

CHAIN HOISTS

Columbus McKinnon Corporation

Cyclone



Hand Chain Hoists

The Cyclone is a high speed, spur geared hoist that delivers maximum efficiency and requires minimum maintenance. Corrosion-resistant aluminum alloy frame construction is lightweight, yet rugged. CM Hoistaloy® load chain-equipped for flexibility, strength and durability. Low headroom and compact design make it easy to install. The hoist is equipped as standard with Load Limiter for automatic overload protection.

When the hoist is excessively overloaded, Load Limiter stops the lift.

The Cyclone has a fully enclosed brake requiring no lubrication. Neither extremes of temperature nor frequent stops will affect its positive load control. Latch type hooks are standard on all capacities. Latchlok® hook available as optional equipment. Exclusive Lifetime guarantee.

Specifications

Capacity (Ton)	CERTEX Cat. Ref. No.	Columbus McKinnon Code	Standard Lift (Ft.)	Strands of Chain	Net Weight (Lb.)	Shortest Distance Between Hooks (In.)	Chain Overhauled to Lift Load One Foot (Ft.)	Chain Pull to Lift Full Load (Lb.)
1/4	CX11-0211	4621	8	1	33	12 7/8	22 1/2	23
1/2	CX11-0212	4622	8	1	33	12 7/8	22 1/2	46
1	CX11-0213	4624	8	1	36	14	30	69
1 1/2	CX11-0214	4625	8	1	59	17 5/16	40 1/2	80
2	CX11-0215	4626	8	1	60	17 5/16	52	83
3	CX11-0216	4627	8	2	84	21 1/2	81	85
4	CX11-0217	4628	8	2	91	21 1/2	104	88
5	CX11-0218	4629	8	3	122	24 1/4	156	75
6	CX11-0219	4630	8	3	127	25 1/4	156	90
8	CX11-0220	4631	8	4	207	35 1/2	208	89
10	CX11-0221	4632	8	5	219	35 1/2	260	95

Standard hand chain drop reaches to a point 2 feet above lower hook when in its lowest position.



Army Type Trolley Hoists

This compact trolley hoist features reduced headroom, side clearances and end approach which make it ideal for operation in tight spaces. Integral trolley has hardened universal tread flanged track wheels which minimize rolling friction. CM's Internal Load Limiter™ automatically guards against damaging overloads without increasing overall dimension. Capacities range from 1/4 thru 12 tons — plain or geared trolley. Adapts to a wide range of beam adjustments.

Specifications

Capacity (Ton)	CERTEX Cat. Ref. No.	Columbus McKinnon Plain Trolley	CERTEX Cat. Ref. No.	Columbus McKinnon Geared Trolley	Standard Lift (Ft.)	Strands of Chain	American Standard Shape Adjustment Ranges†		Chain Pull To Lift Full Capacity Load (Lbs.)	Chain Overhauled To Lift Load One Foot (Ft.)	Minimum Headroom (In.)	Minimum Radius Curve (In.)
							Depth (In.)	Flange Width (In.)				
1/4	CX11-0222	4521	CX11-0234	4541	8	1	6-12*	3 3/8-5 1/2	23	22 1/2	11 7/16	30
1/2	CX11-0223	4522	CX11-0235	4542	8	1	6-12*	3 3/8-5 1/2	46	22 1/2	11 7/16	30
1	CX11-0224	4524	CX11-0236	4544	8	1	6-12*	3 3/8-5 1/2	69	30	11 3/4	30
1 1/2	CX11-0225	4525	CX11-0237	4545	8	1	6-15	3 3/8-5 1/2	80	40 1/2	15 5/16	30
2	CX11-0226	4526	CX11-0238	4546	8	1	6-15	3 3/8-5 1/2	83	52	15 5/16	30
3	CX11-0227	4527	CX11-0239	4547	8	2	7-15	3 3/8-5 1/2	85	81	19	48
4	CX11-0228	4528	CX11-0240	4548	8	2	7-15	3 3/8-5 1/2	87	104	19	48
5	CX11-0229	4529	CX11-0241	4549	8	3	8-18	4-6 1/4	74	156	22 9/16	60
6	CX11-0230	4530	CX11-0242	4550	8	3	8-18	4-6 1/4	89	156	23 1/16	60
8	CX11-0231	4531	CX11-0243	4551	8	4	12-24	5-8	91	208	29 5/16	72
10	CX11-0232	4532	CX11-0244	4552	8	5	12-24	5-8	93	260	29 5/16	72
12	CX11-0233	4533	CX11-0245	4553	8	5	15-24	5 1/2-8	95	312	31 13/16	96

* 1/4 thru 1 ton plain Trolley Hoist can be adapted to 4" & 5" depth—American Standard Shapes (2 5/8"-3" flange widths)—at no extra charge.
† Specify exact beam size when ordering.

CHAIN HOISTS

Columbus McKinnon Corporation

Electric Chain Hoists



Lodestar electric chain hoists offer power, flexibility and a number of important safety features. All capacities are available in either single speed or two speed models. Heavy duty motors are rated at thirty minutes. Workings are completely enclosed and compact for low headroom. Safety features include Lodestar Protector®, a friction clutch assembly designed to stop the hoist when overloading occurs. A dual braking system — heavy duty

magnetic and regenerative, plus upper and lower adjustable limit switches are additional Lodestar safety features. Snap action control station, Rated NEMA 4, carries only 115 volts and is completely sealed and weatherproofed and waterproofed. Gears receive lifetime lubrication at factory. Famous CM Hoistaloy® load chain. Latchlok® hook available as optional equipment. Comes with a Lifetime warranty.

1. When ordering use Product Code plus proper suspension code.
2. Suspensions available in swivel hook, rigid hook, low headroom trolley and motor driven trolley.

