Hoists, Pullers & Hoist Parts

We are your one-source shopping center for hoisting products with lifting capacities ranging up to 100 tons. We offer many types of electric, air and manual hoists for limitless applications.

We are also one of the largest authorized stocking master parts depots for Columbus McKinnon (CM) Companies. We feature Budgit, Coffing, Acco / Wright, Yale, Shaw-Box and Harrington...just to name a few. Call our Parts Department for your hoist parts needs.
Hoists Index

Pullers & Lever Hoists
Short Handle Puller ............................................. 33
Series 653 Lever Hoist ........................................ 34
Series 640 Long Handle Puller .............................. 35
Series 602/603 Mini Ratchet Lever Hoist ............... 36
Cable Hoist ....................................................... 37
Series 300A Lineman’s Hoist ................................. 38
Series 344B Lineman’s Hoist ................................. 38
Small & Medium Frame Web Strap
Ratchet Winch Hoists ........................................ 39
Small & Medium Convertible
Lineman’s Hoists ............................................. 40
LSB-B Ratchet Lever Hoist .................................. 41
G-Series Ratchet Lever Hoist ............................. 42
LB Lever Hoists ................................................. 43
LX Lever Puller ................................................ 44

Hand Chain Hoists
Series 622 Hand Chain Hoist ............................ 45
Hurricane 360° Hand Chain Hoist ....................... 46
Cyclone Hand Chain Hoist .................................. 47
LHH Hand Chain Hoist ....................................... 48
CX Mini Hand Chain Hoist ................................. 49
CB Hand Chain Hoist ......................................... 50
CF Hand Chain Hoist ......................................... 51

Trolley Hoists
Low Headroom Trolley Hoist .......................... 52
Swivel Truck Low Headroom Trolley Hoist .......... 52

Electric Chain Hoists
ShopStar Electric Chain Hoist .......................... 53
Shophoist Electric Chain Hoist .......................... 54
Man Guard Electric Chain Hoist ....................... 55
Lodestar Electric Chain Hoist ......................... 56
Lodestar Electric Chain Hoist (VFD) ................. 57
Lodestar XL Electric Chain Hoist ...................... 58
RailStar Motor Driven Trolleys ......................... 59
Powerstar Motor Driven Trolleys ...................... 59
SLC Shop Hoist ................................................. 60
EMC Model Hoists .......................................... 61
JLC Hook & Lug
Suspension Model Hoists .............................. 62
EC Hook & Lug
Suspension Model Hoists .............................. 63
(N)ER 3-Phase Electric Chain Hoists ................ 64
SNER Single Phase Electric Chain Hoists ........ 65
(N)ER 3-Phase
Large Capacity Electric Chain Hoists ................ 66
Accolift Electric Chain Hoists—
Hook Suspension ...................................... 67

Air Hoists
ShopAir Electric Chain Hoist ....................... 68
AirStar Chain Hoist ...................................... 69

AirStar 6 Air Hoist .............................................. 70
Model CAH Large Frame Air Hoists—
Various Suspension .................................. 71
AH Mini-Cat Air Powered Hoists .................. 72
TCS Cheetah Air Powered Hoists .................. 73
JDN Air Hoists PROFI ................................ 74

Trolleys
CBT Plain & Geared Trolleys ....................... 75
Series 84A Plain / Geared Trolley ................. 76
Series 632 Close Radius Trolley ................... 77
Series 633 Wide Range Trolley .................... 78
CBT Plain & Geared Trolleys ....................... 79
CTA Plain & Geared Trolleys ....................... 80
VT-A Push Type Trolley ................................ 81
BC Beam Clamps .......................................... 81
PT Push Trolley & GT Geared Trolley .......... 82
Power Tractor Drive ...................................... 83

Wire Rope Hoists
700 Wire Rope Electric Hoist—
Deck-Mounted, Single-Reeved ..................... 84
700 Wire Rope Electric Hoist & Trolley—
Double-Reeved ....................................... 85
800 Wire Rope Hoist & Trolley—
Single-Reeved ....................................... 86
800 Wire Rope Hoist & Trolley—
Double-Reeved ....................................... 87
LodeKing High Capacity
Electric Wire Rope Hoist ................................ 88
Global King Monorail Hoist & Trolley ......... 89

Shaw-Box World Series™ Monorail Hoist .... 90
Electric Wire Rope Hoists .......................... 91
Spacemaster® Wire Rope Hoists ................. 92 - 93
RHN Series Electric Wire Rope Hoists .......... 94
Dynex Monorail Hoist ................................ 95
Built-Up Hoists .......................................... 96
Work-Rated Hoists ..................................... 97
Speedway Hoists ....................................... 97

Winches
Worm Gear, Portable Power &
Heavy-Duty Power Winches .................... 98 - 100
Engineering Information ......................... 101 - 102
Jeamar Winches ........................................ 103 - 107

Griphoist
Griphoist ........................................... 108 - 109

Hoist Repairs / Parts
Hoist Repairs ......................................... 110
Hoist Parts ............................................ 111

Warnings
Product Warnings .................................... 112 - 121

For the complete catalog index,
refer to the front of the book.
Short Handle Puller

3/4, 1-1/2 and 3 Ton Capacities with 5-Foot Standard Lift—Longer lifts are available.

The CM Short Handle Puller features the same heavy-duty design as the Puller in a smaller size for lighter loads and tighter spaces.

**Features and Benefits:**

- Easy one-hand operation
- Lever pull range is 45 to 62 pounds to lift full load
- Handle that rotates 360°, making it easy to operate in any position and in small spaces
- Tough yet lightweight aluminum construction and powder coat finish
- Hoistaloy hardened steel load chain for strength, long wear life and flexibility
- Free chaining for fast, easy attachment to load
- Forged upper and lower hooks with latches
- Simple construction with fewer parts for ease of maintenance
- Optional Load Limiter device protects against overload
- Lifetime warranty
- Made in U.S.A.

**Options:**

- Optional Load Limiter
- Optional Anchor Sling
- Optional Upper Latchlok Hook 3/4–1-1/2 Ton
- Optional Upper Latchlok Hook 3 Ton

---

**WARNING**

SEE WARNING INFORMATION ON PAGES 112 - 121.

---

**Product Type**

Lever Hoist

**Brand**

CM Hoist

**Capacity (tons)**

3/4, 1-1/2, 3

**Lift (feet)**

5, 10, 20, Less Chain

**Hoist Model**

Short Handle Puller

**Type**

Chain

**Headroom (inches)**

12-1/4, 14-3/4, 17-5/8

**Load Limiter Included**

Yes

**Lever Length (inches)**

12, 16.75

**Load Sentry Included**

No

Call your local Lifting Specialist for additional product specifications.

**NEED PULLER REPAIR OR PARTS?**

We do repairs in-house and stock a full line of parts.
Series 653 Lever Hoist

3/4, 1, 1-1/2, 2, 3 and 6 Ton Capacities with 5, 10, 15 and 20-Foot Standard Lifts—Longer lifts are available.

The CM Series 653 Lever Operated Hoist features a short handle and minimal lever pull effort combined with high-quality, rugged steel for close quarter pulling, stretching and hoisting applications.

Features and Benefits:

- Impact resistant, stamped steel frame, gear case and cover for durability and light weight.
- Powder coated finish for added corrosion protection.
- Hardened steel load sharing gears.
- Double pawl arrangement for assured load control.
- Two chain guide rollers for positive chain engagement.
- Weston type braking system for positive load control and positioning.
- Simple one-handed, free chaining for fast load attachment.
- Hardened steel chain for strength and long wear life.
- Forged upper and lower hooks with heavy cast steel latches.
- Rubber handle grip for added operator comfort.
- Minimal maintenance with no special tools required.
- 5-year warranty against defects in materials and workmanship.
- Metric rated.
- Meets ASME B30.21 - Manually Lever Operated Hoist
- Standard and European CE Standard.
- Designed and manufactured by Columbus McKinnon Corporation.

Shipyard hooks are available for use with the Series 653 in shipbuilding and metal fabrication industries. The upper shipyard hook replaces the standard hook and easily attaches to the body of the hoist. The lower hook is furnished with a chain block for direct attachment to the load of the hoist. Shipyard hooks are excellent for positioning steel plate and fixtures during welding applications.

These hooks are only available up to 3 tons.

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Lever Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>CM Hoist</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>3/4, 1, 1-1/2, 2, 3, 6</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>5, 10, 15, 20, Less Chain</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>653</td>
</tr>
<tr>
<td>Type</td>
<td>Chain</td>
</tr>
<tr>
<td>Headroom (inches)</td>
<td>12-5/8, 14-3/16, 14-13/16, 18-11/16, 23-1/4</td>
</tr>
<tr>
<td>Lever Length (inches)</td>
<td>11, 16.25</td>
</tr>
<tr>
<td>Load Sentry Included</td>
<td>No</td>
</tr>
</tbody>
</table>

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
Series 640
Long Handle Puller

3/4, 1-1/2, 3 and 6 Ton Capacities with 5-Foot Standard Lift—Longer lifts are available.

The CM 640 Long Handle Puller features a heavy-duty design for pulling, lifting, dragging and stretching construction and industrial applications.

Features and Benefits:

- Tough aluminum alloy construction and powder coat finish
- Weatherproof for outdoor service
- Simple construction with fewer parts for ease of maintenance and lower inventories
- Hoistaloy hardened steel link type load chain for strength, long wear life and flexibility
- Weatherized Weston-type automatic braking system for positive load control
- Easy, one-hand operation and control—only 58 pounds of pull required for 3/4 ton model capacity
- Forged upper and lower hooks with latches standard
- Free wheeling for fast and easy attachment to load
- Upper and lower Latchlok hooks available for all capacities
- Optional Load Limiter protection device stops transmission of lever forces protecting against dangerous overload
- Optional anchor sling simplifies attachment to allow anchor hook to swivel in tight space applications (3/4 & 1-1/2 ton units only)
- Optional Load Sentry warns of overload condition
- Optional zinc plated chain available
- Unlimited lift
- Metric rated
- Made in U.S.A.

Options:

- Optional Load Limiter
- Optional Anchor Sling
- 3/4 and 1-1/2 Ton
- Latchlok Type Hook

NEED PULLER REPAIR OR PARTS? We do repairs in-house and stock a full line of parts.
Series 602 / 603 Mini Ratchet Lever Hoist

550 (602 Series) and 1,100 (603 Series) Lb. Capacities with 5 and 10-Foot Standard Lifts

The CM Series 602 / 603 Mini Ratchet Lever Hoist features the most compact and comfortable ratchet lever hoist in the market. They perform just like the larger models.

Features and Benefits:

■ Plated load chain is standard.
■ Weston-type load brake.
■ Rubber hand grip for better comfort and security.
■ Lightweight design for ease of portability.
   Use in confined conditions with one-hand operation.
■ Forged upper and lower hooks with latches standard.
■ Impact resistant, all-steel frame, gear case and cover.
■ Hardened link-type alloy steel load chain for strength and long wear.
■ Free wheeling feature serves to quickly attach the load.
■ Metric rated.

Options:

Our compact Mini-Hoists perform just like the larger hoists, except they’re small enough to fit in the palm of your hand.

Convenient Carry Bag

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Lever Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>CM Hoist</td>
</tr>
<tr>
<td>Capacity (lbs.)</td>
<td>550 (602 Series), 1,100 (603 Series)</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>5, 10</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>602, 603</td>
</tr>
<tr>
<td>Type</td>
<td>Chain</td>
</tr>
<tr>
<td>Headroom (inches)</td>
<td>9-1/2 (602 Series), 11-1/8 (603 Series)</td>
</tr>
<tr>
<td>Lever Length (inches)</td>
<td>6.3 (602 Series), 6.375 (603 Series)</td>
</tr>
<tr>
<td>Load Sentry Included</td>
<td>No</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
Cable Hoist

Single Line:
1,000, 1,500 and 2,000 Lb. Capacities
with 17, 22, 23 and 40-Foot Standard Lifts

Double Line:
2,000, 3,000 and 4,000 Lb. Capacities
with 8-1/2, 9, 11 and 11-1/2-Foot Standard Lifts

Little Mule Cable Hoists provide high quality and
durability with a wide variety of rigging options. Cable
Hoists are designed for safety and have many features
that provide easy operation. Ideal for construction
and commercial applications.

Features and Benefits:

Engineered for Reliable Operation
- Handle Designed for Overload Protection—
  Handle bends to warn of hazardous condition and
  prevent dangerous overload.
- Hooks with Latches—360° swiveling hooks equipped
  with latches for positive load engagement.
- Positive Load Holding in All Environments—
  Double interlocking pawl mechanism assures one
  pawl is engaged at all times.
- Meets or exceeds minimum 4:1 design factor and
  all requirements of ASME / ANSI Standard B-30.21.
  All units tested at 125% of rated load.

Portable and Durable
- Lightweight and Rugged—Special cast aluminum
  and zinc alloy housings.
- Heavy-Duty Cable—Utilizes preformed and
  galvanized extra-flexible aircraft cable.
- Corrosion Resistant—All stainless steel springs
  and shafts.
- Reduced Wear—All rotating shafts are mounted
  on bronze bushings.

Easy to Operate
- Self-Storing Cable Drum—Provides compact operation.
- Easy Load Positioning—Utilizes a double pawl system
  with multiple pawl stops for precise load adjustment.
- Fast Cable Take-Up—Winding wheel provided for quick
  take-up or positioning of cable.
- Open Construction—Allows for easy cleaning and
  inspection.

Special Model Features
- 430CDPA equipped with oversized slip hooks—
  Ideal for opening and closing boxcar doors.
- Stainless Steel Cable Available—Suitable for
  marine environments.

Product Type: Lever Hoist
Brand: Little Mule
Capacity (tons): 1/2, 3/4, 1 (Single Line),
1-1/2, 1-3/4, 2 (Double Line)
Lift (feet): 17, 22, 23, 40
Hoist Model: Cable Ratchet, Cable Hoist
Type: Wire, Cable
Headroom (inches): 20
Load Sentry Included: No

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a
full line of parts.
Series 300A
Lineman's Hoist
1,500 and 3,000 Lb. Capacities with 9-1/4 and 4-1/4-Foot Standard Lifts

Little Mule Model 300A Lineman's Hoist is a lightweight and rugged strap puller.

Features and Benefits:
Includes Hot Stick-Type Gate Latch on All Hooks, as well as Hot Stick Rings on All Hooks, Control Surfaces and Quick Disconnect Shaft. Overload Protection handle bends to warn of hazardous condition and prevents dangerous overload. 360° swiveling hooks equipped with latches for positive load engagement. Positive load holding in all environments. Double, interlocking pawl mechanism assures one pawl is engaged at all times. Lightweight & Rugged cast aluminum and zinc alloy housings. Corrosion Resistant stainless steel springs and shafts. Reduced Wear through rotating shafts are mounted on bronze bushings. Meets or Exceeds minimum 4:1 design factor and all requirements of ASME / ANSI Standard B-30.21. All units tested at 125% of rated load.

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Lever Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Little Mule</td>
</tr>
<tr>
<td>Capacity (lbs.)</td>
<td>1,500 and 3,000</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>9-1/4 and 4-1/4</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>300A</td>
</tr>
<tr>
<td>Type</td>
<td>Strap</td>
</tr>
<tr>
<td>Headroom (in.)</td>
<td>18</td>
</tr>
<tr>
<td>Lever Length (in.)</td>
<td>20</td>
</tr>
<tr>
<td>Load Sentry Included</td>
<td>No</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

Series 344B
Lineman's Hoist
2,000 and 4,000 Lb. Capacities with 11 and 5-1/2-Foot Standard Lifts

Little Mule Model 344B Lineman's Hoist is a lightweight and rugged strap puller.

Features and Benefits:
Includes Hot Stick-Type Gate Latch on All Hooks, as well as Hot Stick Rings on All Hooks and Control Surfaces. Overload Protection handle tip bends to warn of hazardous overload. Handle tip replacement is easy and simple. Enhanced Reversing Mechanism innovative design reduces the handle effort needed to release or lower a load. Double interlocking pawls assures positive load holding in all environments. Compact Aluminum Alloy Frame features a double flanged strap drum and interrogated hook point for double line use. All stainless steel springs and shafts are corrosion resistant. All rotating shafts are mounted on bronze bushings for reduced wear. 360° swiveling hooks can be equipped with a wide range of latch options. Meets or Exceeds minimum 4:1 design factor and all requirements of ASME / ANSI Standard B-30.21. All units tested at 125% of rated load.

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Lever Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Little Mule</td>
</tr>
<tr>
<td>Capacity (lbs.)</td>
<td>2,000 and 4,000</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>11 and 5-1/2</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>344B</td>
</tr>
<tr>
<td>Type</td>
<td>Strap</td>
</tr>
<tr>
<td>Headroom (in.)</td>
<td>20, 22, 23</td>
</tr>
<tr>
<td>Lever Length (in.)</td>
<td>30</td>
</tr>
<tr>
<td>Load Sentry Included</td>
<td>No</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
Small Frame Web Strap Ratchet Winch Hoists

1/2 to 3/4 Ton Capacities (Single Line)  
1 to 1-1/2 Ton Capacities (Double Line)

LUG-ALL® small frame web strap hoists are lightweight and one-hand portability makes them easy to use in almost any position. LUG-ALL small frame web strap hoists make it easier to work with live wires.

These compact LUG-ALL® lineman’s hoists are perfect for tight spots and have all the features of our medium frame hoists.

Medium Frame Web Strap Ratchet Winch Hoists

3/4 to 1 Ton Capacities (Single Line)  
1-1/2 to 2 Ton Capacities (Double Line)

LUG-ALL® medium frame web strap hoists are lightweight and provide extra pull strength for linemen. They come with longer handles to make big line pulls easy.

Like all LUG-ALL web strap pullers, these tools are beautifully crafted to deliver easy, precise pulling performance on energized power lines.

Convertible model web strap hoists quickly change from a single line to a double line rigged capacity without the worry of misplaced parts. They also have a durable and lightweight frame construction—as little as 10 pounds!

WARNING
SEE WARNING INFORMATION ON PAGES 112 - 121.

PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Web Strap Ratchet Winch Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>LUG-ALL</td>
</tr>
<tr>
<td>Capacity—Single Line (tons)</td>
<td>1/2 to 3/4</td>
</tr>
<tr>
<td>Single Pull Distance Min.</td>
<td>16&quot;, 18&quot;</td>
</tr>
<tr>
<td>Single Pull Distance Max.</td>
<td>7&quot;, 8&quot;, 9&quot;, 9-6&quot;</td>
</tr>
<tr>
<td>Capacity—Double Line (tons)</td>
<td>1 to 1-1/2</td>
</tr>
<tr>
<td>Double Pull Distance Min.</td>
<td>21&quot;, 24&quot;</td>
</tr>
<tr>
<td>Double Pull Distance Max.</td>
<td>3-4&quot;, 3-5&quot;, 4&quot;, 4-5&quot;</td>
</tr>
<tr>
<td>Strap Length (feet)</td>
<td>8, 10</td>
</tr>
<tr>
<td>Handle Length (in.)</td>
<td>20, 22, 30, 32</td>
</tr>
<tr>
<td>Net Weight (lbs.)</td>
<td>10.25, 10.5, 10.75, 11</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?  
We do repairs in-house and stock a full line of parts.
**Small Convertible Lineman’s Hoists**

3/4 Ton Capacity (Single Line)
1-1/2 Ton Capacity (Double Line)

Compact and convertible strap hoists. All the parts to switch from double line to single line are on the hoist. No more misplacing of parts.

**Medium Convertible Lineman’s Hoists**

3/4 to 1 Ton Capacities (Single Line)
1-1/2 to 2 Ton Capacities (Double Line)

Lighter in weight and with more headroom than our standard medium frame models, LUG-ALL® convertible lineman’s hoists are also a snap to switch from double line to single. All the parts are on the hoist. No more searching for lost or misplaced parts.

All LUG-ALL Lineman’s Hoists meet the current (2005) ANSI / ASME B30.21-2005 standard for “manually lever operated hoists.”

---

### Product Specifications

**Product Type**: Web Strap Ratchet Winch Hoist

**Brand**: LUG-ALL

<table>
<thead>
<tr>
<th>Capacity—Single Line (tons)</th>
<th>3/4 to 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Pull Distance Min.</td>
<td>20&quot;, 21&quot;, 22&quot;, 23&quot;</td>
</tr>
<tr>
<td>Single Pull Distance Max.</td>
<td>7'-2&quot;, 9'-2&quot;, 11' 1&quot;</td>
</tr>
<tr>
<td>Capacity—Double Line (tons)</td>
<td>1-1/2 to 2</td>
</tr>
<tr>
<td>Double Pull Distance Min.</td>
<td>18&quot;, 20&quot;, 21&quot;, 23&quot;</td>
</tr>
<tr>
<td>Double Pull Distance Max.</td>
<td>3'-5&quot;, 3'-6&quot;, 4'-4&quot;, 4'-5&quot;, 5'-3&quot;, 5'-4&quot;</td>
</tr>
<tr>
<td>Strap Length (feet)</td>
<td>8', 10', 11' 5&quot;</td>
</tr>
<tr>
<td>Handle Length (in.)</td>
<td>30, 32, 36, 38</td>
</tr>
<tr>
<td>Net Weight (lbs.)</td>
<td>9.5, 9.75, 10, 10.25, 13.25, 13.5, 13.75, 14, 14.5, 14.75, 15</td>
</tr>
</tbody>
</table>

**Call your local Lifting Specialist for additional product specifications.**

**NEED HOIST REPAIR OR PARTS?**

We do repairs in-house and stock a full line of parts.
LSB-B
Ratchet Lever Hoist

3/4, 1-1/2, 3 and 6 Ton Capacities
with 5, 10, 15 and 20-Foot Standard Lifts—
Other lifts are available.

Coffing LSB-B Ratchet Lever Hoists are available with optional Load Limiters. Also, featuring through-hardened load chain, these stamped steel-ratchet lever hoists are lightweight, durable and ideal for construction and commercial applications. All LSB-B hoists are metric rated.

Features and Benefits:

- Optional load limiter alerts operator of a possible overload by allowing the handle to rotate without lifting the higher-than capacity load. The load limiter can be field-installed.
- Impact resistant, stamped steel housing withstands rigorous use. Compact design is portable and easy to rig.
- Double reduction gearing and short, cushioned-grip handle provide easy operation with minimal handle effort.
- 360° rotating handle provides versatile rigging options when used in confined spaces.
- State-of-the-art free-wheeling mechanism allows quick and easy one-handed take-up and positioning of slack chain.
- Enclosed screw-and-disc type load brake stays clean and dry for positive load positioning. Latches on hooks provide positive load engagement.
- Options—Shipyard hook available for 1-1/2 ton and 3 ton models
- Lifetime warranty.

WARNING
SEE WARNING INFORMATION ON PAGES 112 - 121.

Coffing
Ratchet Lever Hoists

Product Type
Lever Hoist

Brand
Coffing

Capacity (tons)
3/4, 1-1/2, 3, 6

Lift (feet)
5, 10, 15, 20

Hoist Model
LSB-B

Type
Chain

Headroom (inches)
11-7/16, 13, 16-15/16, 22-3/4

Lever Length (inches)
9.25, 14.5625

Load Sentry Included
No

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
G-Series
Ratchet Lever Hoist
3/4, 1-1/2, 3, 4-1/2, 6, 9, 11, 13 and
15 Ton Capacities with 53, 56-1/2, 57 and
60-Inch Lifts

Coffing G-Series Ratchet Lever Hoists feature a malleable
iron roller chain ratchet lever, and are efficient and durable. 
Roller chain can be spliced to create longer lifts and can
handle higher capacities than coil chain. G-Series hoists
are ideal for utility transmission and distribution work.

