

## BELOW-THE-HOOK LIFTING DEVICE INFORMATION SHEET

1. Provide an accurate description of the loads that the device will handle.
  - a. Maximum weight of loads \_\_\_\_\_
  - b. Location of load center of gravity if not symmetrical \_\_\_\_\_
  - c. Dimensions – L x W x H, diameters, with full range of sizes \_\_\_\_\_
  - d. Are sides perfectly parallel? \_\_\_\_\_
  - e. Are sides smooth, bumpy, with low or high spots? \_\_\_\_\_
  - f. What is the material? \_\_\_\_\_
  - g. Is it brittle, malleable? \_\_\_\_\_
  - h. Can the lifting device leave marks or indentations on the material? \_\_\_\_\_
  - i. Temperature of material when it is handled? \_\_\_\_\_
  - j. Surface conditions: dry, wet, oily, dusty \_\_\_\_\_
  - k. Single piece; a stack; on a pallet; banded; un-banded? \_\_\_\_\_
  - l. Number of loads handled per hour \_\_\_\_\_
2. Operating conditions
  - a. Ambient temperature range \_\_\_\_\_
  - b. Humidity range \_\_\_\_\_
  - c. Corrosive gasses \_\_\_\_\_
  - d. Explosive dust or gasses \_\_\_\_\_
  - e. Indoor, outdoor, both? \_\_\_\_\_
3. Crane hook dimensions (usually required after order is received.)
4. Description of the existing process and how equipment is operated.
  - a. Smooth and gentle as with automation \_\_\_\_\_
  - b. Severe impact loading as in high speed manual operation \_\_\_\_\_
5. Digital photos of the load and of the application are very helpful
6. Other

Examples of attachment devices include:

- Slings and Chain
- Lift Beams
- Magnet Beams
- Vacuum Beams
- Below the Hook Lifters
- Etc.

## What is CMAA?

**What is CMAA?** CMAA is the Crane Manufacturers Association of America, Inc., and independent trade association affiliated with the Material Handling Industry. CMAA traces its roots to the Electric Overhead Crane Institute, known as EOICI, which was founded in 1927 by leading crane manufacturers of that time to promote the standardization of cranes as well as uniform quality and performance. The voluntary association was incorporated as the Crane Manufacturers Association of America, Inc., in 1955. Member Companies, representing the Crane industry, serve the world market from operations based in the United States, Canada, and Mexico.

### CMAA Mission

Our Mission is to deliver exceptional value to our end-users, channel partners, members and industry associates while serving the overhead material handling industry. CMAA achieves this through:

- Safety Advocacy
- Engineering Specifications and Standards Development
- Educational Materials
- Member Professional Development
- Recruiting and Developing a representative, active membership

### CMAA Vision

As the premier, preferred brand in the materials handling industry, CMAA:

- Is recognized as the leading advocate for the safe application and operation of overhead traveling crane equipment and related products.
- Engineering specifications are widely recognized as the preferred design standard for overhead traveling cranes, integrated crane systems, and crane components.
- Is recognized as the leading authority and the principal resource in the overhead traveling crane industry.
- Conducts business professionally with a spirit of enthusiasm, cooperation, honesty and integrity.
- Positions its Members to achieve marketplace leadership and:
  - Deliver superior value in their products and services.
  - Provide products and services that are safe and productive.
  - Provide high value and versatile solutions
  - Develop knowledgeable and expert channel partners.
  - Provide an environment in which our customers can confidently purchase and derive superior value from our products.



For information regarding membership, standards, specifications, market research initiatives, industry statistics, literature or publications. CMAA Managing Director Hal Vandiver: [hvandiver@mhia.org](mailto:hvandiver@mhia.org), Executive Assistant Cathy Moose: [cmoose@mhia.org](mailto:cmoose@mhia.org)

**CMAA**

8720 Red Oak Blvd., Suite 201  
Charlotte, NC 28217-3992  
Phone: 800-345-1815 / 704-676-1190 Fax: 704-676-1199  
URL: [www.mhia.org/cmaa](http://www.mhia.org/cmaa)

Call the Material Handling Institute Literature Department at 800-345-1815 or 704-676-1190 or go to [www.mhia.org/cmaa](http://www.mhia.org/cmaa) , "Publications and Resources", to order the following CMAA publications:

---

**#10089 – CMAA Specification 70, *Specifications for Top Running Bridge & Gantry Type Multiple Girder Electric Overhead Traveling Cranes***

