



SPACEMASTER® EX HAZARDOUS LOCATION HOISTS

The Spacemaster EX electric wire rope hoist is the hazardous location version of the industry leading Spacemaster SX hoist. Along with exceptional hook approaches and heights of lifts, this hoist features one of the lowest headrooms in the industry. The Spacemaster EX hoists are rated for use in Class I, Division 2 environments with Groups B, C and D, and Temperature Class T3 or in Class I, Division 1 environments with Groups C and D and Temperature Class T4.



RISE ABOVE™



CSA mark shown with adjacent indicators "C" and "US" for Canada and U.S. indicates that the products have been manufactured to the requirements of both Canadian and U.S. Standards

SPACEMASTER® EX CLASS I, DIVISION 2 HOISTS

The Spacemaster EX Class I, Division 2 hoist carries a Class I, Division 2 hazard location rating for Groups B, C and D and with a temperature class T3, and carries an additional marking of Class I, Zone 2 IIB+H2, T3 . Class and Division rated equipment can be used in the appropriate Zone environment as permitted by the National Electrical Code (NEC 505.9 and NEC 505.20) and the Canadian Electrical Code (CEC C22.1).



CID2 STANDARD FEATURES:

- 1 - 80 ton (1000 - 80,000 kg) capacities
- 460, 575/3/60 Hz or 380/3/50 Hz supply
- Two-speed hoist with 6:1 ratio, contactor control
- Two-speed trolley with 4:1 ratio, contactor control
- Low headroom, normal headroom and double girder trolleys
- Single reeved or double reeved
- Spark-resistant wire rope as standard (EN 13463-5)
- CSA C/US approved

CLASS I, DIVISION 1
VS.
CLASS I, DIVISION 2

There are many features that make the Spacemaster EX CID1 hoist different than the CID2 hoist, including:

- Different hoisting and traveling motors
- Bigger hoist control panel and new panel fixing plates
- Armored cables instead of flexible conduits for motors
- Different cable entries for motor cables due to armored cables
- Intrinsically safe circuit for control commands and limit switches
- Additional barrier relays because of intrinsically safe circuit
- Additional labels to mark intrinsically safe circuit cables outside the enclosure
- Stainless steel hoist data and warning plates

NFPA 70 NEC hazardous location CLASS I means flammable gasses or vapors may be present ...	
DIVISION 1	• under normal operating conditions. • as a result of frequent maintenance or repair operations. • as a result of equipment breakdown, faulty operation or failure.
DIVISION 2	• and are normally confined within closed containers when handled or used. • and are normally protected by positive mechanical ventilation. • and the location is adjacent to a Class I, Division 1 location.

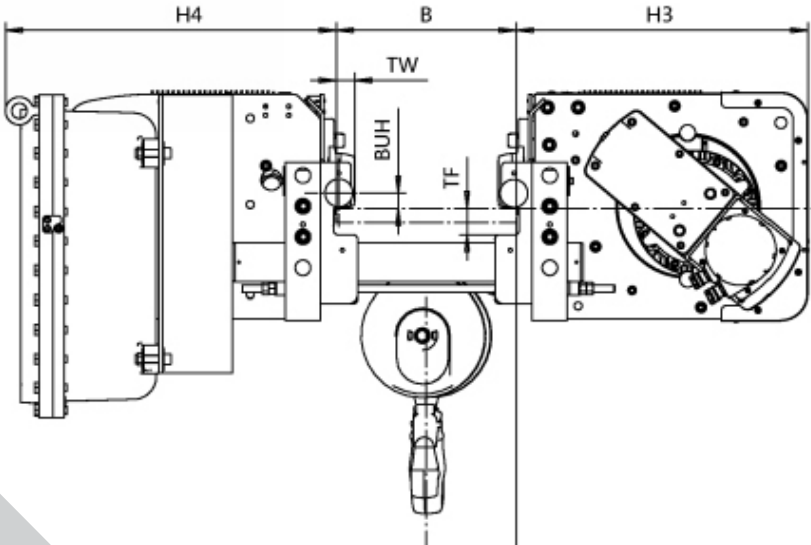


What does intrinsically safe-wired mean?

Intrinsically safe electrical systems are designed to limit the electrical and thermal energy in a circuit to a level below what is required to ignite an explosive gas or dust atmosphere. A circuit design considers potential energy that may be present in field devices and interconnecting wiring. Intrinsically safe circuits are used for control commands and limit switches on CID1 equipment.

SPACEMASTER® EX CLASS I, DIVISION 1 HOISTS

The Spacemaster EX Class I, Division hazardous location hoist is certified to meet Class I, Division 1, Groups C & D, and T4 temperature class, and also carries an additional marking of Class I, Zone 1, IIB, T4

