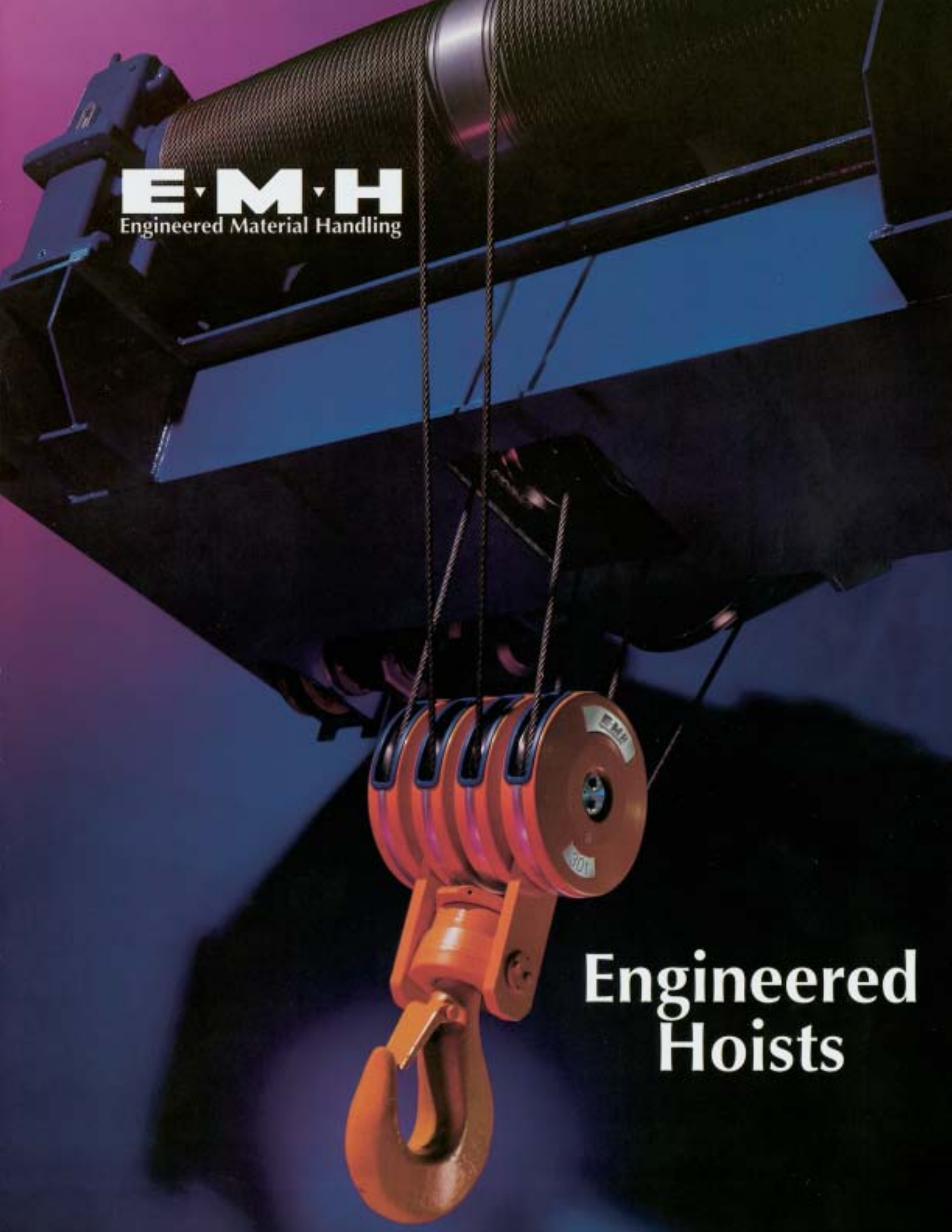


The image shows a close-up, low-angle view of a heavy-duty industrial hoist. A thick, braided steel cable is wound around a large drum at the top. Below the drum, the cable passes through a block of four orange-colored pulleys. The pulley block is suspended by a hook and shackle. The background is a dark, industrial structure, possibly part of a crane or lifting system. The lighting is dramatic, with a mix of blue and orange tones.

E·M·H
Engineered Material Handling

**Engineered
Hoists**

EMH Hoists



This 25 ton coil handling crane in a steel service center is a typical application for a custom-engineered hoist.



For "mission critical" Class D and Class E applications that require continuous, dependable operation, the EMH Engineered Hoist is the logical choice.

