EMH sets the standard for wire rope hoists!

Standard Hoist Designs Include:

Model "E" Monorail for single girder cranes
Monorail "E" Models Capabilities to 15 tons

Model "D" Top running for double girder cranes
Double Girder "D" Models Capabilities to 40 tons

Model "Z" Top running, double girder with dual motors, capacities to 30 tons

Model "SU" Monorail hoist for single girder cranes, with swivel trolley for curved track

Monorail "E" Models Capabilities to 15 tons

Double Girder "D" Models Capabilities to 40 tons
EMH sets the standard for wire rope hoists!

- Heavy duty clamp bumpers permit easy, on-site adjustment of trolley stop locations for safe hoist movement.
- Easily adjustable dual upper and lower gear type limit switches bring the load hook to a positive stop at any desired position in both the hoisting and lowering directions.
- Trolley drive consists of pole changing squirrel cage gear motors. Integral disc brakes are specially designed for crane service. Low torque, high inertia drives provide smooth acceleration and deceleration without excessive load swing.
- Travel motors are provided with DC disc brakes, quick disconnect plugs, and class F insulation.
- The gear train consists of hardened and polished helical gears and pinions. Compact design with low weight/output ratio provides highly efficient, quiet, and long lasting operation.
- Adjustable tow arm and trolley travel limit switch available as standard options.
- A DC rectified magnet actuated disc motor brake is automatically applied in the event of power failure. These self-adjusting and virtually maintenance free brakes are provided with asbestos-free, non-polluting brake linings. An expected service life of one million operations before requiring the first adjustment.

- Large diameter, machine tool steel quality wheels and drive pinions. Available for most any flange width (applies to Monorail “E” models only).
- Heavy duty clamp bumpers permit easy, on-site adjustment of trolley stop locations for safe hoist movement.
- Rope guide prevents rope from being intertwined, overlapped, or cut. Protects operator from injury.
- Maintains the rope in contact with the drum groove even under slack rope conditions.
- Pre-tested, multi-pin quick disconnect plugs and socket connections for fast, safe, maintenance proof electrical assembly.
- Large diameter, machine tool steel quality wheels and drive pinions. Available for most any flange width (applies to Monorail “E” models only).
- Heavy duty clamp bumpers permit easy, on-site adjustment of trolley stop locations for safe hoist movement.
- Our hoists’ electrical control panels, with standard components and spacious design, make service more convenient than competitive brands.
- Standard equipment on all panels includes:
  - Hoist manual motor starter breaker and overload; hoist two-speed reversing contactors; trolley manual motor starter breaker and overload, trolley two-speed reversing contactors (monorail models),
  - trolley VFD and dynamic braking resistor (top running models),
  - and NEMA 12 enclosure.
EMH sets the standard for wire rope hoists!

Wire Rope Hoists

Options:

- "SU" Monorail Hoists for curved track applications
- 6:2 and 4:2 Reeving for True Vertical Lift (TVL)
- Hoist Overload Device
- Trolley Travel Limit Switches
- 4-, 6-, or 8-Pushbutton Pendant Assembly
- tapered Trolley Wheels for "S" beams
- Patented Track Operation
- Faster Trolley Speeds
- Trolley Tow Arm
- 220 or 240 Volt Hoist Trolley Controls
- Mainline Contactor and Transformer
- Transformer for Monorail Hoist
- Flex Vector Closed Loop Variable Frequency Hoist Drive
- Trolley VFD

Top Running Double Girder Trolley Features:

- Drive wheels are forged steel or spheroidal castings.
  A splined drive axle directly engages the output shaft of the reducer.
- Our drive wheel assembly is like no other in the industry. It allows quick and easy wheel removal without special tools.
- Our tapered power lock system eliminates the need for press fit and a keyway on the axle.
- Polyamid bumpers at both ends absorb energy and retard the trolley.
- Our standard drive motors are of single speed squirrel cage design with VFD (inverter) controls. Inverters provide infinitely variable speeds and reduce starting current for extended motor life.
- EMH endtrucks use a direct drive system, eliminating the need for lubrication of open gears, pinions and couplings.
- Our motors have Class F insulation. Large surface cooling fins are used for extended heat dissipation. Quick disconnect plugs used for convenient installation and service.
- A DC rectified disc brake is automatically applied in the event of power failure. The brake is self-adjusting and virtually maintenance free.
Wire Rope Hoists Standard Features

EMH hoists are available in monorail and top running double girder models to provide a price to performance ratio that compares favorably with the best the industry has to offer.

- Series production with uniform quality
- Modular construction with optimally matched components
- Space saving, future oriented design
- Two lifting speeds with 6:1 speed ratio
- Two trolley speeds with 4:1 speed ratio
- TEFC motors designed for smooth crane service
- 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
- Two position upper and one lower precision limit switch
- 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 EMH Hoist Models

<table>
<thead>
<tr>
<th>Hoist Model</th>
<th>Reeving Capacities (tons)</th>
<th>Lifts (feet)</th>
<th>Lifting Speed (fpm*)</th>
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<tbody>
<tr>
<td>Single Girder</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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<td></td>
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<td>16/2.6</td>
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<tr>
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<td>4/1</td>
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* Standard speeds. Consult EMH for higher speeds.
** Double Reeved.
EMH Headquarters

Valley City, OH is the site of the EMH corporate headquarters and manufacturing plant. Our modern facility provides us with plenty of production space and room for expansion, making EMH readily adaptable to the needs of 21st century industry.

EMH is certified to ISO 9001:2000 Standards for the design, manufacturing, installation and servicing of overhead cranes, and is a member of Material Handling Industry of America (MHIA) and Crane Manufacturers Association of America (CMAA).

Complete Cranes

- Capacities up to 300 tons, spans up to 150 feet
- Single & Double Girder
- Top & Under Running
- Upgrades & Rebuilds
- Crane Systems
- Free Standing Systems
- NOMAD Free Standing Systems
- NOMAD AL Aluminum Rail and Lifting Devices

Crane Components

- Standard Wire Ropes & Chains
- Custom-Engineered Wire Ropes for Class 70 & 80 Applications
- Single & Double Girder
- Top & Under Running End Trucks
- System 2000 Crane Kits
- Controls
- Wire Rope Hoists
- Motorized & Wheel Blocks

EMH cranes and components are sold and serviced by: