



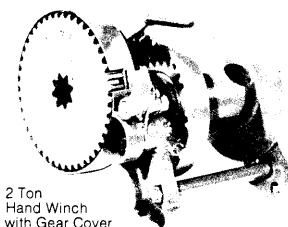
HAND WINCHES

2 Ton & 5 Ton All Steel Hand Winches

- All steel construction with replaceable bronze bearings
- Fast two-speed gear change—4:1 for slack cable take-up only
- One piece handle with adjustable pinion
- Easy free-spooling
- Spring loaded holding dog with release handle
- Handle operated adjustable holding brake

Optional Features:

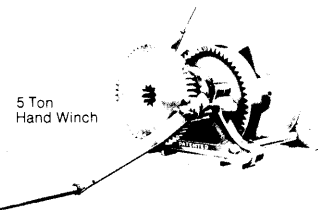
- Safety Brake Handle — load automatically held when cranking stops
- Marine Models have cable clamp, zinc metallized brake drum, rust-resistant paint
- Divided Drum
- Reverse Direction Holding Dogs
- 28" Diameter Hand Wheels
- Gear Covers
- #3 or #4 Morse Taper Pinions for fast take-up by power of slack line



2 Ton Hand Winch with Gear Cover

Specifications:

Part No.	MODEL	(TONS) CAPACITY 1ST LAYER	GEAR RATIO	DRUM CAPACITY (FT)						SHIPPING WEIGHT (LBS)
				1/4	5/16	3/8	7/16	1/2	5/8	
077-5030	K-5006	2	4:1-22:1	278	180	133	97	66		67
077-5021	K-5010	2	4:1-22:1	464	300	222	161	111		77
077-5227	K-5008	5	4:1-24:1			358	284	220	123	124
077-5423	K-5012	5	4:1-24:1			537	425	330	185	140
077-5628	K-5016	5	4:1-24:1			716	566	440	247	155
077-5824	K-5024	5	4:1-24:1			1075	850	660	371	180



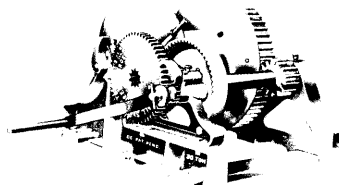
5 Ton Hand Winch

30 Ton All Steel Hand Winches

- All steel construction with replaceable bronze bearings
- Three speed gear change
- One piece handle with adjustable pinion
- Two spring loaded holding dogs with release handle
- Adjustable hand operated holding brake

Optional Features:

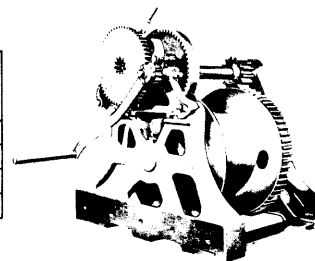
- 10" and 14" Drum Diameters
- BW Models are free standing, no side clearance required
- 28" diameter hand wheels
- Wide Drums for extra cable capacity
- Gear Covers
- Safety Brake Handle — Load held automatically whenever cranking is stopped
- #3 or #4 Morse Taper Pinions for fast take-up by power of slack line



BW14 30 Ton Hand Winch

Specifications:

Part No.	MODEL	CAPACITY (TONS) 1ST LAYER		STATIC HOLDING (DOG) (TONS)	GEAR RATIOS	DRUM CAPACITIES (FT)					SHIPPING WEIGHT (LBS)
		WINCHING	TIGHT-ENING			1/2	3/8	1/4	1	1 1/2	
077-5067	K-5110	15	20	30	4:1, 19:1, 109:1	1120	675	520	290		654
077-5469	K-5114	10	15	30	4:1, 19:1, 109:1	842	510	360	218	142	687
077-5664	K-5210	15	20	30	4:1, 19:1, 109:1	1120	675	520	290		760
077-5860	K-5214	10	15	30	4:1, 19:1, 109:1	842	510	360	218	142	793

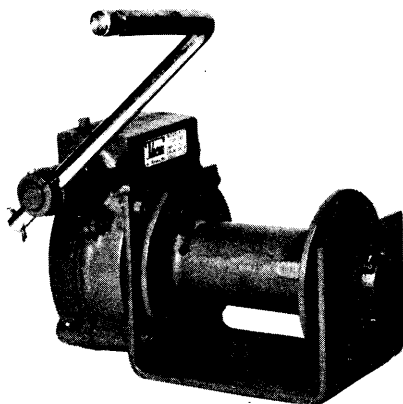




W.J. KEATING LIMITED

WORM GEAR WINCHES FOR HAND OPERATION

FULLY ENCLOSED GEARS IN OIL BATH
FOR LONG LIFE AND SMOOTH OPERATION



FEATURES

WORM GEAR WINCHES—seem less efficient because they are slow and harder to turn, but since the worm gearing does retard movement these winches if outfitted with the *Disc Brake are generally recommended over the spur gear type for loads which need lifting.

DRUM and GEARCASE—of all worm gear hand-operated models are of cast iron, the **FRAME** is of steel

WORM GEAR—is machine cut of cast iron, the **WORM** is of steel.

HANDLE—adjusts easily to turn either on a small radius for light loads, or on a larger radius for heavier loads.

HANDLE SLEEVE—is free turning to provide an easy grip.

WORM GEARS—may be self-locking when new but can lose this feature with wear-in, vibration, shock loads, climate changes, handle movement to start the load, or other conditions. Consequently, loads should be additionally held by locking the handle against turning or locking the load with pins or chain, or a *Disc Brake.

MODEL NUMBER		462	472	482
LOAD RATING (2 layers)	lbs	1000	2000	4000
	kg	450	900	1800
LOAD RATING (full drum)	lbs	400	1000	2000
	kg	180	450	900
DRUM CAPACITY (feet)	CABLE SIZE	1/8	125	315
		3/16	55	140
		1/4		75
		5/16		50
		3/8		
		1/2		
GEAR RATIO		15:1	24:1	26:1
‡PULL REQUIRED TO LIFT 1000 lbs (Approx.)		34	15	31
Part No.		077- 5003	077- 5209	077- 5405



* DISC BRAKE

Replaces the regular handle, to provide load-holding ability in the play out of the cable. The Model B441 Disc Brake handle can be adopted onto Worm Gear Hand Winch Models 472 and 482.

A winch not equipped with the Disc Brake should never be used for lifting, lowering, or dragging loads on an incline.



SPUR GEAR WINCHES

New X-tra features provide more value

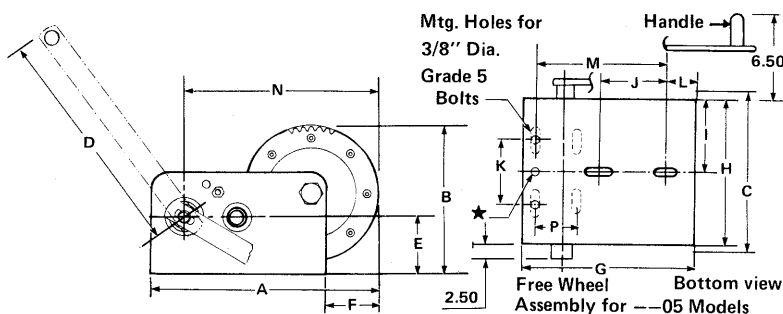
- Gear covers protect gearing from outside interference.
- Bronze bushings oil impregnated, meeting SAE 841 and ASTM B438 specifications, lower friction for longer life and easier cranking.
- Two independent ratchet systems for additional load security.
- New cable clamp is simpler to install.
- Larger handle roller grips better in your hand.
- Double-Disc automatic brake designed for positive load control, both raising and lowering, without having to disengage the ratchet pawl.
- Industry Standards, like ASAE S361.1T, require these features:
 - Low handle efforts at rated loads.
 - Automatic brake load control.
 - Large drum diameters (10X recommended cable size) protect steel cable from damage.

K-4048



SPECIFICATIONS

Model	Max. Rated Line Pull		Max. Cable Size Data (7x19 Galvanized Aircraft Cable)			Mechanical Data			Max. Mech. Adv.	Free Wheel
	1st Layer	Full Drum	Diameter	Test Strength	Drum Storage	Gear Ratio	Handle Length	Drum Hub. Dia.		
K-4049	4000 lbs. 1800 kg.	2300 lbs. 1000 kg.	3/8" 9 mm	14,400 lbs. 6,500 kg.	75 ft. 23 m	20.9:1	14" 360 mm	3 3/4" 95 mm	142:1	Yes
K-4050	2500 lbs.	1500 lbs.	5/16"	9,800 lbs.	75 ft.	15.8:1	11"	3 1/8"	101:1	No
K-4051	1100 kg.	680 kg.	8 mm	4,445 kg.	23 m		280 mm	79 mm		Yes
K-4048	1500 lbs.	700 lbs.	1/4"	7,000 lbs.	88 ft.	5.1:1	11"	2 1/2"	41:1	No
K-4053	700 kg.	320 kg.	6 mm	3,175 kg.	27 m		280 mm	63 mm		Yes
K-4055	1000 lbs. 450 kg.	600 lbs. 270 kg.	7/32" 5.5 mm	5,600 lbs. 2,540 kg.	60 ft. 18 m	4.1:1	10" 250 mm	2 1/4" 57 mm	33:1	No



WORK WINCH CAPACITY RATINGS

The maximum rated line pull is the greatest pulling force that should be exerted by the winch. As cable wrap layers build up on the drum, the mechanical advantage of the winch is reduced, so the rating must be reduced as well. The full drum ratings are the maximum pull developed without exceeding 50 lbs. of handle input force. To meet ASAE standard S361.1T, the maximum rated line pull is limited to 20% of cable test strength for the cable being used. For complete details, refer to ASAE Standard S361.1T.

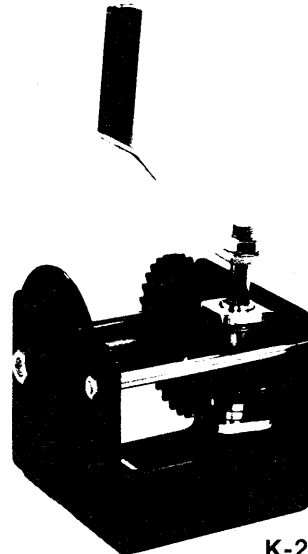
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
K-4049	12.21	7.68	11.00	14.50	3.09	2.88	9.34	7.50	3.75	2.13	3.12	1.59	6.31	10.50	1.75
K-4050	11.31	7.25	9.40	11.50	2.08	2.69	8.62	7.07	3.54	3.19	3.12	.94	6.46	9.81	—
K-4051	11.31	7.25	11.90	11.50	2.08	2.69	8.62	7.07	3.54	3.19	3.12	.94	6.46	9.81	—
K-4048	8.84	7.13	7.11	11.50	2.43	2.75	6.09	5.17	2.59	—	2.12	1.63	3.88	7.13	—
K-4053	8.77	7.06	8.93	11.50	2.43	2.68	6.09	5.17	2.59	—	2.12	1.63	3.88	7.06	—
K-4055	7.62	6.13	6.78	10.63	1.91	2.38	5.25	4.06	2.03	—	2.12	1.19	3.43	5.75	—



WORM GEAR WINCHES

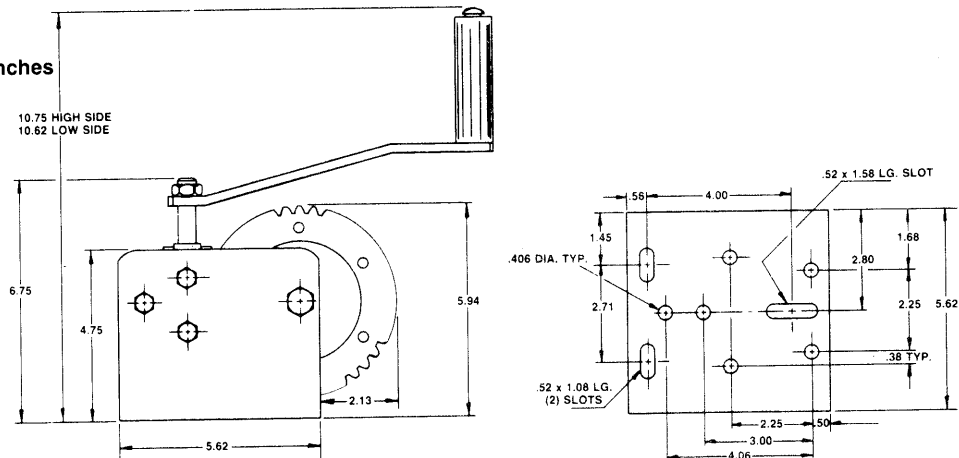
Six key features mean more value.

- 1) Bronze bushings on the worm gear shaft extend life by reducing friction and wear.
 - 2) Rear frame reinforcing bar keeps the frame straight under heavy loads, preventing damage to gearing caused by misalignment.
 - 3) Hardened steel worm gear resists wear for longer service life.
 - 4) Drum hub of seamless steel tube won't collapse under heavy loads.
 - 5) High carbon SAE1050 steel on drum gears lasts longer than soft steel gears.
 - 6) Large handle grip is easy to crank.
- Large 1½" drum hub protects steel cable from premature failure.
 - Winch mounting bolt holes in the frame base match other winches, making replacement of worn out winches easy.
 - Mounts on ceiling, walls or posts.
 - Electric drill or extension handle driving with drive ring models.
 - Two drum styles — split or full. Split drum allows two lines to be controlled with one winch.
- Simplified cable attachment requires no hardware fastening.



K-2048

Dimensions in Inches



Winch Specifications

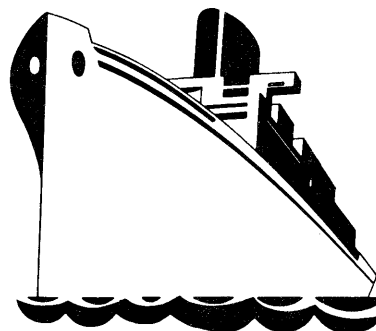
MODEL	DESCRIPTION	CAPACITY LBS (kg.)	GEAR RATIO	CABLE STORAGE (ft)		DRUM HUB DIAMETER (in.)	DRIVE
K-2048	Regular drum, handle drive	1500	31:1	115	50	1.5	8" Handle
K-2049	Regular drum, ring drive	1500	31:1	115	50	1.5	Drive Ring
K-2050	Split drum, ring drive	1500	31:1	55	25	1.5	Drive Ring
K-2051	Regular drum, handle drive	2000	41:1	235	100	1.5	8" Handle
K-2052	Regular drum, ring drive	2000	41:1	235	100	1.5	Drive Ring
K-2053	Split drum, ring drive	2000	41:1	100	50	1.5	Drive Ring



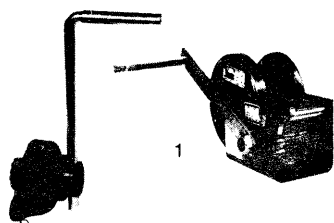
MARINE GRADE WINCHES

Marine spur gear winches are identical in size and rating to the industrial models, but they have superior corrosion resisting features:

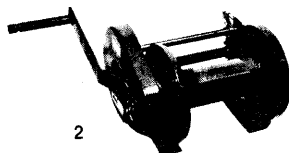
- All marine winches are painted with a primer base coat followed by an enamel finish coat. Excellent resistance to salt spray corrosion.
- Stainless steel fasteners and springs.
- Oil impregnated bronze bushings and sealed ball bearings.
- All marine winches have been tested in accordance with the procedures of ASTM Method B117-73 Salt Fog Test.



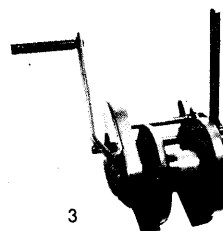
MARINE-GENERAL PURPOSE SPUR GEAR HAND WINCHES



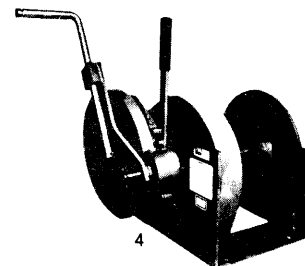
Model M4021 (Shown)—2" Drum
Disc Brake Model M4031—3" Drum



Model M4311—3" Drum
Model M4411 (Shown)—6" Drum



Model M4321 (Shown)—3" Drum
Model M4421—6" Drum



Model M452
Model M492

Complete information on all winches identified as 1, 2, and 3 above is given in Bulletin 40A — that of the two models shown at 4 may be seen in Bulletin 40C. For the Disc Brake, refer to Bulletin 40B.

NOTE: Final responsibility for determining suitability of equipment to any particular use is that of the owner and/or user; thus all applicable codes, regulations, and manuals of material handling should be studied.

SPECIFICATIONS

Shaded figures are more commonly used.

Part No.	LOAD RATING				DRUM CAPACITY								GEAR RATIO		*PULL REQD TO LIFT 1000 lbs.	DRUM DIMENSIONS			OVERALL DIMENSIONS			MOUNT-ING
	2 LAYERS		FULL DRUM		1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	SINGLE GEAR	DOUBLE GEAR		ID	OD	W	LENGTH	WIDTH	HEIGHT	
075-2956 M4021	1000	450	300	135	125	55							2.85		55	1.50	4.56	2.00	5.00	7.25	5.75	3/8
075-2965 M4031	1000	450	300	135	250	110							2.85		55	1.50	4.56	4.00	8.25	8.25	5.75	3/8
075-2974 M4311	2000	900	850	385	235	105	70	45					3.83	14.7	22	2.50	5.44	3.00	8.50	9.75	7.25	3/8
075-2983 M4321	2000	900	850	385	235	105	70	45					3.83	14.7	22	2.50	5.44	3.00	8.50	9.75	7.25	3/8
075-2992 M4411	2000	900	850	385	470	210	140	90					3.83	14.7	22	2.50	5.44	6.00	11.50	9.75	7.25	3/8
075-3009 M4421	2000	900	850	385	470	210	140	90					3.83	14.7	22	2.50	5.44	6.00	11.50	9.75	7.25	3/8
075-3020 M452	4000	1800	2000	900	1220	550	290	200	140	80	50	35	4.42	19.54	4.5	4.00	8.50	6.38	16.00	15.00	10.75	1/2
075-3029 M492	10000	4500	4000	1800	3300	1500	800	540	380	220	145	100	5.00	25.00	5.4	5.00	12.38	7.62	19.00	20.40	14.00	3/4

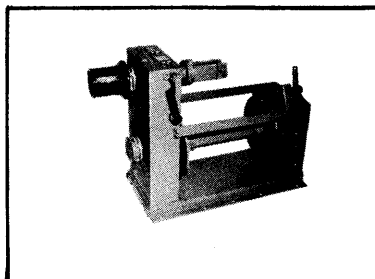
*Handle pull (lbs) required to lift 1000 lbs on an empty drum using maximum handle length.

Add the suffix "B" to any model to specify the addition of the Disc Brake (example: M4021B).



K-5000 SERIES WINCHES

Single or Double Drum
Hydraulic or Mechanical Drive



CONSTRUCTION FEATURES

- * Stainless Steel Brake Bands
- * Anti Friction Bearings
- * Fully Enclosed Oil Bathed Drive System
- * Free Spooling Drum
- * Single or Double Drum Configuration
- * Positive Locking Heavy Duty Clutch
- * Screw Type Tension Brake
- * All Steel Construction
- * Two Standard Drum Sizes
- * Custom Drum Sizes Available (Special Order)

DIMENSIONS				Overall Height	Overall Length	Overall Width	
		14" DRUM		28-INCHES	38-INCHES	18-INCHES	
		19" DRUM		28-INCHES	43-INCHES	18-INCHES	

MODEL K-5000		MODEL B	MODEL C	MODEL D	MODEL E	MODEL F	MODEL G	MODEL H	MODEL I
Performance Specifications		11.5 - 5	14.3 - 5	17.2 - 5	23 - 5	9.9 - 20	12.2 - 20	15.3 - 20	19.2 - 20
LINE PULL (LBS)	BARE DRUM	4650	5000	5350	5600	4800	5500	6400	7100
	MID DRUM	2270	2500	2595	2690	2335	2680	3113	3500
	FULL DRUM	1500	1650	1700	1800	1600	1775	2100	2500
LINE SPEED (FT/MIN)	BARE DRUM	62	50	45	35	126	105	84	67
	MID DRUM	125	98	84	65	260	221	174	138
	FULL DRUM	188	147	125	95	395	335	264	210
	AVERAGE	125	98	84	65	260	221	174	138
HYDRAULIC SYSTEM REQUIREMENTS GPM/PSI		15/1800	15/1600	15/1600	15/1300	20/2000	20/2000	20/1800	20/1600

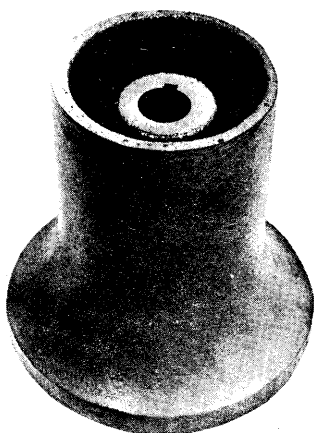
WIRE CAPACITY FEET FATHOMS	WIRE DIAMETER		3/16"	1/4"	5/16"	3/8"	7/16"
	WIRE CAPACITY - 14" DRUM		3300/550	1740/290	1320/220	900/150	660/110
	WIRE CAPACITY - 19" DRUM		4500/750	2375/395	1800/300	1225/200	900/150

ALSO AVAILABLE UP TO 22,000 LB.
LINE PULL. WRITE FOR SPECIFICATIONS

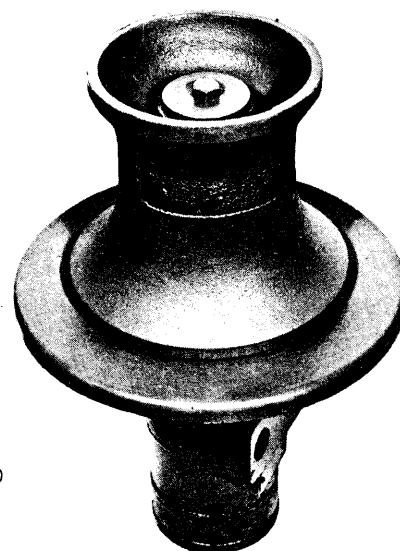


W.J. KEATING LIMITED

HYDRAULIC WINCHES AND WINCH HEADS



4 1/2" winch head



3 1/2" WINCH HEAD
SHOWN WITH BEARINGED
MOUNTING PLATE AND
HYDRAULIC MOTOR

**4 1/2" WINCH
PERFORMANCE CHART**

Model B Fathoms/ Min. 525# Line Pull	Model C Fathoms/ Min. 650# Line Pull	Model E Fathoms/ Min. 1100# Line Pull	Model K Fathoms/ Min. 1550# Line Pull	Model P Fathoms/ Min. 2550# Line Pull
15	12	6	4	2
31	24	13	8	5
47	36	21	13	8
62	47	27	18	11
78	60	34	23	14
95	72	42	28	18
112	82	49	33	21
57	44	25	17	10
92	70	40	27	17
126	95	55	37	23
160	120	69	47	30
182	144	84	57	36

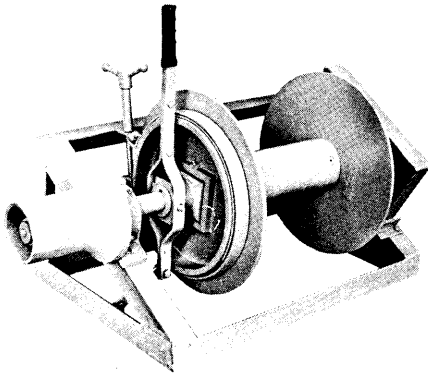
**3 1/2" WINCH
PERFORMANCE CHART**

Power Pack	Pump RPM	Model A Fathoms/ Min. 400# Line Pull	Model B Fathoms/ Min. 675# Line Pull	Model C Fathoms/ Min. 850# Line Pull	Model E Fathoms/ Min. 1400# Line Pull	Model K Fathoms/ Min. 2000# Line Pull	Model P Fathoms/ Min. 3200# Line Pull
P	300	20	11	9	5	3	2
P	450	39	24	20	10	7	4
P	600	58	37	28	16	10	6
P	750	76	48	37	21	14	9
P	900	94	61	46	27	18	11
P	1050	114	74	56	32	22	14
P	1200	134	87	64	38	26	16
B	300	69	44	34	20	13	8
B	450	110	71	54	31	21	13
B	600	150	98	74	43	29	18
B	750	189	124	93	54	37	23
B	900	228	142	112	65	44	28

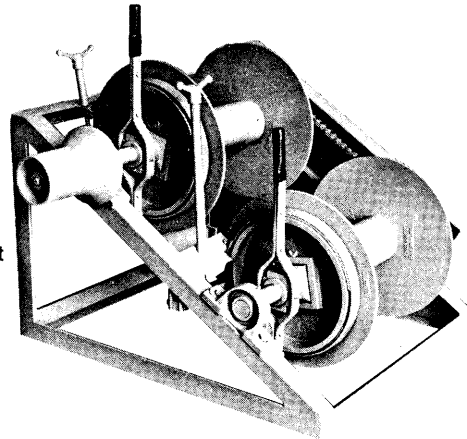


W.J. KEATING LIMITED

HYDRAULIC DRUM HOIST



Single drum hoist

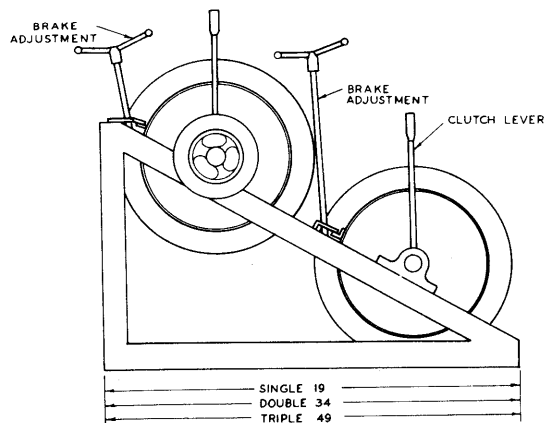
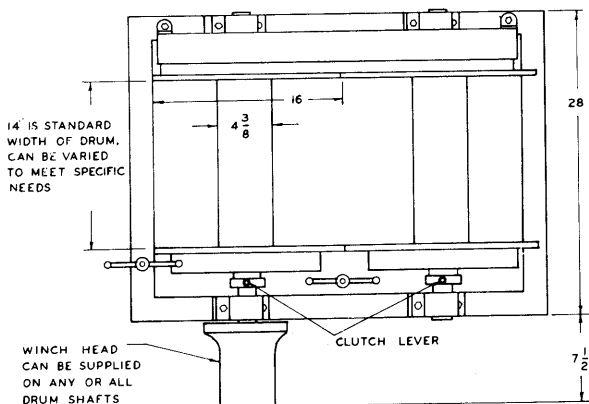


Dual drum hoist

AVAILABLE IN SINGLE, DOUBLE OR
TRIPLE DRUM. FREE SPOOLING,
FRICTION BRAKE, POSITIVE DRIVE

DRUM HOIST PERFORMANCE CHART

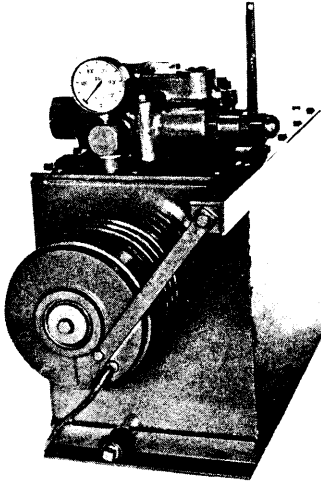
Power Pack	Pump RPM	Model A Fathoms/Min. 600 # Line Pull	Model B Fathoms/Min. 1100 # Line Pull	Model C Fathoms/Min. 1350 # Line Pull	Model E Fathoms/Min. 2200 # Line Pull	Model K Fathoms/Min. 3000 # Line Pull	Model P Fathoms/Min. 5000 # Line Pull
P	300	15	8	7	4	2	1
P	450	29	18	14	8	5	3
P	600	42	27	20	12	8	5
P	750	55	35	27	15	10	6
P	900	69	44	34	19	13	8
P	1050	84	54	41	24	16	10
P	1200	98	63	46	28	19	12
B	300	51	32	25	14	9	6
B	450	80	52	39	23	15	10
B	600	109	72	54	31	21	13
B	750	138	90	68	39	27	17
B	900	166	103	82	47	32	20
B	1050	195	128	95	55	38	24
B	1200	220	146	110	62	44	28





W.J. KEATING LIMITED

POWER PACK



Power pack B with electric clutch

LENGTH: (w/o electric clutch) - 21"
(with electric clutch) - 24 1/8"

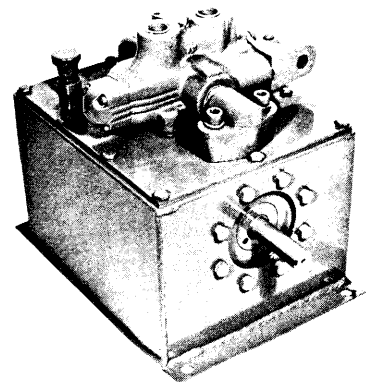
WIDTH: (of tank) - 11"
(overall) - 12 3/4"

HEIGHT: (of tank) - 14 3/4"
(to top of control handle) - 22"

POWER PACK B PERFORMANCE CHART

Pump RPM	Gallons/Min.
300	6.3
450	9.7
600	13.1
750	16.4
900	19.7
1050	23.0
1200	26.3

Power pack P



POWER PACK P PERFORMANCE CHART

Pump RPM	Gallons/Min.
300	2.1
450	3.7
600	5.3
750	6.8
900	8.4
1050	10.1
1200	11.7

LENGTH: (w/o electric clutch) - 12"
(with electric clutch) - 13 1/8"

WIDTH: (of tank) - 8 3/4"
(overall) - 9 3/8"

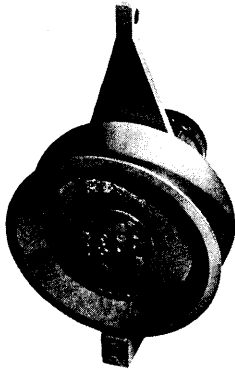
HEIGHT: 10 3/16"



W.J. KEATING LIMITED

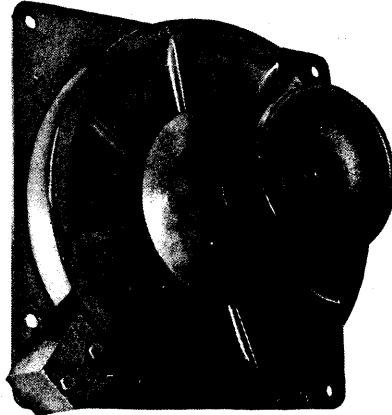
HYDRAULIC HAULER

8"



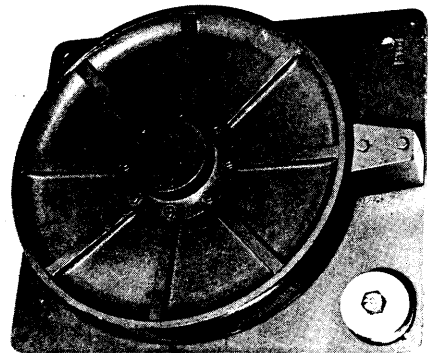
Standard 8" hauler

12"

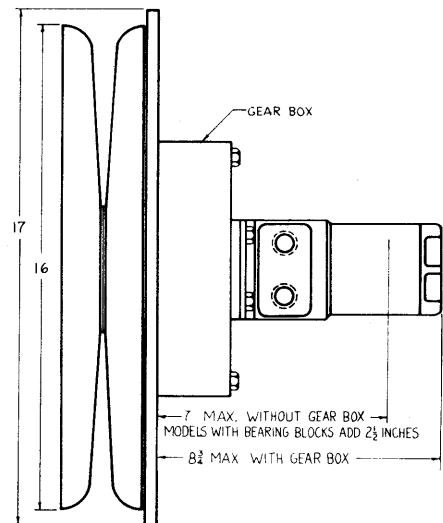
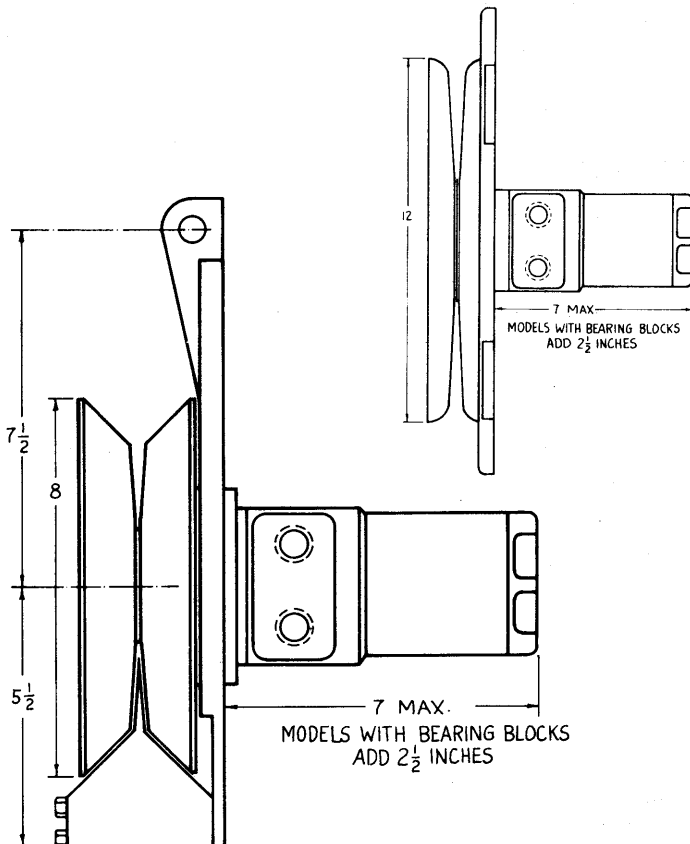


Economy 12" hauler
with winch head

16"



16" hauler with roller guide





W.J. KEATING LIMITED

ELECTRIC WINCHES

Shur-Worm 1500 Lbs. to 3000 Lbs.

Convert to Power

For heavy duty hand or convert to power use.

Same features as hand winches, but special

anti-friction bearings make these models

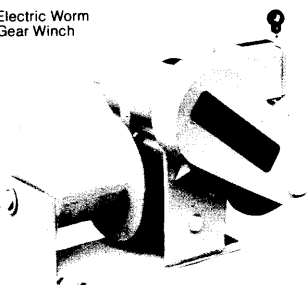
convertible to intermittent power. (Not

furnished with free spooling.)

Specifications:

MODEL	CAPACITY (LBS.)		LINE SPEED FPM	GEAR RATIO	HORSE- POWER	DRUM CAPACITY				SHIPPING WEIGHT (LBS.)
	HAND 1ST LAYER	POWER 2ND LAYER				1/4"	3/16"	1/4"	5/16"	
K-4060	1500	750	10	20:1	3/4	120	60	34		21
K-4061	1500	750	10	20:1	3/4	240	120	67		21 3/4
K-4062	3000	1500	11	30:1	1 1/2	560	253	135	96	51

Electric Worm
Gear Winch



Electric Winches 750 Lbs. to 2000 Lbs. Worm Gear

Features: Automatic self-locking

machine-cut gears, fully enclosed with

anti-friction bearings.

Fully reversing motors are 15-minute duty.

Specifications:

MODEL		LINE PULL 2ND LAYER (LBS)	LINE SPEED 2ND LAYER (FPM)	DUTY CYCLE (MIN)	HORSE POWER	MAX. DRUM STORAGE				SHIPPING WEIGHT (LBS)
1/60/115V-230V	3/60/230V-460V					3/16"	1/4"	5/16"	3/8"	
K-4063	K-4064	1000	30	15	1 1/2	253	135	96		117
K-4065	K-4066	1100	20	15	1 1/2	253	135	96		117
K-4067	K-4068	1500	20	15	1 1/2	338	200	122	87	111
K-4069	K-4070	2000	20	10	1 1/2	338	200	122		111
K-4071	K-4072	750	43	15	1 1/2	338	200	122	87	105

12" Drums Available

¹EW and EBT Models are belt driven

²DT models are direct driven



ELECTRIC WINCHES

Electric Winches 200 Lbs. to 25,000 Lbs.

Features:

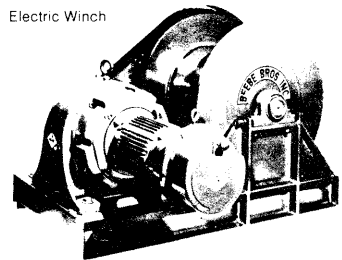
- Automatic Brake — load automatically held when power is off
- Crane and Hoist Duty Motors — Provide full rate capacities. 15 minute duty.
- Reversing Motors — for full remote control

Optional and Custom Features:

- Watertight Electrical Enclosure
- Upper and Lower Geared Limit Switches
- Grooved Drum
- Adjustable Torque Limiters
- Drum Divider Flange and extra Cable Fasteners
- Load Reversing Drums for movement in two directions

K-5020

Electric Winch



Medium Duty Electric Winches

MODEL		CAPACITY ¹ SINGLE LINE	APPROXIMATE LINE SPEED (FPM)	"A" MODEL SINGLE PHASE 60-CYCLE VOLTAGE	"B" MODEL THREE PHASE 60-CYCLE VOLTAGE	HORSE- POWER	DRUM CAPACITY			SHIPPING WEIGHT (LBS)
SINGLE PHASE	THREE PHASE						LINE SIZE (IN)	2ND LAYER (FT)	FULL DRUM (FT)	
200A40	200B40	200	40	115-230	230-460	1/3	1/4	81	288	158
250A20	250B20	250	20	115-230	230-460	1/4	1/4	81	288	158
500A20	500B20	500	20	115-230	230-460	1/2	1/4	81	288	248
700A40	700B40	700	40	115-230	230-460	1	1/4	81	288	248
800A20	800B20	800	20	115-230	230-460	3/4	1/4	81	288	248
*1300A20	*1300B20	1300	20	115-230	230-460	1	5/16	120	605	369
*1400A40	*1400B40	1400	40	115-230	230-460	2	5/16	120	605	369
1600A90	1600B90	1600	90	230	230-460	5	3/8	105	460	540
*2000A20	*2000B20	2000	20	115-230	230-460	1 1/2	3/8	105	460	374
*2000A40	*2000B40	2000	40	230	230-460	3	3/8	105	460	465
2000A60	2000B60	2500	55	230	230-460	5	3/8	105	460	540
*3000A40	*3000B40	3000	40	230	230-460	5	7/16	119	422	539
	3500B80	3500	80		230-460	10	7/16	125	875	825
*4000A20	*4000A20	4000	20	230	230-460	3	1/2	107	309	524
	*4500B50	4500	50		230-460	7 1/2	1/2	107	309	682
*6000A20	*6000B20	6000	20	230	230-460	5	5/8	146	422	1010
	*6000B40	6000	40		230-460	7 1/2**	5/8	146	422	1300
	*10000B20	10000	20		230-460	7 1/2**	3/4	146	440	2032
	*10000B40	10000	40		230-460	12 1/2**	1	230	825	2850
	*15000B20	15000	20		230-460	10**	1	230	825	2850
	*25000B25	25000	25		230-460	20**	1 1/4	240	860	3550

*Chain drive from motor drum. Safety factor 6:1 or more

**Units furnished with parallel shaft gear motors.

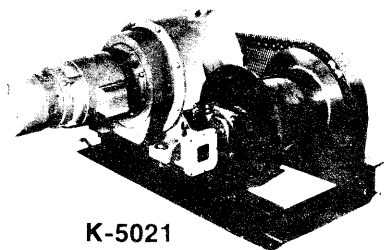
¹Capacities rated at specified voltage with line on second layer on drum

Single Drum Car Pullers Starting Pulls to 62,800 Lbs.

- Lever operating jaw clutch for disengagement of the drum to pull out rope
- Adjustable drag brake to control spinning and overrun when taking off rope
- Motor mounted magnetic brake for holding loads on inclines, etc.
- Crane and hoist duty motors — full rated capacities and starting pulls

Optional Features:

- Watertight Electrical Enclosure
- Load Reversing Drums for short movements in two directions
- Upper and Lower Geared Limit Switches
- Grooved Drum
- Adjustable Torque Limiters
- Drum Divider Flange and extra Cable Fasteners
- Watertight Electrical Enclosure



K-5021

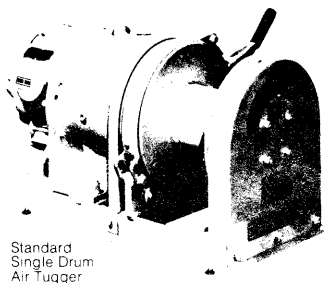
Specifications approx. the same as Electric Winches. Details on request.



AIR WINCHES

Single Drum Air Winches 1000 Lbs. to 20,000 Lbs.

Standard Sizes — Stocked Worldwide



Standard
Single Drum
Air Tugger

Features and Benefits:

- All steel construction (except DT and OEJ) *
- Overload resistant — impact resistance
- Piston type radial air motors — reversible — high torque — high starting power and good load control with throttle
- Heavy duty drum brake — holds and controls rated loads
- Easy to use — raise throttle to lift — depress throttle to lower — use brake and throttle for precise load control
- Logical control position — all on one side of drum — operator does not need to reach across drum
- Overload stalls motor does not damage
- Heavy duty construction — bearings, shafts, gears, etc. for industrial use

*Uses aluminum for lightweight portability

Optional Features:

- Automatic Brake — "winchmatic®" control — "up" for up — "Down" for down-brake sets as throttle spring returns to neutral
- Special drums on request — barrel diameters, drum widths and flange diameters can be customized
- Disengaging clutch for free-spooling drum
- Air strainer and filter — inline lubricators
- Removable drum guards
- Grooved drums
- Many other accessories and options

Specifications:

MODEL	RATED CAPACITY ¹				ANSI RATING ²				PSI	CF PER FOOT OF PULL ⁴	SIZE PIPE TAP INLET		HOSE SIZE		SHIPPING WEIGHT	
	LINE PULL		LINE SPEED		LINE PULL		LINE SPEED				IN	IN	MM	LBS	KG	
	LBS	KG	FPM	MPM	LBS	KG	FPM	MPM								
K-5055	1000	454	60	18	1000	454	60	18	90	2.4	¾	¾	19	76	34	
K-5056	2000	907	35	11	2500	1134	25	8	90	3.2	¾	1	25	280	125	
K-5057	2000	907	95	28	2500	1134	50	15	90	3.4	1	1¼	32	420	190	
K-5058	4000	1814	65	20	5000	2268	50	15	90	3.5	1	1¼	32	650	294	
K-5059	3000	1361	130	39	3500	1588	130	39	90	3.8	1	1¼	32	690	313	
K-5060	4000	1814	120	36	5000	2268	100	30	90	4	1	1¼	32	1230	549	
K-5061	5000	2268	120	36	6000	2722	60	18	90	5	1¼	1½	38	1555	705	
K-5062	7000	3175	80	23	10000	4536	50	15	90	9	1¼	1½	38	2236	1014	
K-5063	10000	4536	60	18	12000	5443	50	15	90	9	1¼	1½	38	2236	1014	
K-5064	20000	9072	50	15	20000	9072	50	15	90	17.5	1½	2	50	5530	2508	

MODEL	ROPE SIZE		MAXIMUM DRUM STORAGE ³															
			3/16	(5 mm)	¼	(6 mm)	5/16	(8 mm)	¾	(10 mm)	½	(13 mm)	9/16	(14 mm)	5/8	(16 mm)	¾	(19 mm)
	IN	MM	FT	M	FT	M	FT	M	FT	M	FT	M	FT	M	FT	M	FT	M
K-5055	¼	6	811	247	480	146	292	89	208	63								
K-5056	5/16	8	950	292	550	168	338	103	219	67								
K-5057	¾	10	5740	1749	3070	936	2060	628	1470	448	785	239						
K-5058	½	13	5740	1749	3070	936	2060	628	1470	448	785	239						
K-5059	½	13	5740	1749	3070	936	2060	628	1470	448	785	239						
K-5060	½	13			4666	1422	3260	994	2240	683	1312	400	1082	330	828	252		
K-5061	¾	16							4828	1471	2457	749	2100	640	1765	538	1213	370
K-5062	¾	19													1500	457	1150	350
K-5063	¾	19													1500	457	1150	350
K-5064	1½	28																

¹Rated capacity based on 5:1 safety factor for hoisting requirements.

Properly adjusted brake will hold this rated capacity. Bearings at K = 65 B10-5000 hours.

NOTE: Automatic brakes, properly adjusted have same ratings as number 1. Use handle extension for additional manual brake holding power.

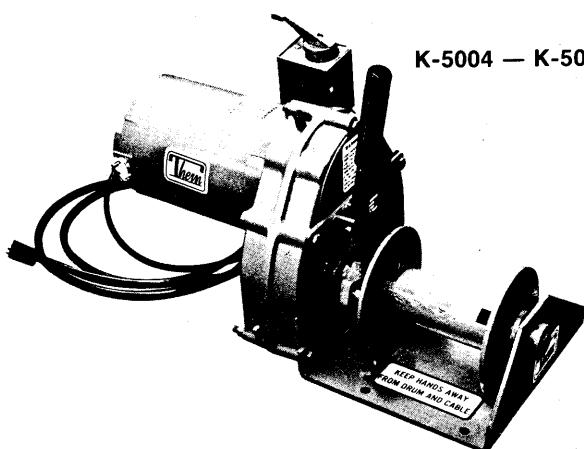


W.J. KEATING LIMITED

ELECTRIC POWER WINCH - Spur Gear Type

**NOT FOR LIFTING PEOPLE.
OR THINGS OVER PEOPLE.**

Spur gearing offers fast, efficient performance and gives faster line speed per horsepower than do worm-gear winches. The spur gear power winch is an excellent choice for level dragging operations. THESE WINCHES ARE NOT SUITABLE FOR LIFTING, LOWERING, OR PULLING-ON-INCLINE APPLICATIONS BECAUSE THEY DO NOT AUTOMATICALLY HOLD THE LOAD IN PLACE WHEN POWER IS OFF. Use extreme caution in all winching operations. Read the Owner's Manual.



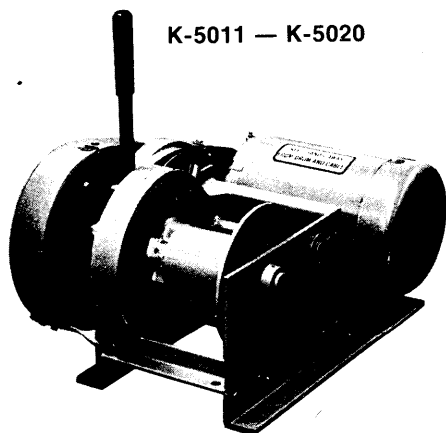
K-5004 — K-5009

STANDARD FEATURES:

The GEARS are machine-cut and totally enclosed for smooth, quiet, clean operation.

