



Chain & Attachments

A yellow horizontal banner containing technical line drawings of various rigging components. On the left, there is a drawing of a hook and a vertical pin. In the center, a drawing of a hoist or winch. On the right, a drawing of a hook and a vertical pin. Below the banner, there are two small yellow hook icons, one on the left and one on the right.

Distributed By

M^cLaughlin Hoist & Crane

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Columbus McKinnon Corporation's rich tradition of providing quality products and services to meet the needs of users in a variety of industries around the globe continues with an expanded line of chain and attachments by CM Rigging Products. Used by professional riggers, maintenance workers, plant engineers and safety specialists to lift, pull, and secure loads, the broad product offering allows users to select the proper product for everyday use or for those challenging, unique applications which arise during the course of a project. An integral part of the "CM Complete Lifting Systems," chain and attachments come in a wide range of configurations and capacities.



The line of Herc-Alloy 1000 chain with its exceptional working load limits has developed a following in industries where strength to weight ratios of the chain are vital. Herc-Alloy 1000 has a 25% higher working load limit when compared to its Grade 80 counterparts, and may allow a worker to lift using a smaller, lighter chain than has traditionally been used. Herc-Alloy 1000 chain is provided as a stand-alone product, but is normally part of an overhead lifting sling containing Grade 100 fittings such as hooks, Hammerlok coupling devices, and master links. The innovative Latchlok 100 hooks that can be supplied as part of overhead lifting chain slings provide maximum security in a user-friendly attachment.



The Super Strong Shackle is made from a special micro-alloy material, and provides higher working load limits than traditional carbon shackles. These shackles are used extensively in construction activities, and are part of a broad offering from the company's extensive forging.



Camlok Lifting Clamps provide stability when lifting steel plates, aluminum, glass, or rails. Numerous configurations and styles are available such as gentle grip clamps that will not harm the surfaces of the load, wide jaw clamps for special lifts, and horizontal lifting clamps used in pairs. Cady Lifters provides an extensive range of C-Hooks, spreader beams, and crane forks, and also develops individual products to meet specific customer requests. Hoist rings in forged and machined styles provide flexibility when lifting equipment and machinery at various angles.

If load securement is the goal, then load binders from Dixie Industries fit the bill. Ratchet and lever styles, specialty binders, and binder chain assemblies in various lengths provide over-the-road truckers with superior security. Various towing hooks and clusters are also an important product segment for Dixie, and the engineering group is consistently exploring unique opportunities from customers.



Rounding out the product offering is a thorough line of industry-specific specialty chain. From buoy chain to conveyor chain, CM Rigging Products offers one of the most extensive lines in the industry.

Although the broad product offering is one aspect of CM Rigging Products that provides separation from the competition, many additional services stand out:

- A global network of authorized distributors provides inventory, technical support, service after the sale, and consultation regarding specific needs.
- A thoroughly trained, knowledgeable sales force provides expertise on applications, regulations, training requirements, and product features and benefits.
- Customer service representatives address an array of issues related to shipments, product selection, specifications, and auxiliary items.
- Manufacturing facilities where testing exceeds the standards outlined by industry regulations.
- An engineering staff at manufacturing locations that works on developing unique solutions to opportunities.
- Training programs dedicated specifically to rigging products or broad-based to cover all aspects of lifting and positioning.
- The ONLY manufacturer of rigging products that is also a LEADER in the manufacturing and marketing of hoists, overhead cranes, and related products.
- More than 130 years of experience in providing products and programs that exceed the expectations of customers.
- Some of the most recognized names in the material handling industry including the following that are registered in the U.S. Patent and Trademark Office: Big Orange, Clevlok, CM, Cradle Grab, E-Z Pro, Hammerlok, Herc-Alloy, Lister, PiggyBack, Latchlok. Additionally, the following are trademarks of Columbus McKinnon Corporation: Cady, Dixie.

CM Rigging Products – an extensive mix of products, services, and support and a growing segment of Columbus McKinnon Corporation.

Warning

Columbus McKinnon Corporation assumes no responsibility for the misuse or misapplication of any of its products. Products are provided with the express understanding that the purchaser and user are thoroughly familiar with the correct application and proper use of such products in rigging.

▲ WARNING ▲

Improper use or care of chain can result in loss of load and/or personal injury

To avoid injury:

- Do not exceed the working load limit.
- Always inspect chain before use for wear, damage, and elongation, Do not impact load or jerk chain. Apply load slowly.
- Protect chain from corrosion and high temperatures.
- Use only alloy chain and attachments for overhead lifting.
- Do not use twisted, knotted, or kinked chain.
- Select the proper grade and size chain for the application.
- Select attachments such as hooks to match the grade, size, and working load limit of the chain.
- Be aware of the environment where chain and hardware are being used. Extreme temperatures and corrosive media can affect the working load limit life of chain and hardware.