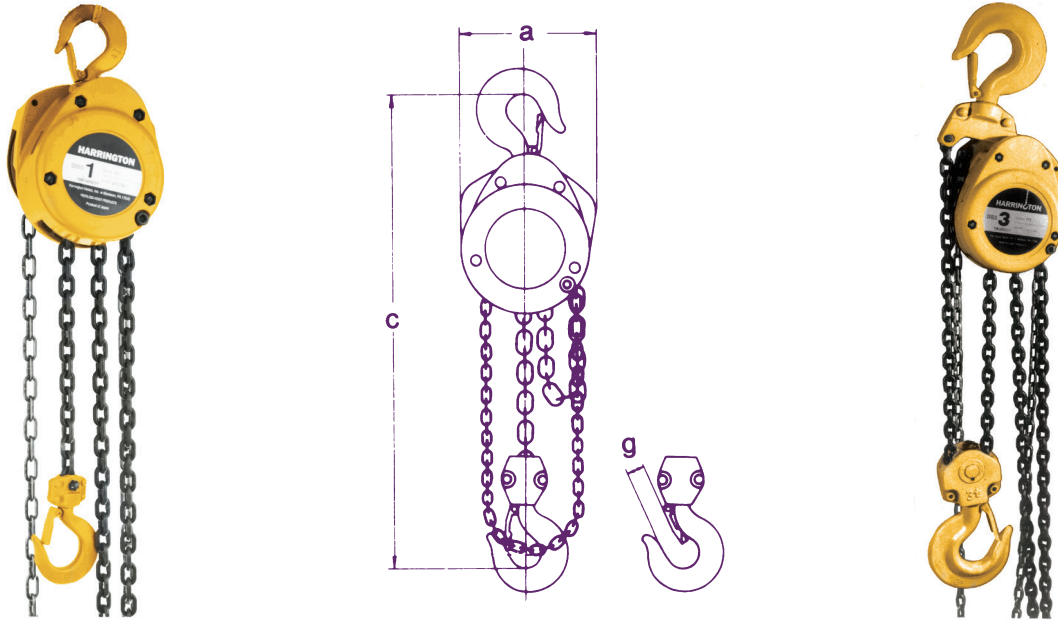
HOIST SELECTION												
Max. Cap. Tons	Model	Strands of Chain	Lifting Speed FPM	Single Speed Code				Lifting Speeds FPM	Two Speed Code			
				CERTEX Cat. Ref. No.	Columbus McKinnon 115-1-60 10 Ft. Lift	CERTEX Cat. Ref. No.	Columbus McKinnon 230/460-3-60 10 Ft. Lift		CERTEX Cat. Ref. No.	Columbus McKinnon 230-3-60 10 Ft. Lift	CERTEX Cat. Ref. No.	Columbus McKinnon 460-3-60 10 Ft. Lift
1/8	A	1	32	CX11-0266	2702	CX11-0277	2705	10/32	CX11-0292	2707	CX11-0728	2708
	AA	1	60	CX11-0267	2712	CX11-0278	2715	20/60	CX11-0293	2717	CX11-0729	2718
1/4	B	1	16	CX11-0268	2722	CX11-0279	2725	5/16	CX11-0294	2727	CX11-0730	2728
	C	1	32	CX11-0269	2732	CX11-0280	2735	10/32	CX11-0295	2737	CX11-0731	2738
	E	2	8	CX11-0270	2742	CX11-0281	2745	2.5/8	CX11-0296	2747	CX11-0732	2748
1/2	F	1	16	CX11-0271	2752	CX11-0282	2755	5/16	CX11-0297	2757	CX11-0733	2758
	J	1	32	CX11-0272	3512	CX11-0283	3515	10/32	CX11-0298	3502	CX11-0734	3503
	JJ	1	64	—	—	CX11-0284	3545	21/64	CX11-0299	3549	CX11-0735	3550
1	H	2	8	CX11-0273	2762	CX11-0285	2765	2.5/8	CX11-0300	2767	CX11-0736	2768
	L	1	16	CX11-0274	3522	CX11-0286	3525	5/16	CX11-0301	3504	CX11-0737	3505
	LL	1	32	—	—	CX11-0287	3555	10/32	CX11-0302	3553	CX11-0738	3554
2	R	2	8	CX11-0275	3532	CX11-0288	3535	2.5/8	CX11-0303	3506	CX11-0739	3507
	RR	2	16	—	—	CX11-0289	3565	5/16	CX11-0304	3561	CX11-0740	3562
3	RT	3	5.5	CX11-0276	9501	CX11-0290	9505	1.75/5.5	CX11-0305	9511	CX11-0741	9513
	RRT	3	11	—	—	CX11-0291	9508	3.5/11	CX11-0742	9512	CX11-0742	9514

Note: 15 and 20 foot lifts are also available as standard.

CHAIN HOISTS

Harrington Hoists, Inc.

CF Hand Chain Hoist



Harrington's Model CF Series Hand Chain Hoist is a practical choice for efficient, trouble-free service. Rugged features include a die-cast aluminum body and high tensile heat treated main shaft, pinion and load gear. Special heat treated load chain, pre-lubricated sealed ball bearings, contribute to long service with low maintenance. All hoists are load tested and meet ANSI B30.16 & OSHA standards.

Specifications and Dimensions with 10 Ft. of Lift

Capacity (ton)	CERTEX Cat. Ref. No	Harrington Code Model CF4	Lift Ft.	Hand Chain Pull Lb.	Over Haul Ratio	Head Room c In.	a In.	g In.	Net Wt. Lb.	Approx. Shipping Wt. Lb.	Chain Falls
1/2	CX11-0409	CF005	10	60	19	12.8	5.8	1.1	24	26	1
1	CX11-0410	CF010	10	72	31	14.6	6.8	1.1	29	32	1
1 1/2	CX11-0411	CF015	10	84	41	17.3	7.9	1.3	41	43	1
2	CX11-0412	CF020	10	80	63	20.0	8.2	1.4	48	51	2
3	CX11-0413	CF030	10	92	81	23.2	9.3	1.7	64	68	2
5	CX11-0414	CF050	10	92	134	24.4	13.0	1.8	84	88	3

Note: Length of hand chain equals lift less 18 inches.

CHAIN HOISTS

Harrington Hoists, Inc.

LB Lever Hoist

$\frac{3}{4}$, 1, 1 $\frac{1}{2}$, 2, 2 $\frac{3}{4}$, 3, 6, and 9 Ton capacity

The LB Series of lever hoists offers a low headroom, compact design that is perfect for use in tight quarters. Regarded as the best lever hoist in the industry, our LB is recommended for use in heavy-duty construction work, mining, manufacturing, shipbuilding and day-to-day maintenance and repair.

Many Benefits From More Features:

- Rugged, all-steel construction that actually weighs less than comparable aluminum models.
- Get positive braking action with Weston-style load brake incorporating two moisture-resistant brake pads with four braking surfaces. Includes two brake pawls for additional reliability.
- Enjoy protection against dirt and moisture with a totally enclosed brake mechanism.
- Ensure long life with machined, heat-treated, split load double reduction gears.
- Operate in close quarters with short steel handle and 15-degree recovery strokes.
- Patented spring-loaded freewheel mechanism permits easy adjustment of the load chain and safeguards against accidental freewheeling under load.
- Equipped with standard rubber grip for non-slip operation.

Options:

- Load limit warning handle
- Top hook extender
- Point load hook
- Inspection hook
- Bullard® and Shur-Loc® hooks

Capabilities To Count On:

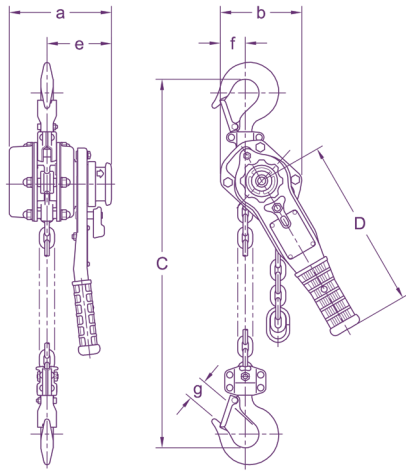
- 5-foot lift is standard, 10-, 15- and 20-foot lifts also stocked; nonstandard lifts available as well.
- Grade 100 heat-treated load chain is nickel plated for corrosion resistance.
- Forged and heat-treated alloy steel hooks open slowly without fracturing under excessive loads. Top and bottom hooks rotate 360°.
- Test certificate verifies that every hoist has been factory load tested to 125% of rated capacity in accordance with ASME B30.21 requirements.



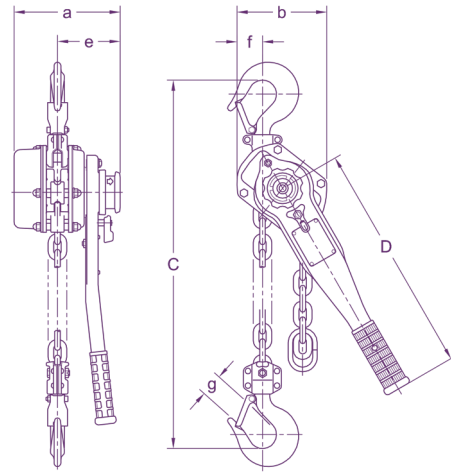
CHAIN HOISTS

Harrington Hoists, Inc.

