



# MAN GUARD<sup>TM</sup>

## ELECTRIC CHAIN HOIST



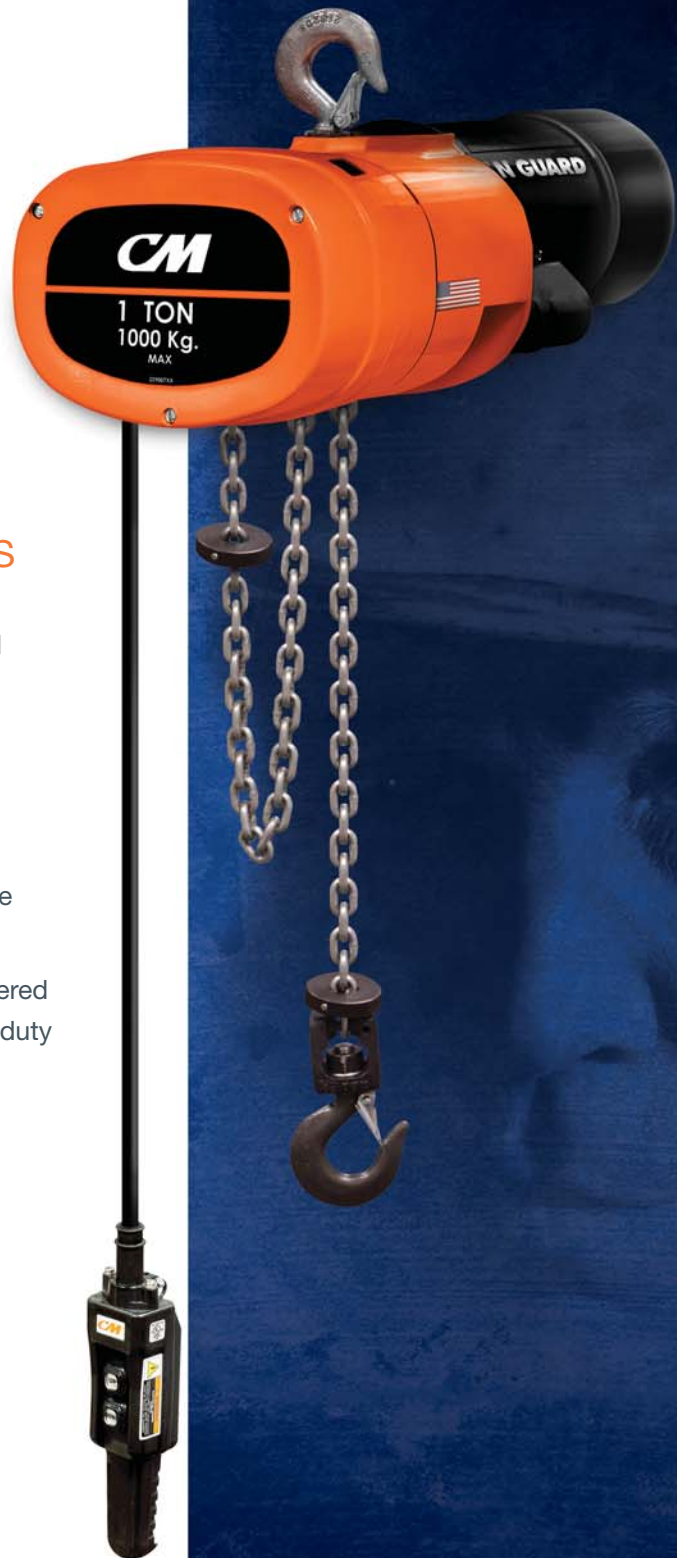
C O L U M B U S   M c K I N N O N   C O R P O R A T I O N

## **CM<sup>®</sup> MAN GUARD<sup>™</sup>** WITH CAPACITIES UP TO 3 TONS

The CM<sup>®</sup> Man Guard<sup>™</sup> electric chain hoist is well established in the material handling industry, known for its reliable performance and best-in-class safety features. Staying true to its name, the CM Man Guard provides operator safety through superior overload protection designed to prevent serious injury or catastrophic damage to the hoist, load and supporting structure.

