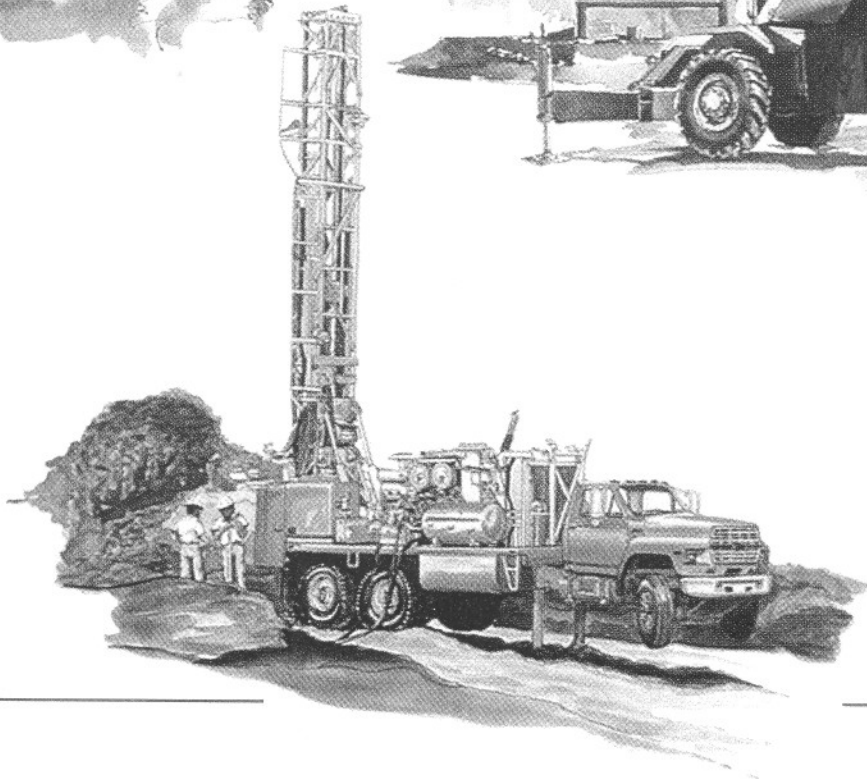
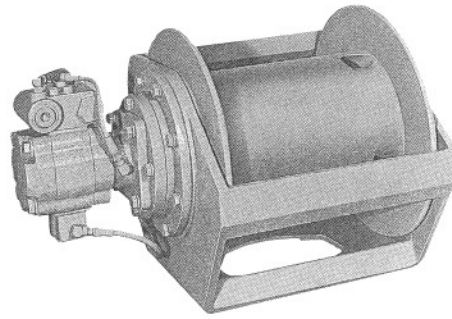