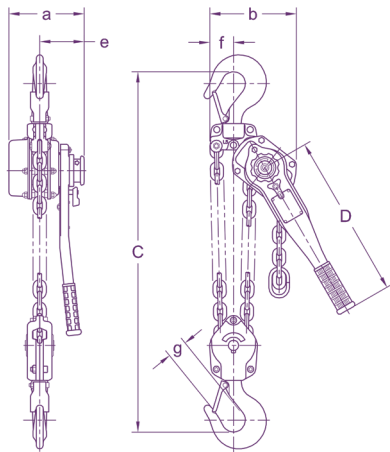
LB Lever Hoist



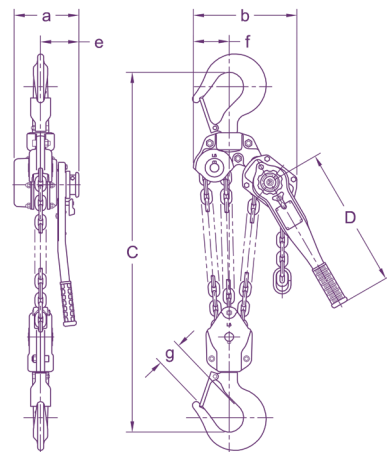
3/4 - 2 3/4 Ton



3 Ton



6 Ton



9 Ton

Specifications

Cap. (Tons)	CERTEX Cat. Ref. No.	Harrington Code	Headroom C (in)	Std. Lift (ft)	Pull to Lift Load* (lbs)	a (in)	b (in)	D* (in)	e (in)	f (in)	g (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Shipping Weight Approx. (lbs)	Weight for Additional One Foot of Lift (lbs)
3/4	CX11-0415	LB008	11.0	5	54 (36)	5.7	4.7	9.6(14.4)	3.8	1.6	0.9	5.6 x 1	13	13	0.5
1	CX11-0416	LB010	11.8	5	72 (46)	5.7	4.7	9.6(14.4)	3.8	1.6	1.1	5.6 x 1	13	14	0.5
1 1/2	CX11-0417	LB015	13.2	5	64 (45)	6.3	5.0	10.4(14.4)	3.9	1.5	1.3	7.1 x 1	18	18	0.7
2	CX11-0418	LB020	14.8	5	59 (42)	6.8	5.9	10.4(14.4)	4.0	1.8	1.4	8.8 x 1	25	26	1.1
2 3/4	CX11-0540	LB028	14.8	5	81 (57)	6.8	5.9	10.4(14.4)	4.0	1.8	1.4	8.8 x 1	25	26	1.1
3	CX11-0419	LB030	15.6	5	69	7.5	6.3	16.3(16.9)	4.4	1.8	1.5	10.0 x 1	33	35	1.5
6	CX11-0420	LB060	21.3	5	72	7.5	8.5	16.3(16.9)	4.4	2.3	2.0	10.0 x 2	57	60	3.2
9	CX11-0421	LB090	26.8	5	78	7.5	12.0	16.3(16.9)	4.4	4.1	2.9	10.0 x 3	88	93	4.7

*Figures in parentheses are for hoists with the optional load limit warning handle.

CHAIN HOISTS

Harrington Hoists, Inc.

LX Lever Puller

¼ and ½ Ton capacity

Harrington's LX mini puller is lightweight, compact and built to perform. It fits conveniently in a toolbox and will easily handle pulling and moving jobs in many applications including transportation, construction and plumbing. Available in two capacities to fit all applications.

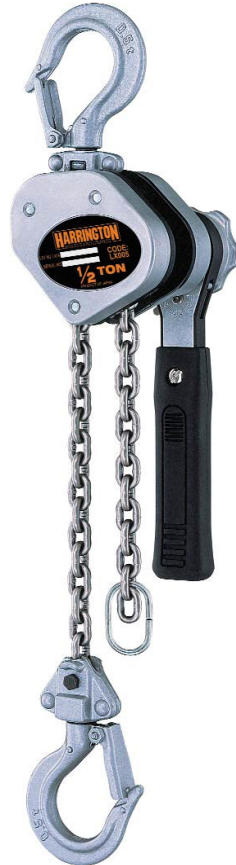
The 1/2 Ton capacity is unique to the industry.

Capabilities to Count On:

- Grade 100, nickel-plated load chain is corrosion and wear resistant.
- Strong hook latches include safety tip.
- 5-foot lift is standard. Longer lifts are available in both capacities.
- Sold individually or in convenient multi-packs — 1/4 Ton in 6-packs and 1/2 Ton in 4-packs.
- Test certificate verifies that every hoist has been factory load tested to 125% of rated capacity in accordance with ASME B30.21 requirements.



1/4 Ton



1/2 Ton

Many Benefits From More Features:

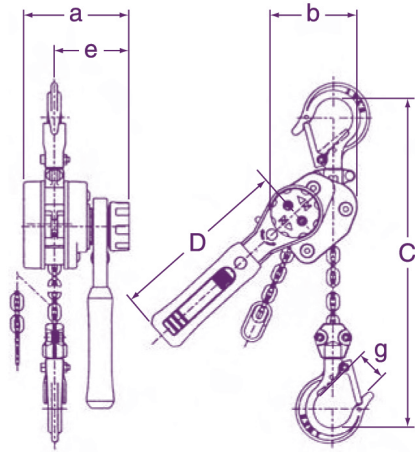
- Durable carbon steel body is compact and lightweight.
- Very low headroom design for use in tight spaces.
- Free-chain mechanism allows for quick adjustments.
- Extremely low pulling force is required for operation.
- Weston-style brake is totally enclosed to protect against dirt, dust and rain.
- Sing step reduction gear assures load holding performance.
- Load chain guide mechanism permits smooth and quiet guiding of chain.
- Rubber handle grip for ease of use.
- Effortless to transport, install and store.

Options:

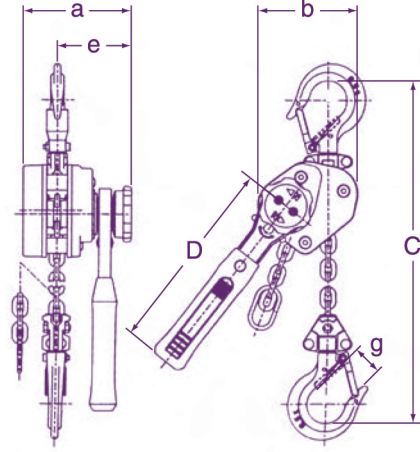
- Heavy duty carrying case

CHAIN HOISTS

Harrington Hoists, Inc.



1/4 Ton LX



1/2 Ton LX

Specifications

Cap. (Ton)	CERTEX Cat. Ref No.	Harrington Code	Headroom C (in.)	Std Lift (ft)	Pull to Lift Load (lbs)	a (in)	b (in)	D (in)	e (in)	g (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Shipping Weight Approx. (lbs)	Weight for Additional One Foot of Lift (lbs)
1/4	CX11-0572	LB003	8.1	5	40	3.5	2.9	5.9	2.4	0.8	3.2 x 1	3.5	4.0	0.15
1/2	CX11-0571	LB005	9.7	5	62	3.9	3.7	7.1	2.7	1.0	4.3 x 1	5.7	6.2	0.25

Weights are approximate.



CHAIN HOISTS

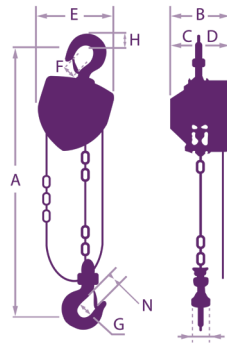
Elephant Lifting Products

C-21 Manual Chain Hoist

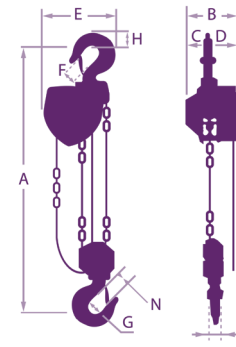


WARNING:
ELEPHANT'S ORIGINAL LONG-LIFE CHAIN
MUST BE USED FOR THIS HOIST!

