



ELECTRIC CHAIN HOISTS



MODEL  
**EC**

**McLaughlin Hoist & Crane**  
Authorized Sales & Service

**(636) 343-9700**

**www.stlcrane.com**



### **MECHANICAL LOAD BRAKE**

Weston type, controls load lowering and prevents load drift. Holds rated load independent of multiple disc motor brake.



### **MULTIPLE DISC MOTOR BRAKE**

Heavy duty, direct acting design for positive load spotting and holding.



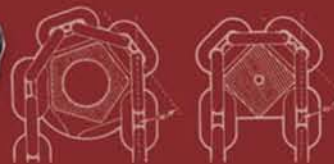
### **ERGONOMIC DESIGNED PUSH BUTTON STATION**

Fits operator's hand for thumb or two-handed operation. 24 Volt Control standard for operator safety. 115 Volt Control available upon request. NEMA 3R (weather resistant). Constructed of glass-filled nylon for severe impact and chemical/corrosive atmosphere resistance.



COFFING  
5-POCKET  
SHEAVE

CONVENTIONAL  
4-POCKET  
SHEAVE



### **FIVE-POCKET LOAD SHEAVE**

Increases chain and sheave engagement 25% over hoists with conventional four-pocket sheaves. Provides smoother lifting and reduces chain wear over four-pocket sheaves.



## LIMIT SWITCHES

Adjustable to regulate upper and lower load travel. Brass nuts standard for improved switch setting and repeatability. Stainless steel limit switch shaft standard.



## SOLID STATE STARTING SWITCH

Standard on single phase units. Provides greater reliability and starting consistency than centrifugal switches. Fewer components to wear out or fail.



## PANEL PLATE

Provides easy access to controls and motor leads for changing voltage on dual-voltage motors or performing hoist maintenance. Connection wires are numbered to assist maintenance.



## CHAIN END STOP ASSEMBLY

Fits below dead end link on lifting chain for added measure of safety.



## GEARING & TRANSMISSION

First stage helical gearing on EC small frame; first and third stage helical gearing on EC large frame. Transmission gears are precision machined of alloy steel and run in oil bath for longer, quieter operation.



## OVERLOAD CLUTCH

Protects hoist, operator and supporting structures from damaging overloads, chain jamming, and reverse phasing.

MODEL  
**EC**The **INDUSTRY  
LEADER -  
STRENGTH and  
DEPENDABILITY****EC Hook & Lug Suspension Models****1/4 - 5 Ton****Made in USA**

**COFFING EC Models** - High performance hoists engineered for heavy duty industrial service. Designed for safety, the EC incorporates mechanical load brake, motor brake, and overload clutch as standard.

**CAPACITIES & LIFTS** - Rated loads from 1/4 to 5 Tons, with 10, 15, and 20-foot standard lifts. Other lifts available. Standard push button drop is 4-feet less than lift.

**VOLTAGE & MOTOR OPTIONS** - 115/230, 208 - single phase; 230/460, 208, 220/380, 575 - three phase. 60 hertz standard, 50 hertz available. Two-speed motors available (3 to 1 speed ratio).

**SUSPENSION OPTIONS** - Rigid or swivel top hook, lug, plain, geared, and motorized trolley available.

**STANDARD FEATURES** - Refer to pages 8 & 9.

**SMALL FRAME DESIGN** - Features housings of cast aluminum alloy construction for minimum weight. Engineered and designed for use with motors up to 1 HP.

**LARGE FRAME DESIGN** - Features load bearing housings of ductile iron construction for maximum strength. Non-load bearing housings of cast aluminum alloy for minimum weight. Engineered and designed for use with higher torque 2 and 3 HP three phase motors.

