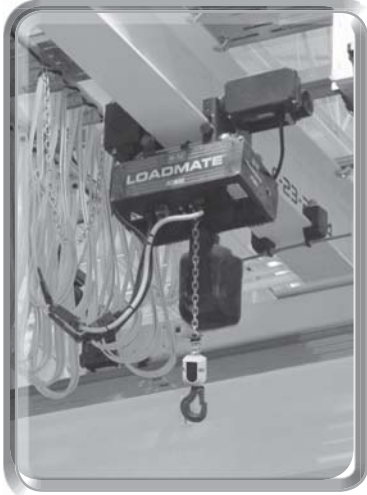




# QL<sup>®</sup> Modular Crane Packages

*Innovation . . . Performance . . . Reliability*

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

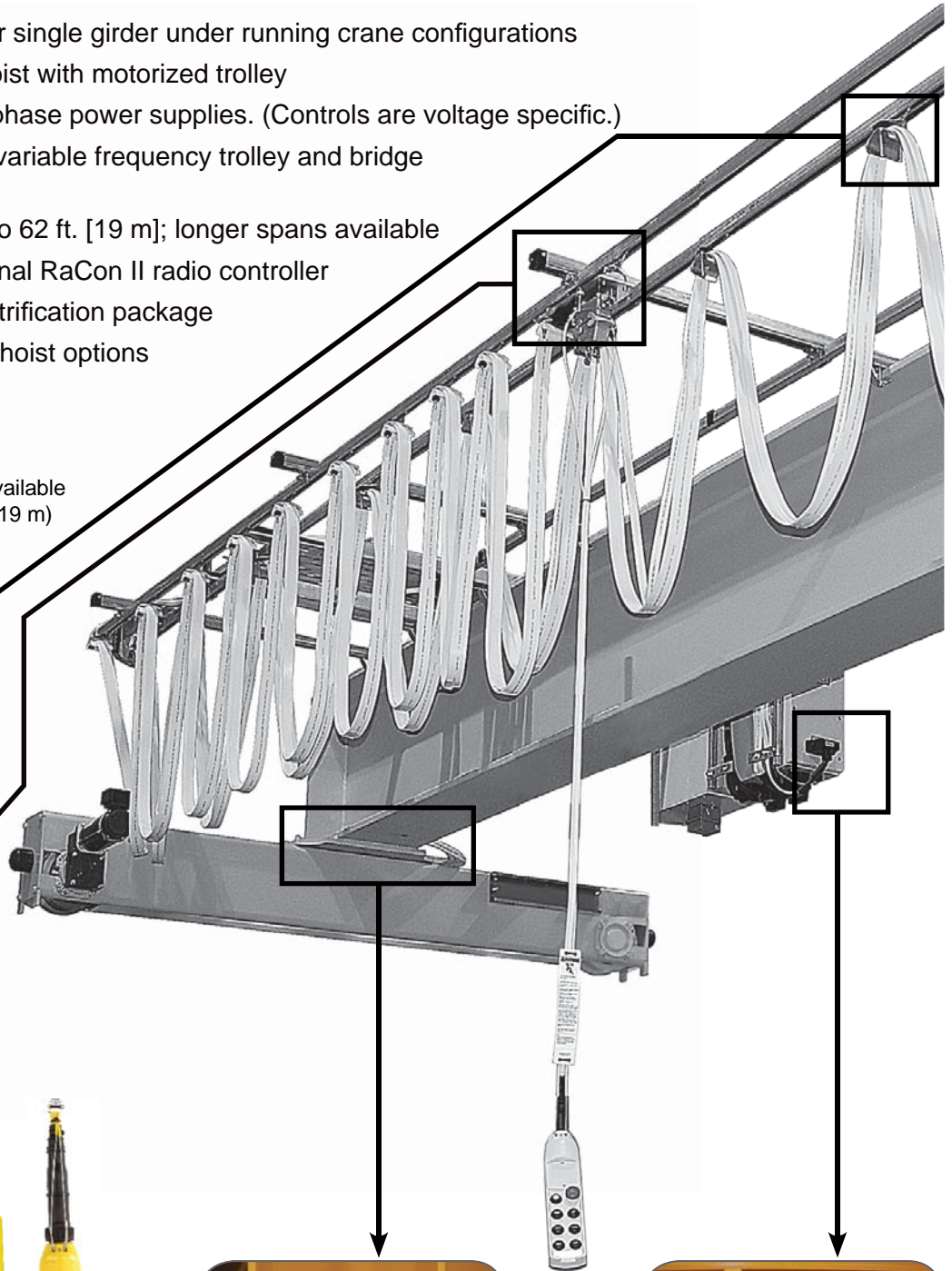


## QL Modular Crane Packages

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.

- 1/2 ton to 5 ton capacities with ASME duty ratings; 500 kg - 5,000 kg capacities with FEM duty ratings
- 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. [19 m]; 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 connections may not be available for packages with spans over 62 ft (19 m) or 208 or 230/3/60 power supply.



Galvanized steel cable trolleys



Plug-in pendant connection



Optional RaCon® II  
Radio Control



PB or PBR Pendant  
Configurations



Standard bolted girder  
connection plates



Plug-in festoon connections

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

- Standard inverter offers two speed or infinitely variable speed control.
- CSA c/us approved NEMA 4 type/IP55 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
- Slow down bridge traveling limit switch

## ***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

### ***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.

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

- 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 (19 m) or 208 or 230/3/60 power supply.

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

- Two four-wheel articulating trolley design
- Adjustable trolley to handle various flange widths
- Heavy duty steel construction
- 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

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





**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.

- 1/2 ton to 5 ton capacities with ASME duty ratings; 500 kg - 5,000 kg with FEM duty ratings
- 10, 15 and 20 ft. [3, 4.5, 6 m] lifts standard; additional lifting heights available up to 150 ft [46 m] single-fall, 75 ft [23 m] two-fall.
- Two speed, three phase hoist motors and controls. Lift speeds from 12/3 fpm [3.6/0.9 m/min] to 32/8 fpm [9.8/2.5 m/min] (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 infinitely variable speed control.
- Trolley control panel integrally mounted to the motor.
- Trolley brake, bumpers and drop lugs are standard.



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**CAUTION:**

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

### ***Hoist Control Options***

Several control options for the LoadMate® include:

- Variable frequency drive hoist control provides precision hook positioning LM10 frame size only.
- Tandem control for simultaneous or independent control of two similar hoists on bridge.
- Hour counter for scheduled preventive maintenance as well as hoist SWP (Safe Working Period) calculations

### ***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.

#### ***QL Crane Options***

- Horn
- Radio control
- Flashing light for crane traveling
- Two-speed contactor controls for bridge drives

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R&M Materials Handling, Inc. may alter or amend the technical specifications identified herein at any time with or without notice.



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