- Grade 105 galvanized load chain, which adheres to the strict German DIN 5684 standard
- Zinc plated hand chain
- Heavy duty frame
- Lightweight lifting capacity ratio, a 1 ton unit with 10' lift weighs 20% less than other Japanese hoists
- Long lasting friction discs
- Extremely wear resistant
- Load chain, hooks, and braking parts have a safety factor of 4+ times. 0.5t ~ 1t units have a safety factor of 5+ times.
- Durable powder coat finish



0.5t ~ 2t



3t ~ 5t

5 ton model has triple falls

Specifications - C-21 Manual Chain Hoist

Model	Max working load (lbs)	Max working load (mt)	Standard Lift (ft)	Manufacturer's Test Load	Headroom (in) Dim. A	Hand Effort to Lift Full Working Load (lbf)	Load Chain		Hand Chain	Net Weight (lbs)
							Dia. X Pitch (mm)	No. of Falls	Dia. X Pitch (mm)	
C21-0.5	1100	0.5	10	150% Max. working load	10.9	57.3	4.3 x 12	1	4.5 x 23.0	15
C21-1	2200	1	10	150% Max. working load	12.2	70.6	5.6 x 17	1	4.5 x 23.0	22
C21-1.5	3500	1.5	10	150% Max. working load	13.4	72.8	6.5 x 19	1	4.5 x 23.0	28
C21-2	4400	2	10	150% Max. working load	15	72.8	7.5 x 21	1	4.5 x 23.0	37
C21-3	6600	3	10	150% Max. working load	18.9	83.8	6.5 x 19	2	4.5 x 23.0	43
C21-5	11000	5	10	150% Max. working load	21.9	74.9	7.5 x 21	3	4.5 x 23.0	75

Dimensions (In.) - C-21 Manual Chain Hoist

Capacity (lbs)	A	B	C	D	E	F	G	H	I	N
C21-0.5	10.9	5.2	2.2	3	4.8	1.2	1.4	0.63	0.51	0.95
C21-1	12.2	5.7	2.4	3.3	5.8	1.4	1.7	0.87	0.63	1.2
C21-1.5	13.4	6	2.7	3.3	6.6	1.4	1.7	1	0.83	1.2
C21-2	15	6.5	3	3.5	7.6	1.7	2.1	1.2	0.87	1.4
C21-3	18.9	9	2.7	3.3	8.2	1.7	2.1	1.4	1.1	1.4
C21-5	21.9	6.5	3	3.5	11.7	2.3	2.8	1.8	1.3	1.8

CHAIN HOISTS

Elephant Lifting Products

YA Lever Hoist

- Rounded lever design for smooth operation when placed against flat surfaces
- Grade 105 galvanized load chain, which adheres to the strict German DIN 5684 standard
- True one touch free spooling, which automatically brakes when a load is applied
- Redesigned hooks with tip supporting safety latch
- Hoist body has an electro-deposited black finish for corrosion resistance
- Ratchet recovery of 16.5° for 0.8t~1t and 14° for 1.6t~12t
- Internal side plates have hardened steel bushings for excellent load sheave & pinion support
- Internal side plates, pinion, pawls, and pawl springs have an electro-deposited coating that helps resist corrosion
- Internal disc hub and ratchet wheel are nickel plated for corrosion resistance
- Suitable for operation within a -4° ~ 140° F temperature range



Specifications - YA Lever Hoist

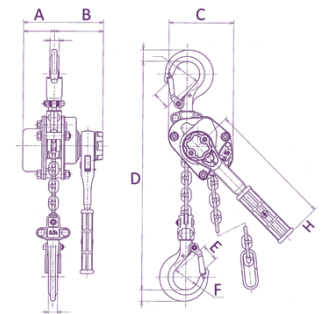
Model	Capacity (lbs)	Capacity (mt)	Standard Lift (ft)	Hand Effort to Lift Full Working Load (lbf)	Dia. of Load Chain (mm)	Net Weight (lbs)	Load Chain Min Breaking Load	Safety Factor
YA-50	1100	0.5	5	82	4.3	7	5.2+	5.2
YA-80	1760	0.8	5	66	5.6	13	5.2+	6.5
YA-100	2200	1	5	82	5.6	14	5.2+	5.2
YA-160	3520	1.6	5	66	7.1	20	8.3+	5.3
YA-320	7040	3.2	5	82	9	34	13.4+	4.2
YA-630	13,860	6.3	5	84	9 x 2	59	26.8+	4.3
YA-900	19,800	9	5	86	9 x 3	93	40.2+	4.5
YA-1200	26,400	12	5	88	9 x 4	159	53.6+	4.2

*Test Load is 150% of Rated Load

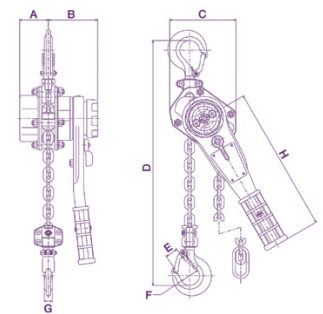
Dimensions (In.) - YA Lever Hoist

Model	A	B	C	D	E	F	G	H
YA-50	1.7	2.7	3.6	9.4	0.94	1.4	0.51	7.0
YA-80	2.1	3.6	4.8	11.4	0.91	1.4	0.59	10.6
YA-100	2.1	3.6	4.8	12.3	1.1	1.7	0.63	10.6
YA-160	2.5	3.9	5.4	13.9	1.2	1.7	0.83	12.2
YA-320	3.3	4.1	7.1	16.2	1.4	2.1	1.1	12.2
YA-630	3.3	4.1	9.3	22.2	1.9	2.8	1.3	12.2
YA-900	3.3	4.1	11.8	27.1	2.9	3.4	1.88	12.2
YA-1200	3.25	4.09	14.57	31.06	2.91	3.35	1.87	12.2

* Specifications & Dimensions are subject to change without notice



YA-50

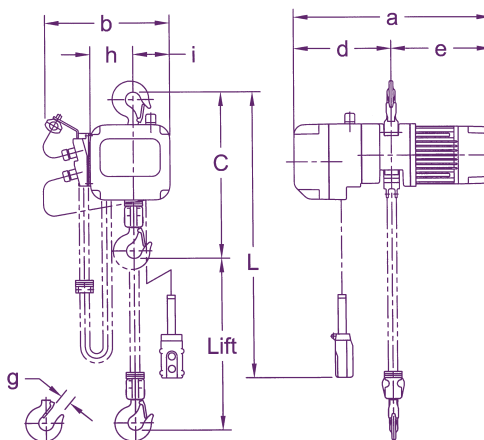


YA-80 ~ 1200
6t+ has multiple falls

CHAIN HOISTS

Harrington Hoists, Inc.

Harrington ER and NER Electric Chain Hoists



- Standard length of power supply cable is 15'. For more information on power supply system, contact the Harrington distributor nearest you.
- Special lengths of load chain, push-button cord or power supply cables are available upon request.
- Harrington load chain is case-hardened Grade 80 chain.
- Optional canvas chain containers are available.
- Optional steel chain containers are available if lifting height exceeds limit of canvas chain container.

