



# SPACEMASTER® SX WIRE ROPE HOISTS

With nearly a century of expertise, our wire rope hoist products lead the industry in innovation, performance and reliability. We back our products with state-of-the-art proprietary software, support and expertise. Discover why R&M Materials Handling is an ideal choice for your next hoist or crane.



# RISE ABOVE™



# SPACEMASTER® SX WIRE ROPE HOISTS

The Spacemaster® SX represents an innovative design that includes a large drum diameter, giving Spacemaster® SX hoists the lowest headroom in the industry, while reducing rope wear and hook drift.

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

- HMI-Certified<sup>SM</sup>
- 1/2 - 80 ton (500 - 80,000 kg) capacities
- Lifts starting at 13 - 320 ft (4 - 100 m) and beyond
- Lifting speed range 10/1.5 - 62/10 fpm (3/0.5 - 19/3 mpm)
- 208, 230, 460, 575/3/60 or 380/3/50 power supply
- Single-reeved or double-reeved

- Two-component epoxy paint
- CSA C/US rating for electrical enclosures
- Hoisting electrical enclosures with NEMA 3 rating
- Designed to meet and exceed either ASME H3 or ASME H4 duty (FEM 1Am, 2m, or 3m) ratings



## LOW HEADROOM TROLLEY

- The best solution for single girder cranes
- Its compact design provides maximum space efficiency

## NORMAL HEADROOM TROLLEY

- An ideal selection for monorails and jib crane applications

## DOUBLE GIRDER TROLLEY

- Superior clearance and headroom for double girder crane applications

## RX PROGRAM

Our most common hoists and options are available through our quick delivery RX Program with a 2-5 day lead time!

# THE POWER OF LIFTING

The drive train is the unifying element in R&M's equipment. It's an integrated package of purpose-built gears, motors and controls, designed and made in-house specifically for cranes and lifting motions. This gives our hoists a longer lifetime and excellent functionality. We aim for the highest levels of safety and reliability in our key components.



## CERTIFIED FOR YOUR PEACE OF MIND

The Spacemaster® SX wire rope hoist carries the CSA C/US mark. CSA International is a Nationally Recognized Testing Laboratory (NRTL) accredited by the Occupational Safety and Health Association (OSHA) to test and certify products to U.S., Canadian and International recognized standards.

Certification from CSA International also indicates that the Spacemaster® SX wire rope hoist manufacturing sites conform to a range of compliance measures and are subject to periodic follow-up inspections to verify conformance. These same manufacturing sites are also ISO9001 certified.

Quality assurance with all R&M equipment is very important to us. All equipment is tested locally prior to shipment. Units are shipped with a test certificate, owner's manual and a parts list.



## SPECIAL APPLICATION AND HIGH CAPACITY HOISTS

- Main hoist / auxiliary hoist on a common trolley
- Double girder underrunning trolley
- Motorized bottom block
- Specialized controls
- Double girder hoist rotated 90°
- Outdoor use / dusty environment
- High altitude
- Special trolley rail gauges
- Low connection double girder trolleys



▶ **HMI-CERTIFIED<sup>SM</sup>**



The Spacemaster<sup>®</sup> SX wire rope hoist line is HMI-Certified! The purpose of the HMI-Certified License program is to instill buyer and user confidence in the product by assuring it meets one or more recognized industry standards and the licensee is committed to safety, service and after market support. The product is also verified, signed and sealed that it meets the requirements of said standard(s) by a qualified US registered professional engineer.

HMI-Certified is a registered asset of the Hoist Manufacturers Institute (HMI<sup>®</sup>).

# BUILT FOR YOUR APPLICATION

R&M's product line offers the broadest product portfolio available in the industry. Our extensive line of innovative features allow us to cover nearly every hoisting application and environment. Each hoist is tailored specifically to your needs bringing you the level of quality engineering you rely on with R&M.



## PRECISION LOAD HANDLING

Inverter controls, sometimes called variable frequency drives (VFD) are an electrical device which controls the speed of the motor. ControlMaster<sup>®</sup> inverter controls provide better performance and prolong the equipment's life. Dynamic braking (a technique of electric braking in which the speed reduction is controlled by the inverter) means the inverter controls the motor speed to nearly zero before the brake is engaged, significantly reducing brake wear. Controlled acceleration and deceleration provides smooth starts and stops and lowers starting currents, reducing gear and motor wear and structural stress on mechanical components and reducing load swing- leading to longer equipment life and better safety.

