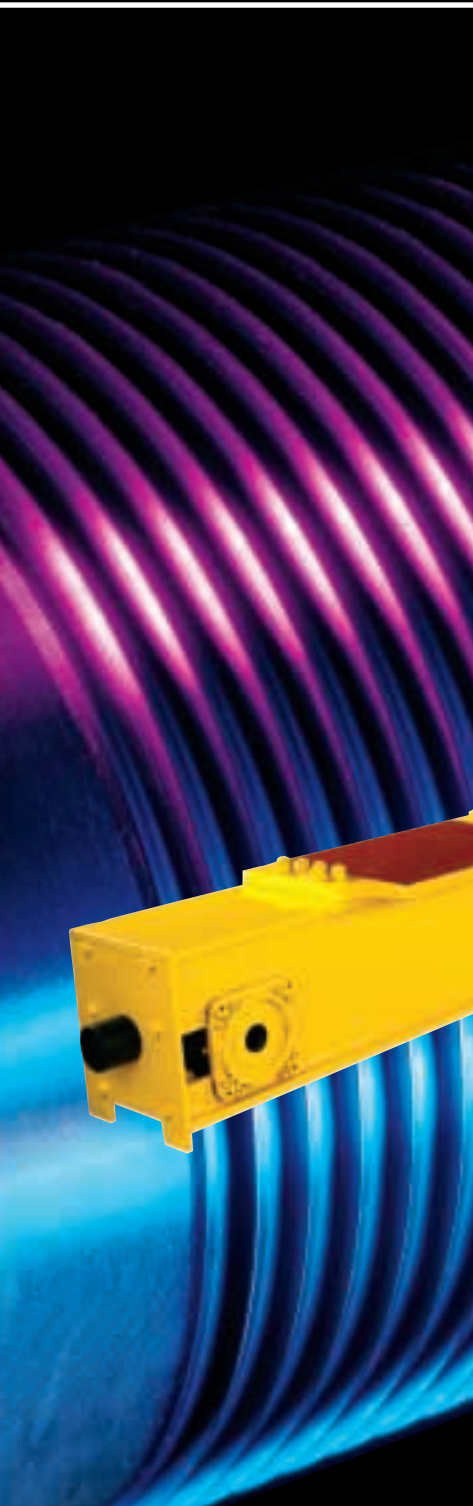




R&M

QX Modular Crane Packages

Innovation...Performance...Reliability



Safety, Easy Operation, Versatility,

QX Modular Crane packages are pre-engineered, complete crane component packages utilizing cutting edge technology including the innovative Spacemaster® SX wire rope 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.* The QX package includes virtually everything but the bridge girder.

Spacemaster® SX Electric Wire Rope Hoists

The Spacemaster® SX represents a revolutionary new generation of exceptionally reliable electric wire rope hoists, featuring advanced technology and cutting-edge performance.

An innovative design that includes a large drum diameter gives Spacemaster® SX hoists the lowest headrooms and best wheel loads in the industry, while providing near true vertical lift with single reeved hoists, and both exceptional hook approaches and heights of lift. Unique features include new low maintenance, sealed brakes; a two-speed hoist motor; and trolley inverter control. A NEMA 4 type control enclosure is also standard. Spacemaster® SX hoists are designed to meet and exceed either ASME H3 or ASME H4 duty (FEM 1Am, 2m or 3m) ratings and provide the ultimate in easy load handling, safe operation and lasting, trouble-free performance.

Standard configurations include normal headroom, low headroom and double girder trolley designs. Hoists in short ton ratings (ASME) or metric ratings (FEM) meet a wide variety of application requirements:

- 1/2 - 75 ton (500 - 75,000 kg) capacities
- Lifts starting at 13ft (4m) to 320ft (100m) and beyond
- Lift speeds 10/1.5 - 62/10 fpm (3/0.5 - 19/3 m/min)
- 208, 230, 460, 575/3/60 or 380/3/50 supply
- Single reeved or double reeved

EASE OF OPERATION

Large-diameter hoist drum means easy positioning, closer approaches.

The larger rope drum diameter provides nearly true vertical lift with a single reeved hoist — only 1/8" of drift per foot of lift. The result is exceptionally smooth movement and fast load positioning. This innovative design also means a shorter frame length, allowing closer end approaches.

Hoist and trolley motors designed for space savings and productivity.

The standard two-speed hoist motor (6:1 ratio), designed specifically for hoisting applications, offers high starting torque and ensures precise and reliable load handling. This motor is class F insulated, 30 minute rated (60% effective duty), thermally protected and totally enclosed. Inverter control is available as an option.

The trolley motor's standard inverter control offers two-step or infinitely variable speed control for smooth acceleration and deceleration, minimal load swing, fast, efficient handling and accurate load placement. Trolley bumpers are standard.



Reduced Maintenance, Long Life — QX

Safety features others don't offer— or offer at extra cost, are standard.

An electromechanical weight overload limit switch prevents the lifting of loads that are in excess of 110% of rated capacity. The 4-position hoist limit switch includes a new phase mismatch protection circuit that prevents the block from running up and damaging the hoist in the event of phase reversal.

Low maintenance Brake — means long-term value.