The purpose of this book is to provide a basis for uniform quality and performance. This specification contains information, which should be helpful to the purchasers and users of cranes and to the engineering and architectural professions. While much of this information must be of a general nature, the items listed may be checked with individual manufacturers and comparisons made which can lead to optimum selection of equipment. 92 Pages, \$85.00 ea. plus shipping

**#10090 – CMAA Specification 74, *Specifications for Top Running and Under Running Single Girder Electric Overhead Traveling Cranes Utilizing Under Running Trolley Hoist***

This book promotes standardization and provides a basis for uniform quality and performance. It contains information which should be helpful for purchasers and users of cranes, as well as engineers and architects. Text consists of seven sections: general specifications, crane service classification, structural design, mechanical design, electrical equipment, crane inquiry data sheet and a glossary. 76 Pages, \$85.00 ea. plus shipping

**#10197 – CMAA Specification 78, *Standards and Guidelines for Professional Services Performed on Overhead Traveling Cranes and Associated Hoisting Equipment***

Specification 78 has been purposely developed by CMAA to recognize overhead traveling crane service and the service of associated hoisting equipment as an "industry" worthy of having guidelines and standards for providing high-quality, professional services performed by safety minded, manufacturer-trained and certified technicians. With the introduction of Specification 78, CMAA intends to set higher performance standards and raise customer expectations related to service of overhead traveling cranes and associated hoisting equipment. 40 Pages, \$30.00 ea. plus shipping

**#10099 – Crane Operator's Manual**

This 29-page manual lists qualifications required to be a crane operator, as well as "shall and shall not's." Safety is stressed by describing the best way to operate a crane. It also explains why a crane should be operated safely. The safety suggestions are intended to supplement company safety practices and crane manufacturers' instructions. \$5.00 ea. plus shipping

## **# 10078 - CMAA Crane Service Classes**

CMAA has established crane service classes so that the most economical crane for a particular installation may be specified in accordance with Specifications for Top Running Bridge & Gantry Type Multiple Girder Electric Overhead Traveling Cranes - No. 70 or Specifications for Top Running and Under Running Single Girder Electric Overhead Cranes Utilizing Under Running Trolley Hoist - No. 74. FREE DOWNLOAD

## **#10102 – Overhead Crane Inspection and Maintenance Checklist**

This checklist, published by the Crane Manufacturers Association of America, Inc., aids owners of overhead cranes when conducting periodic maintenance inspections. While the proper installation, operation, testing, and maintenance of cranes are a continuing responsibility of the owner/user in accordance with the current approved standards, this checklist provides a minimal list of components to be inspected regularly. \$10.00 per pack of 50 checklists, plus shipping

## **#10059 – The Fundamentals of Overhead Crane Safety Training Program**

This product is a DVD training program designed to visually reflect safe operating practices for a wide variety of cranes to successfully run an in-house overhead safety program. The package includes a 45-minute training video covering, Basic Components, Warning, Hand Signals, Pre-Energization Inspection: Cab Cranes, Pre-Energization – Floor Controlled Cranes, Inspection with Electrical Power Applied, Load Lifting, Transferring, and Depositing, Magnet and Bucket Attachments, Parking and Securing Cranes and Summary. CMAA literature is also included, CMAA Spec 70, Spec 74,, Spec 78, Crane Operators Manual and more. \$395.00 ea. plus shipping

## **#10098 – Operational Guide for Lifting Devices**

The Operational Guide for Lifting Devices are guidelines intended to provide you with general procedures for installation, inspection, maintenance and repairs, and operation and operator training for below-the-hook lifting devices. Lifting devices, sometimes called below-the-hook lifters, attach hoists to their loads. FREE DOWNLOAD

## **#10210 – Multiple Girder Buyer's Guide, For Top Running Bridge & Gantry Type Multiple Girder Electric Overhead Traveling Cranes**

CMAA has organized this Buyer's Guide to promote standardization and to assist prospective buyers of electric overhead traveling cranes in selection of equipment most suitable for their application. FREE DOWNLOAD.