ER/NER Specifications

Cap. (Tons)	CERTEX Cat. Ref. No.	Harrington Product Code	CERTEX Cat. Ref. No.	Harrington Product Code	Standard Lift (Ft.)	Push Button Cord 1 (Ft.)	Lifting Speed (Ft./Min.)	Lifting Motor 3 Phase 60 Hz.			Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (Lbs.)	Weight for Additional One Foot of Lift (Lbs.)
								Output (Hp)	Rated Current (amps)				
									@230V (208V)	@460V			
1/8	CX11-0571	ER001H	CX11-0585	NER001H	—	—	57	0.75	4.2	2.1	5.0 x 1	68	0.37
1/4	CX11-0572	ER003S	CX11-0586	NER003S	—	—	39	0.75	4.2	2.1	5.0 x 1	68	0.37
1/4	CX11-0573	ER003H	CX11-0587	NER003H	—	—	60	1.2	5.7	2.9	6.3 x 1	86	0.57
1/2	CX11-0574	ER005L	CX11-0588	NER005L	—	—	15	0.75	4.2	2.1	6.3 x 1	70	0.57
1/2	CX11-0575	ER005S	CX11-0589	NER005S	—	7.2	30	1.2	5.7	2.9	6.3 x 1	86	0.57
1	CX11-0576	ER010L	CX11-0590	NER010L	—	—	16	1.2	5.7	2.9	8.0 x 1	90	0.93
1	CX11-0577	ER010S	CX11-0591	NER010S	10	—	29	2.4	10.5	5.3	8.0 x 1	134	0.93
1 1/2	CX11-0578	ER015S	CX11-0592	NER015S	—	—	20	2.4	10.5	5.3	10.0 x 1	150	1.5
2	CX11-0579	ER020L	CX11-0593	NER020L	—	—	14	2.4	10.5	5.3	10.0 x 1	150	1.5
2	CX11-0580	ER020S	CX11-0594	NER020S	—	—	28	4.7	18.3	9.2	10.0 x 1	238	1.5
2 1/2	CX11-0581	ER025S	CX11-0595	CX11-0595	—	—	23	4.7	18.3	9.2	11.2 x 1	249	1.9
3	CX11-0582	ER030L	CX11-0596	NER030L	—	8.2	16	4.7	18.3	9.2	12.5 x 1	256	2.3
3	CX11-0583	ER030S	CX11-0597	NER030S	—	—	22	6.2	25.1	12.6	12.5 x 1	269	2.3
5	CX11-0584	ER050L	CX11-0598	NER050L	—	—	12	4.7	18.3	9.2	11.2 x 2	308	4.0

CHAIN HOISTS

Harrington Hoists. Inc.

Harrington SNER Electric Chain Hoists



Single Phase Power Reaches New Levels of Performance:

Harrington's SNER Series of electric chain hoists and SMR motorized trolleys offer expanded duty, low headroom and additional capacities for those many applications where only single-phase power is available. The standard features of the popular three-phase NER/MR Series are incorporated to provide the operator with top quality and high performance.

Top Quality Hoists

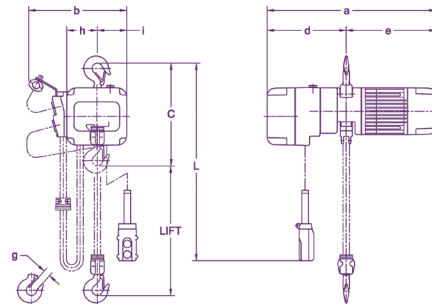
- 60 minute severe duty rating (fan cooled)
- Unique long life chain guide
- Friction clutch prevents lifting of overloads
- Single chain fall through 2 Tons

Standard Features

- 1/4 - 3 Ton capacities
- 115/230-1-60 re-connectible power
- Low headroom
- Lightweight and easy maintenance
- Pull-rotor motor brake
- ASME H4 classification
- NEMA 3R, IP55 rating

Applications

- Machine shops
- Temporary job sites
- Maintenance areas



SNER Specifications

Cap. (Tons)	Harrington Product Code	Standard Lift (Ft.)	Push Button Cord 1 (Ft.)	Lifting Speed (Ft./Min.)	Lifting Motor 1 Phase 60 Hz.			Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (Lbs.)	Weight for Additional One Foot of Lift (Lbs.)
					Output (Hp)	Rated Current (amps)				
						@115V	@230V			
1/4	SNER003S	—	—	14	0.34	7.7	2.9	5.0 x 1	82	0.37
1/2	SNER005L	—	—	7	0.34	7.7	2.1	6.3 x 1	84	0.57
1/2	SNER005S	—	7.2	15	0.6	16.9	2.9	6.3 x 1	104	0.57
1	SNER010L	—	—	7	0.6	16.9	2.9	8.0 x 1	110	0.93
1	SNER010S	10	—	14	1.2	23.9	5.3	8.0 x 1	159	0.93
2	SNER020L	—	—	7	1.2	23.9	5.3	10.0 x 1	174	1.5
3	SNER030C	—	8.2	3.5	1.2	23.9	9.2	10.0 x 2	207	3.1

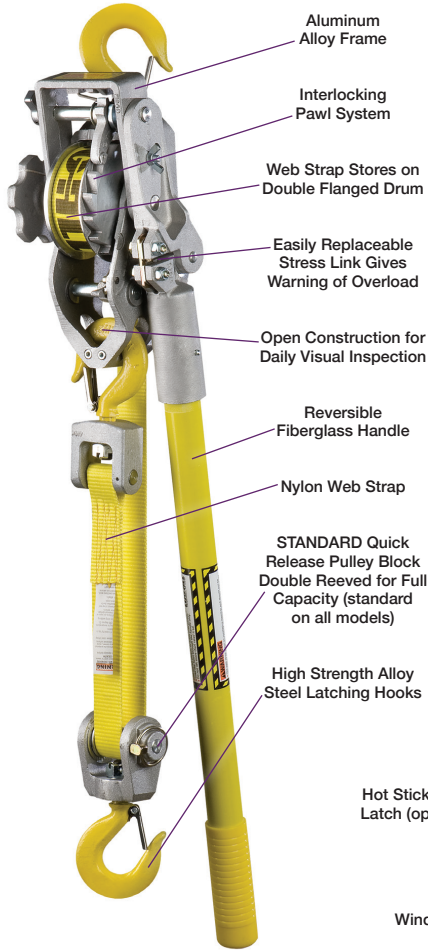
SNER Dimensions

Cap. (Tons)	Harrington Product Code	Headroom C (in)	a (in)	b (in)	d (in)	e (in)	g (in)	h (in)	i (in)
1/4	SNER003S	13.8	22.2	13.0	10.4	11.9	0.9	4.0	3.9
1/2	SNER005L	14.0	22.2	13.0	10.4	11.9	0.9	4.0	3.9
1/2	SNER005S	14.6	23.2	13.8	10.6	12.6	0.9	4.7	4.1
1	SNER010L	16.1	23.2	13.8	10.6	12.6	1.2	4.7	4.1
1	SNER010S	17.3	26.9	16.5	12.4	14.4	1.2	6.1	5.2
2	SNER020L	22.6	26.9	16.5	12.4	14.4	1.5	6.1	5.2
3	SNER030C	29.5	26.9	16.5	12.4	14.4	1.7	8.2	3.0

WINCH-HOISTS

Lug All

Web Strap



Engineered for Reliable Operation

- *Exclusive breakable stress link* - signals the operator of an over load condition by breaking before the fiberglass handle breaks and/or load-carrying part of the hoist is overloaded.
- *Double flanged drum* - prevents web strap from coming in contact with ratchet teeth.
- *Forged Hooks* - with latches.