Made in the USA, the CM Man Guard is engineered for a long and dependable service life in heavy-duty applications. With an eco-friendly design, easy access to key components and less required maintenance, the Man Guard is a reliable and easy-to-use hoist for any industry –

**and now it's CSA Approved.**







# MAN GUARD<sup>TM</sup>

## ELECTRIC CHAIN HOIST

Designed for safety and ease of use, the CM<sup>®</sup> Man Guard<sup>TM</sup> electric chain hoist is ideal for heavy-duty lifting applications. This versatile hoist meets CSA, ANSI and ASME standards and is now guaranteed to ship in 3 business days or less through our In-Stock Guarantee.



### BENEFITS & FEATURES

#### CAPACITIES & LIFT

Capacities of 1/4 to 3 tons. Metric Rated. Standard lifts up to 20 feet. Additional lifts available.

#### LIFTING SPEEDS

5 to 32 FPM lifting speeds.

#### OVERLOAD PROTECTION

Overload clutch prevents lifting an over-capacity load, helping to avoid serious operator injury or catastrophic damage to the hoist, load or supporting structure.

#### READY FOR HEAVY-DUTY APPLICATIONS

H4-duty motor classification for heavy-duty use.

#### LONGER SERVICE LIFE

- Class F insulation and thermal switch in motor winding reduces overheating and increases service life.
- Helical spur gears are oil bath lubricated to provide better wear and extend gear life while reducing noise.
- Standard powder-coat finish on housing and zinc-plated chain provide extra protection against corrosion when working in harsh environments.
- Hard-wired power and pendant cords reduce risk of corrosion and loose connections.

#### IMPROVED SERVICEABILITY

- Open design provides quick access to control panel and AC brake for one-step adjustment.
- Simple wiring change allows operator to easily switch voltages from 115 to 230V for single-phase applications.

#### ECO-FRIENDLY ENERGY SAVER

Efficiently designed gear train allows a smaller horsepower motor to operate at the same speeds and duty as our competition while reducing energy consumption. Hoist is also shipped in boxes made of recycled material.

#### HOIST CONTROLS

Single-speed and 2-speed units standard.

#### HOOK SUSPENSION

Allows operator to easily move and position the hoist.

#### AC POWER SUPPLY

115/230 1-60 HZ; 230/460 3-60 HZ  
reconnectable voltage.  
575 3-60 HZ.

#### BUILT-IN COMPLIANCE

CSA/US approved. Also complies with ASME/ANSI B30.16, ASME HST-1 and NEC electrical codes.



#### GUARANTEED TO SHIP IN 3 DAYS OR LESS

Select Man Guard units are eligible for our In-Stock Guarantee.

**SEE THE MAN GUARD IN ACTION**  
Scan this QR Code with your smart phone



# Key Components of the Man Guard

## HEAVY-DUTY MOTOR BRAKE

AC spring-set disc brake provides positive braking action and long life with minimal maintenance. Easy 1-step adjustment procedure.

## POWDER COAT FINISH

Provides a durable, long-lasting finish and added resistance to corrosion and harsh environments.

## DIE-CAST ALUMINUM ALLOY HOUSING & FRAME

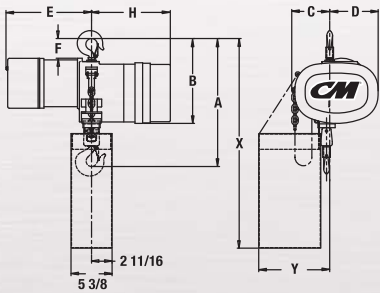
Lightweight and rugged housing is precision machined for accurate gear and bearing alignment.

## HIGH-TORQUE, HEAVY-DUTY HOIST MOTOR

Motors are H4, 30-minute rated with standard Class F insulation and include a thermal-actuated switch (TAS) embedded in the motor winding for added protection.

