



# GLOBAL KING™

## EXPLOSION-PROOF OPTION

ELECTRIC WIRE ROPE HOISTS



Distributed By



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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



**Yale**  
HOISTS

# GLOBAL KING

ELECTRIC WIRE ROPE HOISTS



## EXPLOSION-PROOF OPTION

The Yale Global King wire rope hoist is available with explosion-proof options featuring special enclosures, mc (metal clad) electrical cable and sealed fittings, intrinsically safe control stations and even Division 2 Hazardous Location motors if required.

Explosion-proof modifications are available on 5, 7½ and 10 metric ton Global King electric wire rope hoists with both underhung and top-running trolleys. These explosion-proof units are ideal for applications in Division 2, Class 1, Group B, C & D hazardous environments where flammable gases, vapors and liquids are present.

Upon request, the Yale Global King explosion-proof unit is available with a tagged Division 2 Hazardous Location motor, which surpasses OSHA requirements.



### 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.



### KEY FEATURES DESIGNED TO MEET DIVISION 2, CLASS 1, GROUP B, C & D REQUIREMENTS:

- 1 NEMA 7/9 RATED CONTROL ENCLOSURE**  
Hoist and trolley controls are housed in a NEMA 7/9 rated enclosure with hoist motor monitor, thermal overloads, over capacity limit switch and more. Two-speed control for smooth acceleration and precise load positioning.
  - 2 MC (METAL CLAD) ELECTRICAL CABLE & FITTINGS**  
Where required
  - 3 STANDARD MOTOR**  
Standard motor (not shown) is two-speed with a 4:1 ratio from high to low speed, giving a low speed for precise load handling and a high speed for fast throughput. Optional Divislon 2 Hazardous Location motor is shown in photo.
  - 4 INTRINSICALLY SAFE LIMIT SWITCHES**  
Standard upper/lower, geared control circuit hoist motion limit switch prevents lifting excessive overloads. Optional block operated upper control circuit limit switch is available.
- INTRINSICALLY SAFE CONTROL STATION**  
Available when required (not shown).

### 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 hook 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 & 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.

