

S E R I E S 8 0 0

SHAW-BOX 800 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 800 Series hoist allows an unusually high hook lift, as compared to many so-called low headroom hoists, without resorting to design compromises. 800 Series hoists maximize hook coverage within an existing facility, reducing or eliminating the need for costly rebuilding or remodeling.

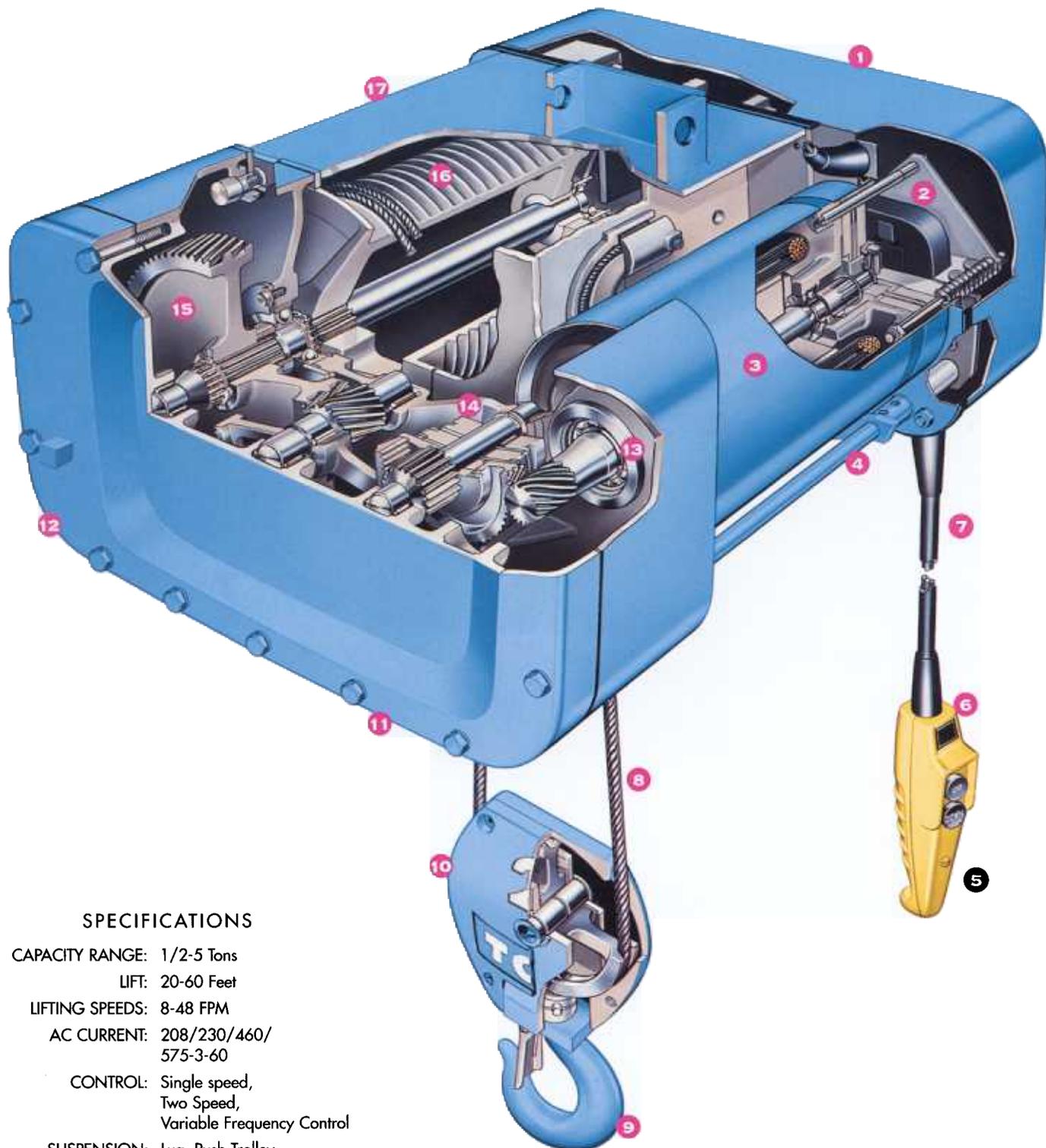
800 Series hoists are available in two basic models: single reeved and true vertical lift, with either air or electric power. The heavy-duty wire rope and drum-type hoist line has a steel mounting lug integral with the one-piece welded frame, and is designed for stationary mounting from an overhead structure, 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.

F E A T U R E S

- ➊ Easily accessible control enclosure facilitates maintenance
- ➋ D.C. disc motor brake for smooth braking action
- ➌ High torque, heavy-duty hoist motor for smooth hoisting action
- ➍ Block operated upper limit stop to limit upward hook travel
- ➎ Convenient one-handed push-button control for easy operation of all motions
- ➏ 115 volts at push button for operator safety
- ➐ 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.)
- ➑ Improved plow steel pre-formed cable for maximum strength and life
- ➒ Full-swiveling, heat-treated forged steel hook with spring loaded latch
- ➓ Shrouded lower block to help prevent pinched fingers
- ➔ Alloy aluminum gear case and cover is light-weight yet rugged
- ➕ Oil level plug permits easy inspection of oil level
- ➖ Anti-friction bearings throughout for a long lasting hoist drive train
- ➗ Positive action mechanical load lowering control brake, also acts as a part of the hoist holding brake system
- ➘ Triple reduction helical/spur gearing operates in oil bath lube for maximum gearing life
- ➙ Deep grooved, large diameter rope drum helps prevent rope overwrap for longer wire rope life
- ➚ Heavy welded steel frame ensures precise fit for long hoisting machinery life