Features and Benefits:

■ Unit and handle made from malleable iron.
Riveted construction makes the unit tamper-resistant.
■ Free chaining mechanism allows quick and easy
take-up and positioning of slack chain. Hoist will not
free chain when under load.
■ Handle stops prevent handle from spinning if it is
accidently released by the operator.
■ Single or double locking pawl design.
■ Hoist can lift, pull or bind. Can be operated from
either side and will work in any position with
equal efficiency.
■ Allows operator to convert unit to next smaller
capacity to give longer lift and faster operation. Snap
hook acts as an end stop and will not pass through
chain sprocket.
■ Options—Bullard® hooks, bronze hooks and
zinc plated hooks.
■ Lifetime warranty

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Lever Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Coffing</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>3/4, 1-1/2, 3, 4-1/2, 6, 9, 11, 13, 15</td>
</tr>
<tr>
<td>Lift (inches)</td>
<td>51, 53, 56-1/2, 57, 60</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>G-Series</td>
</tr>
<tr>
<td>Type</td>
<td>Chain</td>
</tr>
<tr>
<td>Headroom (inches)</td>
<td>13, 15, 16, 17-5/8, 25, 30</td>
</tr>
<tr>
<td>Lever Length (inches)</td>
<td>18.75, 27.625, 33.625</td>
</tr>
<tr>
<td>Load Sentry Included</td>
<td>No</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional
product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a
full line of parts.
LB Lever Hoists

3/4, 1, 1-1/2, 2, 2-3/4, 3, 6 and 9 Ton Capacities with 5-Foot Standard Lift—10, 15 and 20-Foot lifts are also stocked. Nonstandard lifts are available.

The LB Series of lever hoists offers a low headroom, compact design that is perfect for use in tight quarters. Regarded as the best lever hoist in the industry, the LB is recommended for use in heavy-duty construction work, mining, manufacturing, shipbuilding and day-to-day maintenance and repair.

Features and Benefits:

- Rugged, all-steel construction that actually weighs less than comparable aluminum models.
- Get positive braking action with Weston-style load brake incorporating two moisture-resistant brake pads with four braking surfaces. Includes two brake pawls for additional reliability.
- Enjoy protection against dirt and moisture with a totally enclosed brake mechanism.
- Ensure long life with machined, heat-treated, split-load, double-reduction gears.
- Operate in close quarters with short steel handle and 15-degree recovery strokes.
- Patented spring-loaded freewheel mechanism permits easy adjustment of the load chain and safeguards against accidental freewheeling under load.
- Equipped with standard rubber grip for non-slip operation.

Capabilities:

- Grade 100 heat-treated load chain is nickel plated for corrosion resistance.
- Forged and heat-treated alloy steel hooks open slowly without fracturing under excessive loads. Top and bottom hooks rotate 360°.
- Test certificate verifies that every hoist has been factory load tested to 125% of rated capacity, in accordance with ASME B30.21 requirements.

Options:

- Load limit warning handle
- Top hook extender
- Point load hook
- Slip clutch
- Inspection hook
- Bullard® and Shur-Loc® hooks

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Lever Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Harrington</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>3/4, 1, 1-1/2, 2, 2-3/4, 3, 6, 9</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>5</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>LB</td>
</tr>
<tr>
<td>Headroom (inches)</td>
<td>11, 11.8, 13.2, 14.8, 15.6, 21.3, 26.8</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.
LX Lever Puller

1/4 and 1/2 Ton Capacities with 5-Foot Standard Lift—Longer lifts are available.

Harrington’s LX mini puller is lightweight, compact and built to perform. It fits conveniently in a toolbox and will easily handle pulling and moving jobs in many applications including transportation, construction and plumbing. Available in two capacities to fit all applications. The 1/2 Ton capacity is unique to the industry.

Features and Benefits:

■ Durable die-cast aluminum body with steel frame is compact and lightweight.
■ Very low headroom design for use in tight spaces.
■ Free-chain mechanism allows for quick adjustments.
■ Extremely low pulling force is required for operation.
■ Weston-style brake is totally enclosed to protect against dirt, dust and rain.
■ Load chain guide mechanism permits smooth and quiet guiding of chain.
■ Rubber handle grip for ease of use.
■ Effortless to transport, install and store.

Capabilities:

■ Grade 100, nickel-plated load chain is corrosion and wear resistant.
■ Strong hook latches include notched tip.
■ Sold individually or in convenient multi-packs—1/4 Ton in 6-packs and 1/2 Ton in 4-packs.
■ Test certificate verifies that every hoist has been factory load tested to 125% of rated capacity, in accordance with ASME B30.21 requirements.

Options:

■ Heavy-duty carrying case

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Lever Puller</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brand</strong></td>
<td>Harrington</td>
</tr>
<tr>
<td><strong>Capacity (tons)</strong></td>
<td>1/4, 1/2</td>
</tr>
<tr>
<td><strong>Lift (feet)</strong></td>
<td>5</td>
</tr>
<tr>
<td><strong>Hoist Model</strong></td>
<td>LX</td>
</tr>
<tr>
<td><strong>Headroom (inches)</strong></td>
<td>8.1, 9.7</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
Series 622
Hand Chain Hoist

1/2, 1, 2, 3 and 5 Ton Capacities with 10, 15, 20 and 30-Foot Standard Lifts

The CM Series 622 Hand Chain Hoist features a simple, efficient and economical design for easy installation and use.

Features and Benefits:

- Simple, efficient, economical design
- Equipped with hardened load chain for flexibility and long wear
- Compact design, low headroom and lightweight steel construction for easy installation, even in confined spaces
- Weston-type load brake requires no lubrication
- Hand wheel cover with guide slots minimizes jamming and slipping
- Forged swivel hooks with latches reduce twisting of chain and unintentional unhooking of load when chain is slack
- Standard hand chain drop is 2 feet less than lift (example: 8 foot lift hoist has 6 foot hand chain drop)
- One-year warranty
- Metric rated
- Imported

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Hand Chain Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>CM Hoist</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1/2, 1, 2, 3, 5</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>10, 15, 20, 30</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>622</td>
</tr>
<tr>
<td>Headroom (inches)</td>
<td>11-5/8, 13, 18-1/8, 21-29/32, 23-7/8</td>
</tr>
<tr>
<td>Lever Length (inches)</td>
<td>16.625, 20.75, 25.25, 21.25</td>
</tr>
<tr>
<td>Spark-Resistant</td>
<td>No</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Hook</td>
</tr>
<tr>
<td>Product Group</td>
<td>Manual Hoists</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

WEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.

J Henry Holland
Phone: 757-460-3300
www.jhenryholland.com

Alabama Sling Center
Phone: 205-744-0230
www.alabamaslingcenter.com

Tennessee Sling Center
Phone: 901-345-8918 (Memphis)
Phone: 423-634-9005 (Chattanooga)
www.tennesseeslingcenter.com

KCI Crane Service
Phone: 205-345-4701
www.kcicraneservice.com

WARNING
SEE WARNING INFORMATION ON PAGES 112 - 121.

Load Securement
Hurricane 360°
Hand Chain Hoist

1/2, 1, 2, 3, 5 and 10 Ton Capacities with 10, 15, 20 and 30-Foot Standard Lifts

For the ultimate flexibility in a hand chain hoist, the CM Hurricane 360° is the choice for a wide range of applications. The patented hand chain cover rotates a full 360 degrees to allow loads to be lifted, pulled or positioned from virtually any angle.

In addition to providing maximum versatility, this unit offers a convenient way to maneuver loads without standing under the load. The Hurricane 360° allows workers to view hand chain hoists in a whole new light and provides a tool for addressing unique jobs in a broad range of environments.

TRUSTED RELIABILITY
- Braking power of our Weston-Style Braking System, which provides positive load control and reliable performance.
- Minimal maintenance and easily disassembled with no special tools.

SAFETY
- Standard Load Limiter for simple, automatic overload protection.

BUILT TO LAST
- All internal gears and pinions are heat-treated steel for high strength and long life.
- Precision 4-Pocket Liftwheel and Chain Guide provides better chain fit and alignment which reduces wear and increases chain life.

RUGGED TOUGHNESS
- Powder Coated Finish for corrosion protection.
- Alloy hardened Steel Load Chain assures high strength and long wear life.
- Meets ASME B30.16 and European CE Standard.
- 5-Year Warranty.

Product Type
Hand Chain Hoist

Brand
CM Hoist

Capacity (tons)
1/2, 1, 2, 3, 5, 10

Lift (feet)
10, 15, 20, 30

Hoist Model
Hurricane

Headroom (inches)
11-13/16, 14, 15-9/16, 20-1/2, 25-3/16, 32-1/2

Load Limiter Included
Yes

Spark-Resistant
No

Mounting Type
Hook

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
Cyclone Hand Chain Hoist

1/4, 1/2, 1, 1-1/2, 2, 3, 4, 5, 6, 8 and 10 Ton Capacities with 8-Foot Standard Lift—Longer Lifts are Available.

The CM Cyclone Hand Chain Hoist features superior engineering, efficiency and durability, and is considered one of the most popular hand chain hoists ever designed.

Features and Benefits:

- Most interchangeability of parts in the industry
- Standard Load Limiter for simple, automatic overload protection
- Enclosed contoured Weston-type automatic brake for positive load control
- High-efficiency spur gearing for greater lift with minimum effort
- Rugged Hoistaloy chain for added strength and durability
- Fully machined, forged liftwheel pockets for easier lifting and smooth free chaining
- High-strength aluminum alloy castings in frame and covers
- Inspected over 75 times to meet or exceed HMI and ASME / ANSI performance and safety standards
- Standard hand chain drop is 2 feet less than lift, (example: 8 foot lift hoist has 6 foot hand chain drop)
- Lifetime warranty
- Metric rated
- Made in U.S.A.

Options:

- Fabric chain bags
- Metal chain containers
- Zinc plated load and hand chain
- Unwelded hand chain
- Latchlok hooks
- Bronze hooks
- Bullard hooks
- Eye-type suspension

Product Type | Hand Chain Hoist
Brand | CM Hoist
Capacity (tons) | 1/4, 1/2, 1, 1-1/2, 2, 3, 4, 5, 6, 8, 10
Lift (feet) | 10, 15, 20, Less Chain
Hoist Model | Cyclone
Headroom (inches) | 12-7/8, 14, 17-5/16, 21-1/2, 24-1/4, 25-1/4, 34-1/2, 35-1/2
Spark-Resistant | Optional
Mounting Type | Hook, Army Type & Low Headroom Trolley Mount

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.

J Henry Holland
Phone: 757-460-3300
www.jhenryholland.com
Alabama Sling Center
Phone: 205-744-0230
www.alabamaslingcenter.com
Tennessee Sling Center
Phone: 901-345-4701
www.kcicraneservice.com
KCI Crane Service
Phone: 911-345-8918 (Memphis)
Phone: 423-634-9005 (Chattanooga)
www.tennesseeslingcenter.com
LHH
Hand Chain Hoist

1/2, 1, 1-1/2, 2, 3, 5, 8, 10, 12, 15 and 20 Ton Capacities with 10, 15 and 20-Foot Standard Lifts

Coffing LHH Hand Chain Hoists feature stamped steel and are an excellent low cost option in the Coffing line. The compact, lightweight design is ideal for construction and contractor applications where portability and easy rigging are critical.

Features and Benefits:

■ Rated capacities from 1/2 to 20 Tons are in stock.
■ Standard lifts are 10, 15 and 20 feet. Standard hand chain drop is 2 feet less than lift. Other lifts, hand chain drops and 25 to 50 ton models available.
■ Designed for portability and easy installation. Compact gear housing provides low headroom.
■ Lubricated bearings and bushings, bearing-mounted pinions and heat-treated spur gearing ensure smooth and efficient operation with minimal effort.
■ Mechanical load brake engages instantly for precise load holding and positioning. 360° swivel hooks with safety latches for positive load engagement.
■ Durable through hardened load chain providing added strength and wear resistance for greater chain life. Stamped steel housing withstands rugged conditions.
■ Designed for easy inspection and maintenance. Hoist can be dismantled easily with simple hand tools.
■ Metric Rated
■ Lifetime Warranty

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Hand Chain Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Coffing</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1/2, 1, 1-1/2, 2, 3, 5, 8, 10, 12, 15, 20</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>10, 15, 20</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>LHH</td>
</tr>
<tr>
<td>Type</td>
<td>Chain</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Hook</td>
</tr>
</tbody>
</table>

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
CX Mini
Hand Chain Hoist

1/4 Ton Capacity with 10 and 20-Foot Standard Lifts

Harrington’s CX mini hand chain hoist is the world’s smallest industrial hoist. This uniquely compact and lightweight hoist is the perfect choice for jobs with light loads in high or difficult-to-reach places, such as duct installation, plumbing and heating, home automobile maintenance and crane repair.

Features and Benefits:

- Unique design is extremely compact and lightweight
- Aluminum body with steel frame provides superior strength.
- Load limiter prevents the hoist from being used to lift damaging loads beyond rated capacity.
- Very low force is required to lift load.
- Metal chain guide allows smooth operation.
- Effortless to transport, install and store.

Capabilities:

- Grade 100, nickel-plated load chain is corrosion and wear resistant.
- Durable stainless steel hand chain.
- Strong hook latches include safety tip.
- Sold individually or in convenient 4-packs.
- Test certificate verifies that every hoist has been factory load tested to 125% of rated capacity, in accordance with ASME B30.16 requirements.

### Properties

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Hand Chain Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Harrington</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1/4</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>10, 20</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>CX</td>
</tr>
<tr>
<td>Headroom (inches)</td>
<td>8.5</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
CB Hand Chain Hoist

1/2, 1, 1-1/2, 2, 2-1/2, 3, 5, 8, 10, 15, 20, 30, 40, 50, 80 and 100 Ton Capacities with 8 and 12-Foot Standard Lifts

Harrington CB hand chain hoists combine a rugged exterior shell with machined interior components to handle your most demanding lifting operations. An efficient drive train minimizes manual effort, while double enclosed brake cover, standard slip clutch and double pawl springs enhance performance and reliability.

Features and Benefits:

- Experience exceptional durability thanks to all-steel construction featuring rugged gear case enclosure and handwheel cover.
- Enjoy increased lifting height thanks to low headroom.
- Compact design results in lightweight and easy portability.
- Minimize manual effort thanks to efficient drive train.
- Standard slip clutch device prevents the hoist from being used to lift damaging loads beyond rated capacity.
- Double pawl springs provide redundancy for reliable operation of brake mechanism.
- Get reliable braking with double enclosed brake cover that keeps out dust, rain and dirt.

Capabilities:

- 8-foot standard lift (12-foot for 10 Ton and greater), nonstandard lifts and hand chain drops are also available.
- Grade 100 heat-treated manganese alloy load chain resists abrasion and wear while minimizing chain weight.
- Forged and heat-treated alloy steel hooks are designed to open slowly without fracturing under excessive loads.
- Test certificate verifies that every hoist has been factory load tested to 125% of rated capacity, in accordance with ASME B30.16 requirements.

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Hand Chain Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Harrington</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1/2, 1, 1-1/2, 2, 2-1/2, 3, 5, 8, 10, 15, 20, 30, 40, 50, 80, 100</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>8, 12</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>CB</td>
</tr>
<tr>
<td>Headroom (inches)</td>
<td>11.2, 11.6, 13.8, 14.8, 16.5, 20.1, 23.6, 30.3, 29.9, 40.2, 46.5, 51.2, 58.3, 61.4, 100.8, 125.2</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS? We do repairs in-house and stock a full line of parts.
CF Hand Chain Hoist

1/2, 1, 1-1/2, 2, 3 and 5 Ton Capacities with 10-Foot Standard Lift

Harrington CF hand chain hoists give you a practical alternative thanks to an economical design using fewer parts for trouble-free service. Outstanding durability is due to a die-cast aluminum body and high-strength, heat-treated main pinion shaft and load gear. Pre-lubricated ball bearings, precision machined gears and Weston-style load brake make lifting smooth and easy, while allowing long service and low maintenance.

Features and Benefits:

- Experience exceptional strength with a thick die-cast aluminum body.
- Handle tough demands with high-strength, heat-treated main pinion shaft and load gear.
- Get positive braking action with Weston-style load brake incorporating two moisture-resistant brake pads with four braking surfaces.
- Minimize manual effort thanks to smooth running, pre-lubricated ball bearings and precision machined drive train components.
- Simplify maintenance with fewer parts and an easy-to-work-on design.

Capabilities:

- 10-foot lift is standard, 15 and 20-foot lifts are also stocked; nonstandard lifts and hand chain drops are available as well.
- Grade 100 heat-treated manganese alloy load chain resists abrasion and wear while minimizing chain weight.
- Forged and heat-treated alloy steel hooks are designed to open slowly and not fracture under excessive loads.
- Test certificate verifies that every hoist has been factory load tested to 125% of rated capacity, in accordance with ASME B30.16 requirements.

Options:

- Chain container
- Corrosion-resistant chain
- Inspection hook

Product Type | Hand Chain Hoist
Brand | Harrington
Capacity (tons) | 1/2, 1, 1-1/2, 2, 3, 5
Lift (feet) | 10
Hoist Model | CF
Headroom (inches) | 12.8, 14.6, 17.3, 20.1, 23.2, 24.4

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
Low Headroom Trolley Hoist

1-1/2, 2, 3, 4, 5, 6, 8, 10, 12, 16, 20 and 24 Short Ton Capacities with 8-Foot Standard Lift.

The Chester Zephyr Low Headroom Chain Hoist is designed for very limited head room applications, where other hoists cannot be used. The Low Headroom Hoist is custom built to fit a specific beam and can be built to suite patented tracks, I-Beams, Wide Flange beams or almost any other type of runway. The hoist incorporates a rugged steel frame, suspension members and covers and uses the heavy-duty components common to the Zephyr Hoist product line. Features include a planetary gear train, positive acting Weston Style load brake, alloy steel load chain and a load wheel, which can be reversed to double its useful life.

The design of the Zephyr Low headroom hoist makes it ideal for customization to meet the specific requirements of most applications. Options include load limiters, chain containers, track clamps and spark and corrosion resistant features.

Swivel Truck Low Headroom Trolley Hoist

1/4, 1/2, 1, 1-1/2, 2, 3, 4, 5 and 6 Ton Capacities with 8-Foot Standard Lift.

The Zephyr Swivel Truck Low Headroom Trolley Hoist maintains the absolute minimum distance between the bottom of the runway beam and the hook saddle in the uppermost position. They are available in 1/4 through 6 ton capacities with either plain or hand geared trolleys. These hoists combine the advantages of the Chester swivel truck trolley design with compact construction without sacrificing any essentials of ruggedness. These units incorporate the same heavy-duty steel components common to the Zephyr Hoist product line.

The Zephyr Swivel Truck Low Headroom Hoist can traverse tight curves without binding or scraping. Due to the hoists compact design, runways can be built closer to walls or projections. The extreme low headroom feature can be employed in existing structures or in new construction where cost savings can be realized due to lower ceiling height requirements.

WARNING
SEE WARNING INFORMATION ON PAGES 112 - 121.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
## ShopStar Electric Chain Hoist

**250, 300, 500, 600 and 1000 Lb. Capacities with 10-Foot Standard Lift— Longer lifts are available.**

The CM ShopStar Electric Chain Hoist features a streamlined assembly and high H4 duty cycle, capable of lifting up to 1,000 pounds and 300 motor starts per hour.

### Features and Benefits:

- H4 duty cycle (300 motor starts / hour)
- Easy installation and maintenance
- Standard protector overload device
- 10 pocket oblique lay lifewheel provides longer chain wear
- Epoxy powder coat finish
- 6-1/2 ft. power cord with molded 3-prong plug on 115 volt units
- NEMA 4 industrial rated control station
- Optional impact-resistant chain container available
- Gear train lifetime lubricated with non-oxidizing grease
- CM Hoist Alloy Load Chain (zinc plated optional)
- Thermally protected hoist duty motor
- Dual braking system - D.C. plus regenerative
- Rugged cast aluminum alloy hoist frame
- 5:1 design factor
- Small, compact design for commercial and industrial applications
- Rigid hook suspension prevents tangling of power cord
- Hardened forged steel latch style lower hook rotates 360°
- Totally enclosed non-ventilated hoist frame protects motor from environmental contamination
- True vertical lift
- Precision bearings used throughout hoist
- Lifetime warranty
- Made in U.S.A.

### Product Specifications:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Type</td>
<td>Electric Chain Hoist</td>
</tr>
<tr>
<td>Brand</td>
<td>CM Hoist</td>
</tr>
<tr>
<td>Capacity (lbs.)</td>
<td>250, 300, 500, 600, 1000</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>10, 15, 20</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>ShopStar</td>
</tr>
<tr>
<td>Lifting Speed (ft/min)</td>
<td>6, 8, 12, 16, 20, 24, 40</td>
</tr>
<tr>
<td>Headroom (inches)</td>
<td>11-1/16, 11-15/16</td>
</tr>
<tr>
<td>Power Supply</td>
<td>115-1-60, 230-3-60, 460-3-60, 575-3-60</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>H4</td>
</tr>
<tr>
<td>Control Type</td>
<td>1-Speed</td>
</tr>
<tr>
<td>Limit Switches</td>
<td>Not Available</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Hook</td>
</tr>
</tbody>
</table>

**NEED HOIST REPAIR OR PARTS?**

We do repairs in-house and stock a full line of parts.

---

**J Henry Holland**
Phone: 757-460-3300  
www.jhenryholland.com

**Alabama Sling Center**
Phone: 205-744-0230  
www.alabamaslingcenter.com

**Tennessee Sling Center**
Phone: 901-345-8918 (Memphis)  
Phone: 423-634-9005 (Chattanooga)  
www.tennesseeslingcenter.com

**KCI Crane Service**
Phone: 205-345-4701  
www.kcicraneservice.com
Shophoist Electric Chain Hoist
250, 300, 500, 600 and 1,000 Lb. Capacities with 10-Foot Standard Lift

Budgit Shophoist Electric Chain Hoist features rugged construction and high H4 duty cycle. Capable of lifting up to 1,000 pounds and 300 motor starts per hour.

Features and Benefits:
- H4 duty cycle (300 motor starts / hour)
- Easy installation and maintenance
- Standard protector overload device
- 10 pocket oblique lay liftwheel provides longer chain wear
- Epoxy powder coat finish
- 6-1/2 ft. power cord with molded 3 prong plug on 115 volt units
- NEMA 4 industrial rated control station
- Optional impact-resistant chain container available
- Gear train lifetime lubricated with non-oxidizing grease
- CM Hoist Alloy Load Chain (zinc plated optional)
- Thermally protected hoist duty motor
- Dual braking system - D.C. plus regenerative
- Rugged cast aluminum alloy hoist frame
- 5:1 design factor
- Small, compact design for commercial and industrial applications
- Rigid hook suspension prevents tangling of power cord
- Hardened forged steel latch style lower hook rotates 360°
- Totally enclosed non-ventilated hoist frame protects motor from environmental contamination
- True vertical lift
- Precision bearings used throughout hoist
- Lifetime warranty
- Made in U.S.A.

Brand | Budgit Hoist
Capacity (lbs.) | 250, 300, 500, 600, 1,000
Lift (feet) | 10
Model | Shophoist
Lifting Speed (ft/min) | 6, 8, 12, 16, 20, 24, 40
Headroom (inches) | 11-1/16, 11-15/16
Power Supply | 115-1-60, 230-3-60, 460-3-60, 575-3-60
Duty Cycle | H4
Control Type | 1-Speed
Limit Switches | Not Available
Load Limiter Included | Yes
Mounting Type | Hook

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
Man Guard
Electric Chain Hoist

1/4, 1/2, 1, 2 and 3 Ton Capacities
with 10, 15 and 20-Foot Standard Lift

CM Man Guard is designed for a long and dependable service life for heavy duty applications. With its enhanced safety features, easy access to key components, less maintenance and environmentally-friendly design, the CM Man Guard is the right choice for your lifting needs.

