Engineered Material Handling

Components for Overhead Cranes

Engineered Hoists

Endtrucks

Crane Kits

Standard Hoists

Model E, D, Z, SU, CM

EH Model H, EM Model HF, EM Model HR

Models HSE, HSZ, DLVM, EDL, UHB

Models ELV, ZLW, DLVM, EDL
Serial production with uniform quality.

Modular construction with optimally matched components.

Space saving, future oriented design.

Two lifting speeds with 6:1 speed ratio.

VFD-controlled trolley drives.

TEFC motors designed for rapid heat dissipation.

Class “F” motor insulation.

Lifetime lubricated bearings and gear reducers.

Modern helical gear trolley drive.

DC rectified brakes with a minimum of one million maintenance-free operations.

Upper and lower limit switches.

Lang-lay, pre-formed high strength wire rope with steel core.

Heavy duty, wear resistant rope guide.

All controls mounted in NEMA 12 enclosure with overload protection.

Heavy duty bottom block with safety latch and hardened sheaves.
Standard Packaged Wire Rope Hoists

Single Girder Models

- Model E
  - Standard Monorail Hoist
  - For Increased Side Approach, True Vertical Lift

<table>
<thead>
<tr>
<th>Hoist Model</th>
<th>Reeving</th>
<th>Capacities (tons)</th>
<th>Lifts (feet)</th>
<th>Lifting Speed (fpm)</th>
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</thead>
<tbody>
<tr>
<td>800E</td>
<td>4/1</td>
<td>3, 5</td>
<td>20, 33, 50</td>
<td>16/2.6</td>
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<tr>
<td>1000E</td>
<td>4/1</td>
<td>3, 5</td>
<td>20, 33, 50</td>
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<tr>
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- Model D
  - Standard Double Girder Hoist

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<td>16/2.6</td>
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<td>7.5, 10</td>
<td>20, 33, 50</td>
<td>16/2.6</td>
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</tbody>
</table>

Double Girder Models

- Model SU
  - Monorail Hoist with Swivel Trolley
  - For Curved Girders
  - Capacities: 2 to 25 tons
  - Reeving: 2/1, 4/1, 4/2 and 8/2
  - Standard Lifts: 20, 33 and 50 feet
  - 2-Speed Hoisting
  - VFD Trolley Control Standard

- Model CM
  - Cross Mounted Monorail Hoist
  - For Increased Side Approach, True Vertical Lift

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<td>4/1</td>
<td>25, 30, 35</td>
<td>20, 33, 50</td>
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</table>

EMH Wire Rope Hoist Options

- Capacities: 3 to 50 tons
- Reeving: 2/1, 4/1, and 6/1
- (True Vertical Lift available on request)
- Standard Lifts: 20, 33 and 50 feet
- 2-Speed Hoisting
- VFD Trolley Control Standard
Engineered Wire Rope Hoists
for Applications with Special Requirements

When your application requires capabilities beyond those of standard packaged hoists, EMH offers a wide line of Engineered Hoists for the following situations:

- Loads over 50 tons
- Long lifts
- True Vertical Lift
- Class D and E duty ratings
- Harsh environments
- Class 1 Div. 2 Group C and D Hoists
- Steel Service Centers, Heavy Steel Fabricators, Precast Concrete Facilities

All EMH Engineered Hoists offer the following features:

- Half-depth drum grooves to eliminate the need for rope guides.
- DC Disc Brakes.
- Easy access to upper sheaves for maintenance.
- Class F Motor Insulation.
- Three-position geared limit switch (lower and upper operational, upper security) with addition of upper weight operated limit.
- Standard closed Loop Flux Vector VFD hoist control.
- Standard VFD trolley control.
- Rugged, durable motors and gearboxes with the added benefit of utilizing standard components such as drums, brakes sheaves and wheels.
- High quality, efficient, quiet AGMA Class 11 gearing.

**EH Model H**
- Capacities to 300 tons
- Double reeving (4/2, 8/2, 12/2, 16/2) for True Vertical Lift
- Rotating axle trolley endtrucks

**EM Model HF**
- Capacities to 100 tons
- Double reeving (8/2, 12/2) for True Vertical Lift
- Rotating axle trolley endtrucks

**EM Model HR**
- Capacities to 50 tons
- Single reeving (4/1, 6/1)
- Rotating axle trolley endtrucks
EMH Endtrucks - Reliable Transportation for Overhead Cranes

**Model HSE**
*Single Girder Top Running*

- Wheel Diameters (in): 4, 5, 6.5, 8, 10, 12
- Wheel Bases: from 3' to 12'6"
- Wheel Loads (lbs.): from 16,400 to 87,000
- Moving Mass (lbs.): up to 140,000 lbs.