## GEARING

Precision-machined gearing is totally enclosed and oil-bath lubricated for long life. Efficient design allows for a smaller horsepower motor, which reduces energy consumption and prevents power breakers from tripping due to a high in-rush and running current.



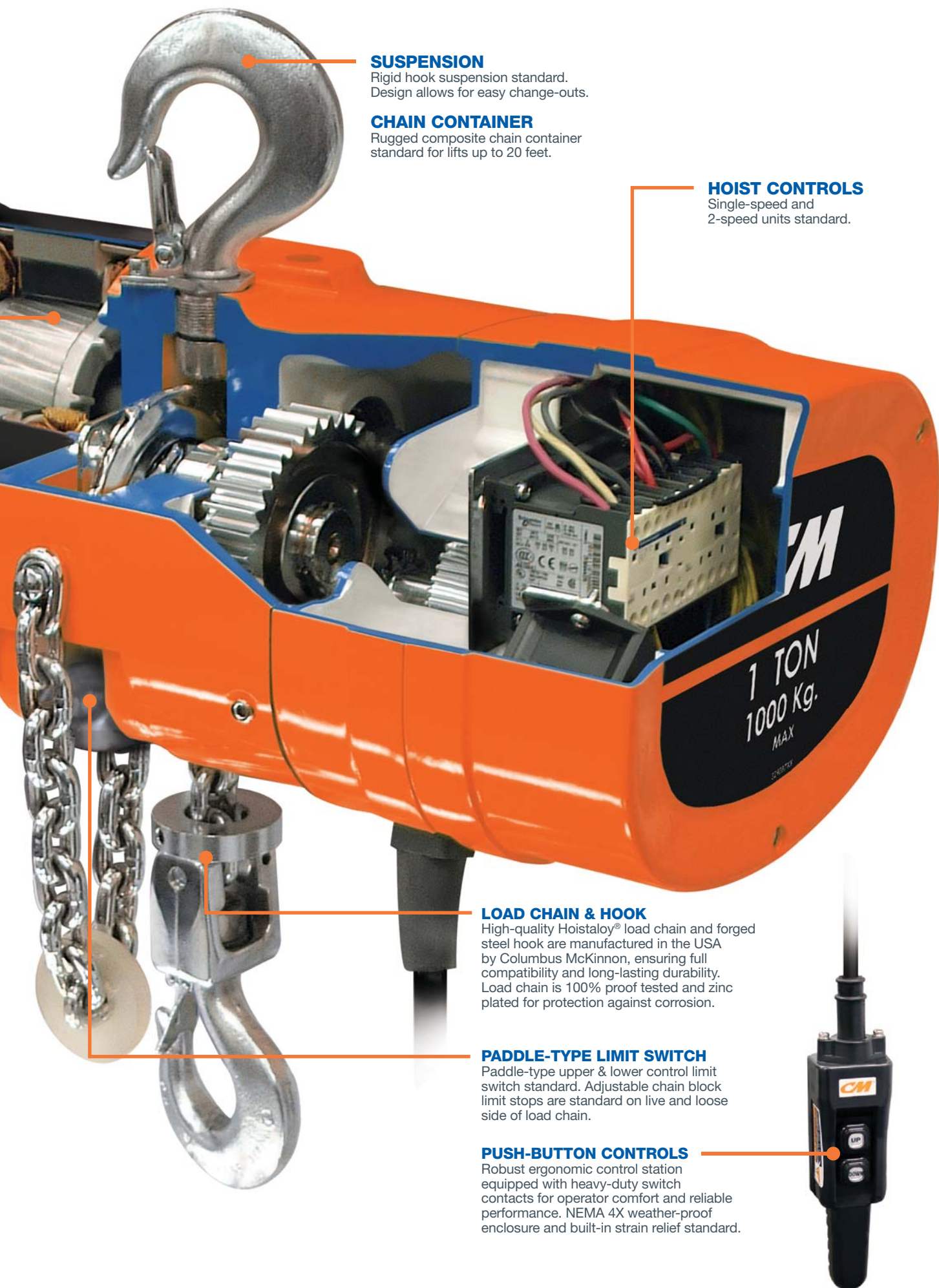
	Capacity (Metric Tons)	Model Number	Lift Speed (FPM)	Motor HP	Parts of Chain	Weight lbs. (kg.)	Dimensions in. (mm)									
							A	B	C	D	E* Max.	F	G	H	X**	Y
SINGLE SPEED MODELS	1/4	MG2516	16	1/4	1	77 (34.9)	16-3/4 (425.45)	11-1/8 (282.58)	5 (127)	6-5/16 (160.34)	14-1/4 (361.95)	2-9/16 (65.09)	15/16 (23.81)	10-5/16 (261.94)	21-5/8 (549.28)	9-1/2 (241.3)
		MG2532	32	1/2		80 (36.3)	16-3/4 (425.45)	11-1/8 (282.58)	5 (127)	6-5/16 (160.34)	14-1/4 (361.95)	2-9/16 (65.09)	15/16 (23.81)	10-5/16 (261.94)	21-5/8 (549.28)	9-1/2 (241.3)
	1/2	MG5016	16	1/2	1	80 (36.3)	16-3/4 (425.45)	11-1/8 (282.58)	5 (127)	6-5/16 (160.34)	14-1/4 (361.95)	2-9/16 (65.09)	15/16 (23.81)	10-5/16 (261.94)	21-5/8 (549.28)	9-1/2 (241.3)
		MG5032	32	1		81 (36.7)	16-3/4 (425.45)	11-1/8 (282.58)	5 (127)	6-5/16 (160.34)	14-1/4 (361.95)	2-9/16 (65.09)	15/16 (23.81)	10-5/16 (261.94)	21-5/8 (549.28)	9-1/2 (241.3)
	1	MG0116	16	1	1	89 (40.4)	17-1/2 (444.50)	11-7/16 (290.51)	5-1/8 (130.18)	6-5/16 (160.34)	14-1/4 (361.95)	2-15/16 (74.61)	1-1/8 (28.58)	10-5/16 (261.94)	21-5/8 (549.28)	9-1/2 (241.3)
		MG0132	32	2-1/2		95 (43.1)	17-1/2 (444.50)	11-7/16 (290.51)	5-1/8 (130.18)	6-5/16 (160.34)	14-1/4 (361.95)	2-15/16 (74.61)	1-1/8 (28.58)	11-5/16 (287.34)	21-5/8 (549.28)	9-1/2 (241.3)
	2	MG0208	8	1	2	111 (50.3)	23 (584.20)	13-1/8 (333.38)	6-3/8 (161.93)	5-1/16 (128.59)	14-1/4 (361.95)	4-9/16 (623.89)	1-1/16 (26.99)	10-5/16 (261.94)	24-3/4 (628.65)	10-3/4 (273.05)
		MG0216	16	2-1/2		112 (50.8)	23 (584.20)	13-1/8 (333.38)	6-3/8 (161.93)	5-1/16 (128.59)	14-1/4 (361.95)	4-9/16 (623.89)	1-1/16 (26.99)	11-5/16 (287.34)	24-3/4 (628.65)	10-3/4 (273.05)
