



SHAW-BOX[®]

GLOBAL KING[™] & WORLD SERIES[™]

**EXPLOSION-PROOF MODEL
NOW WITH SPARK-RESISTANT OPTIONS**



C O L U M B U S M C K I N N O N C O R P O R A T I O N



SHAW-BOX®

GLOBAL KING & WORLD SERIES™ EXPLOSION-PROOF MODEL NOW WITH SPARK-RESISTANT OPTIONS

The Yale® Global King & Shaw-Box® World Series explosion-proof model wire rope hoists are engineered and built for use in Division 2, Class I, Groups B, C & D hazardous environments. These units feature special enclosures, metal clad electrical cables and fittings, and intrinsically safe limit switches and control stations.

New spark-resistant options are available on Global King and World Series hoists with underhung and top-running trolleys, as well as deck-mounted configurations. Our explosion-proof units are well suited for offshore rigging platforms and downstream processing facilities in the Oil and Gas Industry where flammable gases and liquids are present.

Tagged Division 2 Hazardous Location motors, which surpass OSHA requirements, as well as optional corrosion-resistant features are also available upon request.



DEFINITION OF DIVISION, CLASS & GROUP

DIVISION 2

Locations in which hazardous concentrations are handled, processed or used but are normally within closed containers or closed systems from which they can escape only in the case of accidental rupture or breakdown.

CLASS 1

Locations in which flammable gases or vapors are or may be present in the air in quantities sufficient to produce explosive or ignitable mixtures.

GROUP B

Atmospheres containing hydrogen, or gases and vapors of equivalent hazard, such as manufactured gas.

GROUP C

Atmospheres containing ethyl-ether vapors, ethylene or cyclo propane.

GROUP D

Atmospheres containing gasoline, hexane, naphtha, benzene, butane, alcohol, acetone, benzol, lacquer solvent vapors or natural gas.





STANDARD FEATURES:

WIRE ROPE DRUM

Machined from quality steel, deep-grooved with a rope guide to help ensure the rope stays in the grooves. Wire rope is secured to the drum with three heavy ductile iron clamps and designed to have three extra wraps of wire rope on the drum with the rope at full extension (low hook).

HEAVY-DUTY DISC BRAKES

Rated at 200% torque, provides quick, positive stops and load holding.

WHEELS

Steel compound tread wheels for long life and use on either wide-flange or "S" beams. One wheel on each side of trolley driven for positive tracking.

GEARING

Triple reduction hoist gearing is oil bath lubricated, operating in an oil-tight, cast aluminum gear case.

FRAME

Heavy steel frame provides a solid foundation and positive alignment of key components.

TRUNNION-STYLE BLOCK AND HOOK

Bearing mounted trunnion hook rotates 360° and swings back and forth 180° for easier load adjustment.

LOW HEADROOM

Reeved to a low-headroom design lower block for minimum headroom and maximum lift.

TROLLEY

Easily adjustable to handle a wide range of beam flange widths.

EXPLOSION-PROOF FEATURES:

NEMA 4/7/9 RATED CONTROL ENCLOSURE

Hoist and trolley controls are housed in a NEMA 4/7/9 rated enclosure with hoist motion monitor, thermal overloads, over-capacity limit switch and more. Two-speed control for smooth acceleration and precise load positioning.

MC (METAL CLAD) ELECTRICAL CABLE & FITTINGS

Where required

STANDARD MOTOR

Standard motor (not shown) is two-speed with a 4:1 ratio from high to low speed. Low speed allows for precise load handling and high speed is ideal for fast throughput. Optional Division 2 Hazardous Location motor is shown in photo.

INTRINSICALLY SAFE LIMIT SWITCHES

Standard upper/lower geared hoist motion limit switch prevents overloading. Optional block operated upper control circuit limit switch is available.

INTRINSICALLY SAFE CONTROL STATION

Available when required (not shown).

SPARK-RESISTANT OPTIONS:



BRONZE SHEAVES

Allows for safe and smooth operation, while preventing sparking as a result of friction between the wire rope and lower sheaves located within the hook block.



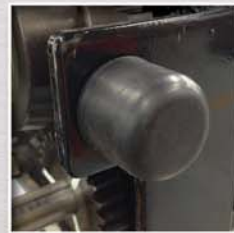
BRONZE TROLLEY WHEELS

Reduces possibility of sparking when in contact with steel rails, bridge, runway beams or drive pinions, thereby also reducing the possibility of igniting hazardous atmospheres.



BRONZE OR COPPER-PLATED LOAD HOOK

Solid bronze or copper-plated load hooks with our standard nylon sheave covers reduce the possibility of sparking in the event the hook block strikes steel or other ferrous metal objects. Load hooks include stainless steel, spring-loaded safety latches.



DROP STOPS WITH RUBBER BUMPERS

Prevents sparking in the event of accidental collision with other equipment on beam.

OPTIONAL CORROSION-RESISTANT FEATURES

Available for the Global King/World Series hoists. Contact a CMCO customer service representative if required for your application.



KNOW HOW...KNOW WHY

Columbus McKinnon is a global leader in providing expertise and training in the proper use and inspection of rigging and overhead lifting equipment. With a range of comprehensive programs and seminars conducted at venues throughout North America, as well as on site at private companies and industries, Columbus McKinnon courses include:

- Hoist Maintenance
- Load Securement
- Crane & Hoist Inspection
- Rigging Gear Inspection
- Rigging
- Safe Hoisting
- Crane Operator Training

Classes are available at our Niagara Training Center and the state-of-the-art **Hoist & Rigging Training Center of Excellence** in the Center for Occupational Health and Automobile Manufacturing (COHAM) lab at The Ohio State University. The COHAM lab is a hands-on learning center which allows attendees to understand how to properly use and inspect overhead lifting equipment. This leading-edge training program is designed to increase workplace productivity and safety in a ergonomically friendly environment.



In addition to the strong knowledge base exemplified by comprehensive training programs, Columbus McKinnon is one of the only manufacturers supplying complete lifting systems to satisfy unique material handling requirements of users in a variety of environments. From jib cranes and hoists to chain slings, clamps, and related attachments; systems include products that are matched specifically to the lifting needs of the application. Products may also be modified in order to ensure that the proper system is in place for the job.

Whether your needs call for a single Global King explosion-proof model wire rope hoist with spark-resistant options or a completely engineered system to outfit your production facility, Columbus McKinnon provides the products and expertise to keep your workforce productive and safe.



▲ WARNING

To Avoid Injury:

- Do not exceed working load limit, load rating, or capacity.
- Do not use to lift people or loads over people.
- Read and follow all instructions.



FAMILY OF BRANDS



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