## SAFETY AT YOUR FINGERTIPS

Hoist monitoring is a standard feature on every Spacemaster SX hoist. Hoist monitoring protects your equipment from overloads while providing you with accurate real-time information about how your equipment is being used. We have used our nearly 90 years of experience in the hoist and crane business to also build in helpful service warnings to help you plan your routine maintenance. Monitoring functions do not interfere with the use of your hoist; however, in the case of an overload or sudden loading change, loads are able to be safely lowered to the ground. The HoistMonitor Enclave provides wireless connectivity with the OLI app so you can instantly retrieve real-time HoistMonitor data from the floor without any downtime.

## DIGITAL TOOLS & INNOVATION

R&M recognizes the important role digital tools play in the crane and hoist industry and works to rise above competition with innovative technology. Digital tools such as the Overhead Lifting Information (OLI) app and TD Drive Tool app make it easier than ever to stay ahead of competitors and maintain a safe work environment.

The OLI app provides wireless real-time access to raw data without any downtime in a more user-friendly interface. The TD Drive Tool app allows you to display all parameters available (output frequency, active fault codes and more) – right from your mobile device.

The Spacemaster<sup>®</sup> SX wire rope hoist carries the CSA mark with the indicators "C" and "US". This means that the product has been certified by CSA International for both the U.S. and Canadian markets, to the applicable U.S. and Canadian standards. CSA International is a Nationally Recognized Testing Laboratory (NRTL) accredited by the Occupational Safety and Health Association (OSHA) to test and certify products to U.S., Canadian and International recognized standards.

Certification from CSA International also indicates that the Spacemaster<sup>®</sup> SX wire rope hoist manufacturing sites conform to a range of compliance measures and are subject to periodic follow-up inspections to verify conformance. These same manufacturing sites are also ISO9001 certified.

## ROPE DRUM DESIGN

To achieve maximum performance while reducing hook drift, R&M offers single-reeved hoists with a wide rope drum diameter design.

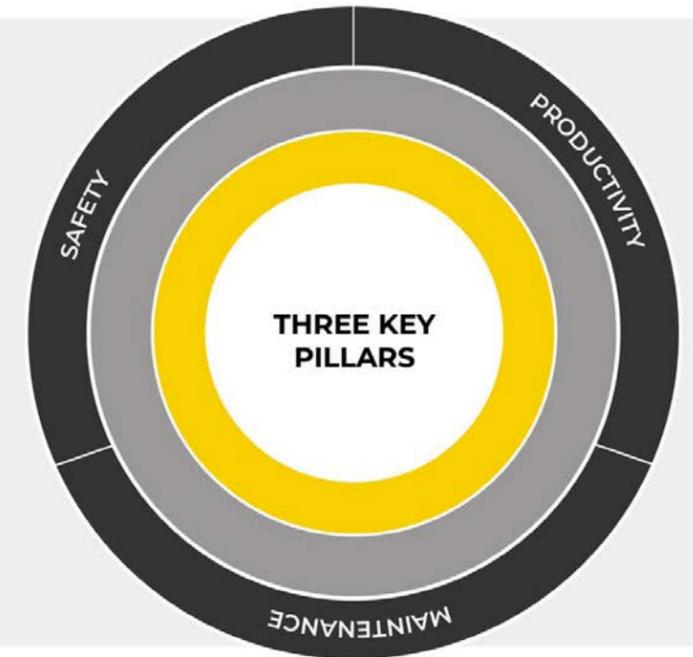
The wide diameter rope drum reduces hook drift to just 1/8th of an inch per vertical foot of lift, giving operators near-true-vertical lifting accuracy, especially when we consider that most setting adjustments are happening within the last few inches of a lift.

The R&M Spacemaster® SX hoist's wide drum diameter allows for greater lifting heights and more precise operations within a compact, space-saving design. Because R&M's wide diameter rope drum is more compact, end approach is also improved – meaning more workable floor space compared to cranes with hoists that have long, narrow diameter drums.

In most scenarios, R&M's single-reeved hoist will cover all of your application's needs. If 1/8th of an inch of hook drift per vertical foot of lift is still not precise enough, additional features can be added to make an even further impact on efficiency and productivity.

## THREE KEY PILLARS OF TOTAL COST OF OWNERSHIP AND LIFETIME VALUE

When safety, productivity, and preventive maintenance are all working together, your manufacturing business can experience a range of benefits that contribute to lower TCO. Fewer accidents and injuries result in lower costs, increased productivity leads to greater efficiency, and preventive maintenance helps to reduce downtime and prolongs the life of your hoists and cranes.