	3	MG0305	5	1	3	136 (61.7)	25-7/8 (657.23)	14-3/8 (365.13)	7-7/8 (200.03)	7-1/8 (28.58)	14-1/4 (361.95)	5-7/8 (149.23)	2 (50.80)	10-5/16 (261.94)	30 (762)	12-1/4 (311.15)
		MG0310	10	2-1/2		146 (66.2)	25-7/8 (657.23)	14-3/8 (365.13)	7-7/8 (200.03)	7-1/8 (28.58)	14-1/4 (361.95)	5-7/8 (149.23)	2 (50.80)	11-5/16 (287.34)	30 (762)	12-1/4 (311.15)
TWO SPEED MODELS	1/4	MG2516V	16/5	1/4	1	77 (34.9)	16-3/4 (425.45)	11-1/8 (282.58)	5 (127)	6-5/16 (160.34)	14-1/4 (361.95)	2-9/16 (65.09)	15/16 (23.81)	13-7/16 (341.31)	21-5/8 (549.28)	9-1/2 (241.3)
		MG2532V	32/11	1/2		80 (36.3)	16-3/4 (425.45)	11-1/8 (282.58)	5 (127)	6-5/16 (160.34)	14-1/4 (361.95)	2-9/16 (65.09)	15/16 (23.81)	13-7/16 (341.31)	21-5/8 (549.28)	9-1/2 (241.3)
	1/2	MG5016V	16/5	1/2	1	80 (36.3)	16-3/4 (425.45)	11-1/8 (282.58)	5 (127)	6-5/16 (160.34)	14-1/4 (361.95)	2-9/16 (65.09)	15/16 (23.81)	13-7/16 (341.31)	21-5/8 (549.28)	9-1/2 (241.3)
		MG5032V	32/11	1		81 (36.7)	16-3/4 (425.45)	11-1/8 (282.58)	5 (127)	6-5/16 (160.34)	14-1/4 (361.95)	2-9/16 (65.09)	15/16 (23.81)	13-7/16 (341.31)	21-5/8 (549.28)	9-1/2 (241.3)
	1	MG0116V	16/5	1	1	89 (40.4)	17-1/2 (444.50)	11-7/16 (290.51)	5-1/8 (130.18)	6-5/16 (160.34)	14-1/4 (361.95)	2-15/16 (74.61)	1-1/8 (28.58)	13-7/16 (341.31)	21-5/8 (549.28)	9-1/2 (241.3)
		MG0132V	32/11	2-1/2		95 (43.1)	17-1/2 (444.50)	11-7/16 (290.51)	5-1/8 (130.18)	6-5/16 (160.34)	14-1/4 (361.95)	2-15/16 (74.61)	1-1/8 (28.58)	13-7/16 (341.31)	21-5/8 (549.28)	9-1/2 (241.3)
	2	MG0216V	16/5	2-1/2	2	112 (50.8)	23 (584.20)	13-1/8 (333.38)	6-3/8 (161.93)	5-1/16 (128.59)	14-1/4 (361.95)	4-9/16 (623.89)	1-1/16 (26.99)	13-7/16 (341.31)	24-3/4 (628.65)	10-3/4 (273.05)
		MG0310V	10/3	2-1/2		146 (66.2)	25-7/8 (657.23)	14-3/8 (365.13)	7-7/8 (200.03)	7-1/8 (28.58)	14-1/4 (361.95)	5-7/8 (149.23)	2 (50.80)	13-7/16 (341.31)	30 (762)	12-1/4 (311.15)