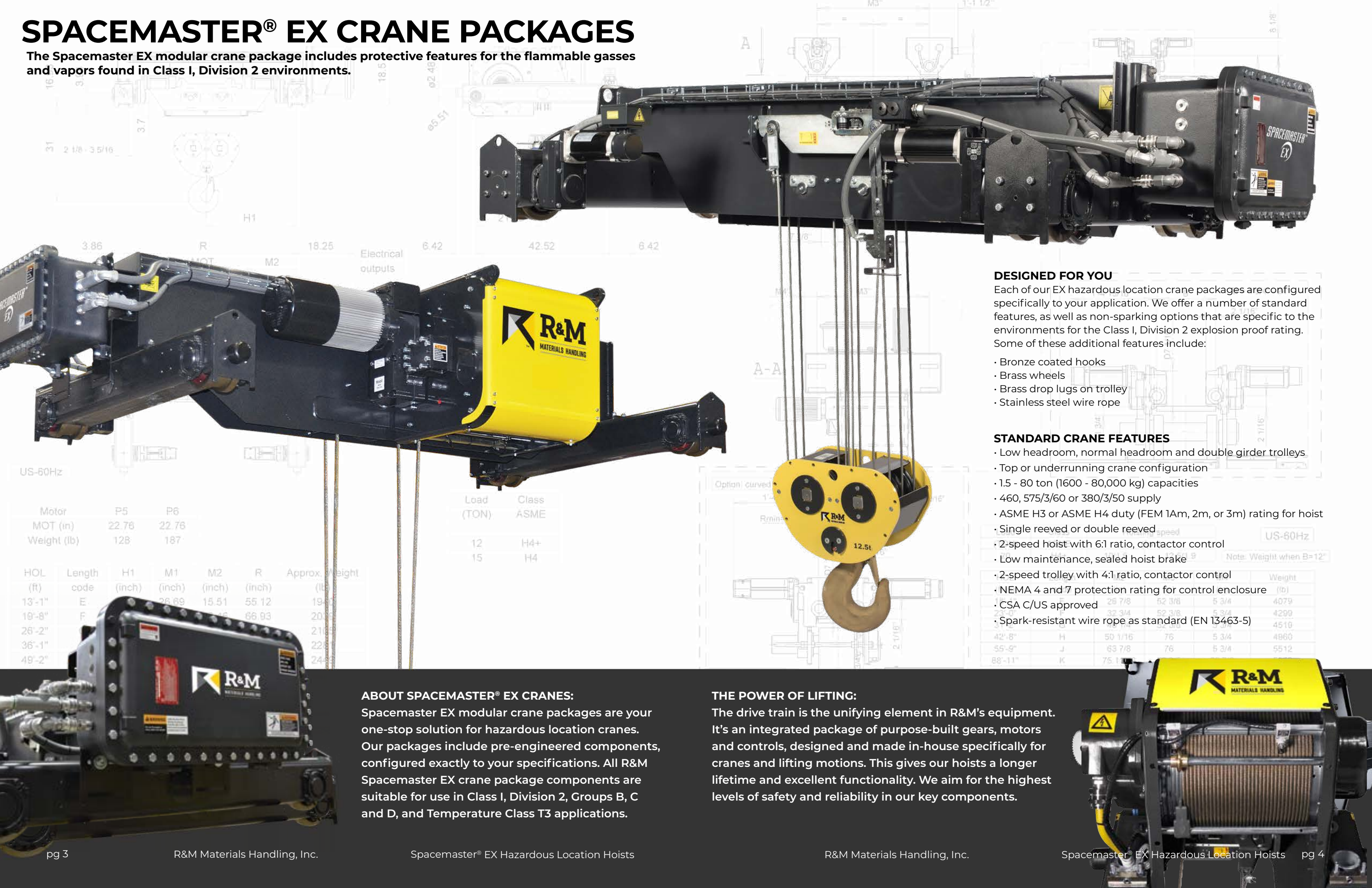


CID1 STANDARD FEATURES:

- 1-20 tons (1000 - 20,000 kg) capacities
- 460 or 575/3/60Hz supply
- Two-speed hoist with 6:1 ratio, contactor control
- Two-speed trolley with 4:1 ratio, contactor control
- Low headroom or normal headroom trolleys
- Single reeved or double reeved
- Intrinsically safe-wired circuitry
- Mainline contactor and control transformer
- Ergonomic and lightweight pendant controller
- CSA C/US approved

SPACEMASTER® EX CRANE PACKAGES

The Spacemaster EX modular crane package includes protective features for the flammable gasses and vapors found in Class I, Division 2 environments.



DESIGNED FOR YOU

Each of our EX hazardous location crane packages are configured specifically to your application. We offer a number of standard features, as well as non-sparking options that are specific to the environments for the Class I, Division 2 explosion proof rating. Some of these additional features include:

- Bronze coated hooks
- Brass wheels
- Brass drop lugs on trolley
- Stainless steel wire rope

STANDARD CRANE FEATURES

- Low headroom, normal headroom and double girder trolleys
- Top or underrunning crane configuration
- 1.5 - 80 ton (1600 - 80,000 kg) capacities
- 460, 575/3/60 or 380/3/50 supply
- ASME H3 or ASME H4 duty (FEM 1Am, 2m, or 3m) rating for hoist
- Single reeved or double reeved
- 2-speed hoist with 6:1 ratio, contactor control
- Low maintenance, sealed hoist brake
- 2-speed trolley with 4:1 ratio, contactor control
- NEMA 4 and 7 protection rating for control enclosure
- CSA C/US approved
- Spark-resistant wire rope as standard (EN 13463-5)

ABOUT SPACEMASTER® EX CRANES:

Spacemaster EX modular crane packages are your one-stop solution for hazardous location cranes. Our packages include pre-engineered components, configured exactly to your specifications. All R&M Spacemaster EX crane package components are suitable for use in Class I, Division 2, Groups B, C and D, and Temperature Class T3 applications.

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.



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:

