



MODEL EC

EC HOIST FEATURES



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



● 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(†)-0516	S	P	17 1/4	17 1/4	3.332 - 7	48	145	180
500	250	1/4	EC(†)-0532	S	P	17 1/4	17 1/4	3.332 - 7	48	153	188
500	250	1/4	EC(†)-0564	S	P	17 1/4	17 1/4	3.332 - 7	48	161	196
1000	500	1/2	EC(†)-1009	S	P	17 1/4	17 1/4	3.332 - 7	48	151	186
1000	500	1/2	EC(†)-1016	S	P	17 1/4	17 1/4	3.332 - 7	48	151	186
1000	500	1/2	EC(†)-1032	S	P	17 1/4	17 1/4	3.332 - 7	48	163	198
2000	1000	1	EC(†)-2004	S	P	18 5/8	18 5/8	3.332 - 7	48	161	196
2000	1000	1	EC(†)-2008	S	P	18 5/8	18 5/8	3.332 - 7	48	161	196
2000	1000	1	EC(†)-2012	S	P	17 1/4	17 1/4	3.332 - 7	48	158	194
2000	1000	1	EC(†)-2016	S	P	17 1/4	17 1/4	3.332 - 7	48	163	198
2000	1000	1	EC(†)-2032	L	C	21 9/16	22 1/4	3.332 - 7	48	347	375
2000	1000	1	EC(†)-2048	L	C	21 9/16	22 1/4	3.332 - 7	48	347	375
4000	2000	2	EC(†)-4006	S	P	19 5/16	19 5/16	3.332 - 7	48	172	207
4000	2000	2	EC(†)-4008	S	P	19 5/16	19 5/16	3.332 - 7	48	178	213
4000	2000	2	EC(†)-4016	L	C	21 9/16	22 1/4	3.332 - 7	48	347	375
4000	2000	2	EC(†)-4024	L	C	21 9/16	22 1/4	3.332 - 7	48	354	362
6000		3	EC(†)-6005	S	P	23 1/4	24	3.332 - 7	48	260	320
6000	3000	3	EC(†)-6010	L	C	26	26 5/8	3.332 - 7	48	396	424
6000	3000	3	EC(†)-6016	L	C	26	26 5/8	3.332 - 7	48	403	431
8000		4	EC(†)-8008	L	C	25 15/16	26 3/4	4 - 7	***	520	560
8000		4	EC(†)-8012	L	C	25 15/16	26 3/4	4 - 7	***	527	567
10000	5000	5	EC(†)-10005	L	C	29 3/4	30 5/8	4 - 7	***	561	599
10000	5000	5	EC(†)-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.

