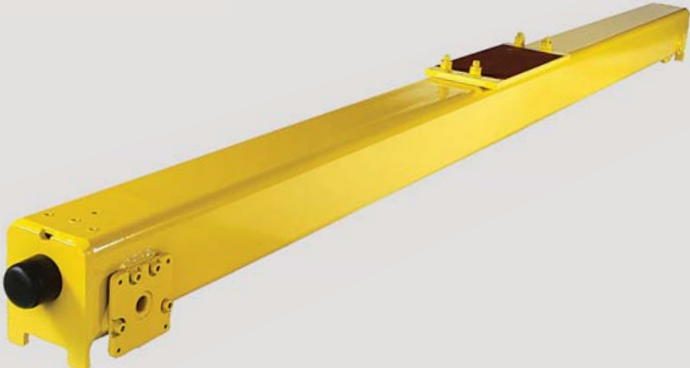


# QL Modular Crane Packages

*Innovation . . . Performance . . . Reliability*



**1/8 - 5 Ton**



## QL Modular Crane Packages

QL Modular Crane packages are pre-engineered, complete crane component packages utilizing cutting edge technology including the innovative LoadMate electric chain hoist. Variable frequency drives are standard on trolley and bridge motions for smooth starts and stops. Plug-in electrical cabling\* and bolted structural connections simplify assembly.

- 1/8 to 5 ton capacities
- Single girder top running or single girder under running crane configurations
- LoadMate electric chain hoist with motorized trolley
- Operates with most three phase power supplies (Controls are voltage specific.)
- Two-speed hoist controls, variable frequency trolley and bridge controls are standard
- Standard crane spans up to 62 ft. Longer spans available.
- Pendant controller or optional RaCon II radio controller
- Pre-engineered crane electrification package
- Various crane options and hoist options are available
- Indoor service