Positive Load Holding in All Environments

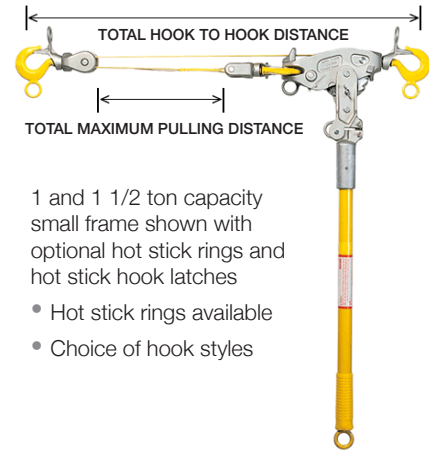
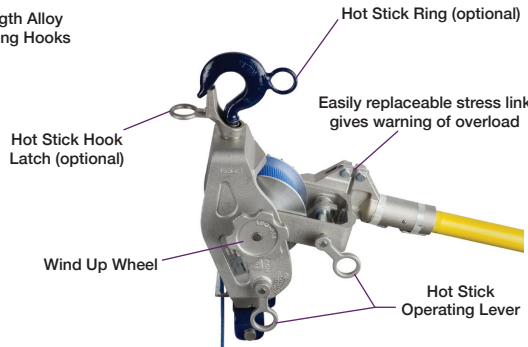
- *Double interlocking pawl mechanism* - No load brakes to slip or foul.

Ease of Operation

- *Self-lubricating bearings* - throughout housing and on the pulley assure smooth operation.
- *Open frame construction* - for cleaning and visual inspection.

Useful Cost-Effective Options

- *Five hook styles* - designed to meet your application requirements and work practice standards.
- *Models equipped with hot stick levers, rings, and hot stick latches* - for remote operation using approved hot line tools.



Lug-All Web Strap Specifications

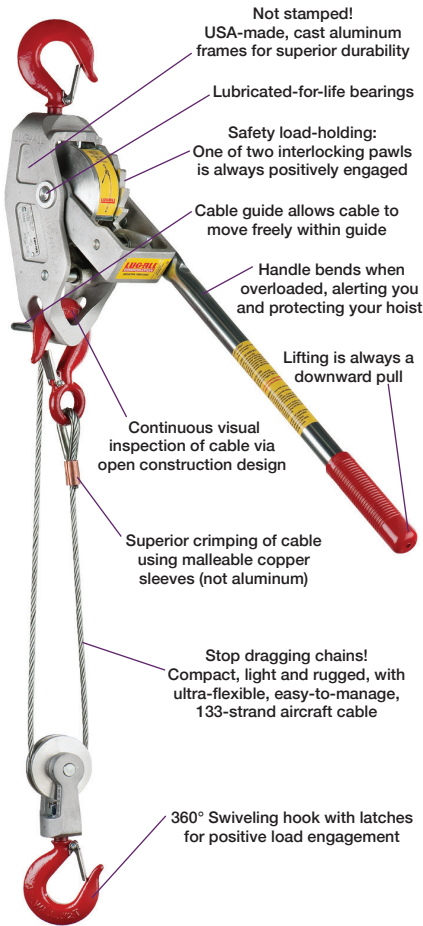
Model Number	Single Line Capacity Lb/Metric†	Single Line Hook To Hook Distance		Double Line Capacity Lb/Metric†	Double Line Hook To Hook Distance		Total Maximum Pulling Distance		Handle Length	Weight	
		Min.	Max.		Min.	Max.	Single	Double			
1 Ton Capacity											
2	Latching Hooks	1000/455	1'-8"	10'-9"	2000/909	2'-3"	6'-2"	9'-1"	3'-11"	30"	10.75 lb.
2B	Hot Stick Rings & Latching Hooks	1000/455	1'-8"	10'-9"	2000/909	2'-3"	6'-2"	9'-1"	3'-11"	30"	10.75 lb.
2U	Gate Type Hooks	1000/455	1'-8"	10'-9"	2000/909	2'-3"	6'-2"	9'-1"	3'-11"	30"	12.5 lb.
2UB	Gate Type Hooks And Hot Stick Rings	1000/455	1'-8"	10'-9"	2000/909	2'-3"	6'-2"	9'-1"	3'-11"	30"	13 lb.
2HB	Hot Stick Rings & Hook Latches	1000/455	1'-8"	10'-9"	2000/909	2'-3"	6'-2"	9'-1"	3'-11"	30"	11.25 lb.
		1000/455	1'-8"	10'-9"	2000/909	2'-3"	6'-2"	9'-1"	3'-11"		
1 1/2 Ton Capacity - Small Frame											
2010920111	Latching Hooks	1500/682	1'-11"	9'-1"	3000/1363	2'-1"	5'-4"	7'-2"	3'-3"	20"	10.25 lb.
2010920109	Hot Stick Rings & Latching Hooks	1500/682	1'-11"	9'-1"	3000/1363	2'-1"	5'-4"	7'-2"	3'-3"	20"	10.25 lb.
2010930118	Gate Type Hooks	1500/682	1'-11"	9'-1"	3000/1363	2'-1"	5'-4"	7'-2"	3'-3"	20"	12 lb.
2010930120	Gate Type Hooks & Hot Stick Rings	1500/682	1'-11"	9'-1"	3000/1363	2'-1"	5'-4"	7'-2"	3'-3"	20"	12 lb.
2010930137	Hot Stick Rings & Hook Latches	1500/682	1'-11"	9'-1"	3000/1363	2'-1"	5'-4"	7'-2"	3'-3"	20"	10.25 lb.

† Metric capacities shown are exact equivalents of U.S Domestic Ratings.

WINCH-HOISTS

Lug All

Cable Strap



These winch-hoists are intended for industrial use only and not for lifting or supporting human or animal cargo.

Highest quality is designed from the beginning... industrial-quality products for all applications.

Innovative Design

- Aluminum alloy frame.
- Exclusive drum anchor - swaged ball shank terminal locks cable securely in drum and allows for full extension of cable. (Other brands use two set screws and 2-3 wraps of cable to hold cable to drum.)
- Cable end has hydraulically crimped copper sleeve.
- Proprietary reversible handle - always a downward pull, switches positions in seconds.
- Self-storing aircraft cable. No chains are hanging in the way or dragging on the ground. Much lighter than chain pullers.
- Optional marine-grade models - developed specifically for marine or other corrosive conditions, have anodized castings, stainless steel cables, and cadmium plated steel shafts.
- Drop forged steel hooks.

Reliable Operation

- Factory tested to 125% of rated capacity.
- At average of 20% to 50% overload, handles bend to alert operator to stop immediately.
- Reversible handle is designed to bend on severe overload to protect the user and the hoist. Replace the handle not the winch-hoist. Call to order replacement handle.
- 6000 Model - the shear pin design on two-position telescoping handle warns of overload.
- Quick Release - will not function when the cable is under load.
- The handle can be removed to prevent tampering with the hoist or load.
- One year guarantee against defects in workmanship and/or materials.

Small Frame - 1/2 to 1-1/2 ton capacity OPTIONS

- Rapid Lowering - permits release four times faster. Look for "R" on chart after model number.
- Cable Return Crank - attaches directly to drum shaft for slack cable take up.
- Marine Grade - aluminum parts are anodized, steel shafts are cadmium plated. Stainless steel cables. Add suffix "M" to model number.
- Four hook options add to hoist flexibility.



Unique ball-shank-terminal securely anchors the cable to its drum, so you get full use of your cable length!