▲ WARNING ▲

Improper use of rigging attachments can result in bodily injury or property damage

To avoid injury:

- Do not exceed the working load limit.
- Do not tip load or use attachments in any manner for which they were not intended.
- Do not shock or dynamic load.
- Do not apply load to latches. Latches are to retain slack slings and chain only.
- Select attachments to match the grade, size, and working load limit of the chain.
- Do not use excessively worn or damaged attachments.
- Do not use mechanical coupling links to repair alloy chains used for overhead lifting.
- When using master rings or master links, do not use oversize crane hooks where the link does not fit in the saddle of the hook.
- When using shackles, do not side load. Centerline of the load must coincide with centerline of shackle.
- Do not replace pins or bolts with other than original equipment parts.
- Use only forged carbon wire rope clips for critical or lifting applications.
- Do not use malleable iron wire rope clips for critical or lifting applications.
- Use wire rope clips in conjunction with wire rope thimbles.
- When using shoulder eyebolts, always apply load in the plane of the eye.
- When using shoulder eyebolts, make sure shoulder is at 90 degrees to axis of hole and seated.
- When using hoist rings, verify full 360 degree seating and re-torque periodically.
- Do not move unbalanced loads.
- When using load binders, do not use a cheater bar or handle extension.
- Do not operate a load binder while anyone is on the load.
- Release lever type load binders with extreme care. Make sure everyone is clear of the load as handle may whip suddenly.

For complete care, use, and inspection information, refer to the
"CM Lifting, Pulling, & Binding Products Manual #PMC-10.

Chain Comparison

CM offers a wide range of welded chains. All chains meet or exceed requirements of NACM & ASTM standards. All chain is proof tested to insure you get the highest quality chain in the market. Listed below you will find a summary of chain specifications, which can be used as a comparison when selecting the chain for your application. Only Herc-Alloy 1000 or Herc-Alloy 800 chain should be used for overhead lifting.



Chain Size	Wire Diameter Nominal	Inside Length Nominal	Inside Width Nominal	Weight Per 100 ft.	Working Load Limit
Herc-Alloy 1000 (Grade 100)					
in.	in.	in.	in.	lb.	lb.
7/32	0.218	0.676	0.312	44.3	2,700
9/32	0.281	0.883	0.395	72.9	4,300
3/8	0.394	1.247	0.574	144.0	8,800
1/2	0.512	1.559	0.734	246.0	15,000
5/8	0.630	1.916	0.855	370.0	22,600
3/4	0.787	2.397	1.070	577.0	35,300
Herc-Alloy 800 (Grade 80)					
in.	in.	in.	in.	lb.	lb.
7/32	0.218	0.676	0.312	44.3	2,100
9/32	0.281	0.883	0.395	72.9	3,500
5/16	0.315	1.019	0.455	90.9	4,500
3/8	0.394	1.247	0.574	144.0	7,100
1/2	0.512	1.440	0.734	255.0	12,000
5/8	0.630	1.777	0.855	382.3	18,100
3/4	0.787	2.234	1.070	595.0	28,300
7/8	0.875	2.250	1.137	776.0	34,200
1	1.000	3.070	1.490	939.0	47,700
1-1/4	1.250	3.920	1.740	1,420.0	72,300
Transport (Grade 70)					
in.	in.	in.	in.	lb.	lb.
1/4	0.281	0.840	0.470	76.4	3,150
5/16	0.327	0.980	0.460	100.5	4,700
5/16	0.327	1.100	0.500	96.9	4,700
3/8	0.394	1.140	0.540	158.0	6,600
3/8	0.394	1.375	0.600	139.0	6,600
1/2	0.531	1.559	0.734	267.0	11,300
High Test (Grade 43)					
in.	in.	in.	in.	lb.	lb.
1/4	0.270	1.220	0.460	60.0	2,600
5/16	0.327	1.100	0.500	98.1	3,900
3/8	0.386	1.370	0.600	133.0	5,400
1/2	0.500	1.730	0.810	227.0	9,200
5/8	0.625	1.916	0.855	363.0	13,000
3/4	0.781	2.397	1.070	568.0	20,200
Proof Coil (Grade 30)					
in.	in.	in.	in.	lb.	lb.
3/16	0.213	0.970	0.360	37.3	800
1/4	0.270	1.220	0.460	60.1	1,300
5/16	0.309	1.220	0.460	81.2	1,900
3/8	0.386	1.370	0.600	132.8	2,650
1/2	0.512	1.730	0.810	245.3	4,500
5/8	0.625	1.916	0.855	363.0	6,900
3/4	0.781	2.397	1.070	568.0	10,600



The advertisement features a central logo for Columbus McKinnon Corporation, surrounded by various pieces of industrial equipment. At the top, there are several types of shackles and hooks in orange and black. To the left, a Yale brand hoist is shown with a yellow pulley. To the right, there is a yellow and black hook and a red hook with a chain. Below these are two sets of chains with hooks. In the center, there are three pieces of equipment: a yellow jib crane, a yellow overhead crane, and a yellow forklift with a hoist attachment. The background consists of a white and grey geometric pattern of triangles.

CMC

COLUMBUS McKINNON
CORPORATION

Columbus McKinnon provides the most extensive product line in the industry and offers technical expertise to assist workers in industries around the world. From powered hoists to jib cranes to below-the-hook attachments, look for the only company that is a single source for all items. For 135 years, Columbus McKinnon has meant durability and reliability for generations of users. Look for one of the many popular brands when sourcing your material handling products at:

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