Features and Benefits:

OVERLOAD PROTECTION
Overload clutch prevents lifting beyond load capacity, which may damage the hoist or supporting structure, or cause injury to the operator.

READY FOR HEAVY DUTY APPLICATIONS
H4 duty motor classification rated for heavy duty use.

LONGER SERVICE LIFE
- Class F insulation and thermal switch in motor winding reduces motor overheating.
- Helical Gears are oil-bath lubricated which provides better wear while reducing noise.
- Powder coat painted housing and corrosion-resistant zinc-plated chain provides superior protection against the elements.
- Hard-wired power and pendant cords reduce the risk of corrosion and loose connections.

IMPROVED SERVICEABILITY
- Open design allows quick access to AC Brake.
- Easy access to Control Panel and simple wiring change to switch voltages.

SUPERIOR LOAD CONTROL
Optional Variable Frequency Drive (VFD) with 3-Step infinitely variable pendant allows operator to adjust lifting speeds without interruption. Many competitors only offer a 2-Step pendant requiring service interruption to change lift speeds.

ECO-FRIENDLY ENERGY-SAVER
Efficiently designed gear train allows a smaller horsepower motor to operate at the same speeds and duty as our competition and reduces energy consumption. Shipped in boxes made of recycled material.

MADE IN THE USA

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Electric Chain Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>CM Hoist</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1/4, 1/2, 1, 2, 3</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>10, 15, 20</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>Man Guard</td>
</tr>
<tr>
<td>Lifting Speed (ft/min)</td>
<td>5, 8, 10, 16, 32</td>
</tr>
<tr>
<td>Power Supply</td>
<td>115/230-1-60, 230/460-3-60, 230-3-60</td>
</tr>
<tr>
<td>Control Type</td>
<td>1-Speed, VFD</td>
</tr>
<tr>
<td>Limit Switches</td>
<td>Yes</td>
</tr>
<tr>
<td>Motor HP and RPM</td>
<td>2-1/2 HP</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Rigid Hook</td>
</tr>
<tr>
<td>Product Group</td>
<td>Powered Hoists</td>
</tr>
<tr>
<td>Voltage</td>
<td>230, 460, 115/230</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.

<table>
<thead>
<tr>
<th>J Henry Holland</th>
<th>Alabama Sling Center</th>
<th>Tennessee Sling Center</th>
<th>KCI Crane Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone: 757-460-3200</td>
<td>Phone: 205-744-0230</td>
<td>Phone: 901-345-8918 (Memphis)</td>
<td>Phone: 205-345-4701</td>
</tr>
</tbody>
</table>
Lodestar Electric Chain Hoist

1/8, 1/4, 1/2, 1, 2 and 3 Ton Capacities with 10, 15 and 20-Foot Standard Lifts—Longer lifts are available.

Legendary in performance, the new Lodestar features quieter operation, an environment-friendly design, easier access to components, higher duty cycles, less maintenance and enhanced safety features.

Features and Benefits:

- Heavy Duty DC Brake is designed for a long service life. Brake location allows for quick access and easy inspection.
- Lifetime grease-lubricated Gear Box means no oil change out is required. Precision gears provide better wear and longer life.
- Clutch located outside the Gear Box allows for easy access which eliminates the need for complete disassembly and reduces downtime.
- Easy access to the Clutch, Motor, Electrical Control Panel and Brake Assembly.
- Lifetime grease-lubricated Gear Box and helical gearing ensure efficient operation. Heavy duty rated motors. Hoist workmanship backed by a lifetime warranty.
- 80% reduction in sound pressure as compared to the classic Lodestar.
- Clutch is located outside the load path which prevents slipping of the load in an overload condition when brake is not powered.
- 5 Pocket Lift Wheel provides better chain and lift wheel engagement for smoother lifting and reduced vibration—which equates to less wear and a longer chain life.
- Zinc plating to protect chain from environmental conditions.
- With finger-safe wiring and plug-and-play connectors, the Control Panel allows for quick voltage change, access to terminal strips and simple fuse installation.
- Lodestar exceeds H4 requirements, engineered for high-duty cycles and the toughest applications.
- Lifetime grease-lubricated Gear Box means no changing and disposing of hazardous oil.
- Documented RoHS compliance.
- Shipped in boxes made of recycled material.

Standard Features:

- Lifetime Warranty.
- Metric rated.
- CSA / US National Recognized Testing Laboratory (NRTL).
- Made in the U.S.A.

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Electric Chain Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>CM Hoist</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1/8, 1/4, 1/2, 1, 2, 3</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>10, 15, 20, Less Chain</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>Lodestar</td>
</tr>
<tr>
<td>Lifting Speed (ft/min)</td>
<td>16, 8, 32, 5.5, 11, 64, 60, 10</td>
</tr>
<tr>
<td>Headroom (inches)</td>
<td>13-15/16, 15-1/8, 22-13/16, 29-1/2, 13.9375, 18-9/16</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>H4</td>
</tr>
<tr>
<td>Control Type</td>
<td>1-Speed, 2-Speed</td>
</tr>
<tr>
<td>Limit Switches</td>
<td>Yes</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Rigid Upper Hook, Swivel Hook, Lug, Push / Pull Trolley, Motorized Trolley</td>
</tr>
</tbody>
</table>

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
Lodestar
Electric Chain Hoist with Variable Frequency Drive

1/8, 1/4, 1/2, 1, 2 and 3 Ton Capacities with 10, 15 and 20-Foot Standard Lift—Longer lifts are available.

For versatility and ultimate control, choose the CM Lodestar electric chain hoist equipped with an under-the-cover Variable Frequency Drive.

Features and Benefits:

- Voltages—available on 3-phase, 460 volt and 230 volt models
- 6:1 speed ratio
- Fault history
- Phase loss protection
- VFD programmable to customer's exact voltage requirements.
- Motor thermal overload protection
- Adjustable ramp time and speeds. Three second ramp time between minimum and maximum speed setting.
- 3-step robust nema 4x control station
- 3-step infinitely variable control standard provides acceleration and deceleration for full load control and precise positioning.
- Soft starts increase the life of gear train components, load chain, hooks and brake components.
- Electronic reversing eliminates the need for magnetic contactor and speed relay controls.
- Minimum and maximum speed settings with the ability to choose intermediate speeds during operation without timely programming or upgrades.
- 115 volt interface card standard allows for integration into existing bridge and crane systems without upgrades or modifications to the hoist VFD controls.

Chain Containers

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Chain Containers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>CM Hoist</td>
</tr>
<tr>
<td>Material</td>
<td>Metal or Fabric</td>
</tr>
<tr>
<td>Length (inches)</td>
<td>3-3/8, 5-1/4, 7, 8, 10, 11, 13, 14, 15, 16, 17, 18, 20, 23, 25, 26, 30, 31, 36, 48</td>
</tr>
</tbody>
</table>

NEED HOIST REPAIR OR PARTS? We do repairs in-house and stock a full line of parts.
Lodestar XL
Electric Chain Hoist
2, 3, 4, 5, 6 and 7-1/2 Ton
Capacities with 10-Foot Standard Lift—
Longer lifts are available.

The CM Lodestar XL Electric Chain Hoist features a heavy-duty design with faster speeds, less reeving and higher capacities than traditional hoists.

Features and Benefits:

- Increased lifting speeds throughout the line
- Double-reeved units with 3-5 ton lifting capacities
- Maximum lifting speed of 30 feet per minute

A glimpse of the many features of the Lodestar XL that have honed its reputation for durability and long life:

- Heavy-duty, multiple disc braking system
- Forged ten-pocket oblique-lay liftwheel for smooth chain operation, constant chain speed and reduced chain wear
- Gearing operated in oil bath for increased lifting life and quiet operation
- Rated H-4, heavy-duty
- Standard overload protector
- Screw-type limit switches
- Thermally protected motor
- Factory tested at 125% of rated capacity
- Made in U.S.A.

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Electric Chain Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>CM Hoist</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>2, 3, 4, 5, 6, 7-1/2</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>10</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>Lodestar XL</td>
</tr>
<tr>
<td>Lifting Speed (ft/min)</td>
<td>3/9, 4/12, 8/24, 2.7/8, 6/18, 2/6, 6, 8, 9, 10, 12, 15, 18, 24, 32</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
RailStar Motor Driven Trolleys
1/2, 1, 2, 3 and 5 Ton Capacities

The CM RailStar Motor Driven Trolley features a durable structure and smooth motor operation for optimal usage.

Features and Benefits:
- Fits wide range of beam sizes for maximum versatility
- Universal use with any hook-suspended single speed hoists that are equipped with reversing contactor
- Steel plate side frames
- Steel spur gearing for optimum strength and smooth operation
- Durable, hardened, cast-iron trackwheels that operate on standard S-beams or flat-flanged beams
- Lifetime lubricated double-row ball bearings for high efficiency, low maintenance
- Cast iron control enclosure
- Four-button control station included for operating single speed hoist. Drop proportioned to 20’ lift
- 115 volt control circuit
- Trolley guards standard
- One-year warranty
- Metric rated
- Imported

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Powered Trolley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>CM Hoist</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1/8 - 2, 3, 4</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>RailStar</td>
</tr>
<tr>
<td>Power Supply</td>
<td>115-1-60 / 230/460-3-60</td>
</tr>
<tr>
<td>Beam Range (inches)</td>
<td>6 - 18 / 8 - 24</td>
</tr>
<tr>
<td>Control Type</td>
<td>1-Speed</td>
</tr>
<tr>
<td>Spark-Resistant</td>
<td>No</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Hook</td>
</tr>
<tr>
<td>Traverse (ft/min)</td>
<td>78</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.

<table>
<thead>
<tr>
<th>J Henry Holland</th>
<th>Phone: 757-460-3200</th>
<th><a href="http://www.jhenryholland.com">www.jhenryholland.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Alabama Sling Center</td>
<td>Phone: 205-744-0230</td>
<td><a href="http://www.alabamaslingcenter.com">www.alabamaslingcenter.com</a></td>
</tr>
<tr>
<td>Tennessee Sling Center</td>
<td>Phone: 901-345-8918 (Memphis)</td>
<td>423-634-9005 (Chattanooga)</td>
</tr>
<tr>
<td>KCI Crane Service</td>
<td>Phone: 205-345-4701</td>
<td><a href="http://www.kcicraneservice.com">www.kcicraneservice.com</a></td>
</tr>
</tbody>
</table>

Powerstar Motor Driven Trolleys
2, 3, 5, 7-1/2, 9, 10, 12 and 15 Ton Capacities

The CM Powerstar Motor Driven Trolley was designed to be utilized with the CM Powerstar where versatility and heavy-duty strength are key components.

Features and Benefits:
- Single or two speed controls. Two speed models operate on 3:1 speed ratio
- Trolley design permits easy adjustment for installation on a broad range of beam flange widths.
- Trolley wheels have double-row, tapered roller bearings, plus machined and hardened universal treads, to permit operation on American Standard or flat-flanged sections interchangeably.
- Spur gearing used in all motorized trolleys for improved efficiency and durability.
- Lifetime warranty
- Made in U.S.A.

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Powered Trolley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>CM Hoist</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>2, 3, 5, 6, 7-1/2, 9, 10, 12, 15</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>10</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>Powerstar</td>
</tr>
<tr>
<td>Power Supply</td>
<td>230/460-3-60</td>
</tr>
<tr>
<td>Flange Range (inches)</td>
<td>3.33 - 5.50 / 5 - 6.25 / 6.50 - 7.25 / 7 - 8</td>
</tr>
<tr>
<td>Control Type</td>
<td>1-Speed</td>
</tr>
<tr>
<td>Spark-Resistant</td>
<td>No</td>
</tr>
<tr>
<td>Min. Radius Curve (inches)</td>
<td>120</td>
</tr>
<tr>
<td>Traverse (ft/min)</td>
<td>35, 50, 65, 100</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.
SLC Shop Hoist
250, 300, 500, 600 and 1,000 Lb.
Capacities with 10-Foot Standard Lift—Longer lifts available.

Coffing SLC Shop Hoists feature rugged construction and high H4 duty cycle. This compact and job-proven hoist is ideal for commercial and industrial applications lifting up to 1,000 pounds with 300 starts per hour.

Features and Benefits:

- Voltages—115 - single-phase; 230/460, 575 - three-phase, 60 hertz
- Rigid top hook suspension prevents tangling of power cord.
- 6-1/2 ft. power cord with molded 3-prong plug on 115-volt units.
- Aluminum housing provides lightweight and compact strength and portability
- H4 duty cycle provides 300 motor starts per hour
- Standard protector overload device protects against jamming and dangerous overloads.
- 10-pocket oblique-lay liftwheel provides longer chain wear.
- Gear train is lifetime lubricated with non-oxidizing grease.
- Alloy load chain (zinc plated optional).
- Impact-resistant chain container available.
- Lifetime warranty

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Electric Chain Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Coffing</td>
</tr>
<tr>
<td>Capacity (lbs.)</td>
<td>250, 300, 500, 600, 1,000</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>10</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>SLC</td>
</tr>
<tr>
<td>Lifting Speed (ft/min)</td>
<td>6, 8, 12, 16, 20, 24, 40</td>
</tr>
<tr>
<td>Headroom (inches)</td>
<td>11-1/16, 12-1/8</td>
</tr>
<tr>
<td>Power Supply</td>
<td>115-1-60 230-3-60 460-3-60</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>H4</td>
</tr>
<tr>
<td>Control Type</td>
<td>1-Speed</td>
</tr>
<tr>
<td>Limit Switches</td>
<td>Not Available</td>
</tr>
<tr>
<td>Load Limiter Included</td>
<td>Yes</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Hook</td>
</tr>
</tbody>
</table>

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
EMC Model Hoists


Coffing EMC Models are compact chain hoists designed for a variety of light-duty applications. These models feature thermally protected motors.

Features and Benefits:

- Voltages—115V, single-phase motors only.
- Swivel top and bottom hooks with latches on standard suspensions.
- Provided with grounded 3-prong plug for easy installation in any standard 115V outlet.
- Aluminum housing provides lightweight and compact strength and portability. Weighs less than 25 lbs.
- Upper and lower limit switches on chain models and upper paddle limit switch on wire rope model regulate load travel.
- Electromagnetic brake is quick-acting for positive load control.
- Thermal motor protection standard to prevent overheating.
- Rated for intermittent-duty applications (10-minute run time per hour maximum).
- LCC-05 chain container (shown) available for EMC models.
- UL Listed
- Lifetime warranty

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Electric Chain Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Coffing</td>
</tr>
<tr>
<td>Capacity (lbs.)</td>
<td>300, 500</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>10</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>EMC</td>
</tr>
<tr>
<td>Lifting Speed (ft/min)</td>
<td>8, 16</td>
</tr>
<tr>
<td>Headroom (inches)</td>
<td>14-1/2, 16</td>
</tr>
<tr>
<td>Power Supply</td>
<td>115-1-60</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>H4</td>
</tr>
<tr>
<td>Control Type</td>
<td>1-Speed</td>
</tr>
<tr>
<td>Limit Switches</td>
<td>Yes</td>
</tr>
<tr>
<td>Load Limiter Included</td>
<td>Yes</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Hook</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
JLC Hook & Lug Suspension Model Hoists

1/8, 1/4, 1/2, 1 and 2 Ton Capacities with 10, 15 and 20-Foot Standard Lifts—Other lifts available. Standard push button drop is 4 feet less than lift. CSA approved.

Coffing JLC Hook and Lug Suspension Models are designed for industrial-duty performance. Compact in size, the JLC features a multiple-disc motor brake, overload clutch and chain end stop for safety.

Features and Benefits:

- Two-speed hoist models optional with 3 to 1 speed ratio, three-phase, single-voltage only.
- Limit switches adjustable to regulate upper and lower load travel. Brass nuts standard for improved repeatability and chain positioning.
- Precision machined alloy steel gears run in oil bath for longer, quieter operation.
- NEMA 3R Push button station ergonomic design fits operator's hand for thumb or two-handed operation. 24 Volt Control for operator safety. 115 Volt Control available upon request.
- Compact aluminum housing for portability and ease of installation.
- Full line of accessories available, including Variable Frequency Drives.
- Chain containers standard on lifts up to 20 feet single chain / 10 ft. double chain.
- Lifetime warranty

Product Type: Electric Chain Hoist
Brand: Coffing
Capacity (tons): 1/8, 1/4, 1/2, 1, 2
Lift (feet): 10, 15, 20
Hoist Model: JLC
Lifting Speed (ft/min): 8, 16, 32

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS? We do repairs in-house and stock a full line of parts.
EC Hook & Lug Suspension Model Hoists

1/4, 1/2, 1, 2, 3, 4 and 5 Ton Capacities with 10, 15 and 20-Foot Standard Lifts—Standard push button drop is 4 feet less than lift.

Coffing EC Hook and Lug Suspension Models are high-performance hoists engineered for heavy-duty industrial service. Designed for safety, the EC incorporates mechanical load brake, motor brake and overload clutch as standard.

Features and Benefits:

- Two-speed motors available (3 to 1 speed ratio).
- Rigid or swivel top hook, lug, plain, geared and motorized trolley suspensions available.
- Small Frame Design features housings of cast aluminum alloy construction for minimum weight. Engineered and designed for use with motors up to 1 HP.
- Large Frame design features load bearing housings of ductile iron construction for maximum strength. Non-load bearing housings of cast aluminum alloy for minimum weight. Engineered and designed for use with higher torque 2 and 3 HP three-phase motors.
- Built in compliance with ASME / ANSI B30.16 and CSA standards.
- Full line of accessories available, including Variable Frequency Drives.
- Lifetime warranty
- Other suspension available: Plain Trolley, Geared Trolley and Motorized Trolley—contact your local Lifting Specialist.

### Product Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Type</strong></td>
<td>Electric Chain Hoist</td>
</tr>
<tr>
<td><strong>Brand</strong></td>
<td>Coffing</td>
</tr>
<tr>
<td><strong>Capacity (tons)</strong></td>
<td>1/4, 1/2, 1, 2, 3, 4, 5</td>
</tr>
<tr>
<td><strong>Lift (feet)</strong></td>
<td>10, 15, 20</td>
</tr>
<tr>
<td><strong>Hoist Model</strong></td>
<td>EC</td>
</tr>
<tr>
<td><strong>Lifting Speed (ft/min)</strong></td>
<td>5, 6, 8, 9, 10, 12, 16, 24, 32, 64</td>
</tr>
<tr>
<td><strong>Headroom (inches)</strong></td>
<td>16-7/8, 18-1/4, 18-15/16, 23, 23-1/4, 27-3/8</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>115/1-60, 230/460-3-60</td>
</tr>
<tr>
<td><strong>Duty Cycle</strong></td>
<td>H4</td>
</tr>
<tr>
<td><strong>Control Type</strong></td>
<td>1-Speed</td>
</tr>
<tr>
<td><strong>Limit Switches</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Load Limiter Included</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Mounting Type</strong></td>
<td>Hook, Geared Trolley, Push / Pull Trolley, Motorized Trolley</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?

We do repairs in-house and stock a full line of parts.

<table>
<thead>
<tr>
<th>J Henry Holland</th>
<th>Alabama Sling Center</th>
<th>Tennessee Sling Center</th>
<th>KCI Crane Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone: 757-460-3200</td>
<td>Phone: 205-744-0230</td>
<td>Phone: 901-345-8918 (Memphis)</td>
<td>Phone: 205-345-4701</td>
</tr>
</tbody>
</table>

![Overhead Cranes / Jibs](Image)

![Hoists](Image)

![Services](Image)

![Slings](Image)

![Hardware](Image)

![Load Securement](Image)

![Contractors Supply](Image)

![Fall Protection](Image)

63
(N)ER 3-Phase Electric Chain Hoists
1/8, 1/4, 1/2, 1, 1-1/2, 2, 2-1/2, 3 and 5 Ton Capacities with 10-Foot Standard Lift—Other Lifts are available.

Harrington has added several new features and upgrades to the NER/ER Series of electric chain hoists. These improvements to our high quality, full-featured hoists include the latest technologies, making these models absolutely the best electric chain hoists in the market today.

Features and Benefits:

- **UL® Listed**—Certified and listed to UL 1340 “Standard for Hoists.”
- **Easy Access Suspension**—External pins allow for quick change from hook to lug for trolley mount configurations on most models.
- **Green Initiative**—Built smarter without the use of harmful materials. Environmentally friendly. RoHS compliant.
- **Notched Hook and Latch System**—Provides positive closing and improves resistance against lateral forces.
- **Limit Switches**—Low-profile upper and lower limit switches are standard.
- **Extended Chain Life**—Decreased chain wear as a result of a revolutionary heat treatment process, improved material and chain size.
- **High Air Flow**—Cooler motor and brake attributed to an engineered motor fin, fan blade and fan cover design.
- **Unique Load Sheave**—Increased number of pockets reduce chain vibration and increase chain life. 5 pockets standard; 6 pockets on smaller body hoists.
- **Friction Clutch and Load Brake**—Friction clutch is standard on NER/ER models and friction clutch with mechanical load brake standard on ER models. Carbon friction material provides consistent performance over a wide temperature range.
- **Standard Count Hour Meter**—Records and displays the number of lowering starts and hoist on time which is valuable for preventive maintenance. Integral to VFD on dual speed models.
- **Contactors**—Mechanically interlocked, heavy-duty contactors on single-speed models.
- **High Strength, Corrosion and Wear Resistant Load Chain**—Grade 80, super strength, nickel-plated load chain, certified to DIN standards, uses unique technology to greatly increase resistance to fatigue and wear.
- **Dual Speed VFD**—Under-the-cover VFD standard for dual speed hoists. Speed ratio is 6:1 with adjustability up to 12:1.
- **“The Guardian”**: Smart Brake Technology—A current driven electromagnetic brake does not release unless the motor is energized. 10-year hoist brake warranty.
- **Pendant Controls**—Ergonomic design for operator comfort. Red button emergency stop is standard on all 2-button dual-speed pendants.

### Product Specifications

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Electric Chain Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brand</strong></td>
<td>Harrington</td>
</tr>
<tr>
<td><strong>Capacity (tons)</strong></td>
<td>1/8, 1/4, 1/2, 1, 1-1/2, 2, 2-1/2, 3, 5</td>
</tr>
<tr>
<td><strong>Lift (feet)</strong></td>
<td>10</td>
</tr>
<tr>
<td><strong>Hoist Model</strong></td>
<td>NER/ER</td>
</tr>
<tr>
<td><strong>Headroom (inches)</strong></td>
<td>13.8, 14.6, 16.9, 20.1, 22.6, 23.2, 24.6, 26, 27.8, 32.9, 33.5</td>
</tr>
<tr>
<td><strong>Lifting Speed (ft/min)</strong></td>
<td>7, 11, 15, 16, 17, 18, 28, 29, 36, 53, 55</td>
</tr>
</tbody>
</table>

NEED HOIST REPAIR OR PARTS? We do repairs in-house and stock a full line of parts.
SNER Single Phase Electric Chain Hoists

1/4, 1/2, 1, 2 and 3 Ton Capacities with 10-Foot Standard Lift—Other Lifts are available.

The SNER Series of electric chain hoists furnishes single-phase operation in a heavy-duty, low-headroom design. Available in hook mount or coupled with a trolley, it easily transports any load. Look to this model when high-quality and convenience are important for the job.