**Model HSZ**
*Double Girder Top Running (Standard Model)*

- Wheel Diameters (in): 5, 6.5, 8, 10, 12, 16, 20
- Wheel Bases: from 8'10" to 15'0"
- Wheel Loads (lbs.): from 9,100 to 76,430
- Moving Mass (lbs.): up to 290,000 lbs.

**Model HS**
*Double Girder Top Running with Spherical Rotor Bearing*

- Wheel Diameters (in): 10, 12, 16, 20, 24.75, 28, 31.5
- Wheel Bases: from 11'10.5" to 14'10.5"
- Wheel Loads (lbs.): from 38,850 to 76,000
- Moving Mass (lbs.): up to 180,000 lbs.

**Model DLVM**
*Single Girder Under Running*
*Standard Headroom*

- Wheel Diameters (in): 4, 5, 6.25
- Wheel Bases: from 3' to 7'6"
- Wheel Loads (lbs.): from 4,800 to 15,000
- Moving Mass (lbs.): up to 36,000 lbs.

- Also available in Low Headroom Model EDL. Flat tread wheels standard; S-beam wheels available on request.

**EMH Endtruck Features**
- Forged Steel Wheels
- Splined Drive Axle
- Polyamide Bumpers
- Direct Drive System
- Motors with Class F Insulation
- DC Rectified Disc Brakes

**The EMH Endtruck/Girder Connection**
Provides excellent stability in both the vertical and horizontal planes, and simplifies the installation process to ensure a perfectly aligned crane.

Each set of EMH endtrucks comes complete with precision machined, pre-drilled girder end plates and high strength connecting bolts.

**Bogie Endtrucks - Standard**

- Wheel Diameters (in): 10, 12, 16, 20, 24.75, 28, 31.5
- Wheel Bases: from 11'10.5" to 14'10.5"
- F Loads (lbs.): from 58,750 to 321,460

Custom designed bogies also available. Consult EMH for more details.
EMH Makes It Easy
to Assemble Your Crane!

System 2000 Crane Kits

The System 2000 Kit Product Line includes:

- ZLW Double Girder Top Running Cranes
- ELV Single Girder Top Running Cranes
- DLVM Single Girder Under Running Cranes
- EDL Single Girder Low Headroom Under Running Cranes.

Optional lifts and speeds available. Special kits available on request.

Note: Components are based on 460-3-60 power supply. 208, 230 and 575V are available.

Standard EMH Endtrucks with a travel speed of 120 FPM (VFD) complete with mounting plates, bolts and bumpers. (Consult EMH for special speeds.)

Standard EMH Wire Rope Hoist with 20 feet of lift and 2-speed lifting at 162.8 fpm with variable frequency trolley control.

Detailed Engineering for bridge construction and crane assembly, including two sets of the maintenance manual.

VFD Bridge Control Panel with lockable fused mainline disconnect, mainline fuse, mechanical and electrical interlocking contactors and motor protection.

Most power and control connections are pre-wired through terminal strips to quick disconnect plugs. Controls are mounted in NEMA-12 enclosures.

Machine tool quality Plug Assembly makes the push button station easily removable for storage or maintenance.

Complete trolley and sliding push button Festoon System with all required mounting hardware. Cables are pre-wired to quick disconnect plugs. Festoon trolleys are already attached to cables.

Model “ZLW”
Double Girder Top Running

Bridge Conductor Cables pre-wired to Quick Disconnect Plugs at the panel.

Clamp bumpers permit easy, on-site adjustment of trolley stop locations.

Model “ELV”
Single Girder Top Running

Detailed Engineering for bridge construction and crane assembly, including two sets of the maintenance manual.
**EMH can also supply you with these popular Crane Accessories:**

- Load Cells
- Crane Cabs
- Radio Controls
- Rotating Hook Blocks

**Plus: many other products as your requirements demand:**

- Air Conditioning
- Anti-Collision Devices
- Epoxy Coating
- Full and Partial Outdoor Use
- Hoist Inverters
- Hoist Overload Devices
- Hoist Scales
- I-Beam Festoon Systems
- LED Lighting
- NEMA 4 Enclosures
- Rotating Red Light
- Shot Blasting
- Special Control Requirements
- Travel Limit Switches
- Warning Bell, Horn and Siren
- Weight Operated Limit Switches
- Wind Speed Monitor

**EMH overhead cranes and components are sold by:**

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Certified to ISO 9001:2008 Standards

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