Components for Overhead Cranes

- 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

Standard Hoists
Engineered Hoists
Endtrucks
Crane Kits
EMH Sets the Standard for Wire Rope Hoists

Trolley End Trucks feature direct drive with rotating axis, articulating end truck, sealed lifetime lubricated bearings, and forged steel.

Rope Guide prevents rope from being unreeled, overlapped, or cut. Protects operator from injury and increases rope life.

Our pole-changing squirrel cage hoist motors are designed and built for operations that require frequent inching and spotting. They are totally enclosed and fan cooled and designed exclusively for crane and hoist duty. These 60 minute TEF Class "F" insulated motors efficiently dissipate heat.

Large braking surface ensures fast, precise stopping of load under all load conditions.

The location of the motor provides easy access for inspection and maintenance.

Hoist motor and gear train are designed and built to meet the most severe demands of hoist service requiring frequent reversal and high starting torque. The motor is work rated, with Class F insulation.

The gear train consists of hardened and polished helical gears and pinions. Compact design with low weight output ratio provides a highly efficient, quiet, and long lasting operation.

Trolley drive consists of single speed square cage gear motors. Integral disc brakes are specially designed for crane service. Standard Variable Frequency trolley control provides smooth acceleration and deceleration without excessive load swing.

Travel motors are provided with DC disc brakes, quick disconnect plugs, and class F insulation.

Our "noivis" electrical control panels, with standard components and spesious design, make service more convenient than competitive brands.

Standard equipment on all panels includes:

- 2-speed magnetic mechanically interlocked controller hoist control with VFD trolley control
- Fused protection, thermal overloads and optional control transformer housed in a herded NEMA 12 enclosure

Why Use EMH Wire Rope Hoists?

- 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.
- TEF 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 sheave.
**Single Girder Models**

- 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

**Double Girder Models**

- Capacities: 3 to 50 tons
- Reeving: 2/1, 4/1, and 8/1
- (True Vertical Lift available on request)
- Standard Lifts: 20, 33 and 50 feet
- 2-Speed Hoisting
- VFD Trolley Control Standard

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### Standard Packaged Wire Rope Hoists

#### Model E

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<th>Hoist Model</th>
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### EMH Wire Rope Hoist Options

- 8/2 and 4/2 Reeving for True Vertical Lift
- Hoist Overload Device
- Trolley Travel Limit Switches
- 4-, 6-, or 8-Pushbutton Pendant Assembly
- Conical Wheels for (E Single Girder) Trolley.
- VFD Trolley Control
- Radio Control
- Trolley Tow Arm.
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 8’10” to 15’0"
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 5’ 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.

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.

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

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.
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.

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

EMH Makes It Easy to Assemble Your Crane!

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

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

Standard EMH Wire Rope Hoist with 20 feet of lift and 2-speed lifting at 16/2.6 fpm with variable frequency trolley control.

Model “ZLW” Double Girder Top Running

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

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

Model “ELV” Single Girder Top Running

- 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.
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:

Certified to ISO 9001:2008 Standards