



INTRODUCING HMI

Founded in 1956, **The Hoist Manufacturers Institute (HMI)**, an affiliate of Material Handling Industry, is a trade association of manufacturers of overhead handling hoists. The products of its member companies include hand chain hoists, ratchet lever hoists, trolleys, air chain and air rope hoists, and electric chain and electric wire rope hoists.

HMI operates through committees with programs and policies reviewed and adopted by the membership with representation from each member company. Its many activities include an active engineering committee. HMI is represented on a number of standards developing committees and actively supports the development and certification of safety standards by the ANSI consensus method.

Our Members

HMI member companies are recognized as the leading authority and the principle resource in the Hoist Industry. The HMI members are concerned, conscientious manufacturers affiliated in an industry association to provide voluntary standards for the mechanical, structural and electrical design of hand chain hoists, ratchet lever hoists, trolleys, air chain and air rope hoists, and electric chain and electric wire rope hoists and to formulate guidelines for the proper use, operation and maintenance of that equipment.

Our Association

HMI is a member driven organization. To qualify for membership a company must manufacture or as a partial manufacturer of overhead hoists has engineered and designed its own overhead hoists and assembled continuously the major hoist components for at least a three-year period prior to its application for membership.

Member companies of HMI meet regularly to review, discuss and revise the standards for design, performance and proper operation. HMI member companies have committed to the development, maintenance and publishing of industry standard specifications.

Additionally, HMI has prepared, published and distributes Training, Inspection and Maintenance recommendations that are available to all hoist users, such as the Hoist Operators Manual, Hoist Inspection and Maintenance Personnel Manual, Manually Lever Operated Hoist Inspection and Hoist Maintenance Personnel Manual, and the Manually Lever Operated Hoist Operators Manual.

The Occupational Safety and Health Administration (OSHA) recently announced an alliance with the Monorail Manufacturers Association (MMA), the Crane Manufacturers Association of America (CMAA) and the Hoist Manufacturers Institute (HMI). The purpose of this alliance is to provide monorail systems, crane and hoists owners and operators with information, guidance, and access to education and training resources that will advance their workplace safety and health.

Member companies participate in a requisite number of regularly scheduled meetings which among other things further the ongoing process of revising and updating today's standards to meet the ever-changing demands of technology and the modern industrial environment.

RECOMMENDED PRACTICES MANUALLY LEVER OPERATED CHAIN HOISTS

Because the manufacturer has no direct control over the hoist and its operation, conformance with good safety practice is the responsibility of the user and operating personnel. ANSI/ASME B30.16 has been used as a guide in preparing this list of SHALL's and SHALL NOT's. Ask your supervisor for a copy. Each is identified according to ANSI/NEMA Z535.4 with either the signal word CAUTION or WARNING to indicate the degree of seriousness.



WARNING

Improper operation of a hoist 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 shall:

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



CAUTION

Improper operation of a hoist can create a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. To avoid such a potentially hazardous situation, the operator shall:

1. Maintain a firm footing or be otherwise secured when operating the hoist.
2. Check brake function by tensioning the hoist prior to each lift or pulling operation.
3. Use hook latches. Latches are to retain slings, chains, etc. under slack conditions only.
4. Make sure the hook latches are closed and not supporting any parts of the load.
5. Make sure the load is free to move and will clear all obstructions.
6. Avoid swinging the load or hook.
7. Avoid lever "fly-back" by keeping a firm grip on the lever until operating stroke is completed and the lever is at rest.
8. Inspect the hoist regularly, replace damaged or worn parts, and keep appropriate records of maintenance.
9. Use the hoist manufacturer's recommended parts when repairing the unit.
10. Lubricate load chain per hoist manufacturer's recommendations.
11. **NOT** use the hoist load limiting or warning device to measure load.
12. **NOT** operate except with manual power.
13. **NOT** permit more than one operator to pull on lever at the same time. More than one operator is likely to cause hoist overload.
14. **NOT** allow your attention to be diverted from operating the hoist.
15. **NOT** allow the hoist to be subjected to sharp contact with other hoists, structures, or objects through misuse.
16. **NOT** adjust or repair the hoist unless qualified to perform such adjustments or repairs.

DISCLAIMER

Under no circumstances does the Hoist Manufacturers Institute (HMI) assume any liability for the use of these voluntary recommendations, and no warranty whatsoever is made in connection with them. The recommendations do not take precedence over existing plant safety rules and regulations, OSHA regulations or instructions issued by the Hoist Manufacturer. It is the user's intent to absolve and protect HMI from any and all liability, in tort or otherwise.



HOIST MANUFACTURERS INSTITUTE

Members of the Hoist Manufacturers Institute, Inc.

Acco Chain & Lifting Products

Member Date 1966
P.O. Box 792
76 Acco Drive
York, PA 17405-0792
(800) 967-7333
www.accolifting.com

Ace World Companies Inc.

Member Date 1993
10200 Jacksboro Highway
Fort Worth, TX 76135
(817) 237-7700
www.aceworldcompanies.com

Chester Hoist

Member Date 1970
P.O. Box 449
7573 State Route 45, North
Lisbon, OH 44432
(330) 424-7248
www.cmworks.com

Coffing Hoists

Member Date 1957
P.O. Box 411245
Charlotte, NC 28241-7010
(704) 583-0095
www.cmworks.com

Columbus McKinnon Corporation

Member Date 1968
140 John James Audubon Parkway
Amherst, NY 14228-1197
(716) 689-5400
www.cmworks.com

Demag Cranes & Components Corp.

Member Date 1985
29201 Aurora Road
Solon, OH 44139-1895
(440) 248-2400
www.demag-us.com

Electrolift, Inc.

Member Date 1984
204 Sargeant Avenue
Clifton, NJ 07013
(973) 471-0204
www.electrolift.com

Harrington Hoists Inc.

Member Date 1976
401 West End Avenue
Manheim, PA 17545
(800) 233-3010
www.harringtonhoists.com

Ingersoll-Rand Company

Member Date 1968
P.O. Box 970
Annandale, NJ 08801
(908) 238-7000
www.irco.com

J.D. Neuhaus L.P.

Member Date 2003
9 Loveton Circle
Sparks, MD 21152
(410) 472-0500
www.jdneuhaus.com

Morris Material Handling, LLC

Member Date 1970
315 West Forest Hill Avenue
Oak Creek, WI 53154
(414) 764-6200
www.morriscranes.com

R&M Materials Handling, Inc.

Member Date 1947
4501 Gateway Boulevard
Springfield, OH 45502-9339
(937) 328-5100
www.rmhoist.com

Ratcliff Hoist Company

Member Date 1973
1655 Old County Road
San Carlos, CA 94070
(650) 595-3840
www.beratcliff@yahoo.com

STAHL CraneSystems, Inc.

Member Date 2003
6420 Dorchester Road
Charleston, SC 29418
(843) 767-1951
www.stahlus.com

Yale Lift-Tech

Member Date 1970
P.O. Box 769
Muskegon, MI 49443-0769
(231) 733-0821
www.cmworks.com