



# Wire Rope Electric Hoists



AMERICA'S FIRST NAME IN INDUSTRIAL LIFTING

# Y80 Series Wire Rope Hoists

Yale® Y80 Series wire rope hoists are ideally suited for virtually any lifting application of up to five tons. Their modular design and versatility provide a wide range of capacities, lifts, hoisting speeds, and control options, making it possible to select the most efficient hoist for the job without wasted capacity or overkill.

The compact design and closer end approaches of the standard Y80 Series hoist allows an unusually high hook lift, as compared to many so-called low headroom hoists, without resorting to design compromises. Y80 Series hoists maximize hook coverage within an existing facility, reducing or eliminating the need for costly rebuilding or remodeling.

Y80 Series hoists are available in two basic models: single reeved and true vertical lift, with either air or electric power. The heavy-duty wire rope and drum-type hoist line has a steel mounting lug integral with the one-piece welded frame, and is designed for stationary mounting from an overhead structure, or with any of our monorail trolley options. Standard features of this rugged hoist line include a heavy welded steel frame, powerful drive motor, totally enclosed oil-bath lubricated drive train, and dual brake reliability.



Positive action mechanical load lowering control brake, also acts as a part of the hoist holding brake system

Deep grooved, large diameter rope drum helps prevent rope overwrap for longer wire rope life

Anti-friction bearings throughout for a long lasting hoist drive train

Easily accessible control enclosure facilitates maintenance

Triple reduction helical/spur gearing operates in oil-bath lube for maximum gearing life

D.C. disc motor brake for smooth braking action

Heavy welded steel frame ensures precise fit for long hoisting machinery life

Push-button cable with built-in strain reliever cable as used on single speed hoist applications. (All others use a separate steel strain reliever cable.)

Oil level plug permits easy inspection of oil level

High torque, heavy-duty hoist motor for smooth hoisting action

Alloy aluminum gear case and cover is lightweight yet rugged

Shrouded lower block to prevent pinched fingers

Block operated upper limit stop to limit upward hook travel

115 volts at push-button for operator safety

Improved plow steel pre-formed cable for max. strength and life

Convenient one-handed push-button control for easy operation of all motions

Full-swiveling, heat-treated forged steel hook with spring loaded latch

## Specifications

**Capacity Range:** 1/2 - 5 Tons

**Lift:** 20 - 60 Feet

**Lifting Speeds:** 8 - 48 FPM

**AC Current:** 208/230/460/575-3-60

**Control:** Single-speed,  
Two speed,  
Variable Frequency Control

**Suspension:** Lug, Push Trolley,  
Hand-Geared Trolley, and  
Motor-Driven Trolley



## Y80 Series Standard Features

\* Photos shown are for illustrative purposes only. The actual products may vary in color and design.



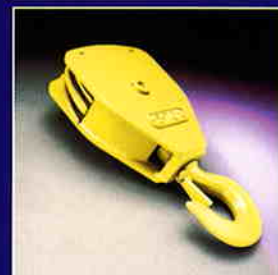
### Welded Steel Frame

One-piece welded frame, fabricated from rolled steel sections, precision machined for long life and accurate bearing and component alignment (Actual frame style may not be exactly as shown)



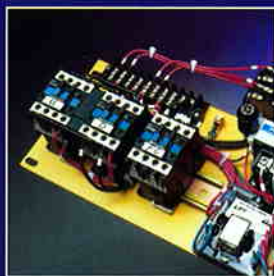
### Machined Rope Drum

Large diameter welded construction — deep grooved and precision machined to give maximum rope life. Pictured is a right and left hand deep grooved true vertical lift drum.



### Shrouded Lower Block

Helps prevent fingers from being pinched between rope and sheaves and prevents dirt build-up. All hooks are provided with spring loaded safety latches.



### Heavy Duty Controls

Designed for a clean, open layout to maximize performance and ease of maintenance. Contactors are oversized for increased life. Panels are housed in a dust resistant compartment designed for easy access and serviceability. (Actual hoist control may not be exactly as shown)



### Convenient Push Button Control

All motions can be controlled from a convenient, easy to operate push-button control station suspended from the hoist. An external strain reliever cable extends cable life and prevents pulling the control cable from the hoist electrical connection on four-button and larger stations.



### Precision Machined Gearing

For uniform tooth mesh and large contact surface. Operates in a totally enclosed oil-bath lubricated gear case. Gear trains consist of three reductions, helical and spur gearing.

## Y80 Series Optional Features



### Explosion Proof Hoists

In addition to normal operating conditions, all Yale® hoists may be customized for operation in hazardous locations. Yale® designs each hazardous location hoist to meet or exceed National Electrical Code standards.

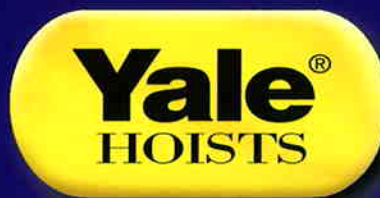
### Other Options:

- Radio Control
- Epoxy Paint
- Power Circuit Limit Switches
- Screw Type Limit Switches
- Patented Track Wheels
- Motor & Panel Heaters
- Magnet Applications
- NEMA 12, 3R, or 4 Control Enclosures
- Over Capacity Lift Protection
- Warning Lights/Horns



### Spark Resistant Features

Bronze and high bronze alloys incorporated in key components such as hooks, lower blocks and wheels, along with stainless steel wire rope, help prevent incidental sparking in hazardous locations.



For additional information contact your Yale® representative or Yale® headquarters direct.

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