Features and Benefits:

- Extreme Duty Motor—Higher horsepower and top-duty ratings provide increased performance.
- Pull-Rotor Motor Brake—Extremely durable and reliable, this advanced design has no brake coil to fail.
- Load Sheave—Deep-groove pockets fully support the load chain, reduce vibration and chain wear and provide a true vertical lift.
- Long Life Friction Clutch—Protects hoist from damage and prevents overwinding.
- Heat Treated Helical and Spur Gears—Precision machined for long life. Oil bath lubrication results in a quiet, smooth, cool operation.
- Completely Sealed Body—Suitable for indoor, outdoor and harsh environments.
- Compact Aluminum Body—Die-cast body is lightweight and offers low headroom.
- Easy Maintenance Control Panel—Fast on-site access with hinged cover, single swing-out panel and simple layout of controls.
- Superior Quality Chain—Grade 80 nickel-plated load chain is heat-treated for wear resistance and extended life.
- Forged Carbon Steel Hooks—Under excessive loads will open gradually and not fracture. Bottom hook swivels 360 degrees.
- Motorized Trolley Side Guide Rollers—Provide smooth trolley motion and reduced wear on wheels and beam.
- Motorized Trolley Drop Stops and Rubber Bumpers—Built-in security for the operator and added protection for the equipment and load.

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Electric Chain Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Harrington</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1/4, 1/2, 1, 2, 3</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>10</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>SNER</td>
</tr>
<tr>
<td>Headroom (inches)</td>
<td>13.8, 14, 14.6, 16.1, 17.3, 22.6, 29.5</td>
</tr>
<tr>
<td>Lifting Speed (ft/min)</td>
<td>3.5, 7, 14, 15</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
(N)ER 3-Phase
Large Capacity
Electric Chain Hoists

8, 10, 15 and 20 Ton Capacities
with 10-Foot Standard Lift

Large capacity lifting is now available in both the NER and ER models. These three-phase electric chain hoists provide the duty cycle, durability and ease of operation needed to support most heavy lifting applications.

Features and Benefits:

- **UL® Listed**—Certified and listed to UL 1340 “Standard for Hoists.”
- **Green Initiative**—Built smarter without the use of harmful materials. Environmentally friendly. RoHS compliant.
- **Heavy-Duty Hook Latches**—Standard
- **Limit Switches**—Low-profile upper and lower limit switches are standard.
- **Extended Chain Life**—Decreased chain wear as a result of a revolutionary heat treatment process, improved material and chain size.
- **Contactors**—Mechanically interlocked, heavy-duty contactors on single-speed models.
- **High Air Flow**—Cooler motor and brake attributed to an engineered motor fin, fan blade and fan cover design.
- **Unique Load Sheave**—Increased number of pockets reduce chain vibration and increase chain life. 5 pockets standard.
- **Friction Clutch and Load Brake**—Friction clutch is standard on NER/ER models and friction clutch with mechanical load brake standard on ER models. Carbon friction material provides consistent performance over a wide temperature range.
- **Standard Count Hour Meter**—Records and displays the number of lowering starts and hoist on time, which is valuable for preventive maintenance. Integral to VFD on dual speed models.
- **High Strength, Corrosion and Wear Resistant Load Chain**—Grade 80, super strength, nickel-plated load chain, certified to DIN standards, uses unique technology to greatly increase resistance to fatigue and wear.
- **Dual-Speed VFD**—Under-the-cover VFD standard for dual-speed hoists. Speed ratio is 3:1 with adjustability up to 12:1.
- **“The Guardian”: Smart Brake Technology**—A current driven electromagnetic brake does not release unless the motor is energized. 10-year hoist brake warranty.
- **Pendant Controls**—Ergonomic design for operator comfort. Red button emergency stop is standard on all 2-button dual-speed pendants.

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Electric Chain Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brand</strong></td>
<td>Harrington</td>
</tr>
<tr>
<td><strong>Capacity (tons)</strong></td>
<td>8, 10, 15, 20</td>
</tr>
<tr>
<td><strong>Lift (feet)</strong></td>
<td>10</td>
</tr>
<tr>
<td><strong>Hoist Model</strong></td>
<td>NER/ER Large Capacity</td>
</tr>
<tr>
<td><strong>Headroom (inches)</strong></td>
<td>40.3, 40.9, 53.9, 62.8, 67.3</td>
</tr>
<tr>
<td><strong>Lifting Speeds (ft/min)</strong></td>
<td>5.5, 7.5, 11</td>
</tr>
</tbody>
</table>

**NEED HOIST REPAIR OR PARTS?**
We do repairs in-house and stock a full line of parts.

Mazzella Lifting Technologies
Phone: 800-362-4601
www.mazzellalifting.com

Progressive Crane
Phone: 800-83-CRANE
www.progressivecrane.com

Mazzella Crane Service
Phone: 877-96-CRANE
www.mazzellacraneservice.com

Indusco Wire Rope & Supplies
Phone: 410-727-0665
www.induscowire.com
Accolift Electric Chain Hoists—Hook Suspension

Capacities of 1 to 10 tons.
Standard lift of 20 feet.
Lifting speeds up to 27 FPM.

Standard Features:

- **Dual Brake System:** Disc type motor brake working with a Weston-style mechanical load brake provides load-lowering control.
- **Upper and Lower Limit Switch:** Prevents overwinding by stopping operation in the case of overlifting or overlowering.
- **Overload Alert:** Installed as a load detecting safety device to help prevent overload for greater hoist longevity.
- **Push Button Control:** Compact design to enable one-handed operation. Rated NEMA 4 protection. Mushroom on/off button included. Push-button cable has strain relief to prevent cable damage.
- **Electric Control Panel:** Single-speed hoists are re-connectable for 208-230-460 power supply. Controls are housed in a NEMA 12 enclosure. Control transformer output is 115/1/60. Available in Variable Frequency Drive (VFD) for all motions. VFD is programmed for 2-speed operation. Standard power supply cord is 15 feet.
- **Heavy-Duty Hoist Motor:** The hoist motor is a high-torque design and is rated 30-minute duty. Class B motor insulation and standard thermal motor protection is included.
- **Load Sheave / Chain Guide:** Full floating chain guide assures proper engagement of chain on load sheave. Features 4 or 5 pockets for better distribution of the load.
- **Load Chain:** Grade 80 load chain is case hardened and has a high resistance to wear and corrosion. All hoists are stocked with 20 feet of lift. Longer lifts are available per requirement. Nickel-Plated load chain is available as an option.
- **Hooks:** Load hook is a forged carbon steel hook with a heavy-duty hook latch. Thrust bearing in hook allows 360° rotation to prevent twisting of load chain. Top hook, for hook suspended hoists, is rigid.
- **Gear Box / Oil Lubrication:** The gearbox utilizes an alloy steel helical and spur gear reduction. Gear inspection and lubrication is easily accessible from the top of the hoist.
- **Motorized and Push / Pull Trolley:** Trolley is adjustable for a range of flange widths. Side guide rollers are included to promote smooth trolley motion and to minimize wheel and beam wear. Wheels are dual tread design for operation on tapered or flat flange beams. Trolleys include drop down lugs and rubber bumpers. Motorized trolley motor includes class B insulation and a disc-type motor brake. Motor is rated for 15-minute duty and includes standard thermal motor protection.

Optional Features:

- Additional Lift
- Nickel-Plated Load Chain
- Canvas Chain Bag
- Cross Mount Lug Connector
- Hoist Rain Cover
- Trolley Motor & Control Enclosure Rain Covers
- 48V Control Voltage
- Additional Pendant Buttons
ShopAir Chain Hoist

250, 300, 500, 600 and 1,000 Lb. Capacities with 10-Foot Standard Lift—Longer lifts are available.

The CM ShopAir Chain Hoist features superior lifting speeds, rugged design and precise load spotting in a portable air chain hoist. It is ideal for a workstation hoist or a production line hoist.

Features and Benefits:

■ Rate capacities are up to 1,000 lbs.
■ Standard Protector™ overload device.
■ 10-pocket, oblique-lay lifwheel provides longer chain life.
■ Epoxy powder coat finish provides a durable exterior.
■ Durable reduction gearing means reliable operation
■ Variable flow, two-lever pendant for precise load spotting.
■ Threaded external exhaust for piping away exhaust in clean room or painting applications.
■ Small, compact design for commercial and industrial applications.
■ Industrial-duty air motor for tough applications.
■ Gear train is lifetime—lubricated with non-oxidizing grease.
■ Hardened forged steel, latch-type lower hook rotates 360°.
■ Hardened forged steel, rigid latch-type upper hook.
■ Rugged cast aluminum alloy hoist frame.
■ Alloy load chain.
■ Maximum pendant drop—36 ft.
■ Lifetime warranty against defects in materials and workmanship.
■ Made in U.S.A.

Product Type: Air Chain Hoist
Brand: CM Hoist
Capacity (lbs.): 250, 300, 500, 600, 1,000
Lift (feet): 10
Hoist Model: ShopAir
Lifting Speed (ft/min): 11, 16, 21, 31
Headroom (inches): 10-7/8, 11-15/16
Control Type: Pendant Throttle
Limit Switches: Yes
Mounting Type: Swivel Hook

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
AirStar Chain Hoist

1/4, 1/2 and 1 Ton Capacities (Spark Resistant Models are rated at 3/8 and 3/4 Ton Capacities) with 10-Foot Standard Lift—Longer lifts are available.

The CM AirStar Chain Hoist features variable speed pneumatic power in a compact lightweight hoist for general commercial applications.

Features and Benefits:

- Hoistaloy load chain for heavy duty or stainless steel chain for spark resistant, medium-duty loads
- Positive action, heavy-duty shoe-type brake that holds the load
- Multi-vane rotary air motor for high torque, smooth operation
- Accurately machined heat-treated alloy steel spur gears
- Spark resistant models available for hazardous environments
- Pull cord or pendant throttle control available
- Pull cord control hoists provide a lightweight, economical hoist for accurate control of loads
- Optional pendant throttle control hoists offer ergonomic, one-hand control for ease of operation
- Hook or lug suspension available
- Inlet air swivel with built-in strainer provides free hoist movement
- Aluminum frame and end cover contributes to the lightweight, easily portable and rugged design
- External brake adjustment
- Limit stops prevent over-travel in upper and lowering directions
- Equa-torque gearing of alloy steel, heat-treated spur gears are accurately machined to provide a close-meshed, compact-gear reduction
- Tapped exhaust port 1/2 NPTF...for clean room applications or to add a supplemental muffler to the built-in muffler for even quieter operation
- Lifetime warranty
- Metric rated
- Made in U.S.A.

Product Type: Air Chain Hoist
Brand: CM Hoist
Capacity (tons): 1/4, 3/8, 1/2, 1
Lift (feet): 10
Hoist Model: AirStar
Lifting Speed (ft/min): 23, 45, 60, 65
Headroom (inches): 13-7/8, 15-1/4, 18
Control Type: Pendant Throttle, Pull Cord
Limit Switches: Yes
Load Limiter Included: Yes
Control Type: Yes / No
Chain Type: Link
Mounting Type: Lug, Swivel Hook, Push / Pull Trolley, Motorized Trolley

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS? We do repairs in-house and stock a full line of parts.
AirStar 6
Air Hoist

1, 2 and 3 Ton Capacities (Spark Resistant Models are rated at 1/2, 1 and 2 Ton Capacities) with 10-Foot Standard Lift—Longer lifts are optional.

The CM AirStar 6 Air Hoist features variable speed pneumatic power in a compact lightweight hoist for general industrial applications lifting loads of 1 to 3 tons.

Features and Benefits:

- Hoistaloy load chain for heavy-duty or stainless steel chain for spark resistant, medium-duty loads
- Lightweight aluminum frame and cover
- Positive action, spring biased Weston-type load brake holds the load, provides exacting load spotting and control
- Multi-vane rotary air motor with eight vanes for high torque, smooth operation and positive starting
- Precision cut heat-treated helical and spur gear combination for quiet, efficient operation
- Pendant throttle handle is full flow design for precision throttle capabilities
- Spark resistant models available for hazardous environments
- Hook or lug suspension available
- Standard overload protector device
- Internal Muffler—reduces sound level
- Throttle Valve—precision throttle valves meter the air for smooth operation
- Chain container optional
- Lifetime warranty
- Metric rated
- Made in U.S.A.

Product Type | Air Chain Hoist
Brand | CM Hoist
Capacity (tons) | 1/2, 1, 2, 3
Lift (feet) | 10
Hoist Model | AirStar 6
Lifting Speed (ft/min) | 4, 5, 6, 8, 10, 13, 15, 16, 30

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
Model CAH
Large Frame Air Hoists—Various Suspension

1, 2 and 3 Ton Capacities with 10-Foot Standard Lift—Longer lifts are available.

Coffing CAH Large Frame Models are large frame air chain hoists featuring continuous-duty service for precise, infinitely variable speed and accurate load spotting.

Features and Benefits:

- Pendant throttle is full-flow design. 6-foot pendant hose length for 10-foot lift (4-foot less than lift - standard).
- Precision throttle valves meter air for smooth starts.
- Swivel top and bottom hooks with safety latches standard. Rigid top hook, lug, plain, geared and air motor trolleys available.
- Precise and infinitely variable speed control for accurate load spotting. 90 PSI air operating pressure.
- Aluminum housing lightweight, compact and strong.
- 8-vane rotary air motor produces high, uniform torque and quick response. Internal muffler for quiet operation.
- Combination of precision cut, heat-treated helical and spur gears for efficient operation.
- Mechanical, positive-acting, Weston-type load brake holds the load and provides exacting load spotting and control.
- Overload clutch protects hoist, operator and supporting structures from damaging overloads. Clutch acts as upper and lower limits.
- Spark resistant models—Rated capacities 1/2, 1 and 2 Tons.
- Options—Corrosion resistant models and chain containers also available.
- Air Supply—Inlet size: 3/4” NPTF; Supply hose: 3/4” I.D. min.
- Lifetime warranty
- Made in U.S.A.

WARNING
SEE WARNING INFORMATION ON PAGES 112 - 121.

VIEW PRODUCT DETAILS

Product Type | Air Chain Hoist
Brand | Coffing
Capacity (tons) | 1/4, 3/8, 1/2, 3/4, 1, 2, 3
Lift (feet) | 10
Hoist Model | CAH
Lifting Speed (ft/min) | 4, 5, 6, 8, 10, 13, 15, 16, 23, 29, 30, 45, 60, 65

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
AH Mini-Cat
Air Powered Hoists
250 and 500 Lb. Capacities with 10-Foot Standard Lift—Longer lifts are available.

The AH Mini-Cat Series of air hoists was designed with exceptionally low headroom and will easily handle many construction, assembly line and workstation applications.

Features and Benefits:
- Unlimited Duty Cycle—For continuous operation
- Extremely Compact and Lightweight Body—Allows for easy operation, transportation and storage
- Airtight Hoist—Results in efficient use of air
- High-Speed Lifting—Maximum speed gets jobs done quickly
- Vane Motor Design—Permits very fine feathering control
- Aluminum Valve Section—Reduces effects of corrosion
- Low Noise Levels—Adds to operator comfort
- Disc Motor Brake System—For reliable load support
- Nickel-Plated Load Chain—Resistant to corrosion, abrasion and wear

### Product Type

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Air Chain Hoist (Pendant Control)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Harrington</td>
</tr>
<tr>
<td>Capacity (lbs.)</td>
<td>250 and 500</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>10</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>AHP</td>
</tr>
<tr>
<td>Headroom (inches)</td>
<td>12</td>
</tr>
</tbody>
</table>

### Product Type

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Air Chain Hoist (Cord Control)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Harrington</td>
</tr>
<tr>
<td>Capacity (lbs.)</td>
<td>250 and 500</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>10</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>AHC</td>
</tr>
<tr>
<td>Headroom (inches)</td>
<td>12</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
TCS Cheetah
Air Powered Hoists

1/4, 1/2 and 1 Ton Capacities with 10-Foot Standard Lift—Longer lifts are available.

TCS CHEETAH air hoists have extremely fast and uniquely adjustable lifting and lowering speeds. These hoists are lightweight, compact and have outstanding feathering ability, making them a perfect fit for fast-paced assembly line and workstation crane applications.

Features and Benefits:

- Unlimited Duty Cycle—For continuous operation
- Spring-Loaded Multi-Vane Motor Design—Permits very fine feathering control
- Extremely Fast Lifting—For applications where speed is critical
- Extremely Compact and Lightweight Body—Cast aluminum body allows for easy operation, transportation and storage
- External Speed Adjustment Screw—No tools required to set specific speeds
- Adjustable Lifting and Lowering Speeds—Increases production capabilities
- Heavy-duty Disc Motor Brake System—For reliable load support
- Low Noise Levels— Adds to operator comfort
- Nickel-Plated Load Chain—Resistant to corrosion, abrasion and wear

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Air Chain Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Harrington</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1/4, 1/2, 1</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>10</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>TCS</td>
</tr>
<tr>
<td>Headroom (inches)</td>
<td>16.3, 17.9</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
JDN Air Hoists PROFI

Carrying Capacities:
550 lbs. Up to 100+ Metric Tons
Air Pressure:
65 PSI or 85 PSI Versions Available.

Proven in practice: JDN Air Hoists PROFI Series are superior in the most demanding environments. The PROFI Series delivers with its 100% duty rating and explosion protection as standard. These advantages ensure JDN Air Hoists are especially suitable for applications in hazardous areas.

JDN Air Hoists PROFI Series robust design is suitable for the toughest industrial applications, even in continuous working processes. JDN offers a wide variety of options and control systems to meet your specific requirements. For traversing, there are also different trolley designs to move and position your load.

The JDN PROFI has proven itself in the following applications: aircraft construction, assembly lines, chemical industry, dairies, electro plating, explosives and pyrotechnics industry, food industry, foundries, furniture industry, glass industry, lacquer and varnish factories, match industry, mechanical engineering, auto industry, oil storage plants, onshore and offshore, paint shops, paper industry, power plants, refineries, sawmills, shipyards, space industry, tempering plants and textile industry.

Features and Benefits:

■ Suitable for application in hazardous, spark resistant areas
■ Sensitive infinitely variable speed control for the precise positioning of loads
■ Easy operation and maintenance
■ Suitable for lube-free operation
■ 100% duty rating and unlimited duty cycles
■ Low maintenance
■ Low headroom, light weight
■ Quiet operation
■ Insensitive to dust, humidity and temperatures ranging from -20°C up to +70°C

Technical Details:

■ Smooth starting, low maintenance vane motor
■ Chain sprocket in the mid section runs in dust-proof, maintenance-free ball bearings
■ Planetary gear box with long-life grease lubrication, all gears made of tempered or hardened high-grade steel
■ Load chain and hooks manufactured from high-quality tempered steels with a breaking strength of five times the nominal load

Advantages at a glance:

■ Strong—Fast—Silent
■ High Level of Safety
■ Oil-Free Operation
■ Patented Motor—Brake System
■ Modern Design—Compact Size
■ 100% Duty Rating—No Downtime
CBT
Plain & Geared Trolleys
1/4, 1/2, 1, 1-1/2, 2, 3 and 5 Ton Capacities

The smooth rolling CM Hoist CBT is the economical choice for most applications. The trolley features steel wrap-around side plates, dual tread wheels and lifetime lubricated shielded ball bearings. The CBT Model by CM Hoist is available in plain and geared models.

Features and Benefits:

- Capacities—Rated loads from 1/4 to 5 Ton (Metric Rated). In plain and geared models.
- Economical—Excellent low-cost choice for manual and powered hoists.
- Rugged—Designed to provide superior performance and long, efficient service.
- Low Rolling Effort—Geared models have standard 6-foot hand chain drop. Other hand chain drops available.
- Universal Hanging Clevis—Accepts most hook-mounted hoists.
- Adjustable—Trolley easily adjusts to fit any beam flange within range of adjustment, up to an 8.7” flange width.
- Wrap-Around Side Plates—Lugs provide additional security to increase operator safety and act as bumpers to protect wheels.
- Dual Tread Wheels—Will fit either tapered or flat beam flange within range of adjustment. Wheels include permanently lubricated, shielded ball bearings for long life and low maintenance.
- Lifetime Warranty

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Manual Trolley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>CM Hoist</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1/4, 1/2, 1, 1-1/2, 2, 3, 5</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>CBT</td>
</tr>
<tr>
<td>Type</td>
<td>Plain and Geared Trolley</td>
</tr>
<tr>
<td>Flange Range (inches)</td>
<td>2.3 - 8.7, 3 - 8.7, 3.5 - 8.7</td>
</tr>
<tr>
<td>Beam Height (inches)</td>
<td>4-24, 5-24, 6-24, 8-24, 10-24</td>
</tr>
<tr>
<td>I-Beam Width (inches)</td>
<td>2.0-8.7, 2.3-8.7, 3-8.7, 3.5-8.7</td>
</tr>
<tr>
<td>Min. Radius Curve (inches)</td>
<td>27, 36, 45, 55, 70</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Hook</td>
</tr>
</tbody>
</table>

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.

J Henry Holland  
Phone: 757-460-3300  
www.jhenryholland.com

Alabama Sling Center  
Phone: 205-744-0230  
www.alabamaslingcenter.com

Tennessee Sling Center  
Phone: 901-345-8918 (Memphis)  
Phone: 423-634-9005 (Chattanooga)  
www.tennesseeslingcenter.com

KCI Crane Service  
Phone: 205-345-4701  
www.kcicraneservice.com

WARNING
SEE WARNING INFORMATION ON PAGES 112 - 121.
Series 84A
Plain / Geared Trolley

1/4, 1/2, 1, 1-1/2, 2, 3, 4, 5, 6, 8, 10, 12, 16, 20 and 25 Ton Capacities

The CM Series 84 Plain or Geared Trolley features a minimal maintenance design with fully sealed precision bearings, heavy-duty side frames and fully machined wheel tread for a superior performance over a long life.

Features and Benefits:

- Lifetime lubricated, precision ball bearings on trolleys through 3 ton capacity. Trolleys with capacities 4 tons and greater are equipped with eight sealed, Timken tapered roller bearings and grease fittings.
- Heavy rolled steel side frames extend beyond the wheels to provide these trolleys with superior strength, rigidity and added protection for the trackwheels. Units with capacities from 1/4 through 12 tons employ universal wheel treads for use on flat or tapered beam flanges. Units with capacities from 16 through 25 tons operate on American Standard I-beams with tapered flanges. For patented track, consult factory.
- Trolley wheels are fully machined from alloy cast iron and hardened for high strength and long life.
- Alloy steel axles and equalizer pins are heat treated for maximum strength and wear life.
- Geared versions have fully machined trackwheel gears and incorporate a swinging chain guide, which keeps the hand chain aligned and free from jamming.
- Available to fit a broad range of wider flange beams and patented track applications not listed—contact factory.
- Made in the USA
- Spark resistant models available—add suffix "SR"

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Manual Trolley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>CM Hoist</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1/4, 1/2, 1, 1-1/2, 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 25</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>84A</td>
</tr>
<tr>
<td>Type</td>
<td>Plain or Geared Trolley</td>
</tr>
<tr>
<td>Headroom (inches)</td>
<td>18 - 24</td>
</tr>
<tr>
<td>Flange Range (inches)</td>
<td></td>
</tr>
<tr>
<td>Beam Height (inches)</td>
<td></td>
</tr>
<tr>
<td>Limit Switches (inches)</td>
<td></td>
</tr>
<tr>
<td>Spark-Resistant</td>
<td>Yes / No</td>
</tr>
<tr>
<td>Min. Radius Curve (inches)</td>
<td></td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Hook</td>
</tr>
</tbody>
</table>

**NEED HOIST REPAIR OR PARTS?**
We do repairs in-house and stock a full line of parts.
Series 632
Close Radius Trolley
1/4, 1/2, 1, 1-1/2, 2 and 3 Ton Capacities

The CM Series 632 Close Radius Trolley features a shorter and lighter design than competitive trolleys—with all the strength. It has the ability to handle tight curves and maintain low headroom capabilities.

