



R&M Spacemaster® SX

Electric Wire Rope Hoists

Innovation...Performance...Reliability



Spacemaster® SX hoists: sup

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 included 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.

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" 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.

Standard two-speed hoist motor (6:1 ratio), designed specifically for hoisting applications, offers high starting torque and ensures precise and reliable load handling.

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



This motor is class F insulated, 30 minute rated (60% effective duty), thermally protected and totally enclosed.

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.

Superior long-term performance.

SAFETY

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

An electromechanical load 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.

Durable, sealed brakes, hardened ground gears, thermal motor protection, exceptional rope life and ergonomic hook block design with sturdy safety latch contribute to the hoist's safe operation and increased reliability.



LESS MAINTENANCE

Durable, sealed brakes mean long-term value.

Sealed, dust-proof brakes on the trolley and hoist motors require little adjustments for over a million cycles and will last the life of the hoist under normal use.

Trolley design reduces wear on components.

The trolley drive is totally enclosed, grease lubricated and is designed to be maintenance-free. Trolley wheel bearings are permanently lubricated. The automatic disc brake and inverter control help extend the life of the motor and other components, which means less maintenance, less downtime, lower repair costs — and reduced cost over the lifetime of your hoist equipment.

LONG LIFE

Innovative gearbox provides dependable operation and extends equipment life.

The innovative gear case design reduces stress on drum bearings, reducing the need for maintenance while extending component life. It features hardened and ground internal reduction gears driving an external drum gear located on the inner surface of the rope drum.

The gearbox's semi-fluid grease lubrication also helps to extend its working life. With no load brake, the gear case runs cooler and more efficiently.



Larger hoist drum minimizes rope wear and enhances cooling.

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. The unique placement of the hoist motor inside the drum provides directed airflow through the drum for optimal motor cooling.

This design also makes the motor and brake more easily accessible.





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Electric Wire Rope Hoists

Trolley Configurations

Double girder trolley

Superior clearance and headroom for double girder crane applications.



Normal headroom trolley

An ideal selection for monorails and jib crane applications. Hardened wheels for patented track applications are also available.



(Shown with optional second holding brake)

Low headroom trolley

The best solution for single girder cranes; its compact design provides maximum space-efficiency.



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



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