\* Maximum length for 3 phase model hoists. Consult factory for exact dimensions.

\*\* Dimensions based on lifts through 10 ft. (all capacities) and increases proportionally with longer lifts.







### SUSPENSION

Rigid hook suspension standard.  
Design allows for easy change-outs.

### CHAIN CONTAINER

Rugged composite chain container  
standard for lifts up to 20 feet.

### HOIST CONTROLS

Single-speed and  
2-speed units standard.

### LOAD CHAIN & HOOK

High-quality Hoistaloy® load chain and forged steel hook are manufactured in the USA by Columbus McKinnon, ensuring full compatibility and long-lasting durability. Load chain is 100% proof tested and zinc plated for protection against corrosion.

### PADDLE-TYPE LIMIT SWITCH

Paddle-type upper & lower control limit switch standard. Adjustable chain block limit stops are standard on live and loose side of load chain.

### PUSH-BUTTON CONTROLS

Robust ergonomic control station equipped with heavy-duty switch contacts for operator comfort and reliable performance. NEMA 4X weather-proof enclosure and built-in strain relief standard.



### KNOW HOW...KNOW WHY

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
- Rigging Gear Inspection
- Rigging
- Safe Hoisting
- Crane Operator Training

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 that 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 an 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 Man Guard electric chain hoist or a completely engineered system to outfit your production facility, Columbus McKinnon provides the material handling products and expertise you need to keep your workforce productive and safe.**



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