## **#10211 – Single Girder Buyer's Guide, For Top Running and Under Running Single Girder Electric Overhead Traveling Cranes Utilizing Under Running Trolley Hoist**

CMAA has organized this Buyer's Guide to promote standardization and to assist prospective buyers of electric overhead traveling cranes in selection of equipment most suitable for their applications. FREE DOWNLOAD

## **#10212 – Below The Hook Devices Buyers Guide**

CMAA has organized this Buyer's Guide to promote standardization and to assist prospective buyers of below-the-hook lifting devices in selection of equipment most suitable for their application. FREE DOWNLOAD

### **#10198 – Overhead Material Handling Market History and Forecast**

This 59-page presentation has been developed for professional researchers interested in learning more about the statistical characteristics of the overhead material handling market for planning purposes. Information is presented in chart form to reveal information about market size and growth, product mix, domestic production, imports, exports, consumption, capacity utilization, economic indicators, market potential and a variety of other insights. Source data has been gathered principally from the U.S. Department of Commerce (USDOC), the U.S. International Trade Commission (USITC), the U.S. Bureau of Economic Analysis (BEA) and the U.S. Federal Reserve Board (FRB). Insights are provided by MHIA Staff and the Managing Director of CMAA, HMI and MMA, independent trade associations affiliated with the Material Handling Industry of America. (NOTE: This document will be emailed to you after you complete your order. This could take up to 24 hours – please do not order if you need it immediately). \$750.00

### **#10036 – Selecting the Right Overhead Crane**

This publication concentrates on the owner's responsibility to select a qualified crane supplier by highlighting a number of factors as they pertain to application and facility. FREE DOWNLOAD

### **#10091 – CMAA Consensus of the national Electrical Code**

The 1996 National Electrical Code has a number of paragraphs affecting cranes. Some of these paragraphs are subject to verifying interpretations. The information published represents the consensus of interpretation by members of the Crane Manufacturers Association of America, Inc. and is shown in block form with 1996 N.E.C. references, followed by explanatory notes. FREE DOWNLOAD

### **#10034 – What is CMAA?**

This brochure provides a general overview of the Crane Manufacturer's Association, Inc., its membership, literature and publications. FREE DOWNLOAD.

### **#10085 – MH27.1, *Specification for Patented Track Underhung Cranes & Monorail Systems***

Approved and published in 2009, this publication was developed by the Monorail Manufacturers Association, Inc. to assist manufacturers and users of underhung cranes and monorail systems. This specification was originally approved as an MMA consensus standard in 1973, was subjected to the ANSI Canvass Review Process, and is now available as an American National Standard. Includes discussion of curves, switches, transfer devices, trolleys, lift and drop sections and associated equipment.

### **#10087 – MH27.2, *Specification for Enclosed Track Underhung Cranes & Monorail Systems***

Approved and published in 2009, this publication was developed by the Monorail Manufacturers, Inc. in the interest of improved uniformity of underhung crane and monorail performance and enhanced public safety. This standard, that was developed under the ANSI Canvass method and approved by ANSI on December 2, 2009, represents suggested design practices and performance testing criteria for crane and monorail equipment. It was developed with the sole intent of offering information to parties engaged in the manufacture, marketing, purchase, or use of crane and monorail equipment.



**Members of the Crane Manufacturers Association of America**

**Acco Material Handling Solutions**

76 Acco Drive  
York, PA 17405  
(800) 967-7333  
[www.accomhs.com](http://www.accomhs.com)

**COH Inc.**

801 Cure Boivin  
Boisbriand, QC J7G 2J2 Canada  
(450) 430-6500  
[www.coh.ca](http://www.coh.ca)

**EMH, Inc.**

550 Crane Drive  
Liverpool Industrial Park  
Valley City, OH 44280-9361  
(330) 220-8600  
[www.emhcranes.com](http://www.emhcranes.com)

**Ace Industries, Inc.**

6295 McDonough Drive  
Norcross, GA 30093  
(800) 733-2231  
[www.aceindustries.com](http://www.aceindustries.com)

**Conductix-Wampfler**

10102 F Street  
Omaha, NE 68127  
(402) 952-9313  
[www.conductix.us](http://www.conductix.us)

**Expert Crane**

10737 Leuer Avenue  
Cleveland, OH 44108  
(800) 860-6680  
[www.expertcrane.com](http://www.expertcrane.com)

**Ace World Companies Inc.**

10200 Jacksboro Highway  
Fort Worth, TX 76135  
(817) 237-7700  
[www.aceworldcompanies.com](http://www.aceworldcompanies.com)

