MINING
HOISTS & RIGGING
PRODUCTS FOR
MINING

Manual Hoists
Chain & Rigging Attachments
Specialized Attachments
Liner Bolts

Columbus McKinnon Family of Brands
In today’s modern mining operations, your workers and machines are there to keep your resources moving. But if your equipment or your workers are out of commission for any length of time, the entire operation suffers and deadlines are missed.

Columbus McKinnon offers a full line of chains, rigging equipment, liner bolts, manual hoists and lever tools — all of which are proven products in the mining industry. For special applications, our jib cranes and enclosed track systems provide convenient overhead attachment points and allow freedom of movement in any direction. From the plant to the long wall, Columbus McKinnon is your one source for all your material handling products. Standardizing on crane, hoist, and rigging products within the various areas of the mine can help you:

- Reduce cost of spare parts inventory
- Reduce maintenance cost through common labor tasks
- Simplify training of personnel on the use and maintenance of equipment
- Shorten the design time and approval process of cranes
- Reduce costs associated with the procurement process

After installation, our product support continues with expert maintenance training programs and a global network of service centers and parts distributors.

DISCOVER MORE AT WWW.CMWORKS.COM/MINING
The LSB-M has the easiest to operate free-chaining mode of any lever hoist, and offers one-handed operation, even with gloved hands. The rugged, portable, and impact-resistant, stamped steel housing is built to withstand rigorous use. **Mine Ready** features include heavy-duty forged hook latches, and large hook openings.

**Coffing Hoists**

**Model LSB-M**

**Capacities:** 3/4, 1-1/2 & 3 Ton

The LSB-M has the easiest to operate free-chaining mode of any lever hoist, and offers one-handed operation, even with gloved hands. The rugged, portable, and impact-resistant, stamped steel housing is built to withstand rigorous use. **Mine Ready** features include zinc plated load chain, heavy-duty forged hook latches and large hook openings, easy to grip chain end-stop, durable baked-on powder coat finish, and open frame design for easy inspection. Available with an optional Load Limiter.

**Coffing Hoists**

**Model LHH-M**

**Capacities:** 1/2 to 3 Ton

The LHH-M is a compact and lightweight workhorse designed for portability, easy installation and low headroom applications. Its stamped steel housing is built to withstand the rugged conditions of the mining industry. **Mine Ready** features include zinc plated through-hardened load chain, zinc plated hand chain, heavy-duty forged hook latches and large hook openings, durable baked-on powder coat finish. Available with an optional Load Limiter.

**Super Strong Shackles**

**Anchor Type**

WLL from 1/2 ton to 35 ton
- Available in Screw Pin, Round Pin and Bolt/Nut/ Cotter Pin styles
- Outperform standard quenched & tempered carbon shackles
- Rated for overhead lifting
- Meet or exceed federal specification RRC-271D & ASME B30.26

**Chain Type**

WLL from 3/4 ton to 35 ton
- Available in Screw Pin, Round Pin and Bolt/Nut/ Cotter Pin styles
- Outperform standard quenched & tempered carbon shackles
- Rated for overhead lifting
- Meet or exceed federal specification RRC-271D & ASME B30.26

**Long Reach Shackles**

Working load limits from 10,000 lb. to 34,000 lb.
- Rated for overhead lifting
- Alloy steel
- Load rated
- Meet or exceed ASME B30.26
- Proof tested at 2.2 times the working load limit
- Ultimate strength equals five times working load limit
LONG WALL MINING PRODUCTS

**CHAIN**

Sizes available: 14mm x 50mm, 18mm x 64mm, 22mm x 96mm, 26mm x 92mm
- Available in carburized or thru hardened
- Calibrated to assure fit when assembling assemblies
- Match pairs in various lengths are available.

**PADLESS SHACKLE CONNECTOR**

1 bolt and 2 bolt configurations
- Specially forged for proper form and fit to CM mining chain
- Precision drilled for superb fitting

**SPECIAL CHAIN CONNECTOR**

1 bolt and 2 bolt configurations
- Specially forged for proper form and fit to CM mining chain
- Precision drilled for superb fitting

**PADLESS BOLTS, WASHERS & SEALS**

Tooling for most configurations inventoried. Special custom dies available.
- Hot forged
- Designed to maximize the life of the bolt and the mill liners
- Patented metal cup washer and seal assemblies eliminate seepage

**TURN-BUCKLES**

Connections available: Eye & Eye, Hook & Hook, Hook & Eye, Jaw & Eye, Jaw & Jaw
- Made from alloy material
- Proof tested at two times WLL
- Durable gray powder coated finish
- Custom sizes available upon request

**HANGER CHAIN**

Grade 43 or Grade 30
- G43 - Working load limits from 2,600 lb. to 5,400 lb.
- G30 - Working load limits of 1,300 lb. and 1,900 lb.
- Available in custom lengths for your specific application