Features and Benefits:

- Negotiates radius curves as tight as 7 to 10 inches
- Made of highest quality rolled steel
- Unique double-row, ball-bearing wheel design for greater wear capacity
- Larger V-bars available for wider flange adjustment
- For low headroom applications
- Bearings prepacked with lifetime lubricant
- Exclusive Dial-Fit collar quickly adapts trolley to wide range of beams and patented rails
- Dust covers shield and protect bearings
- Trolleys available for larger beams, rails or tracks
- Cast iron trolley guards available (except for 3 ton)
- Lifetime warranty
- Made in U.S.A.

---

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
Series 633
Wide Range Trolley
1/2, 1, 2, 3 and 5 Ton Capacities

The CM Series 633 Wide Range Trolley features a simple, rugged design built for trouble-free service and ease of operation across a wide range of beam applications.

Features and Benefits:

- Rugged steel side plates formed to include bumpers and trolley guards
- Frames connected by steel equalizer pin, secured by two nuts on each side
- Universal tread-flanged trackwheels equipped with shielded ball bearings
- Easy rolling on American standard shapes, wide flange shapes or patented rail
- Hardened wheels and axles for added strength and durability
- Spacer washers can be shifted inside or outside for easy adjustment to wide range of beams
- To be used with hook-suspended hoist
- Suspension plate for easy attachment is standard
- Bearings prepacked with lifetime lubricant
- One-year warranty
- Imported

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Manual Trolley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>CM Hoist</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1/2, 1, 2, 3, 5</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>633</td>
</tr>
<tr>
<td>Type</td>
<td>Plain Trolley</td>
</tr>
<tr>
<td>Headroom (inches)</td>
<td>18 - 24</td>
</tr>
<tr>
<td>Flange Range (inches)</td>
<td>2.5 - 5.625</td>
</tr>
<tr>
<td></td>
<td>3 - 8</td>
</tr>
<tr>
<td></td>
<td>3.625 - 8</td>
</tr>
<tr>
<td>Beam Height (inches)</td>
<td>3 - 15</td>
</tr>
<tr>
<td></td>
<td>5 - 24</td>
</tr>
<tr>
<td></td>
<td>6 - 24</td>
</tr>
<tr>
<td>Spark-Resistant</td>
<td>No</td>
</tr>
<tr>
<td>Min. Radius Curve (inches)</td>
<td>35, 59, 71, 94</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Hook</td>
</tr>
</tbody>
</table>

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
CBT
Plain & Geared Trolleys

1/4, 1/2, 1, 1-1/2, 2, 3 and 5 Ton Capacities (Metric Rated). In plain and geared models.

COFFING CBT Model—Available in plain and geared models, the CBT is the economical choice for most applications. The trolley features steel wrap-around side plates, dual tread wheels and lifetime lubricated shielded ball bearings. All the CBTs’ features combine to ensure a trolley that is smooth rolling, versatile and reliable.

Features and Benefits:

ECONOMICAL
Excellent low-cost choice for manual and powered hoists.

RUGGED
Designed to provide superior performance and long, efficient service.

LOW ROLLING EFFORT
Geared models have standard 6-foot hand chain drop. Other hand chain drops available.

UNIVERSAL HANGING CLEVIS
Accepts most hook-mounted hoists.

ADJUSTABLE
Trolley easily adjusts to fit any beam flange within range of adjustment—up to an 8.7” flange width.

WRAP-AROUND SIDE PLATES
Lugs provide additional security to increase operator safety and act as bumpers to protect wheels.

DUAL TREAD WHEELS
Will fit either tapered or flat beam flange within range of adjustment. Wheels include permanently lubricated, shielded ball bearings for long life and low maintenance.

LIFETIME WARRANTY

![WARNING](WARNING.png)

### WARNING

SEE WARNING INFORMATION ON PAGES 112 - 121.

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Manual Trolley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Coffing</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1/4, 1/2, 1, 1-1/2, 2, 3, 5</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>CBT</td>
</tr>
<tr>
<td>Type</td>
<td>Plain Trolley / Geared Trolley</td>
</tr>
<tr>
<td>Flange Range (inches)</td>
<td>2 - 8.7</td>
</tr>
<tr>
<td>Beam Height (inches)</td>
<td>4 - 24</td>
</tr>
<tr>
<td>Spark-Resistant</td>
<td>No</td>
</tr>
<tr>
<td>Min. Radius Curve (inches)</td>
<td>27</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Hook</td>
</tr>
</tbody>
</table>

### NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
# CTA
## Plain & Geared Trolleys

1/4, 1/2, 1, 2, 3, 4 and 5 Ton Capacities in plain and geared models. Geared trolleys have standard 6-foot hand chain drop. Other hand chain drops available.

COFFING CTA Model—Featuring enhanced design, and available in plain and geared models, which can be modified to fit a wide range of beam sizes and styles. The CTA is designed to provide easy operation and superior performance in industrial lifting applications.

**Features and Benefits:**

- **RUGGED**
  Designed to provide superior performance and long, efficient service.

- **EASY OPERATION**
  Lowest rolling effort in the Coffing trolley line.

- **UNIVERSAL MOUNTING**
  Clevis accepts all Coffing hook-mounted hoists or lug-mounted hoists attached directly to load pins.

- **INCREASED ADJUSTABILITY**
  Trolley easily conforms to any beam flange within range of adjustment. For larger flange width, please contact your local Lifting Specialist.

- **WRAP-AROUND SIDE PLATES**
  Lugs provide additional security for operator and act as bumpers to protect wheels.

- **DUAL TREAD WHEELS**
  Fully machined wheels fit any tapered or flat flanged beams within range of adjustment. Wheels include permanently lubricated, shielded ball bearings for long life and low maintenance.

- **OPTIONS**
  Spark-resistant and corrosion-resistant wheels available. Track clamps available on 1/4 to 4 tons.

- **LIFETIME WARRANTY**

### Specifications

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Manual Trolley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Coffing</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1/4, 1/2, 1, 2, 3, 4, 5</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>CTA</td>
</tr>
<tr>
<td>Type</td>
<td>Plain Trolley</td>
</tr>
<tr>
<td>Flange Range (inches)</td>
<td>3.33 - 7</td>
</tr>
<tr>
<td></td>
<td>4 - 7</td>
</tr>
<tr>
<td>Beam Height (inches)</td>
<td>6 - 18</td>
</tr>
<tr>
<td></td>
<td>8 - 18</td>
</tr>
<tr>
<td>Spark-Resistant</td>
<td>No</td>
</tr>
<tr>
<td>Min. Radius Curve (inches)</td>
<td>Straight 48</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Hook</td>
</tr>
</tbody>
</table>

**NEED HOIST REPAIR OR PARTS?**
We do repairs in-house and stock a full line of parts.
VT-A
Push Type Trolley
1/4, 1/2, 1, 1-1/2, 2 and 3 Ton Capacities

COFFING VT-A Trolley—A versatile, push-type, industrial grade hook-mount trolley. Incorporating universal wheel tread design, the VT-A is ideal for use on a variety of American Standard Beams, wide flange beams and patented track applications.

Features and Benefits:

 UNIQUE SIDE FRAME / LOAD BAR DESIGN
“Dial Fit” adjusting collar reduces installation time from 40 minutes to less than 4 minutes.

 SHIELDED DOUBLE ROW BALL BEARINGS
Smooth rolling for longer life and greater efficiency.

 NEGOTIATES SMALL RADIUS CURVES
7 in. on 1 Ton capacity.

LIFETIME WARRANTY

BC Beam Clamps
1, 2, 3, 5 and 10 Ton Capacities

COFFING BC Models—Ideal as an anchor for rigging operations (vertical or horizontal), as a hoisting anchor or as a tool for positioning and holding beams for welding. The BC is recommended for commercial, construction and industrial applications.

Features and Benefits:

REDUCED FLANGE STRESS
Special clamp jaw-design distributes load away from flange edge.

ADJUSTABLE
Threaded mechanism fits securely on a wide range of flange widths and beam sizes.

LOW HEADROOM
Provided by built-in suspension bar.

LIFETIME WARRANTY

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Manual Trolley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Coffing</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1/4, 1/2, 1, 1-1/2, 2, 3</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>VT-A</td>
</tr>
<tr>
<td>Type</td>
<td>Plain Trolley</td>
</tr>
<tr>
<td>Flange Range (inches)</td>
<td>2.625 - 5.0625</td>
</tr>
<tr>
<td></td>
<td>3.375 - 5.625</td>
</tr>
<tr>
<td></td>
<td>4 - 6.25</td>
</tr>
<tr>
<td>Beam Height (inches)</td>
<td>4 - 12</td>
</tr>
<tr>
<td></td>
<td>6 - 15</td>
</tr>
<tr>
<td></td>
<td>8 - 18</td>
</tr>
<tr>
<td>Min. Radius Curve (inches)</td>
<td>7, 10</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Hook</td>
</tr>
</tbody>
</table>

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
PT Push Trolley &
GT Geared Trolley

Push Trolley Capacities from
1/2, 1, 1-1/2, 2, 2-1/2, 3, 5, 8 and 10 Tons

Geared Trolley Capacities from
1/2, 1, 1-1/2, 2, 2-1/2, 3, 5, 8, 10, 15 and 20 Tons

Harrington push and geared trolleys help you maneuver easily on your most demanding lifting operations. They feature specially designed contoured wheels that ensure reliable tracking, and their sealed ball bearings avoid maintenance hassles and provide smooth operation.

Features and Benefits:

■ Get sure trolley tracking with specially designed contoured wheels that fit both tapered and flat-flange beams.
■ Maintenance-free, sealed precision ball bearings are lubed for life and offer smooth movement with low friction and long life.
■ Get strength and rigidity from a lightweight, compact design.
■ Easily adjust trolley to fit a wide variety of beam flange widths.
■ Load equalizing suspension distributes the load to all wheels.
■ Wide standard flange ranges reduce the need for optional extended shaft kits.
■ Match the needs of the job with a variety of trolley hoist suspenders.

Capabilities:

■ Use the economical PT for applications involving longer traversing distances.
■ Use the GT for precise load control and shorter traversing distances.
■ 1/2 through 3 Ton are supplied with Sustender C, which is suitable for most applications. Alternate suspenders may be required for your application.
■ Geared trolleys of larger capacities are available.
Please contact your local Lifting Specialist for details.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
Power Tractor Drive

1, 1-1/2, 2-1/2, 3 and 5 Ton Capacities

Chester Tractor Drives deliver greater productivity with existing push-type underhung crane bridges or push-type monorail hoists by offering motorized travel.

Features and Benefits:

- Designed for capacities up to 5 tons, Chester Tractor Drives are easy to install without removing or disturbing existing equipment.
- For underhung crane bridges, the Tractor is designed to accommodate any make of crane on various tracks. Twin Tractor units can be used to convert push-type cranes to motorized drive. The twin Tractor drives are wired into a single control panel located on one of the Tractors to provide simultaneous operation.
- For monorail trolley suspended hoists, the single, powerful motorized Tractor provides fast horizontal travel while minimizing worker fatigue. A squirrel cage electric motor and heavy-duty worm gear reducer drives a urethane drive wheel. The drive wheel engages the underside of the track, providing positive travel.
- Units are available for a variety of capacities, speeds and runway beams. Units are available with standard controls for single or dual operation without controls or with customized controls.
- Other options include: two speed, variable speed, soft starts, motor brakes, various voltages and control options.

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Powered Trolley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Chester</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1, 1-1/2, 2-1/2, 3, 5</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>Powered Tractor Drive</td>
</tr>
<tr>
<td>Flange Range (inches)</td>
<td>3.38 - 8</td>
</tr>
<tr>
<td>Min. Radius Curve (inches)</td>
<td>36</td>
</tr>
<tr>
<td>Traverse (ft/min)</td>
<td>35, 55, 70, 105</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
700 Wire Rope Electric Hoist Deck-Mounted (Single-Reeved)

1, 3, 5, 7-1/2 and 10 Ton Capacities with 12, 15, 18, 22, 23, 25, 26, 27, 35, 38, 40, 44, 47, 50, 55 and 83-Foot Lifts

Shaw-Box 700 Series Electric Hoist Deck Mounted (Single-Reeved). For operation in a variety of standard industrial, harsh or hazardous environments.

Features and Benefits:

- One-piece welded steel frame ensures precise fit and long hoisting machinery life
- Alloy aluminum gear case and cover is lightweight, yet rugged
- Direct acting D.C. brake solenoid for smooth braking action
- Multiple-disc motor brake for long life and maximum braking efficiency
- Bearings supported in an independent gear case spider give a precise fit and allow removal of the gear case cover without disassembly of the gearing
- Hinged control panel cover permits easy access to the control components
- Improved plow steel preformed wire rope for maximum strength and life
- Full-swiveling, heat-treated forged steel hook with spring loaded latch
- Shrouded lower block to help prevent pinched fingers
- Push-button control pendant for easy one-handed operation
- Rugged, low-maintenance magnetic contactor control
- High-torque, heavy-duty hoist motor for smooth load handling
- Watershed and gaskets for tight cover seal and protection of internal components
- Integrally welded mounting lug permits various trolley attachment options
- Block-operated limit switch limits upward hook travel
- Rope anchor, easily accessible for inspection and maintenance
- Deep-grooved, large diameter rope drum helps prevent rope overwrap for longer rope life
- Double-reduction helical gearing provides a smooth, quiet drive train
- Positive-action, mechanical, load-lowering control brake also acts as a part of the hoist-holding brake system

Product Type: Electric Wire Rope Hoist

<table>
<thead>
<tr>
<th>Brand</th>
<th>Shaw-Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (tons)</td>
<td>1, 3, 5, 7-1/2, 10</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>12, 15, 18, 22, 23, 25, 26, 27, 35, 38, 40, 44, 47, 50, 55, 83</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>700 Series</td>
</tr>
<tr>
<td>Lifting Speed (ft/min)</td>
<td>14/5 30/10 40/13 15/6 20/7 14/4.6 13 13/4.3 27/9</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
700 Wire Rope
Electric Hoist & Trolley
(Double-Reeved)

1, 3, 5, 7-1/2 and 10 Ton Capacities
with 18, 23, 27, 35, 50 and 83-Foot Lifts

Shaw-Box 700 Series Electric Hoist and Trolley
(Double-Reeved). Double-reeved in monorail or deck
mount versions for operation in a variety of standard
industrial, harsh or hazardous environments.

Features and Benefits:

- One-piece welded steel frame ensures precise fit
  and long hoisting machinery life
- Alloy aluminum gear case and cover is lightweight,
  yet rugged
- Direct acting D.C. brake solenoid for smooth
  braking action
- Multiple-disc motor brake for long life and maximum
  braking efficiency
- Bearings supported in an independent gear case
  spider give a precise fit and allow removal of the gear
  case cover without disassembly of the gearing
- Hinged control panel cover permits easy access to
  the control components
- Improved plow steel preformed wire rope for maximum
  strength and life
- Full-swiveling, heat-treated forged steel hook with
  spring loaded latch
- Shrouded lower block to help prevent pinched fingers
- Push-button control pendant for easy one-handed
  operation
- Rugged, low-maintenance magnetic contactor control
- High-torque, heavy-duty hoist motor for smooth load
  handling
- Watershed and gaskets for tight frame cover seal
  and protection of internal components
- Integrimally welded mounting lug permits various trolley
  attachment options
- Block-operated limit switch limits upward hook travel
- Rope anchor, easily accessible for inspection
  and maintenance
- Deep-grooved, large diameter rope drum helps
  prevent rope overwrap for longer rope life
- Double-reduction helical gearing provides a smooth,
  quiet drive train
- Positive-action, mechanical, load-lowering control brake
  also acts as a part of the hoist-holding brake system

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Electric Wire Rope Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Shaw-Box</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1, 3, 5, 7-1/2</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>18, 23, 27, 35, 50, 83</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>700 Series</td>
</tr>
<tr>
<td>Lifting Speed (ft/min)</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>10/13</td>
</tr>
<tr>
<td>27</td>
<td>27/9</td>
</tr>
<tr>
<td>19</td>
<td>19/6</td>
</tr>
<tr>
<td>14/5</td>
<td>14</td>
</tr>
<tr>
<td>19/7</td>
<td>30</td>
</tr>
<tr>
<td>30/10</td>
<td>40</td>
</tr>
<tr>
<td>13/4.3</td>
<td></td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional
product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a
full line of parts.
800 Wire Rope Hoist & Trolley (Single-Reeved)

1/2, 1, 2, 3 and 5 Ton Capacities with 20, 25, 30, 40, 45 and 50-Foot Lifts

Shaw-Box 800 Series Wire Rope Hoist and Trolley (Single-Reeved). Compact, economical electric wire rope hoists in capacities 1/2 to 5 tons and lifts to 50 feet for standard or special applications.

Features and Benefits:

- Lug, Push, Geared or Motorized Trolley
- Easily accessible control enclosure facilitates maintenance
- D.C. disc motor brake for smooth braking action
- High-torque, heavy-duty hoist motor for smooth hoisting action
- Block operated upper limit stop to limit upward hook travel
- Convenient one-handed push-button control for easy operation of all motions
- 115 volts at push button for operator safety
- 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.)
- Improved plow steel pre-formed cable for maximum strength and life
- Shrouded lower block to help prevent pinched fingers
- Alloy aluminum gear case and cover is lightweight, 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 mounting from an overhead structure, or with any of our overwrap for longer wire rope life
- Heavy welded steel frame ensures precise fit for long hoisting machinery life

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Electric Wire Rope Hoist, Air Wire Rope Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Shaw-Box</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1/2, 1, 2, 3, 5</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>20, 25, 30, 40, 45, 50</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>800 Series</td>
</tr>
<tr>
<td>Lifting Speed (ft/min)</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>9/3</td>
</tr>
<tr>
<td></td>
<td>18/6</td>
</tr>
<tr>
<td></td>
<td>28/14</td>
</tr>
<tr>
<td></td>
<td>14/4.6</td>
</tr>
<tr>
<td></td>
<td>50/16.6</td>
</tr>
<tr>
<td></td>
<td>35/11.7</td>
</tr>
<tr>
<td></td>
<td>28/9.4</td>
</tr>
<tr>
<td></td>
<td>50/25</td>
</tr>
<tr>
<td></td>
<td>18/9</td>
</tr>
<tr>
<td></td>
<td>10/5</td>
</tr>
<tr>
<td></td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
800 Wire Rope Hoist & Trolley (Double-Reeved)

1, 1/2, 2, 3 and 5 Ton Capacities with 14, 18, 25, 34, 36 and 47-Foot Lifts

Shaw-Box 800 Series Wire Rope Hoist and Trolley (Double-Reeved)—compact, economical electric wire rope hoists.

**Features and Benefits:**

- Lug, Push, Geared or Motorized Trolley
- Easily accessible control enclosure facilitates maintenance
- D.C. disc motor brake for smooth braking action
- High torque, heavy-duty hoist motor for smooth hoisting action
- Block operated upper limit stop to limit upward hook travel
- Convenient one-handed push-button control for easy operation of all motions
- 115 volts at push button for operator safety
- 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.)
- Improved plow steel pre-formed cable for maximum strength and life
- Shrouded lower block to help prevent pinched fingers
- Alloy aluminum gear case and cover is lightweight 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 mounting from an overhead structure, or with any of our overwrap for longer wire rope life
- Heavy welded steel frame ensures precise fit for long hoisting machinery life

### Product Specifications:

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Electric Wire Rope Hoist, Air Wire Rope Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brand</strong></td>
<td>Shaw-Box</td>
</tr>
<tr>
<td><strong>Capacity (tons)</strong></td>
<td>1/2, 1, 2, 3, 5</td>
</tr>
<tr>
<td><strong>Lift (feet)</strong></td>
<td>14, 18, 20, 25, 30, 34, 36, 40, 45, 47, 50</td>
</tr>
<tr>
<td><strong>Hoist Model</strong></td>
<td>800 Series</td>
</tr>
<tr>
<td><strong>Lifting Speed (ft/min)</strong></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>9/3</td>
</tr>
<tr>
<td>18/6</td>
<td>10/5</td>
</tr>
<tr>
<td>50/16.6</td>
<td>18/9</td>
</tr>
<tr>
<td>35/11.7</td>
<td>7</td>
</tr>
<tr>
<td>28/9.4</td>
<td>9</td>
</tr>
<tr>
<td>14/6</td>
<td>10</td>
</tr>
<tr>
<td>50/25</td>
<td>11</td>
</tr>
<tr>
<td>28/14</td>
<td>14</td>
</tr>
<tr>
<td>28</td>
<td>16</td>
</tr>
<tr>
<td>50</td>
<td>16</td>
</tr>
<tr>
<td>35</td>
<td>33</td>
</tr>
</tbody>
</table>

Call your local Lifting Specialist for additional product specifications.

---

**NEED HOIST REPAIR OR PARTS?**

We do repairs in-house and stock a full line of parts.

---

**J Henry Holland**
Phone: 757-460-3300  
www.jhenryholland.com

**Alabama Sling Center**
Phone: 205-744-0230  
www.alabamaslingcenter.com

**Tennessee Sling Center**
Phone: 901-345-8918 (Memphis)  
205-634-9005 (Chattanooga)  
www.tennesseeslingcenter.com

**KCI Crane Service**
Phone: 205-345-4701  
www.kcicraneservice.com
LodeKing High Capacity Electric Wire Rope Hoist

15, 20, 25, 30, 40, 45, 50 and 60 Ton Capacities with 28, 30, 33, 37, 44 and 50-Foot Standard Lift

With capacities from 15 to 60 Tons, the new Yale LodeKing wire rope hoist combines the durability you have come to expect from Yale with the higher capacities your applications demand.

The LodeKing is engineered with an efficient, space-saving center drive configuration and dual drum design for superior load control and centering. A key feature is the robust commercial Gear Drive that delivers reliable performance with easy maintenance.

Features and Benefits:

- **TRUE VERTICAL LIFT**—Better load control, easy movement and placement of product.
- **CENTER DRIVE CONFIGURATION**—Improves load centering on the crane and cleaner outside dimensions.
- **WELDED ECCENTRIC OUTER BEARING**—Welding prevents tampering with the bearing. It also allows for fast, easy change out of bearing in the field with no adjustments required. No shims needed since it is eccentric.
- **INDUSTRY-PROVEN GEAR DRIVE**—Easy-to-maintain Gear Drive features a sight glass for quick inspection of the oil level. Standard availability improves product lead time.
- **FLUX VECTOR DRIVE PACKAGE STANDARD ON ALL UNITS**—Improves load control and allows for precise movements. Reduced brake wear.
- **SUPPLEMENTAL UPPER & LOWER LIMIT SWITCH**—Safely stops load from being lifted or lowered beyond set limits, reducing damage to equipment and hoist.
- **EXCEEDS CMAA CLASS D ROPE TO SHEAVE & DRUM DIAMETER**—Reduces rope maintenance.
- **200% MOTOR BRAKE TORQUE RATING**—Secondary brake exceeds CMAA Standards. Stops and holds a rated load quickly and securely.
- **30 TO 60 HP MOTORS AVAILABLE**—Offers wide range of hoist lifting speeds.
- **BUILT UP CONSTRUCTION**—Fabricated frames made from steel structures adds structural integrity.
- **ROTATING AXLE TROLLEYS**—Ideal for Class D service requirements. Longer bearing life with roller bearings versus ball bearings for capacities over 30 Ton.