The CLUTCH allows for rapid, free pay-out of the cable.

The MOTOR is totally enclosed, fan-cooled (TEFC), single-phase, 115 or 230V, with momentary-contact drum controller. 8 ft. power cord with grounding plug is furnished on 115V single phase through 1 horsepower. THESE WINCHES ARE NOT FOR LIFTING AND LOWERING because they do not automatically hold the load in place when power is off.



K-5011 — K-5020

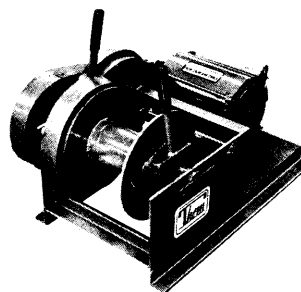
STANDARD FEATURES:

The GEARS are machine-cut steel, guarded for the protection of personnel and equipment. The DRIVE PINION is hardened for extra strength and wear. The DRUM rotates on bronze BEARINGS, the drive shaft is mounted on sealed BALL BEARINGS. The FRAME and DRUM are fabricated of steel. The MOTOR is totally enclosed, fan cooled (TEFC), three-phase, reversible, 230 or 460V. The HAND BRAKE assists in load control but is never to be used to hold loads in suspension. THESE WINCHES ARE NOT FOR LIFTING AND LOWERING because they do not automatically hold the load in place when power is off.

OPTIONS:

- BRAKEMOTOR
- MAGNETIC CONTROL
- CLUTCH: a clutch permits free-wheeling of the drum for long or rapid pay-out of the cable. It is an integral part of the winch and cannot be field-installed. It must be manufactured into the winch, 'C' added to the model number denotes clutch.

K-5011 to K-5020 CAN BE MOUNTED UPSIDE-DOWN.



K-5011
(with clutch as shown)



W.J. KEATING LIMITED

SPECIFICATIONS

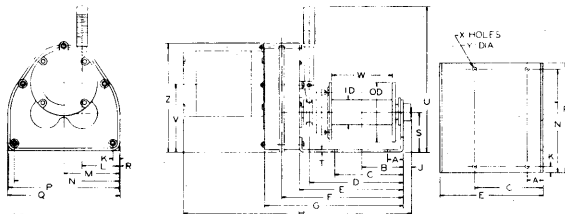
POWER WINCH SERIES

NOT FOR LIFTING PEOPLE
OR THINGS OVER PEOPLE

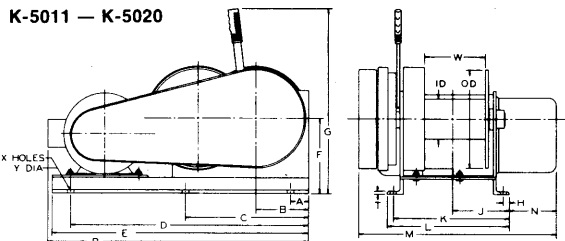
SERIES		K-5004		K-5005		K-5007		K-5009		K-5011		K-5013		K-5014		K-5015		K-5017		K-5018		K-5019		K-5020			
HORSEPOWER		1/2		3/4		1		1-1/2		2		3		5		2		3		5		7-1/2		10			
CABLE SIZE INCHES	LOAD RATING	2ND LAYER		FULL DRUM		2ND LAYER		FULL DRUM		2ND LAYER		FULL DRUM		2ND LAYER		FULL DRUM		2ND LAYER		FULL DRUM		2ND LAYER		FULL DRUM			
		lbs.																									
		kg																									
	DRUM	1/8	65	600	65	600	65	600	65	600	100	1235	100	1235	100	1235	170	3500	170	3500	170	3500	170	3500	170	3500	
	CAPACITY (FEET)	3/16	45	270	45	270	45	270	45	270	70	550	70	550	70	550	110	1580	110	1580	110	1580	110	1580	110	1580	
	SHADED FIGURES	1/4	35	140	35	140	35	140	35	140	55	300	55	300	55	300	90	850	90	850	90	850	90	850	90	850	
	ARE MORE COMMONLY USED	5/16	30	90	30	90	30	90	30	90	45	200	45	200	45	200	70	570	70	570	70	570	70	570	70	570	
		3/8	25	70	25	70	25	70	25	70	35	140	35	140	35	140	60	410	60	410	60	410	60	410	60	410	
		1/2									30	80	30	80	30	80	50	240	50	240	50	240	50	240	50	240	
		5/8															35	150	35	150	35	150	35	150	35	150	
LINE SPEED - FPM		21		40		21		40		21		40		65		40		65		35		75		35		75	
WEIGHT - APPROX. lbs.		60		65		85		95		203		225		240		35		75		35		75		35		75	

K-5004 — K-5009

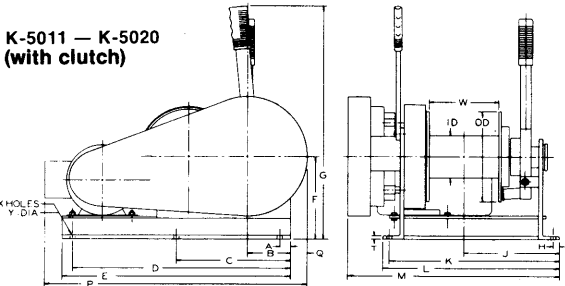
DIMENSIONS



K-5011 — K-5020



K-5011 — K-5020
(with clutch)



DIMENSIONS (Inches)

SERIES	ID	OD	W	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	Z	Y	X
K-5004	2.50	6.00	6.00	1.53	4.06	6.78	9.78	10.28	11.93	13.58	22.88	.80	.62	1.88	5.50	10.38	11.00	11.10	.05	4.00	.25	15.00	6.88	11.00	.42	4 HOLES
K-5011	4.00	8.50	6.50	1.00	4.06	10.69	20.38	21.38	7.81	22.00	.62	5.88	12.88	13.50	16.62		24.38	1.50		.38					.53	6 HOLES
K-5015	4.00	8.50	6.50	1.00	4.06	10.69	20.38	21.38	7.81	22.00	.62	9.00	16.00	16.62	19.75		24.38	1.50		.38					.53	6 HOLES
K-5015	5.00	12.38	7.34	2.25	6.62	16.00	29.75	32.00	9.50	23.12	.75	6.88	14.75	15.50	24.00	5.75	32.38			.38					.78	6 HOLES
K-5015	5.00	12.38	7.34	2.25	6.62	16.00	29.75	32.00	9.50	23.12	.75	10.12	18.00	18.75	27.25	5.75	32.38			.38					.78	6 HOLES

All figures (but "X") designate inches.

ALL DRUM CAPACITIES

shown in the table above are based upon uniform cable winding. Considerable over-lapping often occurs in actual practice, especially with small cables. This will reduce the capacities approximately 25%-30%. The amount of tension applied when spooling the cable will also affect the amount of cable that can be held on the drum.

SAFETY TIP

Depending upon the nature of your work, the load should not exceed 1/3 to 1/5 the breaking strength of new cable. For safety, we recommend the load NEVER exceed 1/3 the breaking strength. Consult a cable supplier for size and type of cable for your application. Cable is not supplied with the winch.

BREAKING STRENGTH OF NEW 7 X 19 GALVANIZED AIRCRAFT CABLE

Steel Cable Diameter	Pounds
3/4"	49,600
5/8"	35,000
1/2"	22,800
3/8"	14,400
5/16"	9,800
1/4"	7,000
3/16"	4,200
1/8"	2,000

Final responsibility for determining suitability of equipment to any particular use is that of the owner and/or user; thus, all applicable codes, regulations, and manuals of material handling should be studied.



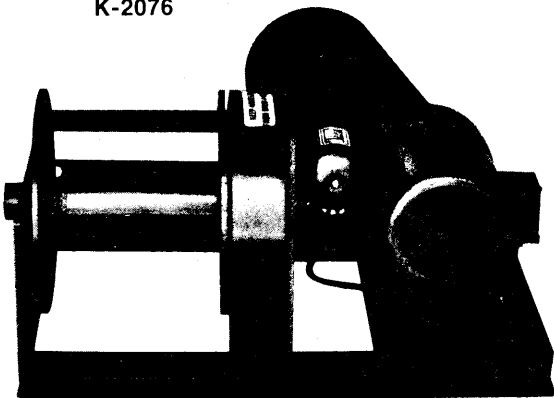
W.J. KEATING LIMITED

ELECTRIC POWER WINCH SPUR/ WORM COMBINATION

**NOT FOR LIFTING PEOPLE
OR THINGS OVER PEOPLE**

**OUR LIGHTWEIGHT ANSWER
TO YOUR HEAVYWEIGHT PROBLEMS**

K-2076



OPTIONS:

SPECIAL DRUMS —

Grooved Drum(s)
Center Flange
Non-standard Drum Sizes

MOTORS - for special (hazardous, special atmosphere, etc.) locations

MAGNETIC CONTROLS — for remote operation at inside/outside/or special locations

WEATHERPROOF BRAKE

LINE SPEED CHANGES

LIMIT SWITCHES — are available for controlling distance of load movement

EMERGENCY HANDLE — for manual operation in power failure

CLUTCH — manually operated, for rapid or long pay-out of cable. (Never use a clutch-equipped winch for vertical or drag-on-incline operations, since accidental release of the clutch could cause the load to drop.)

STANDARD FEATURES:

VERSATILITY — The smooth-running combination (see options) spur/worm gear reduction offers a range of line speeds and load ratings (from 2500 lbs. on the 2 HP model to 6000 lbs. on the 5 HP model), making the 489A a practical choice for a variety of lifting and dragging applications.

CONSTRUCTION — *Frame and Drum* are all-steel weldments. All *bearings* are bronze, with ball thrust bearings on the worm shaft. The *gears* are machine-cut. The spur gears are protected by covers and the worm gears operate in an oil bath, totally enclosed in gear box. All *shafts* are of cold finish steel. The *chain drive* from motor to drive shaft is fully enclosed to protect from dirt and damage.

ELECTRICAL — The standard motor is continuous-duty design B, totally enclosed fan cooled (TEFC), reversible, 230 or 460V three phase. Always specify voltage and phase needed when ordering.

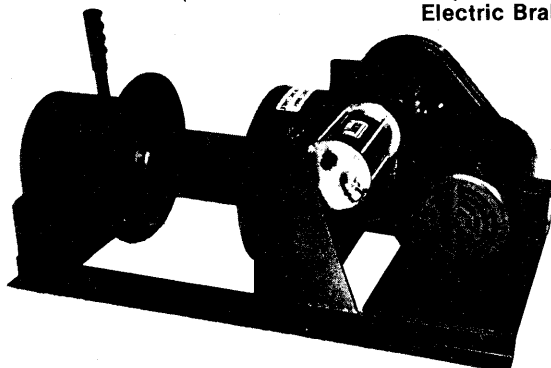
BRAKE — The Electric Brake is standard on all models of the 489A series to augment the varying self-locking tendencies of the worm gearing. A brake is necessary for all applications of lifting, lowering, and pulling on an incline. The option of no brake at a cost savings is available for level dragging operations.

**THESE PRODUCTS ARE NOT FOR LIFTING PEOPLE,
NOR FOR LIFTING THINGS OVER PEOPLE.**

**USE EXTREME CAUTION IN ALL WINCHING
OPERATIONS. READ YOUR OWNER'S MANUAL.**

K-2076 WC

**(with clutch and weatherproof Thern
Electric Brake)**





W.J. KEATING LIMITED

SPECIFICATIONS

ELECTRIC POWER WINCH SPUR/WORM GEAR SERIES

THESE PRODUCTS ARE NOT FOR
LIFTING PEOPLE, NOR FOR LIFTING
THINGS OVER PEOPLE.

WINCH MODEL NUMBER		K-2073		K-2074		K-2075		K-2076	
HORSEPOWER		NO MOTOR		2		3		5	
		2ND LAYER	FULL DRUM	2ND LAYER	FULL DRUM	2ND LAYER	FULL DRUM	2ND LAYER	FULL DRUM
LOAD RATING	lbs. kg			2500 1100	1200 540	3600 1600	1800 800	6000 2700	3000 1350
DRUM CAPACITY (FEET)	CABLE SIZE INCHES	1/8 210	4450	210	4450	210	4450	210	4450
SHADED FIGURES ARE MORE COMMONLY USED		3/16 145	2000	145	2000	145	2000	145	2000
		1/4 110	1050	110	1050	110	1050	110	1050
		5/16 90	720	90	720	90	720	90	720
		3/8 70	510	70	510	70	510	70	510
		1/2 60	300	60	300	60	300	60	300
LINE SPEED - FPM		5/8 50	200	50	200	50	200	50	200
WEIGHT - APPROX. lbs.		258		300		322		328	

Final responsibility for determining suitability of equipment to any particular use is that of the owner and/or user; thus, all applicable codes, regulations, and manuals of material handling should be studied.

BREAKING STRENGTH OF NEW 7 X 19 GALVANIZED AIRCRAFT CABLE

Steel Cable Diameter	Pounds
3/4"	49,600
5/8"	35,000
1/2"	22,800
3/8"	14,400
5/16"	9,800
1/4"	7,000
3/16"	4,200
1/8"	2,000

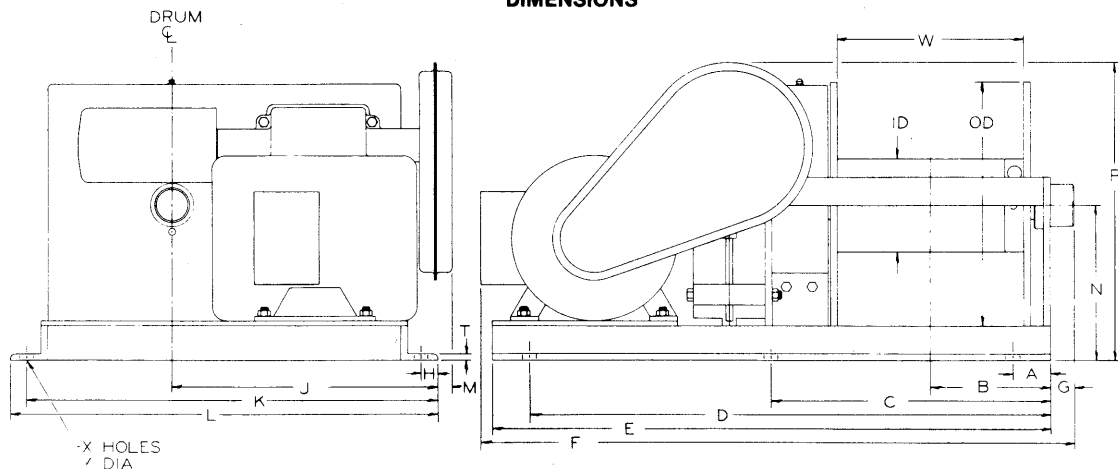
ALL DRUM CAPACITIES

shown in the table above are based upon uniform cable winding. Considerable overlapping often occurs in actual practice, especially with small cables. This will reduce the capacities approximately 25%-30%. The amount of tension applied when spooling the cable will also affect the capacity.

SAFETY TIP

Depending upon the nature of your work, the load should not exceed 1/3 to 1/5 the breaking strength of new cable. For safety, we recommend the load NEVER exceed 1/3 the breaking strength. Consult a cable supplier for size and type of cable for your application. Cable is not supplied with the winch.