Sealed, dust-proof brakes on the trolley and hoist motors require little adjustment for over a million cycles.

Larger hoist drum — minimizes rope wear.

A drum/rope diameter ratio of approximately 40:1 minimizes rope flex, reducing wear and extending rope life. The drum's large capacity also contributes to a reduction in frame size and weight, reducing wear on hoist components and enabling the use of more cost-effective crane girders.

QX Bridge Controls — standard features:

- Standard inverter offers two step or infinitely variable speed control
- CSA approved NEMA 4 type rated control enclosures
- Mainline disconnect switch (mounted in door)
- Mainline contactor
- Plug-in connections for easy assembly and maintenance*
- 115 Volt transformer with fused secondary



*Plug-in connections not available for all packages

QX Crane Packages are available from 1 ton to 75 ton



QX Festooning Systems

- 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 plastic cable supports.
- Plug connections on cables make installation, repair and replacement simple and fast, saving both expensive down time and the cost of an electrician.
- All movements can be controlled from convenient, easy-to-reach plug-in pendant and push-button station (8 button station including emergency stop button).
- Independent C-track for pendant station allows operator to be positioned at a safe distance from load.

X Crane Packages Are Your Best Value

capacities



Rope Drum is made from high-strength seamless steel tubing with precision-cut, micro-finished grooves for accurate wire rope spooling and long life. Ductile iron rope guide includes spring-loaded pressure roller for slack rope protection.

Hook block has 360° swiveling load hook to permit easy rotation of the load.

Power Supplies — supports 208, 230, 460 or 575/3/60, as well as, 380/3/50. Control voltage for all power supplies is 115 Volt (48 Volt is optional).



RaCon® Radio Control is optional.



Reduced Maintenance, Long Life

DS & 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, Class F, 30-minute insulated motors.
- Motor brakes.
- Brakes are normally closed. If power fails, brakes will stop further travel.

End Trucks

R&M's end trucks are capable for CMAA Class C or Class D duty.

RT (Top Running) Models

- Heavy-duty box construction.
- All wheels double-flanged.
- Rotating axle drive wheel. (Optional on idler wheel.)
- Standard wheels are flat tread ductile iron (approx. 280 BHN).
- Equipped with rail sweeps and bumpers.
- Mates with GES Bridge Drives.

UC and UT (Under Running) Models

- Constructed of structural steel.
- Ductile iron single-flange wheels (approx. 280 BHN).
- Individual trucks adjustable for various flange widths.
- Easy access to wheels for maintenance.
- Antifriction permanently lubricated bearings.
- Equipped with bumpers and drop lugs.
- Patented track wheel option.
- Mates with DS Bridge Drives.





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QX Modular Crane Packages

A Sample of the QX Modular Crane Package Offering

Single Girder – Under Running Crane Two Speed Hoist - Inverter Controlled Trolley and Bridge

Capacity (tons)	Lift (ft.)	Lift Speed (fpm)	Trolley Speed min...max (fpm)	Bridge Speed min...max (fpm)
1	39'-4"	20/3.3 or 49/6.6	8...40 - 24...80	10...40 - 25...100
2	19'-8" or 31'-2"	20/3.3	8...40 - 24...80	10...40 - 25...100
3	19'-8" or 31'-2"	20/3.3	8...40 - 24...80	10...40 - 25...100
5	19'-8" or 31'-2"	20/3.3	8...40 - 24...80	10...40 - 25...100
7.5	29'-6"	20/3.3	8...40 - 24...80	10...40 - 25...100
10	29'-6"	20/3.3	8...40 - 24...80	10...40 - 25...100

Single Girder – Top Running Crane Two Speed Hoist - Inverter Controlled Trolley and Bridge

Capacity (tons)	Lift (ft.)	Lift Speed (fpm)	Trolley Speed min...max (fpm)	Bridge Speed min...max (fpm)
1	39'-4"	20/3.3 or 49/6.6	8...40 - 24...80	10...40 - 25...100
2	19'-8" or 31'-2"	20/3.3	8...40 - 24...80	10...40 - 25...100
3	19'-8" or 31'-2"	20/3.3	8...40 - 24...80	10...40 - 25...100
5	19'-8" or 31'-2"	20/3.3	8...40 - 24...80	10...40 - 25...100
7.5	29'-6"	20/3.3	8...40 - 24...80	10...40 - 25...100
10	29'-6"	20/3.3	8...40 - 24...80	10...40 - 25...100

Double Girder – Top Running Crane Two Speed Hoist - Inverter Controlled Trolley and Bridge

Capacity (tons)	Lift (ft.)	Lift Speed (fpm)	Trolley Speed min...max (fpm)	Bridge Speed min...max (fpm)
5	19'-8" or 29'-6"	20/3.3	8...40 - 24...80	10...40 - 25...100
7.5	29'-6"	20/3.3	8...40 - 24...80	10...40 - 25...100
10	29'-6"	20/3.3	8...40 - 24...80	10...40 - 25...100
15	32'-9"	12.5/1.9	8...40 - 24...80	10...40 - 25...100
20	26'-3"	10/1.5	8...40 - 24...80	10...40 - 25...100

Other capacities, lifts, speeds and options available.
Caution: Do not use R&M hoists or trolleys for passenger elevator applications.



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