The steel industry, steel service centers, magnet, bucket and coil handling cranes, or any operation requiring a high number of cycles and large capacity can benefit from the EMH Hoist's reliability. Its modular, open winch design facilitates maintenance and repair and can be easily adapted for special lifts and speeds.

Standard capacities range from 10 to 150 tons and all motions are inverter-controlled for infinitely adjustable speed and prolonged motor life.

The EMH Engineered Hoist is the perfect choice for dependable, heavy duty overhead material handling. Call your EMH representative today for details.

Gear Limit Switch Assembly

A geared limit switch with one lower and two upper limits is standard. Easily adjustable, the stepless limit switch brings the load hook to a positive stop at any desired position in both hoisting and lowering directions.



Drum & Bearing Housing

Drum is of seamless steel tube construction with precision machined grooves.

For maximum safety, at least two wraps of rope remain on the drum when the hook is fully lowered.

IWRC (Independent Wire Rope Core) cable for excellent strength and crush resistance.



Hoist Drive Assembly & Gearbox

EMH hoist motors are designed and built to meet the most exacting demands of hoisting service. They are well suited for the frequent reversal and high torque of heavy duty crane applications.

The inverter duty motor is equipped with an encoder for closed loop speed regulation. This compact feedback mechanism is directly coupled to the motor.

The gearbox is of unibody design, with many combinations of ratios, speeds and capacities available for a wide range of applications.



Hoist Brake

A DC-rectified, magnet-actuated disc brake is automatically applied in the event of power failure. The brake is self-adjusting and operates for over a million cycles without adjustment.



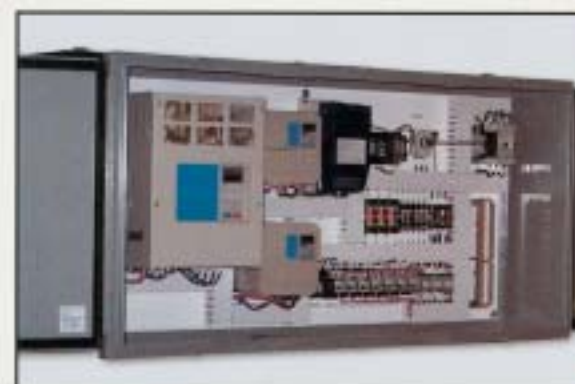
Hoist Reeving

4/2, 8/2 or 12/2 reeving is standard, assuring high capacity as well as "True Vertical Lift" (TVL) for accurate load placement.



Trolley Drive

The trolley endtrucks, as with other EMH endtrucks, are direct drive, with fully enclosed gearing and inverter-controlled motors for unlimited speed variation.



"Micro-Drive" Hoist Controls

Our electrical control package is designed to meet or exceed applicable NEC requirements. It includes a lockable mainline disconnect, mainline fuses, magnetic mainline contactor, phase loss protection for each motor circuit and primary and secondary fusing for the control transformer.

Other benefits of the new EMH control include:

- Closed loop flux vector control with encoder, allowing positive feedback for speed regulation and direction. Prolongs motor life and reduces brake wear.

- Initial start shock is minimized.
- Precise control of delicate loads.
- Reduced impact for the hoisting mechanism.
- Encoder feedback for increased safety and reliability.
- Up to 50% overspeed capability improves cycle time with partial load.
- 4-way safety check for safe operation.
- NEMA 12 enclosure for protection from dust and moisture.
- CMAA Class "D" and "E" Rating.

Let EMH Handle It!

Founded in 1988, EMH (Engineered Material Handling) has quickly distinguished itself as an innovator in the overhead crane industry.

Whether your requirements include complete turnkey systems, standard cranes, crane kits, workstation crane systems or any related components, EMH provides you the highest quality products, plus the technical expertise to ensure a reliable and effective solution to your overhead material handling needs.

EMH is also the North American Distributor of hoists and components from ABUS, a leading European manufacturer. Additionally, our product line features the HB Enclosed Rail Work Station Crane System.

EMH is the one stop solution to your overhead material handling problems. Call us today!

Our expert staff plans each EMH project before sending it to our engineering department. Fabrication of many components, plus the final assembly and shipping of the finished crane, are then performed at our state-of-the-art manufacturing plant. EMH maintains a full staff of installation and service personnel, as well as a national organization of qualified service representatives.



Our new facility opened in 1997.



Overhead Cranes



Jib Cranes



HB System



Electric Wire Rope Hoists



Electric Chain Hoists



Electronic Control Systems



High Performance Components

Distributed by:



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