DIMENSIONS



DIMENSIONS (Inches)

ID	OD	W	A	B	C	D	E	F*	G	H	J	K	L	M	N	P	T	Y	X
5.00	13.25	10.00	2.00	6.50	15.00	28.00	30.00	31.25	1.25	0.88	14.38	22.12	23.00	0.88	8.50	16.12	0.38	0.81	6 Holes

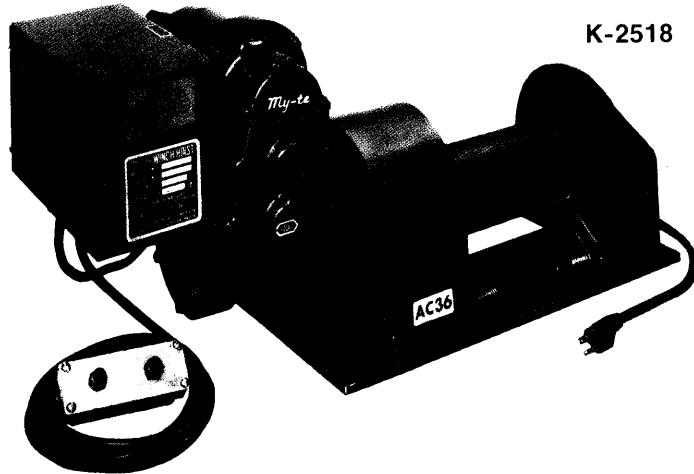
*VARIES WITH MOTOR



The Heavy Duty Electric Winch-Hoist

Big job lifting in the plant and on the job site requires these heavy duty features:

- **Power Source**—115 Volt, AC
- **Worm Gear System**—so the Max AC 36 provides positive load holding and long life
- **Dynamic Breaking**—means instant stopping no matter what size load
- **Single Line Lift**—3000 lbs.
- **Double Line Lift**—6000 lbs.
- **Cable Tensioner**—assures better tracking of cable in both directions
- **Compact Construction**—offers a degree of portability not usually found in big job hoists

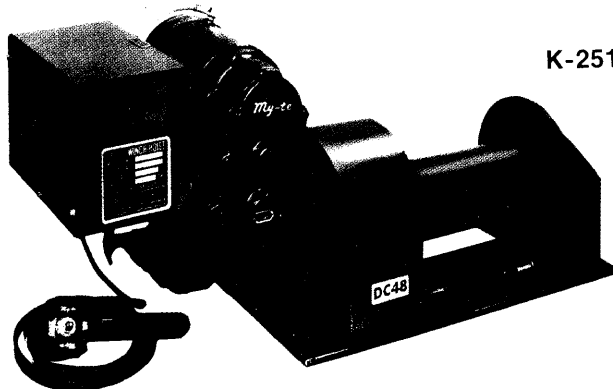


K-2518

The Heavy Duty Battery Winch-Hoist

Big job lifting in the field from the truck requires these heavy duty features:

- **Power Source**—12 Volt, DC
- **Worm Gear System**—so the Max DC 48 provides positive load holding and long life
- **Free Wheeling Clutch**—allows the operator to get cable to the load quickly
- **Single Line Lift**—4000 lbs.
- **Double Line Lift**—8000 lbs.
- **Cable Tensioner**—assures better tracking of cable in both directions
- **Compact Construction**—offers a degree of portability not usually found in big job hoists



K-2519

And There's More

In addition to those important features, the winch-hoists of the Max Series have ample cable capacity, accommodating 250 ft. of $\frac{1}{4}$ " cable, 160 ft. of $\frac{3}{16}$ ", and 110 ft. of $\frac{3}{8}$ ".

The Max Series includes fully sealed gear housings with external gear reduction completely enclosed by a gear guard. Highly reliable hardened steel shaft and gears with supported stress points and frictionless bearings provide safety and long efficient, maintenance free service.

Remote Hand Controls

The My-te Max winch-hoists employ remote hand control switching for safe, convenient load spotting in all lifting applications. With forward and reverse control, the operator can keep the load under complete control in both directions.



BARGE WINCHES

Barge Connector and Make-up Winches 10, 15 and 20 Ton Tightening 25, 50 and 75 Ton Holding

Low Profile Series — hand operated — single speed

- Final tightening by ratchet lever
- Quick Release Dog
- Spinner Knob on handwheel for fast takeup of slack line
- Ratchet Dog disengaged when not in use
- Foot Brake to control and prevent over running and birdnesting cable

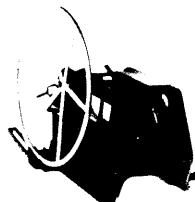
Standard Series — Hand Operated

- Two speed with neutral for free-spooling
- All tightening by handwheel
- Higher gear ratios
- Wedge cable fastening system
- Fully covered gears
- Spinner Knob on handwheel for fast takeup of slack line
- Foot Brake to control and prevent over running and birdnesting cable

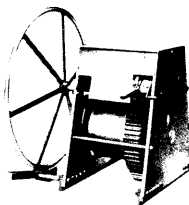
Power Operated Series

- Control from pilot house or deck
- Stall pulls to 40,000 #
- Improved brake, capacity to 35 tons
- Electric, air or hydraulic power
- Crane and hoist duty electric motors
- Drum guard — prevents slack cable from fouling gears

Low Profile Barge Winch



Standard Hand Barge Winch



Electric Barge Winch



HYDRAULIC WINCHES

Heavy Duty Hydraulic Winches 1/2 Ton to 10 Ton

Standard Features:

- Steel Construction
- Automatic Brake
- Winchmatic® control — up for up, down for down/release throttle and brake sets.
- Positive Control

Optional Features:

- Clutch — for free spooling drum
- Foot control valve
- Separate brake valve
- Hydraulic power pack
- Special cable drums & drum guards

Specifications:

MODEL	CAPACITY (LBS)	LINE SPEED FPM 1ST LAYER	PSI AT RATED LOAD		GPM	RELIEF PSI	DRUM STORAGE		DRUM SIZE			APPROX. WEIGHT (LBS)
			PSI	LAYER			LINE SIZE	FT./# LAYERS	BD	FD	W	
K-5050	1000	40	650 1150	1st Layer 80% Full Drum	12.5	1450	1/4	17/first 82/fourth 195/seventh	4	8	5	70
K-5051	2000	60	600 1050	1st Layer 80% Full Drum	16	2000	3/8	66/first 402/fifth 984/tenth	6 5/8	14 1/2	16	550
K-5052	8000	50	1200 1900	1st Layer 80% Full Drum	24	2200	3/4	122/first 770/fifth 1150/eighth	12 3/4	25	24	1700
K-5053	16000	40	1050 1820	1st Layer 80% Full Drum	40	2180	7/8	72/first 876/sixth 1925/eleventh	16	36	25 1/2	3000
K-5054	20000	30	1100 1930	1st Layer 80% Full Drum	39	2320	1	160/first 1000/fifth 2485/tenth	16	36	40	5200



W.J. KEATING LIMITED

HYDRAULIC CABLE WINCHES

BEARINGS Worm and worm gear shaft run on Timken tapered roller bearings in an oil enclosed gear case - outer end housing has sealed ball bearing.

DRUM SHAFT Heat treated alloy steel minimum yield point 150,000 lbs. - splined drive to drum. Available in 1 $\frac{1}{4}$ " & 1 $\frac{1}{2}$ " diameter shaft.

CABLE DRUM Made of high strength cast iron - available in 4 standard sizes.

SLIDING CLUTCH Heat treated steel dog type clutch enclosed in end housing - positive lock in and out - operates on splined shaft.

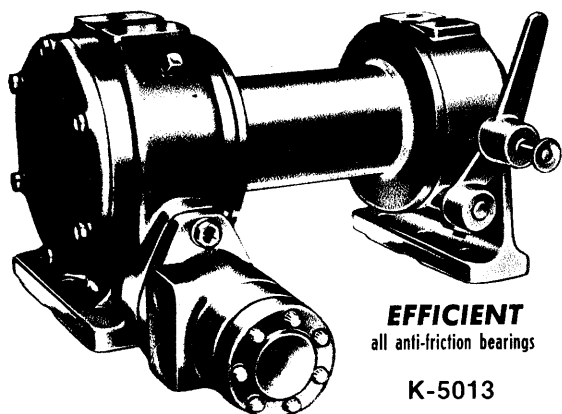
MOTOR MOUNT SAE (A) 2 bolt flange mount - standard.

GEAR CASE Made of high strength cast iron, is completely sealed for oil enclosed operation and to keep out dirt.

WORM SHAFT One piece alloy steel hardened and ground to insure long service - hydraulic motor couples direct to shaft.

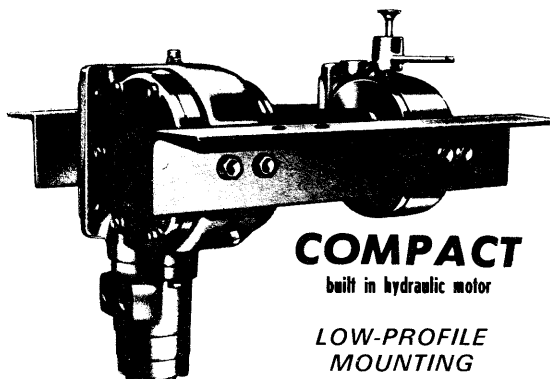
WORM GEAR High tensile aluminum-nickel alloy bronze. Through use of optimum lead and pressure angles maximum power is transmitted to the drum efficiently.

GEAR RATIOS 20-1 is standard providing optimum efficiency in power and speeds being powered by various hydraulic motors. 10-1, 27-1, and 40-1 ratios are available.



EFFICIENT
all anti-friction bearings

K-5013



COMPACT

built in hydraulic motor

**LOW-PROFILE
MOUNTING**

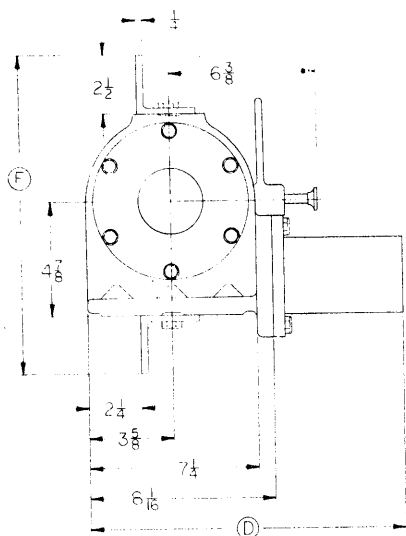
K-5014

**OTHER MODELS ALSO AVAILABLE
WRITE FOR COMPLETE SPECIFICATIONS**

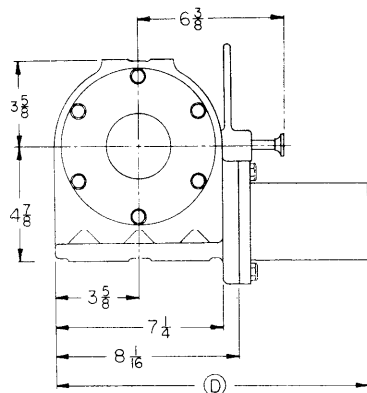
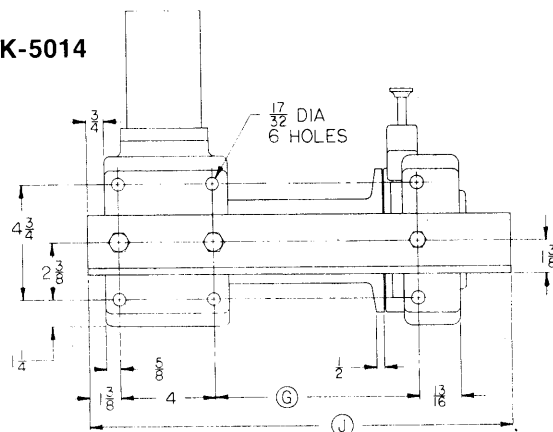


HYDRAULIC CABLE WINCHES

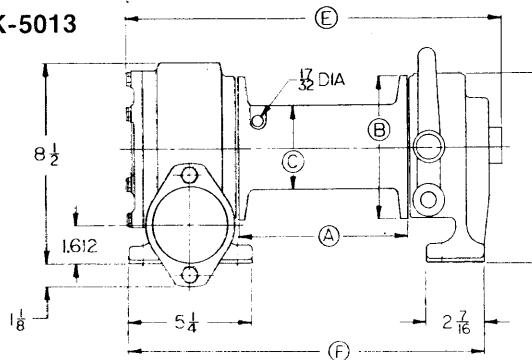
Specifications



K-5014



K-5013

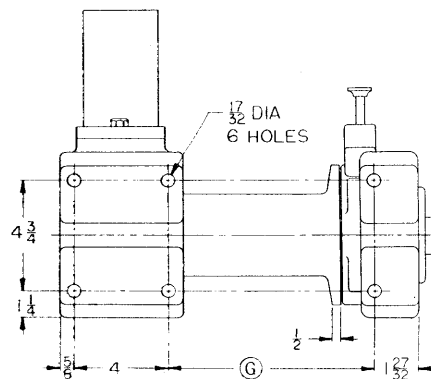


CLUTCH MODEL WINCH

MOTOR SERIES DIMENSION (D)

A	B	C	E	G	M	T8	T16
13 1/4	13 3/8	13 1/2	13 7/8	14	15 9/16	15 1/2	16

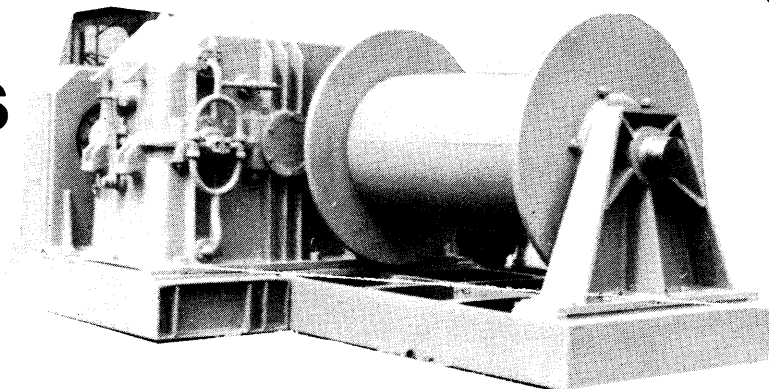
MODEL	DRUM SIZE							CABLE DIAMETERS				
	A	B	C	E	F	G		1/4	5/16	3/8	7/16	1/2
7"	7 3/16	6	3 1/2	16	15 1/8	8 11/16	120	70	45	30	25	
7"	7 3/16	8	4	16	15 1/8	8 11/16	260	160	105	75	55	
8"	10 3/16	6	3 1/2	19	18 1/8	11 11/16	175	105	65	45	30	
8"	10 3/16	8	4	19	18 1/8	11 11/16	390	240	160	110	80	