**DURABLE CONSTRUCTION** - Built in compliance with ASME/ANSI B30.16 and CSA standards.

**ACCESSORIES & OPTIONS** - Full line of accessories available, including Variable Frequency Drives. See pages 25-31.

**LIFETIME WARRANTY**

**COFFING®**  
HOISTS

## ● SPECIFICATIONS ●

### EC Hook & Lug Suspension Models

Capacity			Model Number	Frame *	No. of Chains	Motor HP	Lift Speed (fpm)		Headroom (in.)	Housing Dimensions (in.)			Net Wt. ** (lb.)
(lb.)	(kg) †	(Ton)					Single	Two ††		H	W	L	
500	250	1/4	EC-0516	S	1	1/4	16	5.3	16 7/8	8	11 5/8	23 3/8	100
500	250	1/4	EC-0532	S	1	1/2	32	10.7	16 7/8	8	11 5/8	23 3/8	108
500	250	1/4	EC-0564	S	1	1	64	21.3	16 7/8	8	11 5/8	23 3/8	116
1000	500	1/2	EC-1009	S	1	1/4	9	3	16 7/8	8	11 5/8	23 3/8	104
1000	500	1/2	EC-1016	S	1	1/2	16	5.3	16 7/8	8	11 5/8	23 3/8	106
1000	500	1/2	EC-1032	S	1	1	32	10.7	16 7/8	8	11 5/8	23 3/8	118
2000	1000	1	EC-2004	S	2	1/4	4	1.3	18 1/4	8	11 5/8	23 3/8	116
2000	1000	1	EC-2008	S	2	1/2	8	2.7	18 1/4	8	11 5/8	23 3/8	116
2000	1000	1	EC-2012	S	1	1	12	4	16 7/8	8	11 5/8	23 3/8	114
2000	1000	1	EC-2016	S	1	1	16	5.3	16 7/8	8	11 5/8	23 3/8	118
2000	1000	1	EC-2032	L	1	2	32	10.7	23	10 7/8	14 13/16	31 3/16	295
2000	1000	1	EC-2048	L	1	3	48	16	23	10 7/8	14 13/16	31 3/16	302
4000	2000	2	EC-4006	S	2	1	6	2	18 15/16	8	11 5/8	23 3/8	127
4000	2000	2	EC-4008	S	2	1	8	2.7	18 15/16	8	11 5/8	23 3/8	133
4000	2000	2	EC-4016	L	1	2	16	5.3	23	10 7/8	14 13/16	31 3/16	295
4000	2000	2	EC-4024	L	1	3	24	8	23	10 7/8	14 13/16	31 3/16	302
6000		3	EC-6005	S	3	1	5	1.7	23 1/4	8	12	26 3/8	200
6000	3000	3	EC-6010	L	2	2	10	3.3	27 3/8	10 7/8	14 13/16	31 3/16	340
6000	3000	3	EC-6016	L	2	3	16	5.3	27 3/8	10 7/8	14 13/16	31 3/16	347
8000		4	EC-8008	L	2	2	8	2.7	27 3/8	10 7/8	14 13/16	31 3/16	345
8000		4	EC-8012	L	2	3	12	4	27 3/8	10 7/8	14 13/16	31 3/16	352
10000	5000	5	EC-10005	L	3	2	5	1.7	27 7/8	10 7/8	14 13/16	31 3/16	393
10000	5000	5	EC-10008	L	3	3	8	2.7	27 7/8	10 7/8	14 13/16	31 3/16	393

† Metric rated option available

\* **S** = Small frame hoist, parallel mounted, single or three phase. **L** = Large frame hoist, cross mounted, three phase only.

\*\* For 10 ft. lift, top hook suspension and lug suspension units.

**Note:** For complete dimensional data, refer to Coffing Dimensional Databook.

### HOUSING DESIGN

Brake cover (left) and electrical cover (right) easily removed for maintenance or service of unit.

(Covers for EC Small Frame Unit Shown)





MODEL  
**EC**

# SUSPENSIONS

for a **VARIETY**  
of  
**APPLICATIONS**



**1/4 - 5 Ton**

**Made in USA**

## EC Trolley Suspensions

**COFFING ECT, ECGT, and ECMT Models** - Plain, geared and motorized trolley suspensions with all the features of basic EC models for added flexibility in a variety of applications.

**PLAIN TROLLEY** - For manual positioning of hoist and load.

**GEARED TROLLEY** - For more precise positioning of hoist and load. Standard hand chain drop is 2-feet less than lift.

**MOTORIZED TROLLEY** - For faster positioning of hoist and load over longer distances. 35 or 75 FPM speeds standard with optional speeds of 18, 24, 50, 100, and 150 FPM.

**VOLTAGES** - 115/230, 208 - single phase; 230/460, 208, 220/380, 575 - three phase. 60 hertz standard, 50 hertz available.

**TWO-SPEED MOTORIZED TROLLEY MODELS** - Optional with 3 to 1 speed ratio, three-phase, single voltage only.

**WRAP-AROUND SIDE PLATES** - Act as safety lugs and as bumpers to protect wheels. Available to fit American Standard I-Beams, wide-flange, and patented track beams. Specify track type and beam size.