**WINCH LINE/TAIL CHAIN**

GRADE 80
- WLL from 18,100 lb. to 47,700 lb.
- Most comprehensive line in the market
- Odd number of links to prevent twisting of chain during hook up
- All assemblies 100% proof tested

**TIEDOWNS**

GRADE 80 & 100
- WLL from 4,500 lb. to 12,000 lb.
- Meets FMCSA, CVSA tiedown requirements
- High quality alloy steel
- Can not be used for overhead lifting
- Higher strength-to-weight ratio than standard binder chains
- Does not degrade in UV light

**ALLOY CHAIN**

Grade 80 or Grade 100
- Rated for overhead lifting
- Grade 100 chain sizes from 7/32” (2,700 lb. WLL) to 3/4” (35,300 lb. WLL)
- Grade 80 chain sizes from 7/32” (2,100 lb. WLL) to 1-1/4” (72,300 lb. WLL)

**ALLOY CHAIN SLINGS**

Grade 80 or Grade 100
- Rated for overhead lifting
- Single, double, triple, quad slings available with several options for the master link, end link and hook

**LOAD BINDERS**

Models available: Lever-Type, Claw Hook, Ratchet-Type, Tightener, Removable Handle, Specially Forged Lever-Type, E-Z Pro Cam Release Lever-Type
- Grades 30, 43, 70, 80 and 100
**MID GRIP CLIPS**
3/16" to 3/4" sizes
- Forged
- Meets or exceeds FF-C-450 specs, Type III, Class 1 & provides max holding strength
- Allows full arc wrench swing for quicker installation, retightening or disassembly of nuts
- Galvanized with galvanized heavy hex nuts

**HEAVY DUTY HOIST RING**
500 lb. to 30,000 lb. rated loads
- Forged
- Pivot 180° and swivels 360° simultaneously
- Back and side pins constructed of one piece of forged alloy steel
- 100% magnetic particle inspected
- Large bale allows use of a variety of hook sizes

**WIRE ROPE GRIPS**
Bulldog-Type, Parallel with Aggressive & Fine Teeth, Parallel with Fine Teeth
- Forged steel construction, yet durable and lightweight
- Yellow Chromate finish protects components from corrosion
- Rated for several wire sizes - few grip changes
- Grips open & remove from the wire quickly

**PIGGYBACK WEDGE SOCKET CLIPS**
3/8" to 1-1/2" sizes
- Galvanized to resist corrosion
- Reduces shear off at wedge socket

**WIRE ROPE CLIPS**
1/8" to 1-1/2" sizes
- Hot dipped
- Galvanized to resist corrosion
- Meets or exceeds FF-C-450 Type 1, Class 1 for 1/4" and larger

**SPECIALTY ENGINEERED HOIST RING**
550 lb. to 100,000 lb. rated loads
- Machined
- Pivot 180° and swivels 360° simultaneously
- Patented design provides shoulder pin retention with specialized clip
- Easily disassembled for periodic non-destructive inspection

**SHOULDER EYEBOLTS**
Working load limits from 500 lb. to 21,000 lb.
- Forged Steel
- Heat treated, quenched and tempered
- Meets IFI standards, ASTM A 489, ANSI/ASME B18.15

Available in metric sizes from 400 kg. to 13,500 kg.

Available in stainless steel and metric sizes

For our full product offering visit [www.cmworks.com/mining](http://www.cmworks.com/mining)
Columbus McKinnon is a global leader in providing expertise and training in the proper use and inspection of rigging and overhead lifting equipment. With a range of comprehensive programs and seminars conducted at venues throughout North America, as well as on site at private companies and industries, Columbus McKinnon courses include:

- Hoist Maintenance
- Load Securement
- Crane & Hoist Inspection
- Mobile Crane Operator
- Rigging
- Safe Hoisting
- Crane Operator Training
- Rigging Gear Inspection

Classes are available at our Niagara Training Center and the state-of-the-art Hoist & Rigging Training Center of Excellence in the Center for Occupational Health and Automobile Manufacturing (COHAM) lab at The Ohio State University. The COHAM lab is a hands-on learning center which allows attendees to understand how to properly use and inspect overhead lifting equipment. This leading edge training program is designed to increase workplace productivity and safety in a ergonomically friendly environment.

In addition to the strong knowledge base exemplified by comprehensive training programs, Columbus McKinnon is one of the only manufacturers supplying complete lifting systems to satisfy unique material handling requirements of users in a variety of environments. From jib cranes and hoists to chain slings, clamps, and related attachments; systems include products that are matched specifically to the lifting needs of the application. Products may also be modified in order to ensure that the proper system is in place for the job.

Whether your needs call for a single CM Hurricane 360° or a completely engineered system to outfit your mining operation, Columbus McKinnon provides the products and expertise to keep your workforce productive and safe.