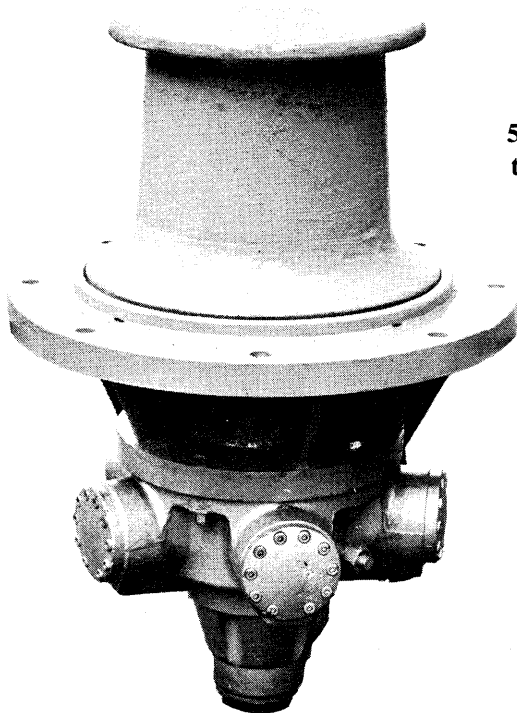


W.J. KEATING LIMITED

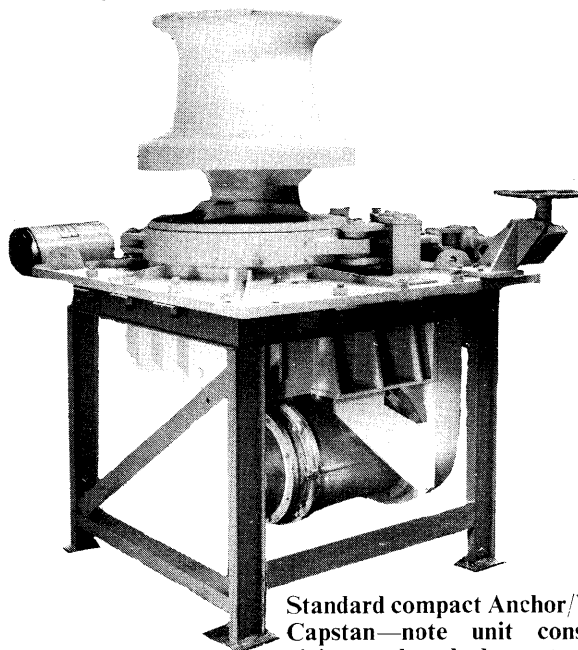
CAPSTANS WINDLASSES WINCHES



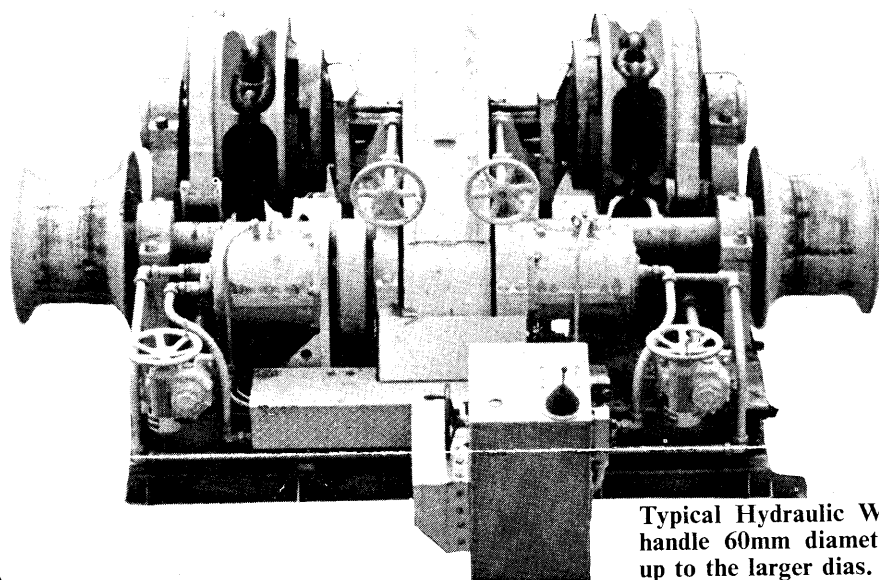
50/70 ton hydraulically driven Heavy-Lift Winch with drum to hold 1700m by 36mm diameter wire.



Standard hydraulic direct drive Warping Capstan. Range 1 ton to 15 tons. 5 ton model shown.



Standard compact Anchor/Warping Capstan—note unit construction giving under deck protection for motor and gearbox with no installation problems. Full range cable sizes available. Shown with temporary frame for shipment protection only.



Typical Hydraulic Windlass. Size shown is designed to handle 60mm diameter cable. Made in sizes to handle up to the larger dias. of steel cables, U2 and U3.



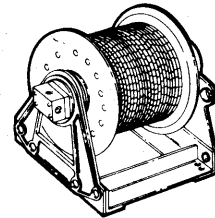
W.J. KEATING LIMITED

TRUCK AND MARINE HYDRAULIC CRANES

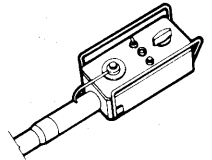
12 SIZES - 2 TO 22 TON



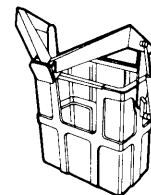
ACCESSORIES



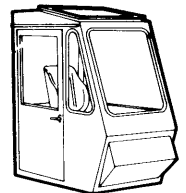
WINCH



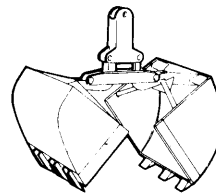
REMOTE CONTROL



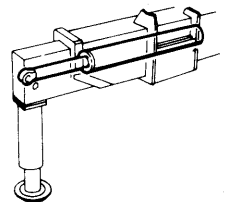
AERIAL BUCKET



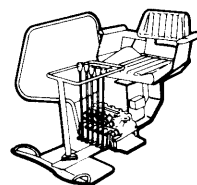
CAB



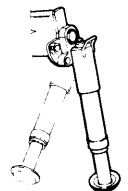
CLAMSHELL BUCKET



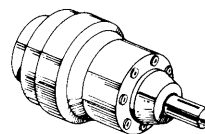
OUTRIGGERS, HYD. EXT.



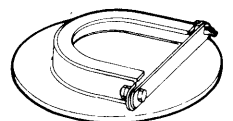
TOP SEAT
WITH CONTROLS



OUTRIGGER
INCLINATION DEVICE



PUMP



OUTRIGGER SHOE

SPECIFICATIONS	2 TON	22TON
Capacity classification	18082 ft.-lbs.	245922 ft.-lbs.
Hydr. reach:		
Horizontal	ft. 16'4"	ft. 27'4"
Vertical	ft. 23'10"	ft. 38'10"
Reach with extensions:		
Horizontal	ft. 25'1"	ft. 38'10"
Vertical	ft. 32'5"	ft. 50'6"
Capacity: Horizontal	lbs. ft.	lbs. ft.
	3197 57"	44100 5'5"
	1896 9'6"	37485 6'5"
	1411 12'8"	29767 8'2"
	1102 16'4"	19514 12'4"
	661 20'10"	13671 17'3"
	400 25'1"	10473 22'4"
		8489 27'3"
		6659 33'5"
		5733 38'10"
		8489 27'3"
Standard Boom length	1102 16'4"	

**8 OTHER MODELS AVAILABLE
WRITE FOR SPECIFICATIONS**



WIRE ROPE HOISTS



- Modular construction allowing 36 types from 4 basic units.
- 13 to 80 fpm lifting speed.
- Anti drop safety device on hook block.
- Low voltage control circuit.
- Manual, electric and low height trolleys.

36 types with capacities up to 16000 kg

Technical features

Modularity: 36 types of hoist with different capacities and speeds derived from 4 basic sizes.

Capacity: from 500 to 16.000 kg/daN.

Electric equipment: the low voltage control equipment, if required, is incorporated in the hoist. Realized with contactors for the motor drive and with line contactors.
The control is effectuated through a pendant push button panel, completely sealed and connected to a rapid switch by connector.

Motor: self-braking, tapered rotor with self-adjusting braking. The axial movement of the tapered rotor guarantees an accurate and stable braking.
The external position allows easy maintenance and a high level of cooling.

Bottom block: extremely compact realization with return pulley in throat profile turned steel mounted on permanently lubricated bearings. The hook in high resistant forged steel, mounted on a transverse, oscillating and turning on thrust bearings, is provided with an anti-drop safety device.

Pressure rope-guide: consisting of a threaded ring of ductile cast iron, self-lubricating, on which the rope-guide sector is fixed, so as to allow a safe winding of the rope itself.

Lifting speed: a vast range is available, from 4 to 24 m/min. All hoists may be fitted, even successively, with creep speeds for micrometric positioning. The realization of the second speed is obtained by application of a supplementary self-braking motor reducer, which commands the shaft of the main motor. The ratio between the two speeds is 1:8 standard. On request, creep speeds with ratios 1:6 - 1:12 - 1:16 - 1:24 can be supplied.



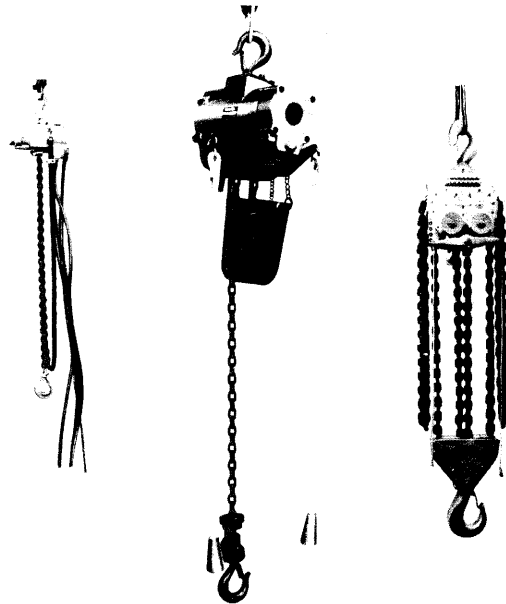
AIR CHAIN HOISTS

Air Chain Hoist 1/4 Ton to 40 Tons

- Heavy Duty Air Motors—Rotary vane type
Positive load spotting—overloading stalls motor without damage to hoist. Motor inherently spark resistant.
- Heavy Duty Brake—Spring set—Air released
- Steel Load Bearing Parts—Shafts, gears, etc.
- Anti-Friction Bearings
- Upper and Lower Limit Stops
- Heat Treated Steel Load Chain
- Oil Reservoir Furnished—In line lubricator suggested
- Exhaust Air Lubricates Chain
- Heat treated, Forged Steel Hooks w/safety latch
- Chain Guide prevents twisting and jamming
- Low Headroom
- Compact and Lightweight

Optional:

- Plain, handgeared or air trolley
- Spark resistant hooks, chain, guides, trolley wheels, etc.
- Pull cord standard—pendant control available
- Chain Bucket



Specifications:

Part No.	Model	U.S. Tons CAP.	LBS. CAP.	Speed FPM	No Load Speed	Ft. Std. Lift	# Parts Chain	Chain Size (ins.)	Type Control	Max Lift (ft)	PSI	CFM.	Size Hose	Head-room (ins)	WT. LBS.
104-1349	BC500B	1/2	1100	11	19.8	10	2	.25	Rope	82	90	42	1/2"	17.5	34.3
104-1367	BC1000B	1	2200	7.5	13.5	10	2	.30	Rope	82	90	49	3/4"	17.7	49.5
104-1385	BCH1000BS	1	2200	23.0	41.4	10	1	.28	Rope	164	90	70	3/4"	14.25	35.2
104-1401	BCH1000BSP	1	2200	23.0	41.0	10	1	.28	Pendant	164	90	70	3/4"	14.25	35.2
104-1429	BC1500BS	1 1/2	3300	9.5	17	20	1	.43	Rope	164	90	80	3/4"	18.25	102.5
104-1447	BCH3000BS	3	6600	11.5	16	10	1	.44	Rope	164	90	140	3/4"	22.8	112.2
104-1483	BCH3000BSP	3	6600	11.5	16	10	1	.44	Pendant	164	90	140	3/4"	22.8	112.2
104-1492	BC 5000B	5	11000	3.25	5.5	10	2	.50	Rope	65	90	77.5	3/4"	27.5	135.7
104-1508	BCH6000B	6	13200	5.5	8.0	10	2	.44	Rope	82	90	140	3/4"	26.75	130.0
104-1526	BCH6000BP	6	13200	5.5	8.0	10	2	.44	Pendant	82	90	140	3/4"	26.75	130.0
104-0171	BC10000B	10	22000	3.10	5.5	10	4	.50	Rope		90	175	3/4"	39	283.0
104-0199	BCH12000B4	12	24000	3.0	3.75	10	4	.50	Rope		90	175	3/4"		407.0
104-0215	BCH20000B6	20	40000	2.0	2.77	10	6	.50	Rope		90	175	3/4"	39	550.0
104-0233	BCH25000B8	25	50000	1.5	2.0	10	8	.44	Rope		90	280	3/4"	—	—
104-0251	BCH25000BSP	25	50000	1.5	2.0	10	8	.44	Pendant		90	280	3/4"	—	—
104-0279	BCH35000B12	35	70000	2.0	2.77	10	12	.44	Rope		90	280	3/4"	80	
104-0297	BCH40000B12	40	80000	2.0	2.00	10	16	.44	Rope		90	280	3/4"	80	
104-0313	BCH50000B16	50	100000	1.5	2.0	10	16	.44	Rope		90	280	3/4"		



ELECTRIC CHAIN HOISTS & END TRUCKS

Electric Chain Hoists 1/4 Ton to 20 Ton

- Crane and hoist duty motors — 30 minute rated
- Special cone brake, spring set, power release. Brake gives extra long service life without trouble and adjustment
- Upper and lower limit switches prevent over-travel
- Special chain guide prevents jamming
- Low voltage push button — buttons mechanically interlocked
- Non-reverse relay circuit — if wired wrong, hoist will not run
- Meets or exceeds ANSI B30.16 Standards

Optional Features:

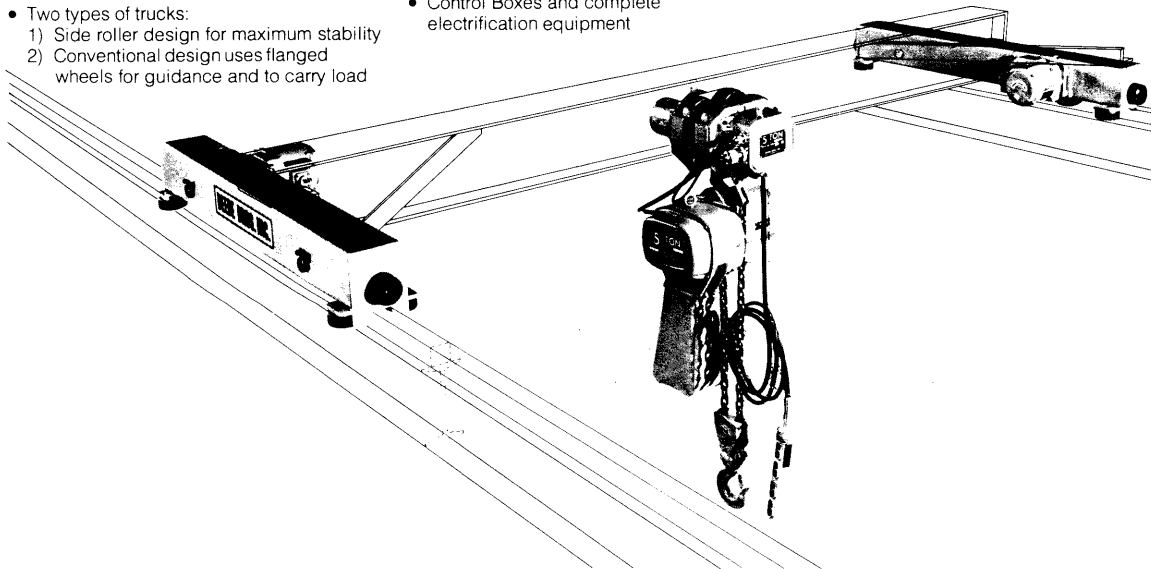
- Two Speed Motors
- Mechanical Load Brake
- Corrosion Proof Chain
- Special Controls
- Trolleys: power —
hand geared — plain
- Chain Buckets
- Low Headroom Configuration
- CSA approved electric controls
- Single Phase: Capacities
1/4-1 Ton

End Trucks For Bridge Cranes 1/2 Tons to 15 Tons

- Spans to 60 feet
- Electric driven — hand geared driven — push-pull
- Underrunning (low headroom) and top running
- Dual motor drive on electric units for optimum traction. Motors furnished with cone brakes
- Two types of trucks:
 - 1) Side roller design for maximum stability
 - 2) Conventional design uses flanged wheels for guidance and to carry load

Optional Features:

- Components may be customized to fit customer need
- Two Speed Motors
- Soft Start: Ballast resistors or powder coupling
- Control Boxes and complete electrification equipment