BRADEN WINCH

PD15B SERIES

PLANETARY WINCH

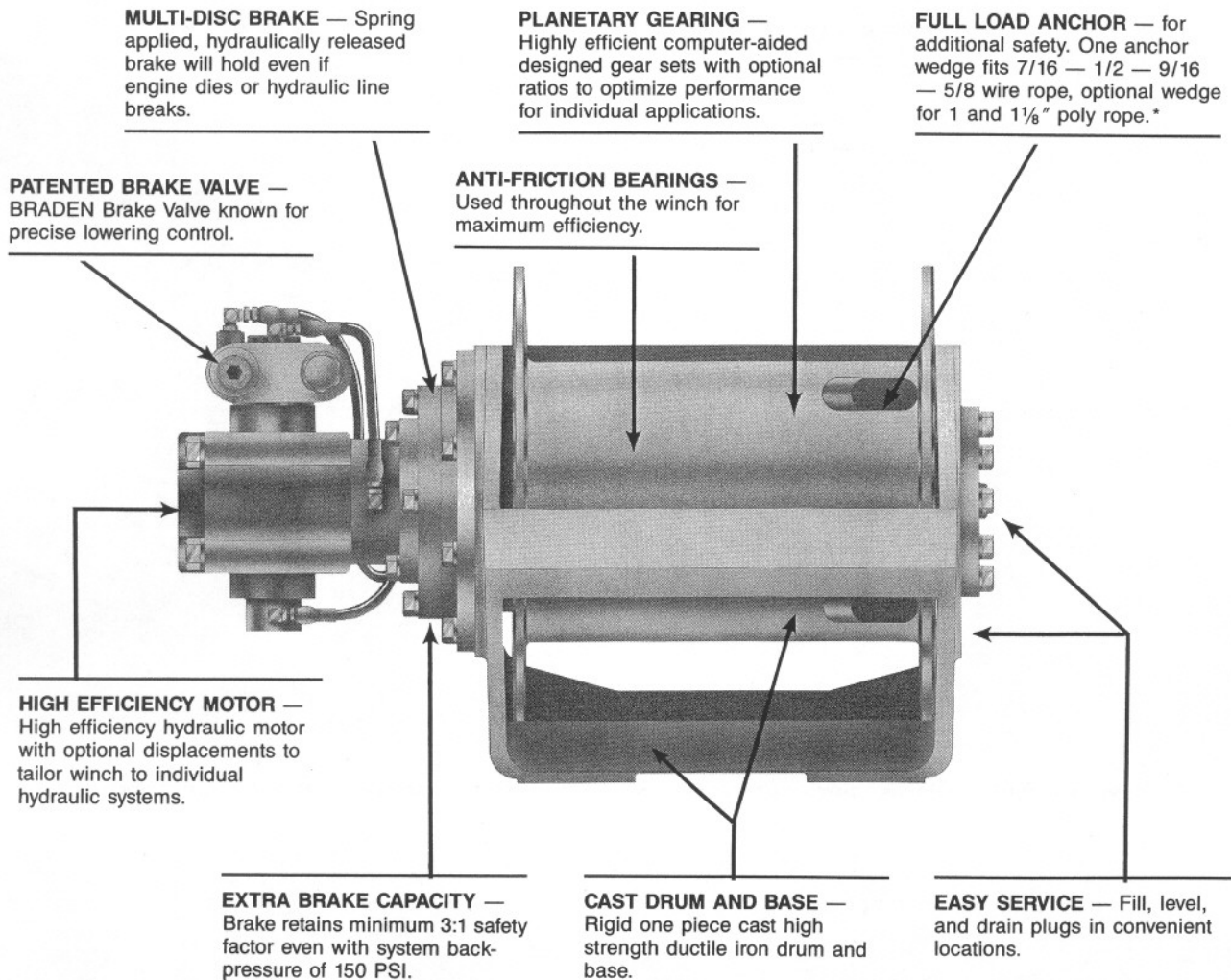
UP TO 15,000 POUND CAPACITY



PD15B FEATURES

The PD15B Series planetary winch is a high performance product designed to provide many years of service. The PD15B is powered by a high efficiency gear motor designed specifically for winch applications to provide smooth operation. The motor torque is then transmitted and multiplied by the highly efficient computer-aided designed gear train to the winch drum. All rotating components are supported by anti-friction bearings and run in oil to minimize any frictional losses. Load control when lowering is maintained by the patented Braden Brake Valve known for its smooth performance. The Braden Brake Valve not only provides smooth load control but also adapts well to most any hydraulic system. The Braden Brake Valve is also backed up by an internal automatic multi-disc spring applied hydraulic released safety brake. An over-running clutch permits free rotation through the brake in the hoisting direction but immediately locks up when the hoisting operation is complete. The load is held firm, even if the engine dies or a hydraulic line breaks.

Since 1924 Braden's on-going product development programs have led the industry with innovative, quality products serving a wide range of markets. Braden also supports their products with a comprehensive warranty.



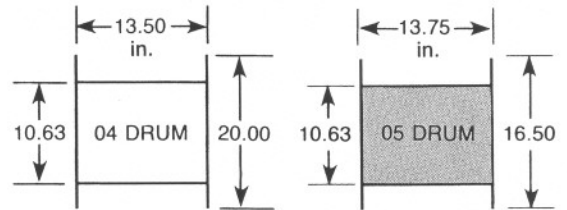
*Consult Installation, Maintenance, and Service Manual for proper installation.

ACCUMULATIVE ROPE CAPACITY

(FEET)

LAYER

ROPE SIZE (IN.)	1	2	3	4	5	6	7	8	9	10	11	12
3/8* (0.375)	103	213	330	454	585	724	870	1,023	1,183	1,350	1,524	1,705
	105	217	336	463	597	738	886					
7/16 (0.438)	89	185	288	398	515	639	770	908	1,053	1,205		
	90	188	293	405	524	650						
1/2 (0.500)	78	163	255	354	460	573	694	822	957			
	80	167	261	362	470							
9/16 (0.563)	70	147	231	322	420	525	637	756				
	71	149	234	327	427							
5/8 (0.625)	63	133	210	294	385	483	589					
	64	135	214	300								
3/4* (0.750)	53	113	180	254	335	423						
	54	115	183									
7/8† (0.875)	46	99	159	226	300							
	47	101	162									
1† (1.00)	41	89	144	206								
	41	90	146									
1-1/8† (1.13)	36	79	129	186								
	37	81										

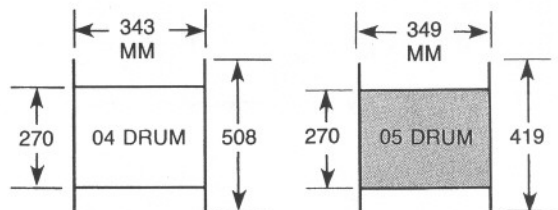


ACCUMULATIVE ROPE CAPACITY

(METERS)