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Electric Wire Rope Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brand</strong></td>
<td>Yale</td>
</tr>
<tr>
<td><strong>Capacity (tons)</strong></td>
<td>15, 20, 25, 30, 40, 45, 50, 60</td>
</tr>
<tr>
<td><strong>Lift (feet)</strong></td>
<td>28, 30, 33, 37, 44, 50</td>
</tr>
<tr>
<td><strong>Hoist Model</strong></td>
<td>LodeKing</td>
</tr>
<tr>
<td><strong>Lifting Speed (ft/min)</strong></td>
<td>12, 13, 14, 15</td>
</tr>
<tr>
<td><strong>Hoist Motor HP</strong></td>
<td>30, 40, 50</td>
</tr>
<tr>
<td><strong>Hoist Motor RPM</strong></td>
<td>1765, 1780</td>
</tr>
<tr>
<td><strong>Standard Gage (inches)</strong></td>
<td>60, 72, 78, 84</td>
</tr>
</tbody>
</table>

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.

Mazzella Lifting Technologies
Phone: 800-362-4601
www.mazzellalifting.com

Progressive Crane
Phone: 800-83-CRANE
www.progressivecrane.com

Mazzella Crane Service
Phone: 877-96-CRANE
www.mazzellacraneservice.com

Indusco Wire Rope & Supplies
Phone: 410-727-0665
www.induscowire.com

WARNING
SEE WARNING INFORMATION ON PAGES 112 - 121.
Global King Monorail Hoist & Trolley

1, 2, 3, 5, 7-1/2, 10 and 15 Ton Capacities with 20, 40 and 25-Foot Lifts

- Available as FLEX-48 Quick Ship Hoist
- Standard 3-Year Warranty

Yale Global King monorail hoist and trolleys are low-headroom, heavy-duty hoists built to provide long life with the higher lifting speeds and precise positioning control.

Features and Benefits:

- Triple-reduction hoist gearing is oil bath lubricated, operating in an oil-light, cast aluminum gear case.
- 2-Speed Motor 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.
- Machined Wire Rope Drum. Quality steel and deep-grooved with a rope guide to help ensure the rope stays in the grooves.
- Reeved to a low-headroom design lower block for minimum headroom and maximum lift.
- 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).
- Bearing-mounted trunnion hook that rotates 360° and swings back and forth 180° for easier load adjustment.
- Upper / lower geared control circuit hoist motion limit switch.
- An additional block-operated, upper-control circuit limit switch is available as an option.
- Overcapacity limit switch prevents the hoist lifting excessive overloads.
- Two wheels are driven; one on each side of the frame for maximum traction and uniform tracking.
- Hoist and trolley controls are housed in a common NEMA 4/12 enclosure with hoist motion monitor, motor thermal overloads, over capacity limit switch and more.

Product Type: Electric Wire Rope Hoist
Brand: Yale
Capacity (tons): 1, 2, 3, 5, 7-1/2, 10, 15
Lift (feet): 20, 40, 25
Hoist Model: Global King
Lifting Speed (ft/min): 18/4.5
20/5
24/6

Call your local Lifting Specialist for additional product specifications.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
Shaw-Box World Series™ Monorail Hoist

1 to 15 Ton Capacities with 20 to 40-Foot Standard Lifts

Shaw-Box World Series monorail wire rope hoists are built for the world market and combine more than 130 years of experience with the latest in manufacturing and materials technology, rigid design standards and the best quality components available to create a feature-filled, rugged, easily maintained hoist line.

All Shaw-Box World Series hoists are metric capacity rated, low head-room, heavy-duty, built to meet and exceed either FEM 2m or 3m duty (similar to ASME H4 or H4+ duty) providing long life in heavy applications with the higher lifting speeds and precise positioning control demanded by industry worldwide.

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

Ultra-Low headroom design—as low as 16" from wheel tread to saddle of hook.

Top Running Series available. Our entire series of Shaw-Box World Series™ Monorail hoists are available in top-running versions, from 5 to 25 ton capacities.

Features and Benefits:

- Rope drum deep-grooved with heavy-duty rope guide as standard.
- Heavy-duty DC disc brake rated at 200% torque, provides quick, positive stops and load holding.
- Motors designed and manufactured specifically for hoisting service.
- 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.
- All controls housed in a NEMA 4/12 enclosure with easily accessible electrical components.
- Triple reduction hoist gearing in an oil tight gear case.
- Heavy steel frame provides a solid foundation and positive alignment of key components.
- Low headroom design assures maximum hook travel.
- Trolley is easily adjustable to handle a wide range of beam flange widths.
- Upper / lower geared limit switch is standard for regulated load travel.
- Two-speed hoist and trolley control for smooth acceleration and precise load positioning.

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.
Electric Wire Rope Hoists

1, 1-1/2, 2, 3, 4, 5, 6, 7-1/2, 10 and 15 Ton Capacities with 9 to 150-Foot Lifts.

Chester Wire Rope Electric Hoists feature worm gear drives for quiet, smooth, reliable operation. These hoists are available in single hook, twin hook or multiple hook models for lug, floor, ceiling or trolley mounting. Capacities from 1 to 15 tons in a variety of configurations are available to provide virtually trouble free operation in every type of application.

Low headroom models are available in capacities from 1 to 7.5 tons and are specifically designed for applications requiring minimal hook to beam clearance. Models are available with lug-mounted, plain trolley, hand-geared trolley or motorized trolley suspension.

Floor and Ceiling Mounted Worm Drive hoists are used from a stationary position, such as over a hatchway, a loading dock or in an auditorium. Single, twin hook or multiple hook models with hook spacing up to 40 feet are available.

Chester Trolley Suspended Twin Hook Wire Rope Hoists are designed with dual hooks for special handling applications requiring two point support. With available push / pull, hand geared or motorized trolley suspension they are ideal for lifting and transporting long loads or rolls.

The Chester Wire Rope Hoist design permits adaptation to a wide variety of applications. Variations are available to accommodate special mounting, long lifts, special trolleys and special controls. Please contact your Lifting Specialist with your specific application.

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Electric Wire Rope Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Chester</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>1, 1-1/2, 2, 3, 4, 5, 6, 7-1/2, 10, 15</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>9, 10, 12, 15, 16, 17, 18, 30, 22, 23, 24, 25, 26, 30, 32, 35, 37, 38, 39, 40, 42, 45, 49, 50, 52, 55, 57, 60, 62, 63, 65, 66, 72, 74, 75, 80, 90, 93, 95, 100, 115, 120, 125, 150</td>
</tr>
<tr>
<td>Lifting Speed (ft/min)</td>
<td>10, 15, 16, 20, 21, 30, 32, 33, 40</td>
</tr>
<tr>
<td>Minimum Hook Spacing (inches)</td>
<td>29, 31, 37, 42, 44, 55, 57, 59, 72, 77</td>
</tr>
</tbody>
</table>
| Motor HP and RPM | 2 HP @ 1,200 RPM  
3 HP @ 1,200 RPM  
3 HP @ 1,800 RPM  
4 HP @ 1,200 RPM  
4 HP @ 1,800 RPM  
5 HP @ 1,200 RPM  
5 HP @ 1,800 RPM  
6 HP @ 1,200 RPM  
6 HP @ 1,800 RPM  
7-1/2 HP @ 1,200 RPM  
7-1/2 HP @ 1,800 RPM  
10 HP @ 1,200 RPM  
10 HP @ 1,800 RPM  
15 HP @ 1,200 RPM  
15 HP @ 1,800 RPM |
| Mounting Type | Lug, Plain Trolley, Geared Trolley, Motorized Trolley |

NEED HOIST REPAIR OR PARTS? We do repairs in-house and stock a full line of parts.

J Henry Holland  
Phone: 757-460-3300  
www.jhenryholland.com

Alabama Sling Center  
Phone: 205-744-0230  
www.alabamaslingcenter.com

Tennessee Sling Center  
Phone: 901-345-8918 (Memphis)  
Phone: 423-634-9005 (Chattanooga)  
www.tennesseeslingcenter.com

KCI Crane Service  
Phone: 205-345-4701  
www.kcicraneservice.com

WARNING: SEE WARNING INFORMATION ON PAGES 112 - 121.
**Spacemaster® Wire Rope Hoists**

1/2 to 80 Ton Capacities with 13 to 320-Foot Lifts—Longer lifts are available.

The Spacemaster® SX hoist represents a revolutionary new generation of exceptionally reliable electric wire rope hoists, featuring advanced technology and cutting-edge performance. An innovative design that includes a large drum diameter gives Spacemaster® SX hoists the lowest headrooms and best wheel loads in the industry, while providing near true vertical lifts with single-reeved hoists, and both exceptional hook approaches and heights of lift.

Unique hoist features include new low maintenance, sealed brakes, a two-speed hoist motor and trolley inverter control. The standard hoist nameplate will carry a CSA c/us rating, as well as a NEMA 3R rating for electrical enclosures. Two-component epoxy paint is standard. Spacemaster® SX hoists are designed to meet and exceed either ASME H3 or ASME H4 duty (FEM 1Am, 2m or 3m) ratings and provide the ultimate in easy load handling, safe operation and lasting, trouble-free performance.

Standard electric wire rope hoist configurations include normal headroom, low headroom and double girder trolley designs. Hoists in short ton ratings (ASME) or metric ratings (FEM) meet a wide variety of application requirements:

- 1/2 - 80 ton (500 - 80,000 kg) capacities
- Lifts starting at 13 ft. (4 m) to 320 ft. (100 m) and beyond
- Lifting speed range 10/1.5 to 62/10 fpm (3/0.5 - 19/3 m/min)
- 208, 230, 460, 575/3/60 or 380/3/50 power supply
- Single-reeved or double-reeved

---

**Double Girder Trolley**
Superior clearance and headroom for double girder crane applications.

**Normal Headroom Trolley**
An ideal selection for monorails and jib crane applications. Hardened wheels for patented track applications are also available. (Shown with optional second holding brake)

**Low Headroom Trolley**
The best solution for single girder cranes; its compact design provides maximum space-efficiency.
Spacemaster®
Wire Rope Hoists
(Continued)

EASE OF OPERATION

Large-diameter hoist drum means easy positioning, closer approaches. The larger drum diameter provides near true vertical lift with a single-reeved hoist—only 1/8" drift per foot of lift. The result is exceptionally smooth movement and fast load positioning. This innovative design also means a shorter frame length, allowing closer end approaches.

Hoist and trolley motors designed for space savings and productivity. Standard two-speed hoist motor (6:1 ratio), designed specifically for hoisting applications, offers high-starting torque and ensures precise and reliable load handling.

The hoist motor is class F insulated, 30-minute rated (60% effective duty), thermally protected and totally enclosed.

The trolley motor’s standard inverter control offers two-speed multi-step or infinitely variable speed control for smooth acceleration and deceleration, minimal load swing, fast, efficient handling and accurate load placement.

SAFETY

Standard safety features that competitors don’t offer—or offer at extra cost. An electromechanical load limit switch prevents the lifting of loads that are in excess of 110% of rated capacity. The 4-position hoist limit switch includes an innovative phase mismatch protection circuit that prevents the block from running up and damaging the hoist in the event of phase reversal.

Sealed brakes, hardened ground gears, thermal motor protection, exceptional rope life and ergonomic hook block design with sturdy safety latch contribute to the hoist’s safe operation and increased reliability.

LESS MAINTENANCE

Sealed brakes mean long-term value. Sealed dust-proof brakes on the trolley and hoist motors require little adjustment for over a million cycles, and will last the life of the hoist under normal use.

Trolley design reduces wear on components. The trolley drive is totally enclosed, grease lubricated and designed to be maintenance-free. Trolley wheel bearings are permanently lubricated. The automatic disc brake and inverter control help extend the life of the motor and other components, which means less maintenance, less downtime, lower repair costs—and reduced cost over the lifetime of your hoist equipment.

LONG LIFE

Innovative gearbox provides dependable operation and extends equipment life. The innovative gear case design reduces stress on drum bearings, reducing the need for maintenance, while extending component life. It features hardened and ground internal reduction gears driving an external drum gear located on the inner surface of the rope drum. The gearbox’s semi-fluid grease lubrication also helps to extend its working life. The gear case is designed to run cooler and more efficiently than those equipped with a mechanical load brake.

Larger hoist drum minimizes rope wear and enhances cooling. A drum / rope diameter ratio of approximately 40:1 minimizes rope flex, reducing wear and extending rope life. The drum’s large diameter also contributes to a reduction in frame size and weight, reducing wear on hoist components and enabling the use of more cost-effective crane girders. The unique placement of the hoist motor inside the drum provides directed airflow through the drum for optimal motor cooling. This design also makes the motor and brake more easily accessible.
RHN Series
Electric Wire Rope Hoists

RHN Trolley:
2 to 15 Metric Ton Capacities
with 20, 28, 33 and 46-Foot Lifts

RHN Deck / Base Mounted:
2 to 20 Metric Ton Capacities
with 20 and 33-Foot Lifts

Harrington’s high-performance RHN Series Deck / Base Mounted electric wire rope hoists feature a compact, modular design that is perfect for stationary applications or combined with a double girder trolley for double girder crane systems. The basic design is ideal for hoist retro-fits on existing crane applications.

Features and Benefits:

- **Premium Wire Rope**—Provides high resistance to fatigue and wear.
- **Graphite Cast Iron Rope Guide**—Provides low wear and keeps the rope securely in the groove on the drum.
- **Load Limiter**—Reduces the potential for making hazardous, over-capacity lifts. Overloading the hoist electrically activates the load limiter sensor, making hoist lifting inoperable.
- **Helical Gearing**—Provides maintenance free, smooth and quiet operation.
- **Heavy Duty Electromagnetic Brake**—Totally enclosed and fan cooled to ensure long life. Easy to inspect. One million cycles.
- **Heavy Duty Cylindrical Motor**—Fan cooled (TEFC) with Class F insulation and a ribbed frame for maximum cooling and durability. High protection Class IP55 and positive temperature control (PTC) thermal sensors.
- **Bottom Block Sheaves**—Cast iron for increased wire rope life.
- **Rope Drum**—Designed for durability and long service life.
- **Adjustable Geared Limit Switch**—Operation of switch set for upper and lower block position and emergency limit.
- **Motor Management**—Equipped with overload cut-off and count hour meter.
- **Block Operated Limit Switch**—Standard equipment. Secondary limit in case the primary limit fails. Meets requirements of ASME.

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Electric Wire Rope Hoist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Harrington</td>
</tr>
<tr>
<td>Capacity (tons)</td>
<td>2, 3, 5, 7.5, 10, 15</td>
</tr>
<tr>
<td>Lift (feet)</td>
<td>20, 33, 28, 46</td>
</tr>
<tr>
<td>Hoist Model</td>
<td>RHN Trolley</td>
</tr>
<tr>
<td>Lifting Speed (Dual) (ft/min)</td>
<td>20/3.5 12/2.0</td>
</tr>
</tbody>
</table>

** NEED HOIST REPAIR OR PARTS?**

We do repairs in-house and stock a full line of parts.
The Dynex Monorail Hoist

3 to 15 Ton Capacities

Detroit Hoist has engineered and manufactured wire rope hoists and crane components since 1905 in Michigan. Many of the nation’s leading companies were early customers of Detroit Hoist and still maintain that same relationship today.

Detroit Hoist is committed to providing our customers the highest quality, state-of-the-art hoists and crane components available in the market today.

Ongoing research and development continues to yield remarkable innovations and provide our customers with the correct product to safely and economically handle their loads.

Features and Benefits:

■ True Vertical Lift
■ Mechanical Load Brake
■ Open Loop Vector Controls with Full Dynamic Braking
■ Dual Direct Drive Trolley Motors
■ NEMA 4 Enclosures
■ Hardened Wheels to 615 bhn
■ Continuous Overload Monitor
■ Continuous Over Speed Protection
■ Continuous Thermal Protection
■ Programmable Operational Upper and Lower Limits
■ Paddle Type Upper E-Stop

Options Available:

■ Pneumatic Motors
■ Most All Hazardous Location Classification
■ Spark Resistant Features
■ Closed Loop Control
■ Extended Flange Adjustment up to 26” for Monobox Cranes

NEED HOIST REPAIR OR PARTS?
We do repairs in-house and stock a full line of parts.

Call your local Lifting Specialist for product specifications.
Built-Up Hoists

Components and Details of Built-Up Hoists

Hoist Reducer
- Housing – horizontal split, all steel fabricated housing, stress-relieved, machined, foot mounted, over-sized inspection cover.
- Shafting – SAE 4340 high alloy steel, through hardened.
- Gearing – All helical, AGMA diametral pitches, full fillet, 25 degree pressure angles, SAE 4140 high alloy steel, through hardened, 35/44 RC.
- Bearings – Double row spherical, self-aligning, minimum 15,000 hour L10 bearing life based on CMAA requirements.
- Bearing Capsules – all bearings are housed in their own steel capsules.
- Seals – Taconite style seals (double seals) on input and output running against a carburized and ground seal sleeve.
- Lubrication – ISO VG220 gear oil.
- Sight Gages – Included.
- Drain Valves – Included.
- Breathers – Canister type.

Drum Couplers
- Construction – Gear type coupling, AIST compliant.
- Service Factor – 1.75 minimum.
- Mounting – Flange mounted into a counter-bore machined into the drum flange.

Cable Drums
- Construction – All steel construction, flanges and drum are machined to a close tolerance fit between members. Flanges are locked onto the drum tube and then completely welded together.
- Flanges – Pre-machined for location during welding, final machined after welding to eliminate distortion created during the welding process.
- Shaft – Low carbon, low alloy shaft material is used to insure a fatigue resistant weld and eliminate the need for complicated and procedurally sensitive welding procedures. Shaft is machined after welding is complete.
- Grooving – Standard 3/8 depth, 125 micro-inch finish or better, 1/2 or full depth grooving also available – Heat treated grooves available as an option.
- Cable Clamps – Formed steel pieces, double bolted, machined to fit.

Hoist Holding Brake
- Construction – AC Thruster, Industrial Duty shoe type, other types are available upon request.
- Torque – 150% motor torque as a standard.
- Brake Wheel – Ductile iron, completely machined and balanced.

Upper Limit Switches
- Construction – 1686, weighted type.
- Mounting – Mounted to the top of the trolley deck.
Work-Rated Hoists

Four frame sizes in capacities from 1 to 25 tons.

Cross-mounted close-headroom hoists from Wright®. Close-headroom allows for ultimate flexibility in material handling.

Compare these features:

- H-4 Duty Classification (ASME HST-4M)
- Machine cut, case hardened, alloy steel gears
- Largest oil bath in the industry
- Overload cutoff
- Mechanical load brake
- U.S. manufactured motors
- Motor thermostats
- Disc type motor brake
- Easy maintenance of gears
- Machined steel sheaves

Speedway Hoists

Capacities of 1 to 5 tons. Long lifts up to 107 feet. High speeds up to 40 FPM.

Low cost, rugged and dependable smaller capacity hoists for production work. Designed for operating 30 minutes each hour with a maximum of 300 starts an hour.

Compare these features:

- H-3 Duty Classification (ASME HST-4M)
- Machine cut, case hardened, alloy steel gears
- Largest oil bath in the industry
- Mechanical load brake
- U.S. manufactured motors
- Motor thermostats
- Disc-type motor brake
- Easy maintenance of gears
- Machined steel sheaves
Worm Gear Hand Winches

Lift or pull up to 4,000 lbs. with a worm gear hand winch from Thern. Their machine-cut worm gears provide accurate operation and years of trouble-free service. Worm gear hand winches are available in multiple configurations and performance ratings designed to keep things moving safely and efficiently.

Features and Benefits:

- Machine Cut Worm Gears provide accurate operation and long lasting service.
- Hex drive and handle are included. Model 4WM2 can be power driven with a maximum 400 rpm drill-motor.
- Enclosed Oil Bath provides continuous lubrication of gears to minimize wear, except on Model 465. On Model 4WM2, oil seals keep oil in and dirt out.
- Automatic Brake Models provide positive load control for lifting. Brake models have a PB or B suffix. Model 4WM2 features an internal mechanical brake.
- Corrosion resistant durable paint finish protects against corrosion in harsh environments.
- Bronze bearings on most models for smooth operation.
- Large diameter drums minimize wire rope wear.
- Handle lengths are adjustable to change force required to move the load.
- Mounting options include floor, wall or ceiling. Add 10% for factory modification for wall or ceiling mount, adapter plate may be required.
- Wire rope assemblies are sold separately.
- 2-Year Limited Warranty
Portable Power Winches

Move up to 2,000 lbs. with confidence using a portable power winch from Thern. Constructed of cast aluminum, these lightweight winches are designed to deliver the muscle where and when you need it—on the construction site, in the mines, at the wastewater treatment plant, even in aerospace facilities.

Thern portable power winches are available in either worm gear or worm / helical gear configurations to efficiently raise, lower and pull loads weighing up to 1 ton. We also offer a variety of options to meet the needs of your unique application.

Features and Benefits:

- Machine cut worm gears for accurate operation and long lasting service.
- Enclosed oil bath provides continuous lubrication of gears to minimize wear.
- 115 Volt Single Phase Electric Motor includes power cord with grounded plug, and a momentary contact-type push-button pendant control on a control cord.
- Oil seals keep oil in and dirt out.
- Internal mechanical brake provides positive load control for lifting and lowering operations.
- Ball Bearings and self-aligning bronze bearings provide smooth and efficient operation.
- Corrosion Resistant durable paint finish protects against corrosion in harsh environments.
- Pressure Plate applies pressure to drum and wire rope to help maintain uniform winding. Included in standard Atlas Construction Winches.
- Large Diameter Drums minimize wear to the wire rope and help extend its life.
- Dual Function Cable Anchor for quick disconnect of wire rope with swagged ball fitting, or recessed cable anchor with set screw for wire rope with unfinished end.
- Clutch Models allow operator to manually disengage the drum to rapidly unwind wire rope. Clutch models do not include pressure plates.
- Accessory Options include limit switches, cable pressure plates, torque limiting controls and emergency handles for manual operation.
- Mounting options include floor, wall and ceiling.
- Wire rope assemblies are sold separately

WARNING SEE WARNING INFORMATION ON PAGES 112 - 121.
**Heavy-Duty Power Winches For Up to 76,000 lbs**

Durable and dependable, Thern heavy-duty power winches are built to handle tough industrial jobs year after year. When you have a really tough job, Thern heavy-duty power winches are rugged and reliable. From raising and lowering HVAC equipment to positioning barges, these winches have the capacity to lift or pull tough loads up to 76,000 lbs. (38 tons).

Each of Thern’s heavy-duty power winches are available in a number of standard configurations, which can be quickly and affordably modified to create the ideal winch for your application.

**Features and Benefits:**

- TEFC brake motors, enclosed machine-cut gearing and self-aligning flange style ball bearings.
- Worm gears and spur gears are hardened for durability.
- Drum includes outside flange anchors to allow uniform winding and help extend wire rope life.
- Fabricated frame captures both ends of drum shaft for added security, and is easily altered for modified drum widths.
- Clutch option allows the drum to freewheel for rapid pay out of wire rope. Use clutch models for horizontal pulling only.
- Standard winch is designed for base mounting or is easily altered for wall or ceiling installation.

Custom modifications available for Thern heavy-duty power winches include grooved drums, special drum lengths and diameters, limit switches, roller pressure bars and special finishes. Pneumatic, hydraulic and alternate motor voltages are also available. For more information on other options available for an industrial, heavy-duty power winch, contact your local Lifting Specialist.