ELECTRIC CHAIN HOISTS & END TRUCKS

Specifications for Hook Mount Electric Chain Hoist

Part No.	MODEL	CAPACITY (TONS)	STD LIFT (FT)	LIFTING SPEED (FPM)	AMPS @ 230V	MOTOR 3-PHASE HP/KW	NUMBER CHAIN PARTS	SHIPPING WEIGHT (LBS)
104-1063	BBES003	¼	10	32	3.7	.6/.45	1	62
104-1081	BBES005L	½-L	10	16	3.7	.6/.45	2	73
104-1107	BBES005S	½-S	10	27	5.2	1/8	1	90
104-1125	BBES010L	1-L	10	14	5.2	1/8	2	103
104-1143	BBES010S	1-S	10	27	8.2	2/1.5	1	125
104-1161	BBES015	1½	10	34	15.8	4/3	1	220
104-1189	BBES020L	2-L	10	14	8.2	2/1.5	2	145
104-1205	BBES020S	2-S	10	26	15.8	4/3	1	220
104-1223	BBES025	2½	10	21	15.8	4/3	1	229
104-1269	BBES030	3	10	17	15.8	4/3	2	288
104-1303	BBES050	5	10	11	15.8	4/3	2	306
104-1321	BBES100	10	10	11	31.6	4/3X2	4	682

Capacities Available to 20 Tons

Also Available With Plain, Geared or Motorized Trolley

L = Low Speed, S = Standard Speed

Specifications: Electric powered end trucks — contact factory for push-pull and hand geared specifications

MODEL ¹	CAPACITY (tons)	MAX. SPAN (ft.)	TRAVEL ² SPEED (fpm)	GUIDE WHEEL BASE (ins.)	I-BEAM FLANGE WIDTH (ins.)	ASCE RUNWAY RAIL SIZE (lbs. per ft.)	SHIPPING WEIGHT (lbs.)
UNDER RUNNING — SIDE ROLLER							
BB (R, Q or T) L330	3	40	40, 80, 110	47¼	3-6	—	380
BB (R, Q or T) L350	3-5	40-32	40, 80, 110	47¼	4-5	—	580
BB (R, Q or T) L350-1	5	40	40, 80, 110	74	5-7.5	—	830
BB (R, Q or T) L350-2	5	48	40, 80, 110	86	5-7.5	—	890
UNDER RUNNING — CONVENTIONAL							
BBC (P, Q, T or V) L750-1*	7½	40	60, 80, 115, 140	60	5-7.5	—	1000
BBC (P, Q, T or V) L750-2*	7½	48	60, 80, 115, 140	72	5-7.5	—	1060
TOP RUNNING — SIDE ROLLER							
BB (R, Q or T) 0330	3	40	40, 80, 110	47¼	—	20, 25, 30	295
BB (R, Q or T) 0630*	3-5	60-40	40, 80, 115	70⅞	—	35, 45	433
BB (R, Q or T) 0350	3-5	40-32	40, 80, 115	47¼	—	35, 45	356
BB (Q, T or V) 0550*	5	60	80, 115, 145	70⅞	—	40, 45	730
BBQ0411*	10	40	80	59	—	40, 60	1166
BBQ0811*	10	65	80	90 ^{7/16}	—	40, 60	1672
BBQ0615*	15	60	80	98 ^{7/16}	—	60, 80	3124
TOP RUNNING — CONVENTIONAL							
BBC (R, Q or T) 0350-1	5	40	45, 95, 130	60	—	40	850
BBC (R, Q or T) 0350-2	5	48	45, 95, 130	72	—	40	890
BBC (P, Q, T or V) 0750-1*	7½	40	70, 85, 120, 150	60	—	40	1000
BBC (P, Q, T or V) 0750-2*	7½	48	70, 85, 120, 150	72	—	40	1110
BBC (P, Q, T or V) 0411-1*	10	40	70, 80, 120, 150	60	—	40, 60	1025
BBC (P, Q, T or V) 0411-2*	10	48	70, 80, 120, 150	72	—	40, 60	1110

¹Refers to pair of end trucks.

²FPM Travel speed indicated as follows: R=40-45, P=60-70, Q=80-95, T=110-130, V=140-150

*These models plus all side roller models with 120 fpm travel speed include power couplings as standard.



CHAIN HOISTS & TROLLEYS

Roughneck Lever Hoists 3/4 Ton & 1 1/2 Ton

- Safety latches available for all hooks
- Mainly for pulling, may be used for lifting or lowering.
- Compact portable power.
- Ratchet and pawl system provides one notch at a time lowering.

Specifications:

Part No.	MODEL	CAPACITY (LBS)	STD LIFT (FT.)	MINIMUM DISTANCE BETWEEN HOOKS (IN)	HANDLE LENGTH (IN)	HANDLE PULL AT CAPACITY LOAD (LBS)	SHIPPING WEIGHT (LBS)
103-9478	RN150	1500	5	10 1/4	15 1/2	85	9
103-9496	RN300	3000	5	11 1/4	15 1/2	100	13

Aluminum Manual Chain Hoists 1/2 Ton to 5 Ton Capacity

- For light to intermediate duty
- Mechanical load brake for precise load spotting
- Lightweight die-cast aluminum body
- Low maintenance
- Manufactured to meet or exceed ANSI B30.16 Standards
- Safety latch hooks standard

Specifications:

Part No.	MODEL	CAPACITY (TONS)	STD. LIFT (FT)	HAND PULL (LBS)	CHAIN O'HAULED TO LIFT LOAD 1 FT (FT)	MIN. DIST. BETWEEN HOOKS (IN)	TEST HOOKS (T)	NUMBER CHAIN PARTS	SHIPPING WEIGHT (LBS)
103-9030	ME005	1/2	8'	59	19	13 3/4	.83	1	24
103-9058	ME010	1	8'	71	31	16 1/2	1.65	1	31
103-9076	ME015	1 1/2	8'	83	41	18 5/32	2.60	1	42
103-9094	ME020	2	10'	79	63	20 1/2	3.3	2	50
103-9110	ME030	3	10'	91	81	24	5.23	2	69
103-9138	ME050	5	10'	79	134	25 1/2	7	3	88

Plain & Geared Trolleys 1/2 Ton to 50 Tons

Features

Special Contour Wheels

Allows use on standard taper surface rolled I-Beams or flat surface welded ones. The contour of the wheels makes perfect contact with the beam.

Fully Adjustable

Trolley can easily be suspended from most I-Beams varying in width. This means

trolleys do not have to be custom built, allowing lower trolley cost and immediate availability. Also insures ease of relocation.

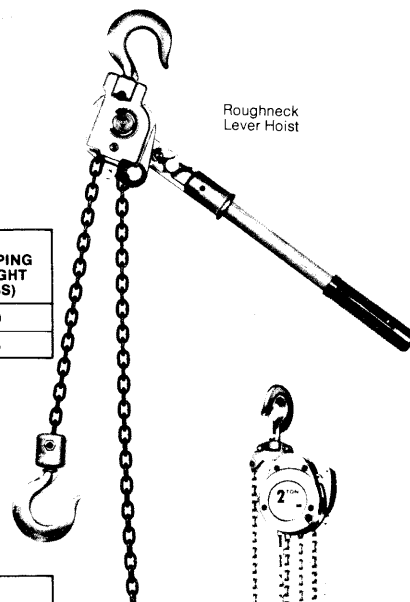
Pivot Mounted

Assures smooth transport of load. As trolley travels along I-Beam, the trolley wheels and truck are free to rotate on the central shaft smoothing out irregularities such as welded joints.

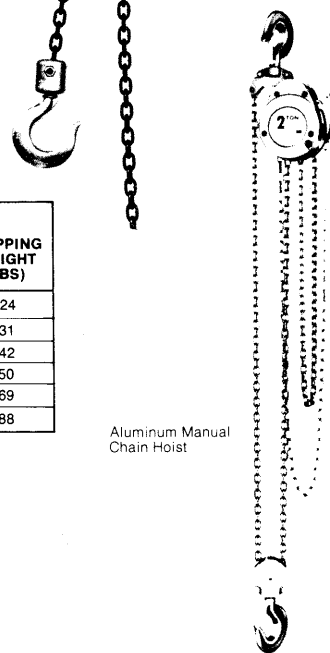
Specifications:

Part No.	MODEL	CAPACITY (TONS)	STANDARD HAND CHAIN REACH (FT)	MINIMUM HEADROOM (IN)	ADJUSTABLE TO ACTUAL FLANGE WIDTH (IN)	AT MAXIMUM I-BEAM WIDTH (IN)	SHIPPING WEIGHT (LBS)
104-2277	Universal Plain Trolley UPTA005	1/2T	—	13 1/2	3-5	9 7/32	15
104-2295	UPTA010	1T	—	15 1/2	3-5	9 11/16	28
104-2311	UPTA020	2T	—	20 1/8	4-6	11 7/32	43
104-2339	UPTA030	3T	—	22 1/2	4-6	11 1/8	61
103-9012	UPTA050	5T	—	29 3/4	5-7	13 15/16	100

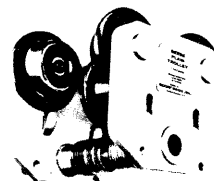
Capacities available To 50 TONS



Roughneck Lever Hoist



Aluminum Manual Chain Hoist



Universal Plain Trolley

Geared and Motorized trolleys also available.



W.J. KEATING LIMITED

RATCHET HOISTS

Roughneck

Roughneck is easy to operate and use and is furnished with flexible heat treated steel load chain.

Short handle and compactness make the Roughneck easy to use in tight areas. Roughneck has no brakes to slip, load is always in positive control.

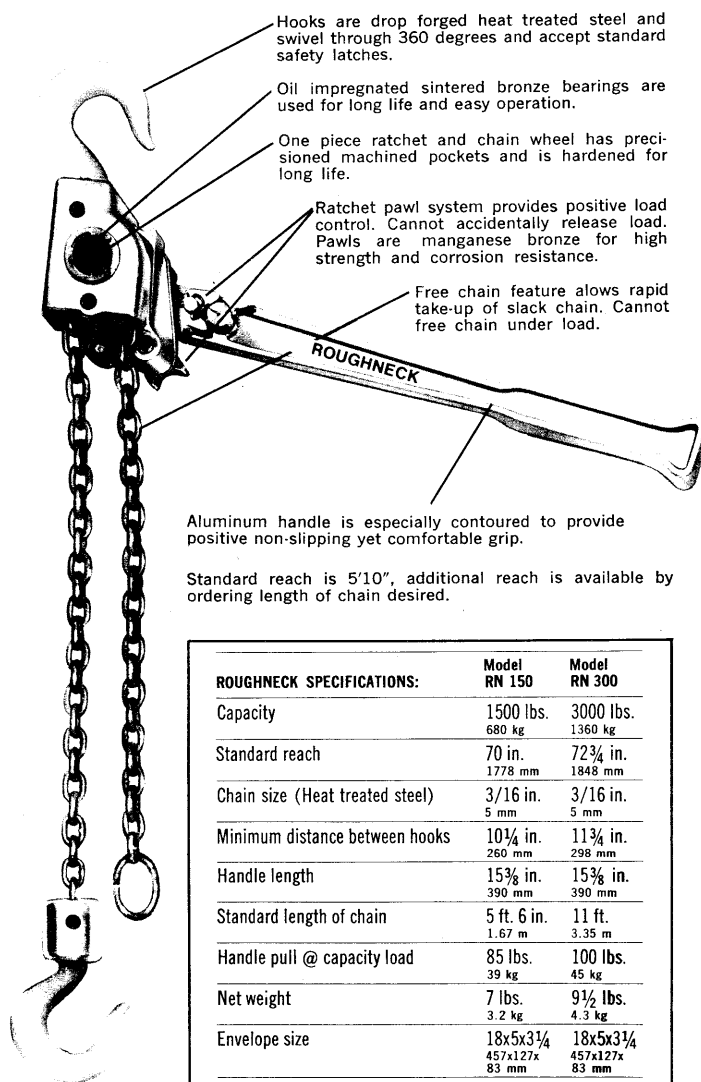
Critical parts are weather protected for outdoor use.

Roughneck is practically maintenance free, requiring only occasional oiling of the chain, hook necks and dogs.

Roughneck is a very handy tool. It can be used as a hoist and puller and will operate in any position. It can be stored in most standard tool boxes.



FULL ONE YEAR WARRANTY



Aluminum handle is especially contoured to provide positive non-slipping yet comfortable grip.

Standard reach is 5'10", additional reach is available by ordering length of chain desired.

ROUGHNECK SPECIFICATIONS:	Model RN 150	Model RN 300
Capacity	1500 lbs. 680 kg	3000 lbs. 1360 kg
Standard reach	70 in. 1778 mm	72¾ in. 1848 mm
Chain size (Heat treated steel)	3/16 in. 5 mm	3/16 in. 5 mm
Minimum distance between hooks	10¼ in. 260 mm	11¾ in. 298 mm
Handle length	15¾ in. 390 mm	15¾ in. 390 mm
Standard length of chain	5 ft. 6 in. 1.67 m	11 ft. 3.35 m
Handle pull @ capacity load	85 lbs. 39 kg	100 lbs. 45 kg
Net weight	7 lbs. 3.2 kg	9½ lbs. 4.3 kg
Envelope size	18x5x3¼ 457x127x 83 mm	18x5x3¼ 457x127x 83 mm



W.J. KEATING LIMITED

HOISTS

Ratchet and Pawl Type — 32 models: 3/4-ton thru 6-ton

Fast and Easy Lift Designs

K-3008

◀ N SERIES FAST LIFT

"Fast Lift" Hoists give you a faster take-up! Model NDC-1, shown left, takes up 15/16" per lever stroke—making it the fastest hoist of its type. All N Series models are designed with a direct drive for speed.

K-3009

E SERIES EASY LIFT ▶

"Easy Lift" Hoists give you easier lift operation because of an internal mechanical advantage of 2% to 1. (For fast take-up use a standard 1/2" ratchet wrench in chain sheave as a direct drive.)

BOTH GIVE YOU!

UNIQUE HEAVY-DUTY CAST ALLOY STEEL HOUSING...

a special feature of all Hoists makes them stronger, yet most are lighter than comparable designs in aluminum alloy and malleable iron. This ALLOY STEEL STRONG quality with higher shock and fatigue resistance makes them unique among hand hoists and far less costly to maintain and repair.

LOWER USE COST

Superior quality and design of alloy steel head gives a more durable hoist for years of service.

LIGHT WEIGHT

Our 1 1/2, 3, 4 1/2 and 6-Ton sizes are the lightest and most compact hand hoists available.

COMPACT

1 1/2-Ton models have minimal head room—11 1/4"(N)/11"(E); minimal face room—7/8".

VERSATILE

Controls are simple and easy to operate. Steel handle (designed to begin to bend at approximately twice the hoist's rated load) works in any of 12 positions.

MORE RELIABLE

Positive ratchet and pawl mechanism. No friction brake to slip or freeze. No lower shock resistant aluminum head or aluminum lever to break.

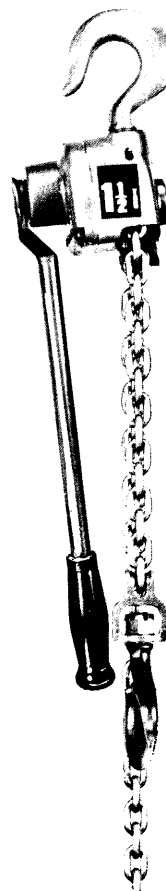
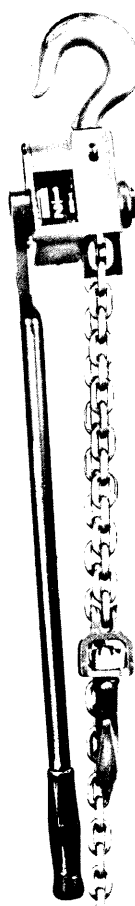
EFFICIENT

Side draft minimized by lever design. There's greater direct lifting or pulling power.