Plug-in pendant connection

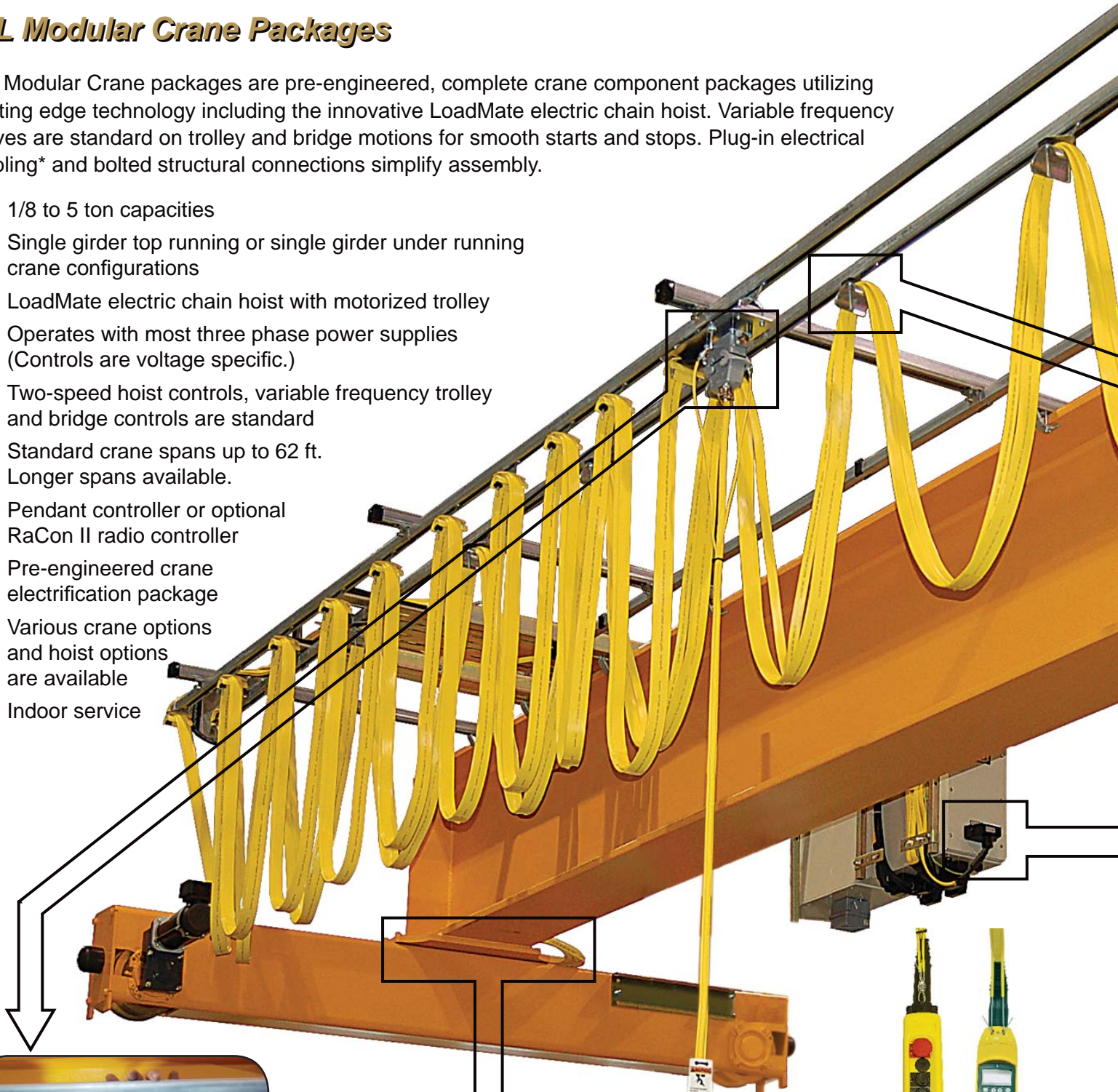


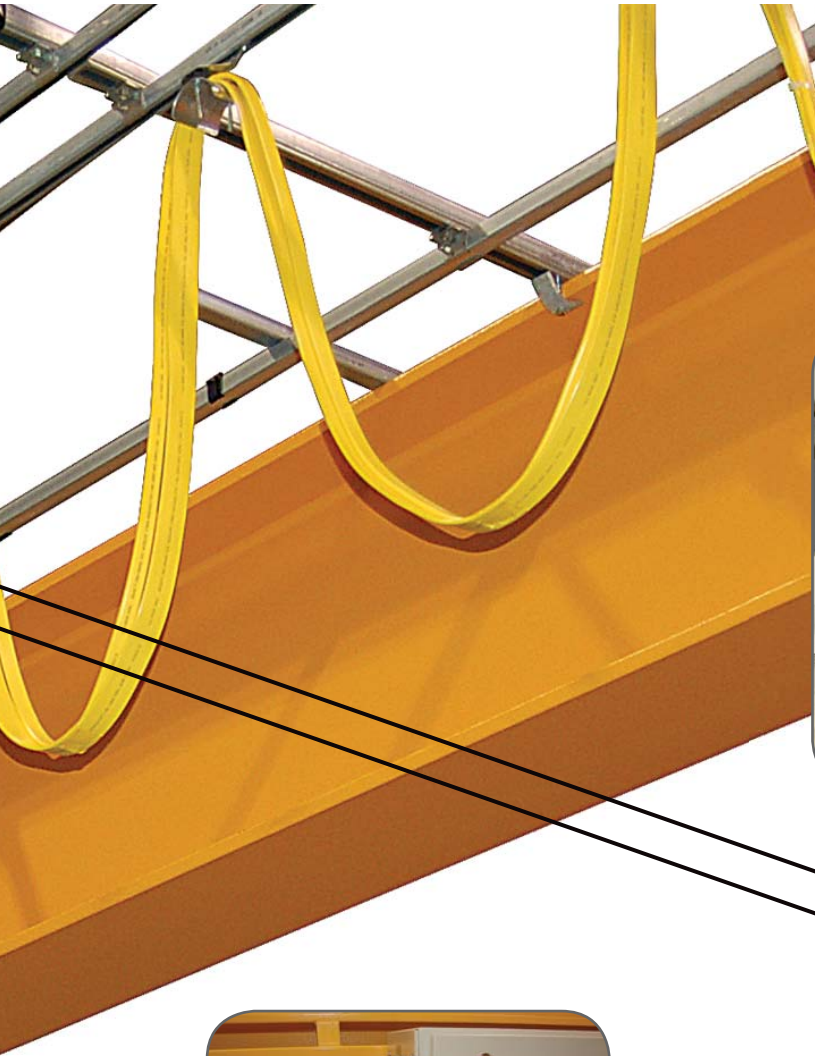
Standard bolted girder connection plates