---

**WARNING**
SEE WARNING INFORMATION ON PAGES 112 - 121.
Engineering Information

Anchor Wraps

The first 3 to 4 wraps of wire rope must remain on the drum at all times to act as anchor wraps and help secure the wire rope to the drum. The length of wire rope used for anchor wraps must be added to the total travel distance to determine the length of the wire rope needed for the application.

\[ a = \text{length of anchor wraps in feet} \]
\[ a = \left( \left( D + d \right) \times \pi \times N \right) + 12 \]

\[ D = \text{diameter of drum in inches} \]
\[ d = \text{diameter of wire rope in inches} \]
\[ \pi = 3.14 \]
\[ N = \text{number of anchor wraps (3 to 4), or if entire first layer} \]
\[ N = \left( \text{drum width} / d \right) \]

\[ L = \text{Total Length of Wire Rope} = T + A + a \]
\[ T = \text{maximum distance load will travel} \]
\[ A = \text{distance between drum and lead sheave to maintain fleet angle.} \]
\[ a = \text{length of anchor wraps in feet} \]

Two Part Line

In some applications, a two-part line can be used to effectively increase the size of load the winch can move. A two-part line reduces tension in the wire rope, it does not change the weight of the load. All equipment supporting the load, such as sheave blocks, must be rated for the full size of the load.

As the number of rigging lines increase, line pull and line speed decrease. Friction in the system also affects performance. As the number of rigging lines increase, friction also increases.

Drum Capacity

Full drum capacity is typically calculated using the formula shown below. This formula is based on the practices of wire rope manufacturers and assumes uniform winding of the wire rope. In actual practice, drum capacities may be 25-30% less than the values given by this formula due to uneven spacing, loose winding and overlapping.

Drum capacity often determines the winch you select. Most power winches can be equipped with different sizes of wire rope. Larger diameter wire ropes will decrease drum capacity, smaller diameter wire ropes will increase drum capacity.

\[ L = \text{Drum capacity in feet} = (A + D) \times A \times B \times K \]
\[ K = \text{factor from the table} \]
\[ A = (H - D - 2Y) / 2 \]
\[ Y = \text{clear distance between edge of flange and wire rope (usually 1/2").} \]

<table>
<thead>
<tr>
<th>Wire Rope Diameter (in.)</th>
<th>K Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8</td>
<td>13.6</td>
</tr>
<tr>
<td>3/16</td>
<td>6.14</td>
</tr>
<tr>
<td>7/32</td>
<td>4.59</td>
</tr>
<tr>
<td>1/4</td>
<td>3.29</td>
</tr>
<tr>
<td>5/16</td>
<td>2.21</td>
</tr>
<tr>
<td>3/8</td>
<td>1.58</td>
</tr>
<tr>
<td>7/16</td>
<td>1.19</td>
</tr>
<tr>
<td>1/2</td>
<td>0.925</td>
</tr>
<tr>
<td>9/16</td>
<td>0.741</td>
</tr>
<tr>
<td>5/8</td>
<td>0.607</td>
</tr>
<tr>
<td>3/4</td>
<td>0.428</td>
</tr>
<tr>
<td>7/8</td>
<td>0.308</td>
</tr>
<tr>
<td>1</td>
<td>0.239</td>
</tr>
<tr>
<td>1-1/8</td>
<td>0.191</td>
</tr>
<tr>
<td>1-1/4</td>
<td>0.152</td>
</tr>
<tr>
<td>1-3/8</td>
<td>0.127</td>
</tr>
</tbody>
</table>

Contact your local Lifting Specialist for more information.
Engineering Information (Continued)

Fleet Angle

Fleet angle is the angle between the wire rope and an imaginary line extending perpendicular to the drum. The fleet angle varies with the distance between the lead sheave and the drum. The proper fleet angle helps the wire rope to wind evenly onto the drum, and helps to reduce wear to the wire rope, drum and lead sheave. Too large a fleet angle will cause the wire rope to wind loosely, overlap and possibly jump the flange and cause severe damage to the equipment. A maximum fleet angle of 1-1/2° for smooth drums, and 2° for grooved drums, helps the wire rope wind uniformly.

Distance A in ft

= for 1.5° fleet angle = (drum width in inches) x 1.59
= for 2° fleet angle = (drum width in inches) x 1.19

Recommended Max. Fleet Angle
smooth drum = 1.5°
grooved drum = 2°

Formulas

\[ H = \frac{P \times \text{rpm}}{33000 \times E} \]

\[ P = \frac{\text{HP} \times 33000 \times E}{\text{rpm}} \]

\[ \text{rpm} = \frac{0.262 \times \text{rpm} \times D}{3.82 \times \text{rpm}} \]

\[ \text{hp} = \text{horsepower} \]

\[ \text{P} = \text{line pull} \]

\[ \text{E} = \text{efficiency of gears} \]

\[ \text{fpm} = \text{line speed in feet per minute} \]

\[ \text{rpm} = \text{drum speed in revolutions per minute} \]

\[ \text{D} = \text{diameter of drum in inches at point of line entrance} \]

Rail Car Pulling Calculations

Line pull must be calculated by accounting for track curvature, track slope and ambient temperature. Line pull may be roughly estimated from the tables and diagrams on this page, assuming the track is smooth, clean and in good condition, and rail car wheels are well lubricated.

We recommend that you have your rail car pulling application carefully reviewed by the factory or a qualified sales person before selecting a winch.

**Line Pull Required Based on Temperature Effect (lb/ton)**

<table>
<thead>
<tr>
<th>Ambient Temp. Below 32° F</th>
<th>Ambient Temp. Above 32° F</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>18</td>
</tr>
</tbody>
</table>

**Line Pull Required Based on Curvature & Slope (lb/ton)**

<table>
<thead>
<tr>
<th>Track Curvature</th>
<th>Track Grade</th>
<th>Ambient Temp. Below 32° F</th>
<th>Ambient Temp. Above 32° F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radius of Curve</td>
<td>Degree of Curve</td>
<td>Chordal Distance A</td>
<td>Percent of Rise</td>
</tr>
<tr>
<td>0 ft</td>
<td>0°</td>
<td>0 ft</td>
<td>0%</td>
</tr>
<tr>
<td>1146 ft</td>
<td>5°</td>
<td>3-1/2 in</td>
<td>5%</td>
</tr>
<tr>
<td>573 ft</td>
<td>10°</td>
<td>6-1/2 in</td>
<td>10%</td>
</tr>
<tr>
<td>388 ft</td>
<td>15°</td>
<td>9-3/4 in</td>
<td>15%</td>
</tr>
<tr>
<td>288 ft</td>
<td>20°</td>
<td>12 in</td>
<td>20%</td>
</tr>
<tr>
<td>231 ft</td>
<td>25°</td>
<td>16-1/2 in</td>
<td>25%</td>
</tr>
<tr>
<td>166 ft</td>
<td>30°</td>
<td>20 in</td>
<td>30%</td>
</tr>
<tr>
<td>146 ft</td>
<td>35°</td>
<td>23-1/2 in</td>
<td>35%</td>
</tr>
<tr>
<td></td>
<td>40°</td>
<td>27 in</td>
<td>40%</td>
</tr>
</tbody>
</table>

Line pull shown is for each 2000 lb of total gross load weight.

**Example:** 2 loaded rail cars weighing 120 gross tons each are pulled 800 ft on a track with a curvature of 5° and a slope of 2%. The track is in good clean condition, wheels are well lubricated, and the ambient temperature is frequently below 32° Fahrenheit.

**From Table 1:** line pull required based on temperature effect = 21 lb/ton (factor 1)

**From Table 2:** line pull required based on curvature and slope = 45 lb/ton (factor 2)

**Total Line Pull Calculation (Running Pull):**

(gross weight per car) x (number of cars) x (factor 1 + factor 2) = total line pull

800 ft of travel puts us at mid drum: 4HS16M mid drum running line pull = 11,000 lb

This application would require a 4HS26M (mid drum running line pull = 19,000 lb)
Worm Gear Wall Mount

Seven Rugged Sizes—Line pulls from 550 lbs. (250 kg) to 11,000 lbs. (5,000 kg). Higher-capacity models are equipped with two-speed gearing for ease in handling heavy loads.

Removable Handle—Prevents tampering if the operator must leave the winch under load.

Bearings—Effective use of needle roller bearings and bushings minimizes friction, ensures ease of operation, smooth running, increased life and minimum cranking effort.

<table>
<thead>
<tr>
<th>Model</th>
<th>Load Limit (lbs.)</th>
<th>Rope Diameter (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GW 550</td>
<td>550</td>
<td>3/16</td>
</tr>
<tr>
<td>GW 1100</td>
<td>1100</td>
<td>1/4</td>
</tr>
<tr>
<td>GW 2200</td>
<td>2200</td>
<td>3/8</td>
</tr>
<tr>
<td>GW 3300</td>
<td>3300</td>
<td>7/16</td>
</tr>
<tr>
<td>GW 4400</td>
<td>4400</td>
<td>1/2</td>
</tr>
<tr>
<td>GW 6600</td>
<td>6600</td>
<td>5/8</td>
</tr>
<tr>
<td>GW 11000</td>
<td>11000</td>
<td>3/4</td>
</tr>
</tbody>
</table>

Wall Mount Spur Gear

High Efficiency—Leading-edge design reduces cranking effort.

Compact—Space-saver profile and fold-back crank are ideal for installation and operation in confined spaces.

Bearings—Effective use of needle roller bearings and bushings minimizes friction, ensures ease of operation, smooth running, increased life and minimum cranking effort.

<table>
<thead>
<tr>
<th>Model</th>
<th>Load Limit (lbs.)</th>
<th>Rope Diameter (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS 275</td>
<td>275</td>
<td>1/8</td>
</tr>
<tr>
<td>GS 660</td>
<td>660</td>
<td>3/16</td>
</tr>
<tr>
<td>GS 1100</td>
<td>1100</td>
<td>1/4</td>
</tr>
<tr>
<td>GS 2200</td>
<td>2200</td>
<td>3/8</td>
</tr>
<tr>
<td>GS 4400</td>
<td>4400</td>
<td>1/2</td>
</tr>
</tbody>
</table>

Aluminum Wall Mount

Lightweight, tough and easy to install.

Rope off at any angle

Winch can be mounted in any position to allow the rope to come off at any angle.

Removable Handle—Prevents tampering if the operator must leave the winch under load.

<table>
<thead>
<tr>
<th>Model</th>
<th>Load Limit (lbs.)</th>
<th>Rope Diameter (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMA 175</td>
<td>175</td>
<td>1/8</td>
</tr>
<tr>
<td>WMA 275</td>
<td>275</td>
<td>1/8</td>
</tr>
</tbody>
</table>

Stainless Steel Console Mount

Stainless Steel—Corrosion resistant in hostile environments and ideal in hygienic applications, such as food processing and pharmaceutical manufacturing.

Lightweight—For easy handling and installation.

High Efficiency—Leading-edge design reduces cranking effort. A minimum load of 110 lbs. is required for proper brake function.

<table>
<thead>
<tr>
<th>Model</th>
<th>Load Limit (lbs.)</th>
<th>Rope Diameter (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMS 1450</td>
<td>659</td>
<td>1/4</td>
</tr>
<tr>
<td>CMS 2200</td>
<td>1000</td>
<td>5/16</td>
</tr>
</tbody>
</table>
Center Flange Wall Mount

Two ropes can be operated simultaneously. Drums have a center flange and rope anchors at each end.

* **Note:** Working Load Limit is per rope 1st layer.

**Seven Rugged Sizes**—Line pulls from 550 lbs. (250 kg) to 11,000 lbs. (5,000 kg).

**Two Speeds**—Higher-capacity models are equipped with two-speed gearing for ease in handling heavy loads. Effective use of needle roller bearings and bushings minimizes friction, ensures ease of operation, smooth running, increased life and minimum cranking effort.

<table>
<thead>
<tr>
<th>Model</th>
<th>Load Limit (lbs.)</th>
<th>Rope Diameter (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GWF 550</td>
<td>2 x 275</td>
<td>5/32</td>
</tr>
<tr>
<td>GWF 1100</td>
<td>2 x 550</td>
<td>3/16</td>
</tr>
<tr>
<td>GWF 2200</td>
<td>2 x 1100</td>
<td>1/4</td>
</tr>
<tr>
<td>GWF 3300</td>
<td>2 x 1650</td>
<td>9/16</td>
</tr>
<tr>
<td>GWF 4400</td>
<td>2 x 2200</td>
<td>3/8</td>
</tr>
<tr>
<td>GWF 6600</td>
<td>3 x 3300</td>
<td>7/16</td>
</tr>
<tr>
<td>GWF 11000</td>
<td>2 x 5500</td>
<td>9/16</td>
</tr>
</tbody>
</table>

**Free Spooling**

**Aluminum**—Lightweight for easy handling and installation.

**Free Spooling**—Ideal for getting rope out quickly under no-load conditions.

**Totally Enclosed Gears**—A sealed oil bath ensures constant lubrication and quiet operation.

**Compact**—Space-saver profile is ideal for installation and operation in confined spaces.

<table>
<thead>
<tr>
<th>Model</th>
<th>Load Limit (lbs.)</th>
<th>Rope Diameter (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMC 1600</td>
<td>1600</td>
<td>1/4</td>
</tr>
<tr>
<td>CMC 2400</td>
<td>2400</td>
<td>5/16</td>
</tr>
</tbody>
</table>

**Worm Sealed Gear**

**High Rope-to-Drum Ratio**—Rope life is substantially increased with drum diameters a minimum of 20 times the diameter of the rope.

**Designed for Heavy Duty Use**—Line pulls range from 550 lbs. (250 kg) to 1650 lbs. (750 kg).

**Removable Handle**—Prevents tampering if the operator must leave the winch under load.

<table>
<thead>
<tr>
<th>Model</th>
<th>Load Limit (lbs.)</th>
<th>Rope Diameter (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSG 550</td>
<td>550</td>
<td>3/16</td>
</tr>
<tr>
<td>WSG 1100</td>
<td>1100</td>
<td>1/4</td>
</tr>
<tr>
<td>WSG 1650</td>
<td>1650</td>
<td>7/16</td>
</tr>
</tbody>
</table>

**Controlled Free Fall**

By simply pushing the handle back in the reverse direction, the winch will pay out at a controlled speed.

A centrifugal dynamic brake is incorporated to govern maximum speed and to prevent overspeeding of the load. This unique braking system also prevents the winch handle from recoiling.

**High Rope-to-Drum Ratio**—Rope life is substantially increased with drum diameters a minimum of 20 times the diameter of the rope.

<table>
<thead>
<tr>
<th>Model</th>
<th>Load Limit (lbs.)</th>
<th>Rope Diameter (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFF 550</td>
<td>660</td>
<td>3/16</td>
</tr>
<tr>
<td>CFF 1100</td>
<td>1100</td>
<td>1/4</td>
</tr>
<tr>
<td>CFF 2200</td>
<td>2200</td>
<td>3/16</td>
</tr>
<tr>
<td>CFF 3300</td>
<td>3300</td>
<td>7/16</td>
</tr>
</tbody>
</table>
Heavy-Duty Hauling Winches

Winch Drums—Drums are steel fabricated and designed to specific loading capacity. Drums are sized according to ASME B30.7.2006 to provide a minimum pitch diameter of 18 times the nominal rope diameter.

Direct Drive—A simple, direct-drive design increases the efficiency of the winch and eliminates drive chains or bull gears to maximize power output.

Any Position—An open-base design permits mounting in horizontal or vertical positions. Loads can be pulled through the base itself, which is particularly useful in limited-space installations.

All Ball & Roller Bearings—Friction load loss is reduced to a minimum through the use of ball and roller bearings. No bushings means higher efficiency and more power for pulling.

Power In - Power Out—For added safety, all winches are fully reversible. This gives the operator complete control of the winch load in both directions at all times.

Gear Reducers—All Jeamar hauling winches have high-efficiency helical gear reducers plus high-capacity, anti-friction bearings for long life, low noise and high output torque.

Breaking Systems—The full range of Jeamar's heavy-duty hauling winches are available with 3-phase motors in any standard voltage at 50 or 60 Hz.

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor HP (1 Phase)</th>
<th>Motor HP (3 Phase)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHS 550</td>
<td>1/2</td>
<td>–</td>
</tr>
<tr>
<td>NHS 1100</td>
<td>1</td>
<td>–</td>
</tr>
<tr>
<td>NHS 1900</td>
<td>1-1/2</td>
<td>1/2</td>
</tr>
<tr>
<td>NHT 550</td>
<td>–</td>
<td>1</td>
</tr>
<tr>
<td>NHT 1100</td>
<td>–</td>
<td>2</td>
</tr>
<tr>
<td>NHT 1900</td>
<td>–</td>
<td>3</td>
</tr>
<tr>
<td>NHT 2800</td>
<td>–</td>
<td>3</td>
</tr>
<tr>
<td>NHT 4000</td>
<td>–</td>
<td>5</td>
</tr>
<tr>
<td>NHT 5800</td>
<td>–</td>
<td>7/12</td>
</tr>
<tr>
<td>NHT 7500</td>
<td>–</td>
<td>7/12</td>
</tr>
<tr>
<td>NHT 9000</td>
<td>–</td>
<td>10</td>
</tr>
<tr>
<td>NHT 11000</td>
<td>–</td>
<td>12-1/2</td>
</tr>
<tr>
<td>NHT 15000</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>NHT 17000</td>
<td>–</td>
<td></td>
</tr>
</tbody>
</table>

Heavy-Duty Lifting Winches

Winch Drums—Drums are steel fabricated and designed to specific loading capacity. Drums are sized according to ASME B30.7.2006 to provide a minimum pitch diameter of 15 times the nominal rope diameter.

Direct Drive—A simple, direct-drive design increases the efficiency of the winch and eliminates drive chains or bull gears to maximize power output.

Any Position—An open-base design permits mounting in horizontal or vertical positions. Loads can be pulled through the base itself, which is particularly useful in limited-space installations.

All Ball & Roller Bearings—Friction load loss is reduced to a minimum through the use of ball and roller bearings. No bushings means higher efficiency and more power for pulling.

Power In - Power Out—For added safety, all winches are fully reversible. This gives the operator complete control of the winch load in both directions at all times.

Electric Motors—The full range of Jeamar's heavy duty lifting winches are available with 3-phase motors in any standard voltage at 50 or 60 Hz. Single-phase units are available on loads up to 2000 lbs.

Gear Reducers—All Jeamar lifting winches utilize high-efficiency helical worm or worm gear reducers plus high-capacity, anti-friction bearings for long life, low noise and high output torque.

Breaking Systems—Standard on all heavy-duty lifting winches, the electromagnetic brake is a disc-type that is activated automatically in the event of a power interruption. The brake will stop the winch and hold the load securely.
Heavy-Duty Air Hauling

Winch Drums—Drums are steel fabricated and designed to specific loading capacity. Drums are sized according to ASME B30.7.2006 to provide a minimum pitch diameter of 15 times the nominal rope diameter.

Direct Drive—A simple, direct-drive design increases the efficiency of the winch and eliminates drive chains or bull gears to maximize power output.

Any Position—An open-base design permits mounting in horizontal or vertical positions. Loads can be pulled through the base itself, which is particularly useful in limited-space installations.

Ball & Roller Bearings Throughout—Friction load loss is reduced to a minimum through the use of ball and roller bearings. No bushings means higher efficiency and more power for pulling.

Power In - Power Out—For added safety, all winches are fully reversible. This gives the operator complete control of the winch load in both directions at all times.

Gear Reducers—All Jeamar air winches have high-efficiency helical reducers plus high-capacity, anti-friction bearings for long life, low noise and high-output torque. Totally enclosed reducers make them weatherproof.

Air Motors—Jeamar air motors are fully reversible vane-type. Positive starting and precise control are central features of the motors, which have been designed for long life and low-cost operation. They can be stalled indefinitely under load without harm to the motor. Note that when moving loads on an incline, it is essential that a brake be used.

Control Valves—Control valves feature proportional flow with spring return to neutral for “deadman” operation. Valves control the winch speed by varying air flow to the motor. With the control released, air flow is cut off, stopping the winch. Controls are supplied loose to allow for mounting that is appropriate to the application.

<table>
<thead>
<tr>
<th>Model</th>
<th>1st Load Limit (lbs.)</th>
<th>Power HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHA 550</td>
<td>550</td>
<td>.42</td>
</tr>
<tr>
<td>NHA 1100</td>
<td>1100</td>
<td>.96</td>
</tr>
<tr>
<td>NHA 1900</td>
<td>1900</td>
<td>1.58</td>
</tr>
<tr>
<td>NHA 2800</td>
<td>2800</td>
<td>2.4</td>
</tr>
<tr>
<td>NHA 4000</td>
<td>4000</td>
<td>2.7</td>
</tr>
<tr>
<td>NHA 5800</td>
<td>5800</td>
<td>4.6</td>
</tr>
<tr>
<td>NHA 7500</td>
<td>7500</td>
<td>5.4</td>
</tr>
</tbody>
</table>

Heavy-Duty Air Lifting

Winch Drums—Drums are steel fabricated and designed to specific loading capacity. Drums are sized according to ASME B30.7.94 to provide a minimum pitch diameter of 15 times the nominal rope diameter.

Direct Drive—A simple, direct-drive design increases the efficiency of the winch and eliminates drive chains or bull gears to maximize power output.

Any Position—An open-base design permits mounting in horizontal or vertical positions. Loads can be pulled through the base itself, which is particularly useful in limited-space installations.

Ball & Roller Bearings Throughout—Friction load loss is reduced to a minimum through the use of ball and roller bearings. No bushings means higher efficiency and more power for pulling.

Power In - Power Out—For added safety, all winches are fully reversible. This gives the operator complete control of the winch load in both directions at all times.

High Service Factors—Jeamar winches are designed and manufactured for continuous, heavy-duty operation with a minimum service factor of 1 (one).

Gear Reducers—All Jeamar air winches have high-efficiency helical reducers plus high-capacity, anti-friction bearings for long life, low noise and high-output torque. Totally enclosed reducers make them weatherproof.

Air Motors—Jeamar air motors are fully reversible vane-type. Positive starting and precise control are central features of the motors, which have been designed for long life and low-cost operation. They can be stalled indefinitely under load without harm to the motor.

Control Valves—Control valves feature proportional flow with spring return to neutral for “deadman” operation. Valves control the winch speed by varying air flow to the motor. With the control released, air flow is cut off, stopping the winch. Controls are supplied loose to allow for mounting that is appropriate to the application.

<table>
<thead>
<tr>
<th>Model</th>
<th>1st Load Limit (lbs.)</th>
<th>Power HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>NLA 400</td>
<td>400</td>
<td>.4</td>
</tr>
<tr>
<td>NLA 900</td>
<td>900</td>
<td>1</td>
</tr>
<tr>
<td>NLA 1400</td>
<td>1400</td>
<td>1.48</td>
</tr>
<tr>
<td>NLA 2000</td>
<td>2000</td>
<td>2</td>
</tr>
<tr>
<td>NLA 2800</td>
<td>2800</td>
<td>2.9</td>
</tr>
<tr>
<td>NLA 3800</td>
<td>3800</td>
<td>3.8</td>
</tr>
<tr>
<td>NLA 5000</td>
<td>5000</td>
<td>4.3</td>
</tr>
</tbody>
</table>
Capstan Winches

Direct Drive—A direct-drive design increases the efficiency of the winch and eliminates drive chains or bull gears to maximize power output.

Any Angle—The rope can leave the drum at any angle, enabling the operator to stand in the most appropriate, out-of-line-of-sight location. For safety, the load line shall be the bottom wrap on the capstan head and the lead line going to the operator will be the top wrap of the drum.

Gear Reducers—All Jeamar capstan winches utilize high-efficiency worm, helical, helical-worm or helical-bevel reducers, plus high-capacity, anti-friction bearings designed for long life, low noise and higher output torque.