CONDENSED SPECIFICATIONS COIL CHAIN MODELS ONLY

POPULAR FAST-LIFT N SERIES MODELS			POPULAR EASY-LIFT E SERIES MODELS		
Model No.	Rated Capacity	Net Weight	Model No.	Rated Capacity	Net Weight
NBC-1	3/4 Ton	12 5/8 lbs.	EC-1	1 1/2 Ton	15 lbs.
NDC-1	1 1/2 Ton	15 1/2 lbs.	EC-2	3 Ton	22 1/2 lbs.
NDC-2	3 Ton	23 lbs.	EC-3	4 1/2 Ton	36 1/2 lbs.
NDC-3	4 1/2 Ton	37 lbs.	EC-4	6 Ton	46 lbs.
NDC-4	6 Ton	46 1/2 lbs.			

LATCHES: Optional hook latches available at slight additional charge.





N SERIES "FAST LIFT" HOISTS

Part No.	Model No.	Rated Capacity, Tons	Chain Description	Chain Length Lineal Feet	Net Weight Pounds	Lever Length Inches	1. Approximate Av. Pull w/ Full Load, Pounds	Min. Increment Lift/Lower, Inches	Max. Lift, Inches	Min. Head Room, Inches	Face Room, Inches	Standard Lift, Inches
075-2956	NBC-1	¾	C-1	5	12¾	18	67	.281	.843	10½	7½	55½
075-2965	NBR-1	¾	R-1	5	13¾	18	67	.281	.843	10½	7½	55½
075-2974	NCC-1	1	C-1	5	12¾	20	80	.281	.843	10½	7½	55½
075-2983	NCR-1	1	R-1	5	14	20	80	.281	.843	10½	7½	55½
075-2992	NBC-2	1½	C-2	10	18¾	18	71	.141	.423	15¼	7½	54
075-3009	NBR-2	1½	R-2	10	20¾	18	71	.141	.423	15¼	7½	54
075-2947	NDC-1	1½	C-1	5	15½	24	100	.312	.936	11¼	7½	55½
075-5021	NDR-1	1½	R-1	5	15½	24	100	.281	.843	11¼	7½	55½
075-5227	NCC-2	2	C-2	10	19¾	20	85	.141	.423	15¼	7½	54
075-5423	NCR-2	2	R-2	10	21	20	85	.141	.423	15¼	7½	54
075-5628	NDC-2	3	C-2	10	23	24	105	.156	.468	15¾	7½	54
075-5824	NDR-2	3	R-2	10	23	24	105	.141	.423	15¾	7½	54
075-6020	NDC-3	4½	C-3	15	37	24	108	.104	.312	19	2¾	53½
075-2938	NDR-3	4½	R-3	15	37	24	108	.094	.282	19	2¾	53½
075-2910	NDC-4	6	C-4	20	46½	24	120	.078	.234	19½	2¾	53½
075-2894	NDR-4	6	R-4	20	46½	24	120	.070	.210	19½	2¾	53½

C-1 = Coil, 1 chain; R-1 = Rollerless, 1 chain; 1. Lift can be twice or three times minimum lift by increased movement of lever.

Positive ratchet and pawl mechanism. Loads are carried and held by alloy steel pawls against alloy steel gears. No friction brake to slip or freeze.

The "FAST LIFT" design feature of the "N Series" is its one, two or three notch take-up capability per lever stroke. Each notch requires a 22½° power stroke of the handle so the operator can lift at 22½°, 45° or 67½° intervals. On Model NBC-1, rated at ¾-ton, the total take-up per complete lever stroke is 27-32". This makes it the fastest ¾-ton ratchet and pawl chain hoist of its type produced. Load lowering differs from load lifting. This is controlled to the standard one notch at a time to give precision lowering.

Practically no maintenance is required of this design because the housing is of cast alloy steel and all bushings are lifetime lubricated. Because of its unique, compact steel construction it is actually lighter in weight than most comparable models. Compare the weights, as shown in the accompanying charts, with any other similar product. You will be amazed to find them so much more advantageous—25 and 35% in large sizes.

E & A SERIES "EASY LIFT" HOISTS

How E SERIES and A SERIES Hoist designs differ.

Both have the same overall mechanical and heavy-duty construction features. They differ in that lever lengths of A designs are inches shorter and hooks 1 size smaller.

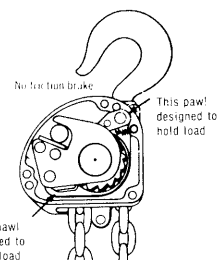
AC-1: 14" HANDLE, HH-4 HOOK
EC-1: 17" HANDLE, HH-5 HOOK

For working in confined quarters the Series A hoist is the most compact of all designs; in fact leads the industry for usage in applications of this type.

Part No.	Model No.	Rated Capacity, Tons	Chain Description	Chain Length Lineal Feet	Net Weight, Lbs.	Lever Length, Inches	Av. Pull w/ Full Load, Lbs.	Min. Increment Lift/Lower, Inches	Min. Head Room, Inches	Face Room, Inches	Hook Throat Clearance	Standard Lift, Inches
075-0814	EC-1	1½	C-1	5	15	17	72	.312	11	7½	1¼	55½
075-0832	ER-1	1½	R-1	5	15	17	66	.281	11	7½	1¼	55½
075-0850	EC-2	3	C-2	10	22½	17	75	.156	15¾	7½	1¾	54
075-0878	ER-2	3	R-2	10	22½	17	69	.141	15¾	7½	1¾	54
075-0896	EC-3	4½	C-3	15	36½	17	78	.104	19	2¾	1¾	53½
075-0912	ER-3	4½	R-3	15	36½	17	72	.094	19	2¾	1¾	53½
075-0930	EC-4	6	C-4	20	46	17	81	.078	19½	2¾	1¾	53½
075-3811	ER-4	6	R-4	20	46	17	75	.070	19½	2¾	1¾	53½
075-3839	AC-1	1¼	C-1	5	14	14	73	.312	10¾	7½	1¾	55½
075-3857	AR-1	1¼	R-1	5	14	14	67	.281	10¾	7½	1¾	55½
075-3875	AC-2	2½	C-2	10	21	14	76	.156	15¼	7½	1¼	54
075-3893	AR-2	2½	R-2	10	21	14	70	.141	15¼	7½	1¼	54
075-1010	AC-3	3¾	C-3	15	34	14	79	.104	18	2¾	1½	53½
075-1038	AR-3	3¾	R-3	15	34	14	73	.094	18	2¾	1½	53½
075-1056	AC-4	5	C-4	20	42½	14	82	.078	18½	2¾	1¾	53½
075-1074	AR-4	5	R-4	20	42½	14	76	.070	18½	2¾	1¾	53½

* C-1 = Coil, 1 chain; R-1 = Rollerless, 1 chain.

1. Approximate



This pawl designed to carry load

E and A Series Hoists enables operator to lift full load with a minimum pull. Single lever controls up, down, or free-chaining—an exclusive Ratchlift feature. You can actuate control with gloves on, and free-chain without holding handle. Lifts and lowers one notch per 60° power stroke.

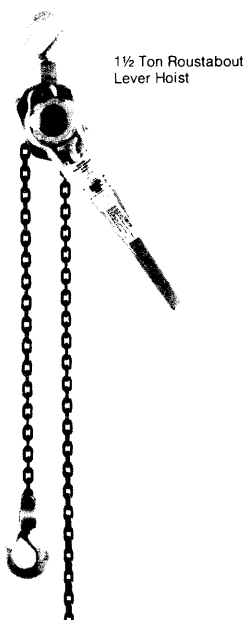
SPECIAL SPEED LIFT FOR E & A SERIES

Another exclusive: You can use any standard ½" drive ratchet wrench in the square hole in end of chain sheave as a direct drive for speed lifting. This greatly increases the lift speed for lighter loads.



HEAVY DUTY CHAIN HOISTS

Roustabout Lever Chain Hoists $\frac{3}{4}$ Ton to 9 Tons



1 1/2 Ton Roustabout
Lever Hoist

- Steel construction — impact and overload resistant
- Faster and easier to use — easy free chain — low handle force
- Fewer chain parts — easier to carry — lowers cost of extra chain
- Lightweight — stronger and lighter than aluminum
- Super Compact — Use in tight places
- 360 handle rotation — use in any position
- Special design Load Brake — resists jamming — positive control and load spotting
- Safety latches standard

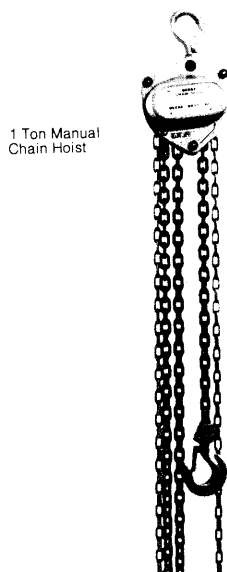
Optional Features:

- Overload Signal Handle
- Corrosion Resistant Chain

Specifications:

Part. No.	MODEL	CAPACITY (TONS)	STANDARD LIFT (FT)	HANDLE FORCE (LBS)	HANDLE LENGTH (INCHES)	MIN. DIST. BETWEEN HOOKS (IN)	NO. CHAIN PARTS	SHIPPING WEIGHT (LBS)
103-9334	LH150	$\frac{3}{4}$	5	36	10 $\frac{1}{4}$	11 $\frac{1}{2}$	1	17
103-9352	LH150A	1	5	48	10 $\frac{1}{4}$	11 $\frac{1}{2}$	1	17
103-9370	LH300	1 $\frac{1}{2}$	5	40	16 $\frac{1}{2}$	14 $\frac{9}{16}$	1	28
103-9398	LH300A	2	5	53	16 $\frac{1}{2}$	14 $\frac{9}{16}$	1	28
103-9414	LH600	3	5	65	16 $\frac{1}{2}$	18 $\frac{1}{2}$	1	44
103-9432	LH1200	6	5	71	16 $\frac{1}{2}$	23	2	70
103-9450	LH1800	9	5	98	16 $\frac{1}{2}$	28 $\frac{1}{2}$	3	98

All Steel Manual Chain Hoists $\frac{1}{2}$ Ton to 100 Ton



1 Ton Manual
Chain Hoist

- All steel construction — impact and overload resistant — heavy duty
- Lightweight — lighter and stronger than aluminum, easy to carry
- Manufactured to meet or exceed ANSI B30.16 Standards
- Mechanical Load Brake — positive control and precise load spotting
- Fewer chain parts — easier to use — lowers cost of extra chain
- Safety latches standard

Optional Features:

- Spark Resistant Models — special hooks, chain guards, trolley wheel, etc. for use in Division II areas
- Overload Slip Clutch — prevents severe overloading
- Corrosion Resistant Chain

Specifications:

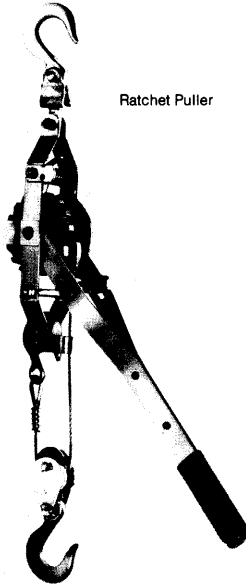
Part No.	MODEL	CAPACITY (TONS)	STD LIFT (FT)	MINIMUM HEADROOM (IN)	CHAIN PULL TO LIFT FULL LOAD (LBS)	CHAIN O'HAULED TO LIFT LOAD 1 FT	TEST LOAD (TONS)	# PARTS CHAIN	SHIPPING WEIGHT (LBS)
084-1600	CH005	$\frac{1}{2}$	8	12	59	23'	.84	1	33
084-1628	CH010	1	8	13 $\frac{1}{2}$	69	38'	1.65	1	38
084-1646	CH015	1 $\frac{1}{2}$	8	15 $\frac{1}{2}$	75	51'	2.64	1	51
084-1664	CH020	2	9	17 $\frac{1}{2}$	77	66'	3.36	1	70
084-1682	CH030	3	10	19 $\frac{3}{4}$	88	82'	5.32	1	93
084-1708	CH040	4	10	19 $\frac{3}{4}$	117	82'	5.32	1	93
084-1806	CH050	5	10	26 $\frac{1}{2}$	67	199'	8.40	3	139
084-1824	CH060	6	10	26 $\frac{1}{2}$	80	199'	8.40	3	139
084-1842	CH100	10	12	30 $\frac{3}{4}$	105	248'	15.12	3	264
084-1860	CH120	12	12	30 $\frac{3}{4}$	126	248'	15.12	3	264
084-1888	CH150	15	12	44 $\frac{1}{2}$	102	414'	21.00	5	495
084-1904	CH160	16	12	44 $\frac{1}{2}$	109	414'	21.00	5	495
084-2002	CH200	20	12	50 $\frac{1}{2}$	106x2	248x2'	28.00	6	858
084-2020	CH300	30	12	53 $\frac{1}{4}$	102x2	414x2'	42.00	10	1155

CAPACITIES AVAILABLE TO 100 TONS



RATCHET PULLERS

Steel Ratchet Pullers 1/2 Ton & 1 Ton



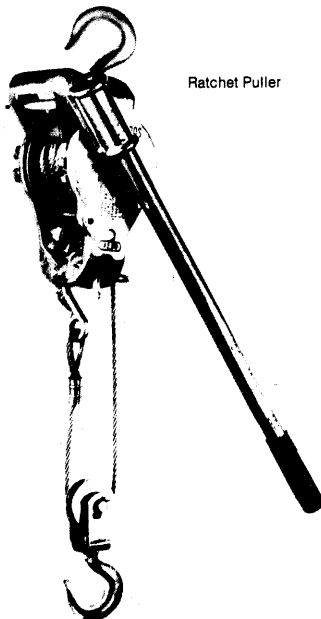
Ratchet Puller

- Mainly for pulling. May be used for lifting or lowering.
- Designed for industrial use, this is the best puller on the market.
- Tested to 50% overload — One year warranty.
- Safety latches available for all hooks.
- Ratchet and pawl system provides one notch at a time lowering.

Specifications:

Part No.	MODEL	CAPACITY 4:1 FACTOR	# LINES	NUMBER HOOKS	MIN. DIST. BETWEEN HOOKS (IN)	LIFTING DISTANCE (FT)	CABLE DIAMETER (IN)	SHIPPING WEIGHT (LBS)
075-1092								
075-1118	P6H	1/2 TON	Single Line	2	18	6	3/16	8
075-1136	P12H	1/2 TON	Single Line	2	18	12	3/16	8
075-1216	P12D-2H	1/2 TON 1 TON	Single Line Double Line	2	18 24	12 6	3/16	10
075-1234	P12D-3H	1/2 TON 1 TON	Single Line Double Line	3	18 24	12 6	3/16	10
075-1252	P15H	1/2 TON	Single Line	2	18	15	3/16	8
075-1270	P15D-2H	1/2 TON 1 TON	Single Line Double Line	2	22 24	15 7 1/2	3/16	10
075-1298	P15D-3H	1/2 TON 1 TON	Single Line Double Line	3	24 24	15 7 1/2	3/16	10

Aluminum Ratchet Puller 1000 Lbs. to 3400 Lbs.



Ratchet Puller

- Mainly for pulling. May be used for lifting or lowering.
- Ratchet Pullers can be operated in any position. Handles are reversible so pull is always possible in the right direction against the load.
- Cable guide helps wrap the cable on the drum evenly.
- Ratchet and pawl system provides one notch at a time lowering.
- Safety latches available for all hooks.

Specifications:

Part No.	MODEL	CAPACITY (LBS) 4:1 FACTOR	# LINES	MIN DIST BETWEEN HOOKS (IN)	LIFTING DISTANCE (FT)	CABLE DIAMETER (IN)	SHIPPING WEIGHT (LBS)
075-1314							
075-1332	C225H	2000 1000	Double Line Single Line	22 17	19 38	3/16	16
075-1412	C300H	2800 1400	Double Line Single Line	22 17	15 30	7/32	16
075-1430	C400H	3400 1700	Double Line Single Line	22 17	10 20	1/4	17