PB or PBR Pendant Configurations

Optional RaCon® II Radio Control





**Proprietary QuoteMaster® software configures a crane package offer in seconds.**



**Galvanized steel cable trolleys**



**Plug-in festoon connections**

### **Crane Electrification Package Festoon System**

#### **QL Bridge Controls standard features:**

- Standard inverter offers two speed or 2-step infinitely variable speed control
- CSA c/us approved NEMA 4 type rated control enclosures for indoor use
- Mainline disconnect switch (mounted in door)
- Mainline contactor
- Plug-in connections for easy assembly and maintenance\*
- Control transformer with fused secondary
- Supports 208, 230, 460 or 575/3/60 power supply - 115 volt control voltage is standard (48 volt is optional)
- Supports 380/3/50 power supply - 48 volt control voltage is standard

- PVC flat cables are UL listed and CSA approved with a temperature range of -31°F to +221°F (-35°C to +105°C)
- Suspended from galvanized steel C-track
- Galvanized steel cable trolleys with steel and plastic cable supports
- Plug connections\* on cables make installation, repair and replacement simple and fast, saving expensive down time and the cost of an electrician
- All movements can be controlled from a convenient, easy-to-reach plug-in pushbutton station (8 buttons including emergency stop button)
- Independent C-track for pendant station allows operator to be positioned at a safe distance from load

\* Plug-in connections may not be available for packages with spans over 62 ft or 208 or 230/3/60 power supply.

LoadMate® hoists are designed to maximize productivity with fast installation, easy operation and built-in durability. The compact design provides low headroom and allows close trolley approaches. R&M's advanced design and manufacturing techniques ensure safe operation, consistent quality and longer component life. It adds up to exceptional value - hoist equipment that saves on maintenance, repair and downtime costs over its lifetime.

### **Flexibility to meet your exact requirements**

R&M LoadMate® electric chain hoists offer a range of choices for a wide variety of applications.

- 1/8 to 5 ton capacities
- 10, 15 and 20 ft. lifts standard; additional lifting heights available up to 150 ft. single fall, 75 ft. two fall.
- Two speed, three phase hoist motors and controls. Lift speeds from 12/3 fpm to 32/8 fpm (speeds reached with 60Hz power supply).
- Hoist motors are class F insulated, 50% effective duty rated.
- TMU trolley drive unit with inverter controls. Standard trolley inverter offers two-speed or 2-step infinitely variable speed control.
- Trolley control panel integrally mounted to the motor.
- Trolley brake, bumpers and drop lugs are standard.

### **EASE OF OPERATION** *Innovative design enhances versatility and ease of use*

- Premium-grade, AGMA rated \* precision gearing contributes to the hoist's compact, low-headroom design, low noise level and smooth operation.
- Integral hoist control panel encloses all electrical components (hoist contactors, transformer, terminal strips, etc.) and is easily accessed for maintenance.
- Easy trolley mounting attachment meets various application requirements. Slot in top of hoist body allows easy changeover of top hook, push trolley or motorized trolley mountings.
- Crown tread wheels standard on trolleys, for use on standard I-beams and wide flange beams.