### SINGLE-REEVED HOIST

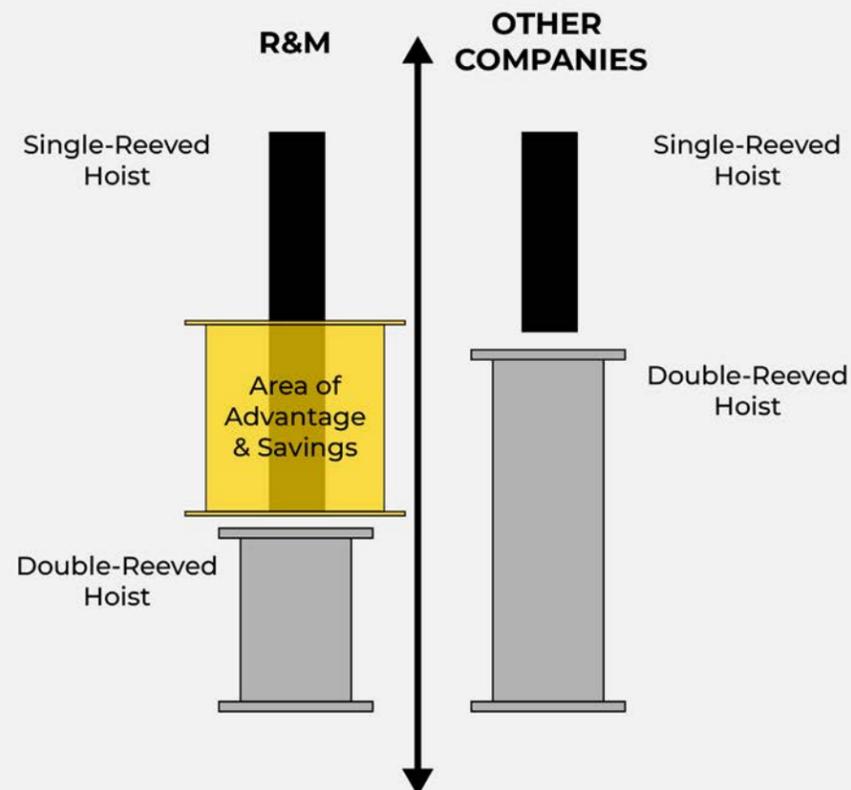
- Lower Up-Front Cost
- Lower Maintenance Costs
- More Compact/Better Floor Coverage

### DOUBLE-REEVED HOIST

- Greater Precision
- Higher Capacities

### ADDITIONAL R&M FEATURES

- Intelligent Controls
- Automation
- Closed-Loop Inverters
- Micro-Speeds



### THREE KEY PILLARS OF LIFETIME VALUE

Understanding the overall cost of your equipment benefits your project by producing a better return on investment (ROI) and improved performance. Keeping TCO as low as possible is the reason so many businesses fret over the dreaded “repair-or-replace” decisions when it is time to replace failing equipment. R&M's cranes and hoists are built with three key pillars -- safety, productivity and maintenance -- in mind to ensure a lower total cost of ownership.

1. **Safety:** By prioritizing safety, you can protect your employees and equipment, reduce expenses and increase profitability in the long run.
2. **Productivity:** Preventative maintenance and regular inspections can reduce the risk of unexpected downtime and minimize the associated costs, improving a crane's overall TCO and lifetime value.
3. **Maintenance:** Keeping a crane well-maintained can also extend its working life, providing greater value over time and reducing the need for premature replacement, thereby maximizing your return on investment.

# QX<sup>®</sup> MODULAR CRANE PACKAGES

QX<sup>®</sup> modular crane packages are pre-engineered, complete crane component packages utilizing cutting edge technology. Variable frequency drives are standard on trolley and bridge motions for smooth starts and stops. Plug-in cabling\* and bolted structural connections simplify assembly. QX<sup>®</sup> modular crane packages are equipped with your choice of a C-track festoon system or the NRGmaster electrification system.