Lug-All Cable Strap Specifications

Capacity	Model #	Double Line Capacity				Single Line Capacity				Cable Diameter	Cable Length	Total Weight
		Capacity In Lbs/Metric†	Handle Pull For Full Loads (Lbs.)	Lifting Distance	Min. Distance Between Hooks	Capacity In Lbs/Metric†	Handle Pull For Full Loads (Lbs.)	Lifting Distance	Min. Distance Between Hooks			
1/2 ton	1000-15*	—	—	—	—	1000/455	77	15'	16"	3/16"	16'	7
1/2 ton	115-R*	—	—	—	—	1000/455	77	15'	16"	3/16"	16'	7
3/4 ton	1500-25	1500/682	67	12-1/2'	21"	750/341	65	25'	16"	5/32"	26'	8-1/2
3/4 ton	1500-15*	1500/682	67	12-1/2'	21"	750/341	65	25'	16"	5/32"	26'	8-1/2
1-1/8 ton	2250-15	2250/1022	86	7-1/2'	21"	1125/511	83	15'	16"	3/16"	16'	8-3/4
1-1/8 ton	215R	2250/1022	86	7-1/2'	21"	1125/511	83	15'	16"	3/16"	16'	8-3/4
1-1/8 ton	2250-20	2250/1022	86	10'	21"	1125/511	83	20'	16"	3/16"	21'	9-1/4
1-1/2 ton	3000-10	3000/1363	100	5'	21"	1500/682	97	1'	16"	7/32"	11'-6"	9
1-1/2 ton	310-R	3000/1363	100	5'	21"	1500/682	97	1'	16"	7/32"	11'-6"	9

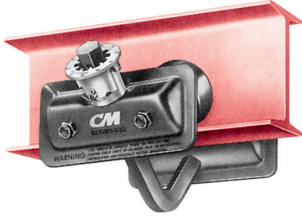
† Metric capacities shown are exact equivalents of U.S Domestic Ratings.

*without pulley block

TROLLEYS

Columbus McKinnon Corporation

Series 632 Ball Bearing Trolley



Revolutionary design advances make this trolley shorter, more compact and 50% lighter than conventional trolleys, yet it's every bit as rugged. Exclusive Dial-Fit™ collars adapt to a wide range of Beams in minutes. No time consuming washer adjustment. And the Series 632 can negotiate radius curves as tight as 7 to 10 inches, depending on capacity. Includes hardened steel double-row ball bearing universal tread track-wheels.

CERTEX Cat. Ref. No.	Columbus McKinnon Code	Maximum Capacity (Tons)	Adj. for American Standard Shapes		Thread Diameter of Wheels (Inches)	Net Weight (Pounds)
			Depth (Inches)	Flange Width (Inches)		
CX11-0599	3221	1/4	4-12	2 5/8-5 1/16	2 3/4	11
CX11-0600	3222	1/2	4-12	2 5/8-5 1/16	2 3/4	11
CX11-0601	3224	1	4-12	2 5/8-5 1/16	2 3/4	12
CX11-0602	3225	1 1/2	6-15	3 3/8-5 5/8	3 1/2	25
CX11-0603	3226	2	6-15	3 3/8-5 5/8	3 1/2	25
CX11-0604	3230	3	8-18	4 - 6 1/4	3 1/2	32

Series 633 Ball Bearing Trolley



Versatile, all-purpose trolley can be used with any hook suspended hoist. Hardened universal tread flanged track wheels are ball bearing equipped for easy rolling on American standard shapes, wide flange shapes, or patented rail. Rugged steel side plates are formed with trolley guards for added security and act as bumpers. Adapts to a wide range of beam adjustments. Trolley includes a standard hook plate.

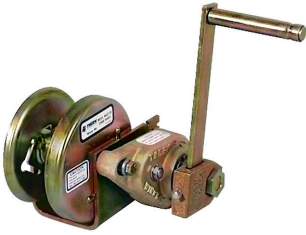
CERTEX Cat. Ref. No.	Columbus McKinnon Code	Maximum Capacity (Tons)	Adj. for American Standard Shapes		Tread Diameter of Wheels (Inches)	Net Weight (Pounds)
			Depth (Inches)	Flange Width (Inches)		
CX11-0605	3302	1/2	3 thru 15	2 1/2 thru 5 5/8	2 9/32	17
CX11-0606	3304	1	5 thru 24	3 thru 8	3 15/32	35
CX11-0607	3306	2	6 thru 24	3 5/8 thru 8	3 15/16	53
CX11-0608	3307	3	8 thru 24	4 thru 8	5 1/8	101
CX11-0609	3309	5	10 thru 24	4 5/8 thru 8	6 1/8	145

WINCHES

Thern, Inc.

Cable Strap

Spur Gear Hand Winches — Single and Double Reduction



Model M4021PB

Revolutionary design advances make this trolley shorter, more compact and 50% lighter than conventional trolleys, yet it's every bit as rugged. Exclusive Dial-Fit™ collars adapt to a wide range of Beams in minutes. No time consuming washer adjustment. And the Series 632 can negotiate radius curves as tight as 7 to 10 inches, depending on capacity. Includes hardened steel double-row ball bearing universal tread track-wheels.

CERTEX Cat. Ref. No.	Thern Base Model	CERTEX Cat. Ref. No.	Thern With Brake	Load Rating 1st Layer	Load Rating Full Drum	Wire Rope Diameter	Full Drum Capacity	Gear Ratio	Force To Lift 1000 Lb.	Approx. Ship. Wt.
CX11-0625	M401	—	—	500 lb.	300 lb	3/16 in.	60 ft.	—	—	8 lb.
CX11-0626	M4022	CX11-0630	M4021PB	1000 lb.	500 lb	3/16 in.	52 ft.	2.85:1	55 lb.	11 lb.
CX11-0627	M4032	CX11-0631	M4031PB	1000 lb.	500 lb	3/16 in.	110 ft.	2.85:1	55 lb.	13 lb.
CX11-0628	M4312	CX11-0632	M4311PB	2000 lb.	1200 lb	1/4 in.	58 ft.	14.7:1	22 lb.	23 lb.
CX11-0629	M4412	CX11-0633	M4411PB	2000 lb.	1200 lb	1/4 in.	120 ft.	14.7:1	22 lb.	25 lb.

Actual drum capacities may be 25-30% less, due to nonuniform winding. Tension in the wire rope will also affect drum capacity. Weight shown is for base model, add 3 lb for brake on M4021PB and M4031PB, add 6 lb for brake on M4311PB and M4411PB.

Worm Gear Hand Winches



Model 462PB

Machine cut worm gears provide accurate operation and long lasting service. An enclosed oil bath provides continuous lubrication to minimize wear. Automatic brake models provide positive load control for lifting and lowering operations. A durable paint finish is combined with zinc and iridescent dichromate plating to protect against corrosion. Bronze and ball bearings deliver smooth operation. Winches can be field or factory converted for vertical or wall mounting. Wire rope sold separately.

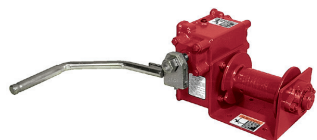
CERTEX Cat. Ref. No.	Thern Base Model	CERTEX Cat. Ref. No.	Thern With Brake	Load Rating 1st Layer	Load Rating Full Drum	Wire Rope Diameter	Full Drum Capacity	Gear Ratio	Force To Lift 1000 Lb	Approx. Ship. Wt.
CX11-0634	465	—	—	750 lb.	400 lb	3/16 in.	58 ft.	20:1	21 lb.	12 lb.
CX11-0635	462	CX11-0637	462PB	1000 lb.	500 lb	3/16 in.	61 ft.	15:1	34 lb.	15 lb.
CX11-0636	482	CX11-0638	482B	4000 lb.	2500 lb	3/8 in.	140 ft.	26:1	31 lb.	97 lb.