High Starting Loads—High-starting-torque, 3-phase motors are available in all standard voltages at 50 & 60 Hz. These motors are suited to railcar pulling where momentary overloads occur when a railcar is started in motion. Single-phase motors at 115-230 volts at 50 and 60 Hz are available as an option on some models.

Options—Foot switches, Air powered, Hydraulic powered and Explosion Proof are just some the options available.

<table>
<thead>
<tr>
<th>Model</th>
<th>1st Load Limit (lbs.)</th>
<th>Power HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>VC 2000-26</td>
<td>2000</td>
<td>1.5</td>
</tr>
<tr>
<td>VC 5000-30</td>
<td>5000</td>
<td>3</td>
</tr>
<tr>
<td>VC 5000-45</td>
<td>5000</td>
<td>5</td>
</tr>
<tr>
<td>VC 8000-13</td>
<td>8000</td>
<td>5</td>
</tr>
<tr>
<td>VC 8000-30</td>
<td>8000</td>
<td>5</td>
</tr>
<tr>
<td>VC 12000-17</td>
<td>12000</td>
<td>5</td>
</tr>
<tr>
<td>VC 18000-17</td>
<td>18000</td>
<td>7.5</td>
</tr>
<tr>
<td>VC 22000-17</td>
<td>22000</td>
<td>10</td>
</tr>
</tbody>
</table>

WARNING SEE WARNING INFORMATION ON PAGES 112 - 121.
Griphoist

Increase the capacity of the GRIPHOIST-TIRFOR

The lifting and pulling power of GRIPHOIST-TIRFOR winches can be greatly increased by the use of multiple sheave blocks. These can increase the nominal capacity of the GRIPHOIST-TIRFOR machine by 2, 3 or 4 times or more (see diagram below). For most applications, an allowance must be made for friction in the sheaves. Ensure that the capacity of the blocks, fittings and anchor points are suitable for the load. When using the GRIPHOIST-TIRFOR for pulling purposes, it should be remembered that the necessary pulling effort is not equal to the weight of the load to be moved. It should be calculated.

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Capacity (lbs.)</th>
<th>Weight (lbs.)</th>
<th>Dimensions (in.)</th>
<th>Special Wire Rope</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Machine</td>
<td>Wire Rope</td>
<td>Machine</td>
</tr>
<tr>
<td>TU-17</td>
<td>2,000 * / 1,500 **</td>
<td>18.5</td>
<td>30 ft. / 9 m</td>
<td>20-3/4 x 9-3/4 x 4-1/2</td>
</tr>
<tr>
<td>TU-28</td>
<td>4,000 * / 3,000 **</td>
<td>41</td>
<td>60 ft. / 18 m</td>
<td>26 x 13 x 5-3/4</td>
</tr>
<tr>
<td>TU-32</td>
<td>8,000 * / 6,000 **</td>
<td>59.5</td>
<td>30 ft. / 9 m</td>
<td>27 x 13 x 6-1/8</td>
</tr>
<tr>
<td>T-508</td>
<td>2,000 *</td>
<td>14.25</td>
<td>30 ft. / 19 m</td>
<td>16-1/2 x 9-7/8 x 3-7/8</td>
</tr>
<tr>
<td>T-516</td>
<td>4,000 *</td>
<td>30</td>
<td>60 ft. / 18 m</td>
<td>20-7/8 x 12-7/16 x 5</td>
</tr>
<tr>
<td>T-532</td>
<td>8,000 *</td>
<td>51</td>
<td>30 ft. / 9 m</td>
<td>24-7/16 x 14 x 5-1/8</td>
</tr>
</tbody>
</table>

* Capacity for material handling
** Capacity for manriding

WARNING
SEE WARNING INFORMATION ON PAGES 112 - 121.
Griphoist (Continued)

Applications

Construction, Public Works & Civil Engineering
- Moving and positioning formwork horizontally or vertically
- Positioning sections of precast concrete beams
- Lifting work platforms or suspended working platforms,
- Dragging, general lifting, guy rope tensioning, etc.

Pipelaying & Jointing
- Positioning of pipes for welding and jointing
- Laying concrete pipes and pulling them together
- Underwater pipeline assembly

Bridges
- Positioning formwork
- Guy rope tensioning
- Pulling pre-cast concrete beams
- Suspending inspection and maintenance platforms

Steel Structures
- Plumbing or aligning steel structures
- Erecting steel silos

Industry
- Installation and removal of machine tools and presses
- Loading and unloading of heavy equipment
- Lifting and pulling during maintenance operations

Escalators & Elevators
- Loading, unloading and rigging of prefabricated escalators
- Lifting and positioning the cars and hoisting mechanisms

Electricity & Telecommunications
- Positioning transformers
- Erection of mobile aerials and antennas
- Tensioning underground and overhead cables
- Guy rope tensioning operations

Oil & Chemical Industries
- Controlled positioning and assembly of pipes and dueling
- Tensioning guy ropes for silos and tanks during construction
- Inspection and maintenance work

Mines & Quarries
- Handling and positioning equipment and underground machinery
- Tensioning or splicing conveyors

WARNING
SEE WARNING INFORMATION ON PAGES 112 - 121.
Hoist Repairs

Need Hoist, Lever Tool or Puller repair? We perform Static and Dynamic testing!

The customer will receive real time test certification upon completion of the proof load test.

Come to us for complete, in-house repair of electric, lever, manual chain and wire rope hoists.

We are one of the largest authorized stocking master parts depots for Columbus McKinnon (CM). We also feature Coffing, Harrington, Yale and Shawbox, R&M Material Handling...just to name a few. Call our Parts Department for your hoist parts needs.

■ Repairs and testing comply with ASME B30.16 and B30.17 specifications.
■ Static and dynamic tests are performed. Test certificates are available electronically or paper will be provided.
■ We repair all types and brands of manual hoists, electric hoists and pullers.
■ Repairs and testing are performed at our facility.
■ All repaired hoists and pullers are load tested.
■ We can repair and test to theatrical standards upon request.
Hoist Parts

We are your one-stop source for replacement hoist parts, maintaining over $1.5 million stock in replacement parts for CM, Coffing, Yale, Shaw-Box, Budgit, Harrington, Acco / Wright, Ace World Companies, Detroit Hoist and R&M Material Handling…just to name a few.

Our access to numerous aftermarket manufacturers of wire rope, bearings, seals, motors and brakes, along with more than 150 years of combined parts sales experience, allows us to meet your delivery requirements. Most in-stock items ship within 24 hours.

We also carry one of the largest stocks of new hoists in the industry and offer quick delivery on new units.

Our machine shop can make custom hoist parts, such as:

- Hook Blocks
- Sheaves
- Wheels
- Gears

These can be made to your specifications or we can meet the specifications with our in-house Engineering Department.
Hoists

Product Warnings
CM Hoists Warnings

WARNING

Overloading and improper use can result in injury.

TO AVOID INJURY:

■ Do not exceed working load limit, load rating or capacity
■ Do not use to lift people or loads over people.
■ Use only alloy chain for overhead lifting.
■ Read and follow all instructions.

For complete warning and application information, see Columbus McKinnon Corporation at www.cmworks.com
**LUG-ALL Hoists Warnings**

*LUG-ALL web strap hoists are NOT insulating live-line tools.*
When the hoist's strap is clean and dry, it may have dielectric properties typical of nylon or polyester fibers; however, when it becomes wet and/or dirty, the strap loses these dielectric properties.

Use appropriate insulating hot sticks in series with web strap hoist hot-stick rings when necessary to achieve proper working distance per OSHA Regulation Subpart V, 1926.950 or company work practices. When the hoist handle swings closer to an energized conductor than OSHA working distances or company work practices permit, use rubber gloves rated for appropriate voltage.

**TO AVOID PERSONAL INJURY OR EQUIPMENT DAMAGE**

- Do not use if web strap is twisted, kinked, frayed, or damaged.
- Do not use to lift people, or loads over people.
- Do not leave an unattended load suspended in the air.
- Do not lengthen, or make any substitution for the LUG-ALL reversible handle.
- Do not remove or obscure warning labels.
- Do not use hoist as a load binder.
- Do not snag or pull the strap over edges, as serious weakening may result.
- Do not use a LUG-ALL hoist as a tow line.
- Close latches on hook before using.
- Use only LUG-ALL replacement parts.

The use of the web strap hoist on or around energized lines may result in serious injury or death.

For **complete** warning and application information, see LUG-ALL at www.lug-all.com

---

**Little Mule Hoists Warnings**

**WARNING**
Overloading and improper use can result in injury.

**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.

For **complete** warning and application information, see Columbus McKinnon Corporation at www.cmworks.com

---

**Yale & Shaw-Box Warnings**

**WARNING**
Overloading and improper use can result in injury.

**TO AVOID INJURY:**
- Do no exceed working load limit, load rating or capacity.
- Do not use to lift people or loads over people.
- Read and follow all instructions.

For **complete** warning and application information, see Columbus McKinnon Corporation at www.cmworks.com
Coffing Hoists
Warnings

TO AVOID INJURY:
■ Do not exceed working load limit, load rating or capacity.
■ Do not use to lift people or loads over people.
■ Use only alloy chain for overhead lifting.
■ Read and follow all instructions.

For complete warning and application information, see Columbus McKinnon Corporation at www.cmworks.com

Harrington Hoists
Wire Rope Hoist Warning

WARNING
This equipment should not be installed, operated or maintained by any person who has not read and understood all the contents of this manual. Failure to read and comply with the contents of this manual can result in serious bodily injury or death, and/or property damage.

For complete warning and application information, see Harrington Hoists, Inc. at www.harringtonhoist.com

R&M Hoists
Safety Instructions

Safety instructions for operating the hoist:
■ Read all the instructions supplied with the hoist. The hoist operator must be familiar with the instructions and follow them.
■ The hoist operator must be competent for the task, must know all the controls of the hoist and must be able to use them correctly and safely.
■ The hoist operator must know how to operate the hoist and must be aware of any risk of accident posed by the operating site.
■ Learn how to operate the hoist in safe conditions before actually starting to work with the hoist. Learn how to control the movements of the hook and load. Use the Hoist Owner’s Manual to familiarize yourself with the hoist and hoist controls.
■ Familiarize yourself with the signs and warnings marked on the hoist. The direction symbols for hoist motions are the same as the symbols marked on the pushbutton controller. Check the direction symbols in the Hoist Owner’s Manual.
■ Learn the hand signals for indicating hoisting motion, trolley traversing and crane travel. The hoist operator should only accept hand signals from a person authorized to give them.
■ Ensure that there is adequate lighting as well as proper tools and equipment for the working site, and that appropriate working procedures are established.

For complete warning and application information, see R&M Materials Handling, Inc. at www.rmhoist.com
## Harrington Hoists—Manually Lever Operated Hoists Warnings

**WARNING**

Improper operation of a system can create a potentially hazardous situation which, if not avoided, could result in death or serious injury. To avoid such a potentially hazardous situation, the operator:

1. Shall NOT operate a damaged, malfunctioning or unusually performing hoist.
2. Shall NOT operate the hoist until you have thoroughly read and understood the manufacturer’s Operating and Maintenance Instructions or Manuals.
3. Shall NOT Operate a hoist which has been modified without the manufacturer’s approval or without certification that it is in conformity with applicable OSHA regs.
4. Shall NOT lift more than rated load for the hoist.
5. Shall NOT use damaged hoist or hoist that is not working properly.
6. Shall NOT use hoist with twisted, kinked, damaged, or worn load chain.
7. Shall NOT operate with any lever extension (cheater bar).
8. Shall NOT attempt to “free-chain” the hoist while a load is applied.
9. Shall NOT use the hoist to lift, support, or transport people.
10. Shall NOT lift loads over people and make sure all personnel remain clear of the supported load.
11. Shall NOT attempt to lengthen the load chain or repair damaged load chain.
12. Shall protect the hoist’s load chain from weld splatter or other damaging contaminants.
13. Shall NOT operate hoist when it is restricted from forming a straight line from hook to hook in the direction of loading.
14. Shall NOT use tensioning medium as a sling or wrap tensioning medium around load.
15. Shall NOT apply the load to the tip of the hook or to the hook latch.
16. Shall NOT apply load unless tensioning medium is properly seated in the chain wheel(s) or sprocket(s) or drum(s).
17. Shall NOT apply load if bearing prevents equal loading on all load supporting parts.
18. Shall NOT operate beyond the limits of the tensioning medium travel.
19. Shall NOT allow the chain, wire rope or hook to be touched by a live welding electrode.
20. Shall NOT remove or obscure the warnings on the hoist.
21. Shall NOT operate a hoist which has NOT been securely attached to a suitable support.
22. Shall NOT operate a hoist unless load slings or other approved single attachments are properly sized and seated in the hook saddle.
23. Shall NOT lift loads that are NOT balanced and that the holding action is not secure, taking up slack carefully.
24. Shall NOT operate a hoist unless all persons are and remain clear of the supported load.
25. Shall report malfunctions or unusual performances of hoist, after it has been shut down until repaired.
26. Shall NOT operate a hoist on which the safety placards or decals are missing or illegible.
27. Shall be familiar with operating controls, procedures and warnings.

For complete warning and application information, see Harrington Hoists, Inc at www.harringtonhoist.com
Harrington Hoists—
Hand Chain Manually Lever Operated Chain
Hoists Warnings

**WARNING**

Improper operation of a system can create a potentially hazardous situation which, if not avoided, could result in death or serious injury. To avoid such a potentially hazardous situation, the operator:

1. Shall NOT operate a damaged, malfunctioning or unusually performing hoist.
2. Shall NOT operate the hoist until you have thoroughly read and understood the manufacturer’s Operating and Maintenance Instructions or Manuals.
3. Shall NOT Operate a hoist which has been modified without the manufacturer’s approval or without certification that it is in conformity with applicable OSHA regs.
4. Shall NOT lift more than rated load for the hoist.
5. Shall NOT use damaged hoist or hoist that is not working properly.
6. Shall NOT use hoist with twisted, kinked, damaged or worn load chain.
7. Shall NOT lift loads over people and make sure all personnel remain clear of the supported load.
8. Shall NOT attempt to lengthen the load chain or repair damaged load chain.
9. Protect the hoist’s load chain from weld splatter or other damaging contaminants.
10. Shall NOT use load chain as a sling or wrap load chain around load.
11. Shall NOT apply the load to the tip of the hook or to the hook latch.
12. Shall NOT apply load unless load chain is properly seated in the chain wheel(s) or sprocket(s).
13. Shall NOT apply load if bearing prevents equal loading on all load supporting chains.
14. Shall NOT operate beyond the limits of the load chain travel.
15. Shall NOT leave load supported by the hoist unattended unless specific precautions have been taken.
16. Shall NOT allow the chain or hook to be used as an electrical or welding ground.
17. Shall NOT allow the chain or hook to be touched by a live welding electrode.
18. Shall NOT remove or obscure the warnings on the hoist.
19. Shall NOT operate a hoist which has not been securely attached to a suitable support.
20. Shall NOT operate a hoist unless load slings or other approved single attachments are properly sized and seated in the hook saddle.
21. Shall NOT operate a hoist when it is restricted from forming a straight line from hook to hook in the direction of loading.
22. Shall NOT lift loads that are not balanced and that the holding action is not secure, taking up slack carefully.
23. Shall NOT operate a hoist unless all persons are and remain clear of the supported load.
24. Shall report malfunctions or unusual performances of a hoist, after it has been shut down until repaired.
25. Shall NOT operate a hoist on which the safety placards or decals are missing or illegible.
26. Shall be familiar with operating controls, procedures and warnings.

For complete warning and application information, see Harrington Hoists, Inc. at www.harringtonhoist.com
Harrington Hoists—
Electric & Air Powered Hoists Warnings

1. Shall NOT operate a damaged, malfunctioning or unusually performing hoist.
2. Shall NOT operate the hoist until you have thoroughly read and understood the manufacturer’s Operating and Maintenance Instructions or Manuals.
3. Shall NOT operate a hoist which has been modified without the manufacturer’s approval or without certification that it is in conformity with ANSI / ASME B30 volumes.
4. Shall NOT lift more than rated load for the hoist.
5. Shall NOT use hoist with twisted, kinked, damaged, or worn load chain or wire rope.
6. Shall NOT use the hoist to lift, support, or transport people.
7. Shall NOT lift or move loads over people.
8. Shall NOT operate a hoist unless all persons are and remain clear of the supported loads.
9. Shall NOT operate unless load is centered under hoist.
10. Shall NOT attempt to lengthen the load wire rope or chain or repair damaged load wire rope or chain.
11. Protect the hoist’s load wire rope or chain from weld splatter or other damaging contaminants.
12. Shall NOT operate hoist when it is restricted from forming a straight line from hook to hook in the direction of loading.
13. Shall NOT use load wire rope or chain as a sling, or wrap load wire rope or chain around load.
14. Shall NOT apply the load to the tip of the hook or to the hook latch.
15. Shall NOT apply load unless load chain is properly seated in the chain wheel(s) or sprocket(s) or wire rope is properly seated in its groove(s).
16. Shall NOT apply load if bearing prevents equal loading on all load supporting ropes or chains.
17. Shall NOT operate beyond the limits of the load wire rope or chain travel.
18. Shall NOT leave load supported by the hoist unattended unless specific precautions have been taken.
19. Shall NOT allow the load wire rope, chain or hook to be used as an electrical or welding ground.
20. Shall NOT allow the load wire rope, chain or hook to be touched by a live welding electrode.
21. Shall NOT removed or obscure the warnings on the hoist.
22. Shall NOT operate a hoist on which the safety placards or decals are missing or illegible.
23. Shall NOT operate a hoist unless it has been securely attached to a suitable support.
24. Shall NOT operate a hoist unless it has been securely attached to a suitable support.
25. Shall take up slack carefully – make sure load is balanced and load holding action is secure before continuing.
26. Shall shut down a hoist that malfunctions or performs unusually and report such malfunction.
27. Shall make sure hoist limit switches function properly.
28. Shall warn personnel of an approaching load.

For complete warning and application information, see Harrington Hoists, Inc. at www.harringtonhoist.com
Detroit Hoists Warnings

For complete warning and application information, see Detroit Hoist at www.detroithoist.com

Harrington Hoists Trolley Warning

For complete warning and application information, see Harrington Hoists, Inc. at www.harringtonhoist.com

Thern Winches Warnings

IMPORTANT:
It is the owner’s or operator’s responsibility to determine the suitability of the equipment to its intended use. Study all applicable codes, manuals, and regulations. Be sure to read the Owner’s Manual supplied with the equipment before operating it.

For complete warning and application information, see THERN, Inc. at www.thern.com

Jeamar Winches Warnings

WARNINGS:
- Ensure the correct equipment is obtained and installed for the application.
- Ratings shown in Jeamar literature are applicable only to new products.
- Working load limits shown are the maximum load the product is authorized to support under normal environmental conditions. Shock loading and abnormal conditions must be taken into account when selecting products.
- Working load limits shown are the maximum load the product is authorized to support under normal environmental conditions. Regular inspections must be conducted to ensure the equipment continues to meet the most current revision of the published standard.
- AVOID SHOCK LOADS
  - These are transient loads that exceed the steady-state load. Shock loads are caused by sudden accelerations, usually due to unrestrained loads, swing loads, jerking, or impacting of the load. The working load limit may well be exceeded under these conditions.
  - Welding to any Jeamar products can be hazardous and should only be implemented after written permission from Jeamar. Jeamar products are sold on the strict understanding that all product selection is the full responsibility of the purchaser. Jeamar accepts no liability for the use, misuse or incorrect application of its products.

For complete warning and application information, see Jeamar, Inc. at www.jeamar.com
Tractel / Grifhoist
General Warnings

1. Before installing and using this unit, to ensure safe, efficient use of the unit, be sure you have read and fully understood the information and instructions given in this manual. A copy of this manual should be made available to every operator. Extra copies of this manual will be supplied on request.

2. Do not use the unit if any of the plates mounted on the unit is missing or if any of the information on the plates, as indicated at the end of the manual, is no longer legible. Identical plates will be supplied on request; these must be secured on the unit before it can be used again.

3. Make sure that all persons operating this unit know perfectly how to use it in a safe way, in observance of all safety at work regulations. This manual must be made available to all users.

4. This unit must only be used in compliance with all applicable safety regulations and standards concerning installation, use, maintenance and inspection of equipment lifting devices.

5. For all professional applications, the unit must be placed under the responsibility of a person who is entirely familiar with the applicable regulations and who has the authority to ensure the applicable regulations are applied if this person is not the operator.

6. Any person using the unit for the first time must first verify that he has fully understood all the safety and correct operation requirements involved in use of the unit. The first-time operator must check, under risk-free conditions, before applying the load and over a limited lifting height, that he has fully understood how to safely and efficiently use the unit.

7. The unit must only be installed and set into service under conditions ensuring the installer’s safety in compliance with the regulations applicable to its category.

8. Each time, before using the unit, inspect the unit for any visible damage, as well as the accessories used with the unit.

9. Tractel® declines any responsibility for use of this unit in a setup configuration not described in this manual.

10. The unit must be suspended vertically to an anchoring point and a structure having sufficient strength to withstand the maximum utilization load indicated in this manual. If several units are used, the strength of the structure must be compatible with the number of lifting units used and with the maximum utilization load of the units.

11. Tractel® declines any responsibility for the consequences of any changes made to the unit or removal of parts forming part of the unit.

12. Tractel® will only guaranty operation of the unit provided it is equipped with an original Tractel® wire rope in accordance with the specifications indicated in this manual.

13. Tractel® declines any responsibility for the consequences resulting from disassembly of the unit in any way not described in this manual or repairs performed without Tractel® authorization, especially as concerns replacement of original parts by parts of another manufacturer.

14. Tractel® declines any responsibility for the consequences resulting from any unauthorized changes or repairs to the wire rope.

15. The unit must never be used for any operations other than those described in this manual. The unit must never be used to handle any loads exceeding the maximum utilization load indicated on the unit. It must never be used in explosive atmospheres.

16. The unit must never be used for lifting people.

17. The unit is designed for manual operation and must never be motorized.

18. When a load is to be lifted by several units, a technical study must first be carried out by a qualified technician before installation of the units. The installation must then be carried out in compliance with the study, in particular to ensure an even distribution of the load under appropriate conditions. Tractel® declines any responsibility for the consequences resulting from use of a Tractel® device in combination with other lifting devices of another manufacturer.

19. Never park or circulate under a load. Access to the area under the load should be indicated by signs and prohibited.

20. To ensure safe use of the unit, it should be visually inspected and serviced regularly. The unit must be periodically inspected by a Tractel®-approved repair agent as indicated in this manual.

21. The wire rope must be in good condition to ensure safe, correct operation of the unit. Discard any wire rope which shows any signs of excess wear or damage. The condition of the wire rope should be checked each time before using the unit as detailed in the “wire rope” section.

22. When the unit is not being used, it should be stored in a location inaccessible to persons not authorized to use the unit.

23. When using the unit, the operator must ensure that the wire rope remains constantly tensioned by the load, and more particularly, the operator must ensure that the load is not temporarily snagged by an obstacle when coming down as this could result in rupture of the wire rope when the load is released from its obstacle.

24. If the unit is to be definitively removed from use, make sure the unit is discarded in a way which will prevent any possible use of the unit. All environment protection regulations must be observed.

IMPORTANT : For professional applications, in particular if the unit is to be operated by an employee, make sure that you are in compliance with all safety at work regulations governing installation, maintenance and use of the equipment, and more specifically as concerns the required inspections: verification on commissioning by user, periodic inspections, and inspections subsequent to disassembly or repair operations.

For complete warning and application information, see Tractel at www.tractel.com