**Control Chief Corporation**

200 Williams Street  
Bradford, PA 16701  
(814) 362-6811  
[www.controlchief.com](http://www.controlchief.com)

**Foley Material Handling Co., Inc.**

11327 Virginia Crane Drive  
Ashland, VA 23005  
(804) 798-1343  
[www.virginiacrane.com](http://www.virginiacrane.com)

**American Crane & Equipment**

531 Old Swede Road  
Douglassville, PA 19518  
(610) 385-6061  
[www.americancrane.com](http://www.americancrane.com)

**Crane Equipment & Service Inc.**

801 W. Center Street  
Eureka, IL 61530  
(800) 548-2930  
[www.ces-cranes.com](http://www.ces-cranes.com)

**G.W. Becker, Inc.**

2600 Kirila Boulevard  
Hermitage, PA 16148  
(724) 983-1000  
[www.gwbcrane.com](http://www.gwbcrane.com)

**Bushman AvonTec**

W133 N4960 Campbell Drive  
Menomonee Falls, WI 53051  
(800) 338-7810  
[www.BushmanAvonTec.com](http://www.BushmanAvonTec.com)

**Demag Cranes & Components**

29201 Aurora Road  
Solon, OH 44139  
(440) 248-2400  
[www.demag-us.com](http://www.demag-us.com)

**Harrington Hoists Inc.**

401 West End Avenue  
Manheim, PA 17545  
(800) 233-3010  
[www.harringtonhoists.com](http://www.harringtonhoists.com)

**Capco Crane & Hoist Inc.**

58 Forest Ridge Drive  
Rowley, MA 01969  
(800) 747-3714  
[www.capcocrane.com](http://www.capcocrane.com)

**Deshazo Crane Company LLC**

190 Airpark Industrial Road  
Alabaster, AL 35007  
(205) 664-2006  
[www.deshazo.com](http://www.deshazo.com)

**HBC-radiomatic, Inc.**

1017 Petersburg Road  
Hebron, KY 41048  
(800) 410-4562  
[www.hbc-usa.com](http://www.hbc-usa.com)

**Cattron Group International**

58 West Shenango Street  
Sharpsville, PA 16150  
(724) 962-3571  
[www.cattrongroup.com](http://www.cattrongroup.com)

**Ederer, LLC**

3701 South Norfolk St., Suite 301  
Seattle, WA 98118-5650  
(206) 622-4421  
[www.ederer.com](http://www.ederer.com)

**Heco Pacific Mfg., Inc.**

1510 Pacific Street  
Union City, CA 94587  
(510) 487-1155  
[www.hecopacific.com](http://www.hecopacific.com)

**Konecranes America,**  
7300 Chippewa Boulevard  
Houston, TX 77086-3231  
(800) 231-0241  
[www.konecranes.com](http://www.konecranes.com)

**Magnetek, Inc.**  
N49 W 13650 Campbell Drive  
Menomonee Falls, WI 53051  
(800) 288-8178  
[www.magnetekmh.com](http://www.magnetekmh.com)

**North American Industries, Inc.**  
80 Holton Street  
Woburn, MA 01801  
(781) 897-4100  
[www.naicranes.com](http://www.naicranes.com)

**OMI Crane Systems, Inc.**  
1515 I-20 Service Road  
Royse City, TX 75189  
(972) 636-8000  
[www.omicranes.com](http://www.omicranes.com)

**PaR Nuclear Inc.**  
899 Highway 96 West  
Shoreview, MN 55126  
(651) 415-4201  
[www.parnuclear.com](http://www.parnuclear.com)

**ProservAnchor Crane Group**  
455 Aldine Bender  
Houston, TX 77060  
(281) 405-9048  
[www.proserveanchor.com](http://www.proserveanchor.com)

**Sissco Material Handling Equip.**  
186 Route 206 South  
Hillsborough, NJ 08844  
(908) 359-9767  
[www.sisscohoist.com](http://www.sisscohoist.com)

**Spanco, Inc.**  
Morgantown Business Park  
604 Hemlock Road  
Morgantown, PA 19543  
(800) 869-2080  
[www.spanco.com](http://www.spanco.com)

**TransTech-Power Transfer Sys.**  
709 Augusta Arbor Way  
Piedmont, SC 29673  
(864) 299-3870  
[www.transtech.com](http://www.transtech.com)

**Whiting Corporation**  
26000 S. Whiting Way  
Monee, IL 60449  
(708) 587-2000  
[www.whitingcorp.com](http://www.whitingcorp.com)

**Yale Hoists**  
240 Pennsylvania Avenue  
Salem, MI 44460  
(800) 742-9269  
[www.yalehoists.net](http://www.yalehoists.net)

**Zenar Corporation**  
7301 South 6<sup>th</sup> Street  
Oak Creek, WI 53154  
(414) 764-1800  
[www.zenarcrane.com](http://www.zenarcrane.com)