Actual drum capacities may be 25-30% less, due to nonuniform winding. Tension in the wire rope will also affect drum capacity. Weight shown is for base model, add 5 lb for brake on 462PB, add 10 lb for brake on 482B.

WINCHES

Thern, Inc.

Series 4WM Worm Gear Hand Winches



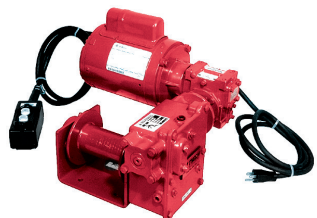
Model 4WM2

Machine cut worm gearing delivers accurate operation and long lasting service. Hex drive and socket handle included. Winch can also be driven with a maximum 400 rpm drill-motor. Cast aluminum gearbox and drum provide lightweight strength and durability. An enclosed oil bath provides continuous lubrication. An internal mechanical brake provides positive load control for lifting and lowering operations. Bronze and ball bearings deliver smooth operation. Wire rope sold separately.

CERTEX Cat. Ref. No.	Thern Model	Load Rating 1st Layer	Load Rating Full Drum	Wire Rope Diameter	Full Drum Capacity	Gear Ratio	Force To Lift 1000 Lb.	Approx. Ship. Wt.
CX11-0639	4WM2	2000 lb.	1200 lb.	1/4 in.	77 ft.	32:1	12 lb.	43 lb.
CX11-0640	ED120BD	electric drill-motor 400 rpm drive kit - 120 VAC 1-1/8" hex socket						12 lb.

Actual drum capacities may be 25-30% less, due to nonuniform winding. Tension in the wire rope will also affect drum capacity.

Series 4WP Worm Gear Power Winches



Model 4WP2

Machine cut worm gearing delivers accurate operation and long lasting service. 115 volt single phase motor 8 foot power cord with grounded plug and pushbutton pendant control on 6 foot cord. Cast aluminum gearbox and drum provide lightweight strength and durability. An enclosed oil bath provides continuous lubrication. An internal mechanical brake provides positive load control for lifting and lowering operations. Bronze and ball bearings deliver smooth operation. Wire rope sold separately.

CERTEX Cat. Ref. No.	Thern Model	Description	Load Rating 1st Layer	Load Rating Full Drum	Wire Rope Diameter	1st Layer Line Speed	Full Drum Capacity	Approx. Ship. Wt.
CX11-0641	4WP2	115/1/60 VAC, with 6 ft pendant	2000 lb.	1200 lb.	1/4 in.	8 fpm	77 ft.	83 lb.

Actual drum capacities may be 25-30% less, due to nonuniform winding. Tension in the wire rope will also affect drum capacity.

Series 477 Helical/Worm Gear Power Winches



Model 4771

Helical/worm gearing delivers dependable operation. Cast aluminum construction provides lightweight strength and durability. An enclosed oil bath provides continuous lubrication. An internal mechanical brake provides positive load control for lifting and lowering operations. Ball bearings deliver smooth operation. Wire rope sold separately.

CERTEX Cat. Ref. No.	Thern Model	Description	Load Rating 1st Layer	Load Rating Full Drum	Wire Rope Diameter	1st Layer Line Speed	Full Drum Capacity	Approx. Ship. Wt.
CX11-0642	4771	115/1/60 VAC, with 6 ft pendant	2000 lb.	1200 lb.	5/16 in.	13 fpm	90 ft.	87 lb.
CX11-0643	4771DC	12 VDC, with 10 ft pendant	2000 lb.	1200 lb.	5/16 in.	13 fpm	90 ft.	105 lb.
CX11-0644	4771PN	pneumatic 80 cfm at 100 psi	2000 lb.	1200 lb.	5/16 in.	13 fpm	90 ft.	74 lb.
CX11-0645	4771HY	hydraulic 4 gpm at 1000 psi	2000 lb.	1200 lb.	5/16 in.	13 fpm	90 ft.	72 lb.

Actual drum capacities may be 25-30% less, due to nonuniform winding. Tension in the wire rope will also affect drum capacity.

For all models except 4771, line speed is based on rated load, actual speed will vary with load weight and power supply. For Model 4771PN, ratings are at 100 psi. For Model 4771HY, ratings are at 1000 psi. Controls and hoses sold separately.

WINCHES

Thern, Inc.

Series 5122 Portable Davit Cranes



Model 5122M1
with 522 pedestal base

Cranes move from base to base to serve more than one lift station. Corrosion resistant finish is standard, stainless steel and galvanized models available. A quick disconnect anchor allows you to quickly attach or remove the wire rope. The boom rotates 360° and adjusts to 2 different positions for operation, or folds down for storage or transport. Spur gear hand winches include automatic brakes for positive load control. Wire rope sold separately.

CERTEX Cat. Ref. No.	Thern Model	Description	Load Rating Boom Down	Load Rating Boom Up	Wire Rope Diameter	Max. Hook Reach	Approx. Ship. Wt.
CX11-0646	5122M1	hand winch operated	500 lb.	500 lb.	3/16 in.	42 in.	68 lb.
CX11-0647	514	wheel base					61 lb.
CX11-0648	522	pedestal/socket base for upright or flush mount					18 lb.
CX11-0649	522W	wall mount base					20 lb.

Max. hook reach is measured from mast center to hook center with boom down.

Series 5124 Portable Davit Cranes



Model 5124M2
with 524 pedestal base

Cranes move from base to base to serve more than one lift station. Corrosion resistant finish is standard, galvanized models available. A quick disconnect anchor allows you to quickly attach or remove the wire rope. The boom rotates 360° and telescopes to 4 different lengths. Boom height is adjustable with a ratchet and screw-jack. Wire rope and bases sold separately.

CERTEX Cat. Ref. No.	Thern Model	Description	Load Rating Retracted	Load Rating Extended	Wire Rope Diameter	Max. Hook Reach	Approx. Ship. Wt.
CX11-0650	5124M2	hand winch operated	2000 lb. *(requires 5124TPL)	1000 lb.	1/4 in.	81 in.	240 lb.
CX11-0651	5124E2	115/1/60 electric	2000 lb. *(requires 5124TPL)	1000 lb.	1/4 in.	81 in.	295 lb.
CX11-0652	524	pedestal base for upright mount					65 lb.
CX11-0653	524F	socket base for flush mount					55 lb.
CX11-0654	524W	wall mount base					80 lb.
CX11-0655	5124TPL	two part line kit — includes turn around sheave block with hook, swivel anchor and fasteners					7 lb.

* Load ratings are based on two part line. Max. hook reach is measured from mast center to hook center with boom fully extended and down.

Model 548 Portable Floor Crane



Model 548

Collapsible crane can be quickly folded into a self-contained 16 x 17 x 57 inch unit, making it ideal for mobile maintenance crews, rental companies, contractors, and other uses where portability is important. The crane features a 4 position telescoping boom for extended reach, scratch and spark resistant wheels, and rear caster wheels for maneuverability. Loads are raised and lowered using a manually operated hydraulic jack, equipped with an overload relief valve to help prevent overload damage.

CERTEX Cat. Ref. No.	Thern Model	Load Rating Retracted	Load Rating Extended	Hook Reach Retracted	Hook Reach Extended	Hook Height Retracted	Hook Height Extended	Approx. Ship. Wt.
CX11-0656	548	1000 lb.	590 lb.	31 in.	52 in.	66 in.	81 in.	154 lb.

Hook reach is measured from mast center to hook center with boom horizontal. Hook height is measured from floor level to hook center with boom fully up.