\* Hoist gearboxes: LM1: AGMA 10, LM05 & LM10: AGMA11 and LM16/25: AGMA 12. Traveling gearboxes: AGMA 10.

### **REDUCED MAINTENANCE** *Quality keeps your hoist on the job long past the pay-off point*

LoadMate® hoists are designed to run cool and maximize the life of gears, brakes and motors. Longer component life means less maintenance, less downtime and lower repair costs.

- Sealed brake keeps out lubricants.
- The hoist brake and load limiter are both adjustable and adjust independently of each other.

For the most current technical guides, drawings and other product information visit our website at

**[www.rmhoist.com](http://www.rmhoist.com)**

## ***QL End Trucks and Bridge Drives***

### ***RSN and RTN (Top Running) Models***



- Heavy duty steel construction
- Double flanged wheels
- Rotating axle drive wheel (optional on idler wheel)
- Standard wheels are flat tread ductile iron (approximately 280 BHN)
- Equipped with rail sweeps and bumpers
- Works with GES Bridge Drives
- Bolted girder connection plates
- Single girder trucks available

### ***RU and RH (Under Running) Models***

- Adjustable for various flange widths
- Constructed of structural steel
- Ductile iron, single flange crown tread wheels (approximately 280 BHN)
- Easy access to wheels for maintenance
- Permanently lubricated antifriction bearings
- Equipped with bumpers and drop lugs
- Patented track wheel option
- Works with GEK Bridge Drives



### ***GEK and GES Bridge Drives***



- Fully enclosed gear units are specially designed for crane applications to ensure many years of trouble-free operation
- Modular design includes gearbox, motor and brake for ease of maintenance
- Totally enclosed, 30-minute, Class F insulated motors
- Motor brakes
- Brakes are normally closed. If power fails, brakes will stop further motion.



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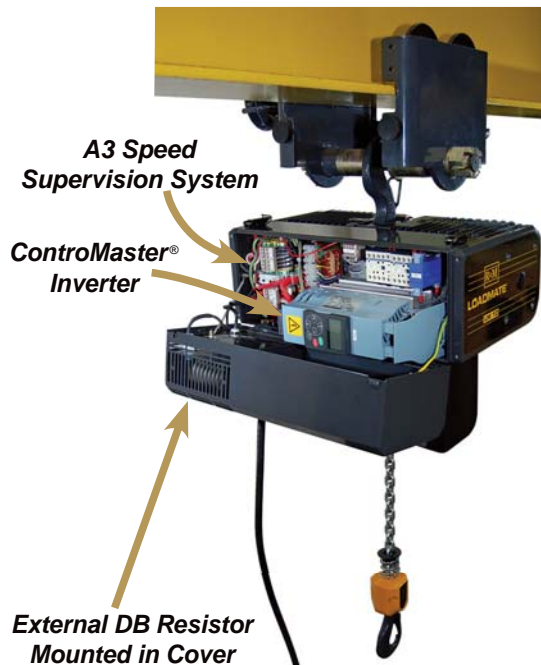
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*LoadMate® is a registered trademark of R&M Materials Handling, Inc.*

## LoadMate® Options

### Special Low Headroom Trolley Configuration

Using a special trolley frame with an offset hoist, lifting heights can be optimized. This configuration allows for maximum hook height in tight clearance applications.



### Special Hoist Control Options

Several special control options for the LoadMate® include:

- Variable frequency drive hoist control provides precision hook positioning LM10 frame size only (pictured to the left)
- Tandem control for simultaneous control of two hoists
- Hour counter for scheduled preventive maintenance as well as hoist SWP (Safe Working Period) calculations

*Caution: Do not use R&M hoists and trolleys for passenger elevator applications.*

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