## STANDARD FEATURES

- Spacemaster<sup>®</sup> SX wire rope hoist
- Top or underrunning design
- PRQ ergonomic pendant controller
- Optional RaCon<sup>®</sup> 3 radio controller
- HoistMonitor<sup>®</sup> or HoistWatch load monitoring system
- Standard inverter controls for trolley and bridge
- Plug-in connections for easy assembly and maintenance\*
- 208, 230, 460 or 575/3/60 power supplies, as well as 380/3/50
- All components are CSA C/US approved

## C-TRACK FESTOON SYSTEM

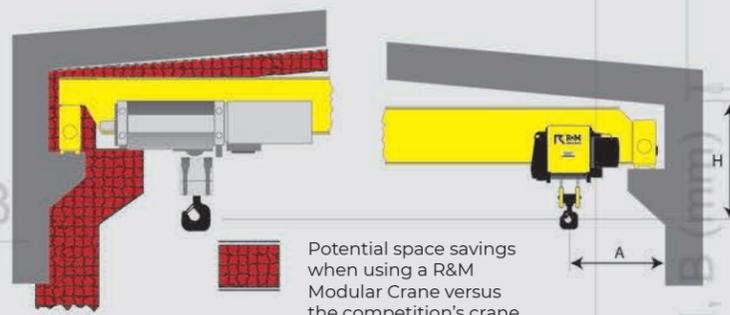
- PVC flat cables are UL & CSA C/US listed
- Suspended from galvanized steel C-track
- All crane motions can be controlled from a convenient plug-in push button station
- Independent C-track for pendant station allows operator to be positioned at a safe distance from load

\* Plug-in connections not available for some environments and features.

## SPACEMASTER SX CLEARANCES = SPACE SAVINGS IN NEW CONSTRUCTIONS

Unmatched clearances - Lower operating cost - Maximum flexibility

Building with Competition's Crane      Building with R&M C-track Festoon



Potential space savings when using a R&M Modular Crane versus the competition's crane

A: Distance from hook to wall  
H: Distance from hook to ceiling

# NRGMMASTER ELECTRIFICATION SYSTEM

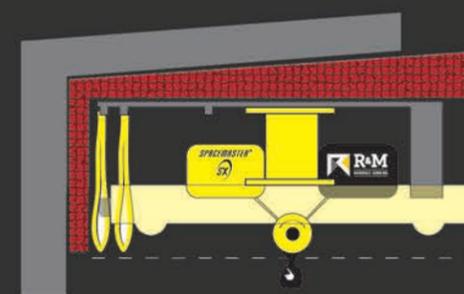
The NRGmaster energy chain crane features our innovative NRGmaster festoon and RaCon<sup>®</sup> 3 radio controller for the best floor coverage and ease of operation. The NRGmaster energy chain crane helps you to achieve the best crane clearances and shop floor coverage, while reducing the maintenance concerns associated with traditional C-track festoons.



## NRGmaster Electrification System = The Most Space Savings in New Construction

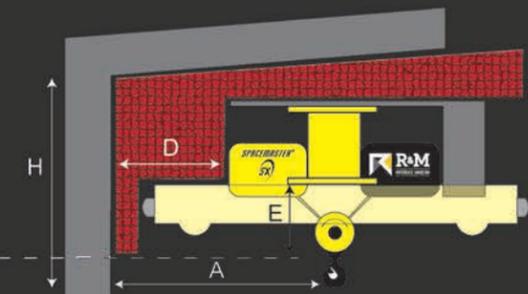
- Unmatched clearances – The floor area under your new crane can now be used more efficiently – Better hook to wall dimensions (A) compared to the competition
- Lower roof heights/maximum lifting heights – Your new building design can be smaller and more functional giving you savings in initial construction. Better hook to ceiling dimensions (H) compared to the competition
- Lower operating costs – Continual savings in heating and/or air conditioning expenses over the lifetime of your building
- Maximum flexibility – Factory layout and material flow planning is optimized

Figure 1. C-track Festoon



Potential space savings when using R&M's QX modular crane package versus competitors' cranes (Figure 1) and the added space savings versus standard C-track festoon system cranes (Figure 2)

Figure 2. NRGmaster Electrification System



A. Decreased distance from hook to wall (versus C-track festoon cranes)  
D. Increased inner span distance to wall (no festoon obstruction)  
E. Less obstructions from floor to girder (no dangling cables)  
H. Decreased distance from hook to ceiling (versus competitors cranes)



## RISE ABOVE WITH R&M MATERIALS HANDLING, INC.

R&M has been innovating since 1929. With our heritage of innovation, our wire rope and chain hoist products have consistently set the crane industry norms. Our cutting-edge solutions will help you to rise above your material handling challenges. You deserve the best performance possible; let us help you achieve it!

R&M Materials Handling, Inc. may alter or amend the technical specifications identified herein at any time with or without notice.  
R&M Materials Handling, Inc. is a proud member of the following organizations:



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