SPECIFICATIONS

CAPACITY RANGE: 1/2-5 Tons

LIFT: 20-60 Feet

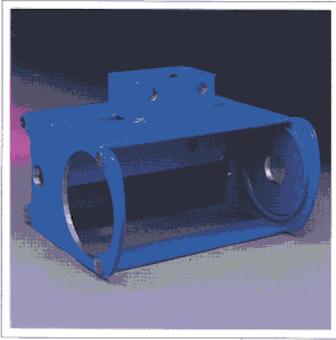
LIFTING SPEEDS: 8-48 FPM

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

SERIES 700/800 STANDARD FEATURES



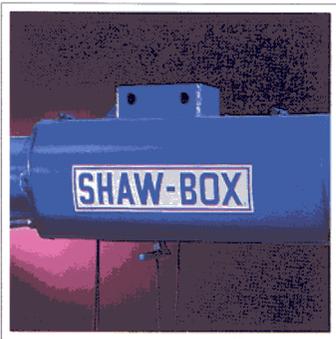
Welded Steel Frame

One-piece welded frame, fabricated from rolled steel sections, precision machined for long life and accurate bearing and component alignment. (700 Series frame illustrated)



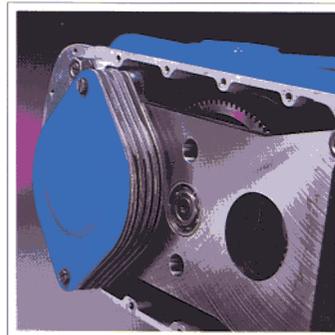
Automatic Load Brake

Weston self-adjusting type, operates in the oil bath of the hoist gear case for smooth lowering control. Capable of holding the load independent of the hoist motor brake. (700 Series load brake illustrated)



Lug Suspension

Permits the hoist to be mounted in a permanent location. (Mounting hardware not included)



Hoist Motor Brake

Short stroke, 150% torque spring-set D.C. rectified disc type brake provides quiet operation and long life. (700 Series multiple disc brake illustrated)



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 two or three reductions, using helical and/or spur gearing.



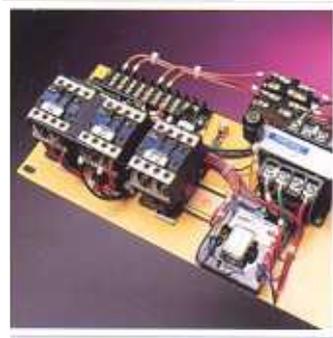
Machined Rope Drum

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



Dead End Rope Anchor

Used on single reeved hoists. Easily accessible and part of the one-piece welded frame, it securely anchors the rope compression thimble fitting which is swaged to the rope ends. True vertical lift hoists have both ends of the steel rope dead ended to the rope drum.



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. (700 Series hoist control illustrated)



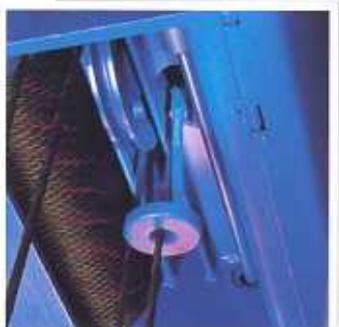
Shrouded Lower Block

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



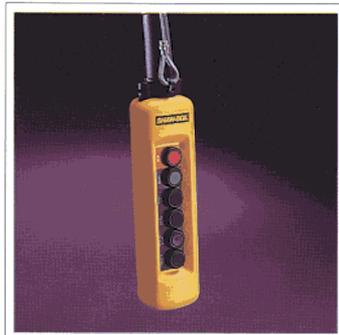
Hoist Motors

High starting torque type, designed specifically for hoisting, with permanently lubricated ball bearings. Motors are totally enclosed, non-ventilated (T.E.N.V.) with class F insulation, and provided with an automatic reset, temperature actuated switch in the windings to provide over current protection.



Block Operated Limit Switch

For additional protection of operator, hoist, and load. Positive acting, momentarily reverses the hoisting motion if lower block drifts too high. (700 Series block limit switch illustrated)



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.

SERIES 700/800 OPTIONAL FEATURES

Push Trolley Suspension

Push trolleys are used for mounting hoists on monorails or single girder crane bridges. Operator can quickly move loads by pushing on the load.



Deck Mounted Hoists

Used for applications that require a stationary hoist, or for construction of a top-running trolley.



Hand Geared Trolley Suspension

For moving loads where accurate spotting is essential or when operator should not touch the load.



Top Running Double Girder Trolleys

Provides a combination of lower headroom, higher hook lift, and closer end approaches. Maximizes hook coverage within existing facility, without costly remodeling or rebuilding.



Motor Driven Trolley Suspension

Used for moving loads quickly over long distances and where accurate load spotting is needed. Control push buttons can be suspended from hoist or crane bridge.



Air Operated Hoists

Air operation is available for all SHAW-BOX hoists where precise spotting or slow hoisting speeds are required, or where an electrically powered hoist may not be suitable. (Illustrated is an air-piston motor driven 700 Series hoist)





Explosion Proof Hoists

In addition to normal operating conditions, all SHAW-BOX hoists may be customized for operation in hazardous locations. Lift-Tech designs each hazardous location hoist to meet or exceed National Electrical Code standards. (800 Series explosion proof hoist illustrated)



Variable Frequency Control

Can be provided for any SHAW-BOX hoist or trolley motion where precise spotting or slow hoisting speeds are required. Available in two, three, or five step control, or two step infinitely variable.



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.



Weight Watcher Overload Control

A factory set mechanical overload clutch built into the hoist drive train prevents lifting excessive overloads. (700 Series overload clutch illustrated with the cover removed)



Special Application Motors

For special applications such as 60 minute rating, mill and chemical duty, and tropical proofing are available on many hoist models.

Other Options:

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