**PRECISION TROLLEY WHEELS** - Machined, cast iron wheels with sealed, lifetime lubricated ball bearings for extended trolley life. Motorized trolley wheels heat treated for added durability. Bronze and stainless steel wheels optional.

**TWO TROLLEY DESIGNS** - 4-wheel design on 1/4 - 3 ton negotiates 48" minimum radius curve, including patented track applications. 8-wheel design on 4 and 5 ton reduces beam flange stress.

**ACCESSORIES & OPTIONS** - Full line available to meet a variety of applications. See pages 25-31.

**LIFETIME WARRANTY**





**HIGH PERFORMANCE LIFTING**

**• SPECIFICATIONS •**

EC Plain, Geared & Motorized Suspensions

Capacity			Model Number	Frame * Size	Trolley † Mount	ECT & ECGT Hdrm (in.)	ECMT Hdrm (in.)	Flange Width (in.)	Min. Rad. Curve (in.)	Net Wt. ** (lb.)	ECMT Net Wt. (lb.)
(lb.)	(kg) ‡	(Ton)									
500	250	1/4	EC(t)-0516	S	P	17 1/4	17 1/4	3.332 - 7	48	145	180
500	250	1/4	EC(t)-0532	S	P	17 1/4	17 1/4	3.332 - 7	48	153	188
500	250	1/4	EC(t)-0564	S	P	17 1/4	17 1/4	3.332 - 7	48	161	196
1000	500	1/2	EC(t)-1009	S	P	17 1/4	17 1/4	3.332 - 7	48	151	186
1000	500	1/2	EC(t)-1016	S	P	17 1/4	17 1/4	3.332 - 7	48	151	186
1000	500	1/2	EC(t)-1032	S	P	17 1/4	17 1/4	3.332 - 7	48	163	198
2000	1000	1	EC(t)-2004	S	P	18 5/8	18 5/8	3.332 - 7	48	161	196
2000	1000	1	EC(t)-2008	S	P	18 5/8	18 5/8	3.332 - 7	48	161	196
2000	1000	1	EC(t)-2012	S	P	17 1/4	17 1/4	3.332 - 7	48	158	194
2000	1000	1	EC(t)-2016	S	P	17 1/4	17 1/4	3.332 - 7	48	163	198
2000	1000	1	EC(t)-2032	L	C	21 9/16	22 1/4	3.332 - 7	48	347	375
2000	1000	1	EC(t)-2048	L	C	21 9/16	22 1/4	3.332 - 7	48	347	375
4000	2000	2	EC(t)-4006	S	P	19 5/16	19 5/16	3.332 - 7	48	172	207
4000	2000	2	EC(t)-4008	S	P	19 5/16	19 5/16	3.332 - 7	48	178	213
4000	2000	2	EC(t)-4016	L	C	21 9/16	22 1/4	3.332 - 7	48	347	375
4000	2000	2	EC(t)-4024	L	C	21 9/16	22 1/4	3.332 - 7	48	354	362
6000		3	EC(t)-6005	S	P	23 1/4	24	3.332 - 7	48	260	320
6000	3000	3	EC(t)-6010	L	C	26	26 5/8	3.332 - 7	48	396	424
6000	3000	3	EC(t)-6016	L	C	26	26 5/8	3.332 - 7	48	403	431
8000		4	EC(t)-8008	L	C	25 15/16	26 3/4	4 - 7	***	520	560
8000		4	EC(t)-8012	L	C	25 15/16	26 3/4	4 - 7	***	527	567
10000	5000	5	EC(t)-10005	L	C	29 3/4	30 5/8	4 - 7	***	561	599
10000	5000	5	EC(t)-10008	L	C	29 3/4	30 5/8	4 - 7	***	568	606

† Specify **ECT** for plain trolley, **ECGT** for geared trolley and **ECMT** for motorized trolley models

‡ Metric rated option available

\* **S** = Small frame hoist, parallel mounted, single or three phase.  
**L** = Large frame hoist, cross mounted, three phase only.

†\* **P** = Parallel mount, standard on small frame hoists.  
**C** = Cross mount, standard on large frame hoists.

\*\* Weight for 10 ft. lift ECT units. Add 10 lb. for ECGT unit weights.

\*\*\* 4 & 5 ton straight track only. Articulated model for 48" min. radius curved track available - consult factory.

**Note:** For complete dimensional data, refer to Coffing Dimensional Databook.