LAYER

— METRIC —	ROPE SIZE (MM)	1	2	3	4	5	6	7	8	9	10	11
	10*	30	62	96	132	170	210	253	298	345	394	445
30		62	97	134	173	214	257					
11	27	56	87	120	156	194	234	276	320	366		
	28	58	90	124	160	198						
13	23	48	75	104	136	170	206	244	284			
	23	49	77	107	139							
14	21	44	70	98	128	160	194	230				
	22	46	72	100	131							
16	19	40	63	88	115	145	177					
	19	40	63	89								
19*	16	34	54	76	100	127						
	16	34	55									
22†	14	30	48	68	90							
	14	30	48									
25†	12	26	43	62								
	12	27										
29†	11	24	39	56								
	11	24										



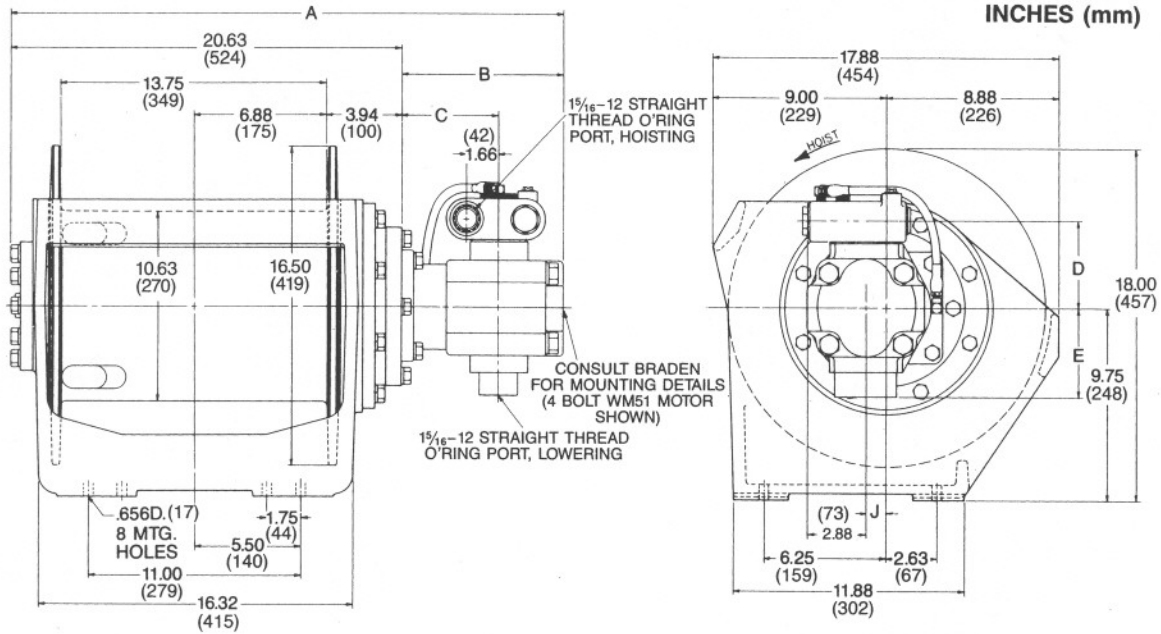
*REQUIRES SPECIAL WIRE ROPE ANCHOR.
PART NO. 24494 FOR 3/8 WIRE ROPE.
PART NO. 24492 FOR 3/4 WIRE ROPE.

†RECOMMENDED FOR POLY ROPE ONLY.
USE POLY ROPE ANCHOR P/N 24413.

DIMENSIONAL DATA

05 DRUM

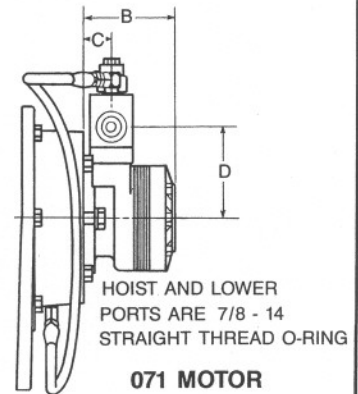
DIMENSIONS
SHOWN AS
INCHES (mm)



05 DRUM

MOTOR SIZE	A		B		C		D		E		J	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
051	28.50	724	7.88	200	4.75	121	3.78	96	4.40	112	1.00	25
064	29.00	737	8.38	213	5.00	127	4.44	113	5.06	129	1.00	25
071	24.55	624	3.92	96	1.18	30	3.92	100	—	—	0	0
064/32	33.64	854	13.00	330	7.06	179	3.92	100	5.50	140	1.00	25

APPROXIMATE WEIGHT - 508 lb (230 kg)



MOTOR SELECTION

The graphs on the following pages will help establish the motor displacement for the best line pull and line speed combination. Sometimes winch performance is limited by the amount of power the hydraulic system can provide but the proper winch selection can maximize performance to get the job done.

EXPLANATION OF MODEL NUMBER

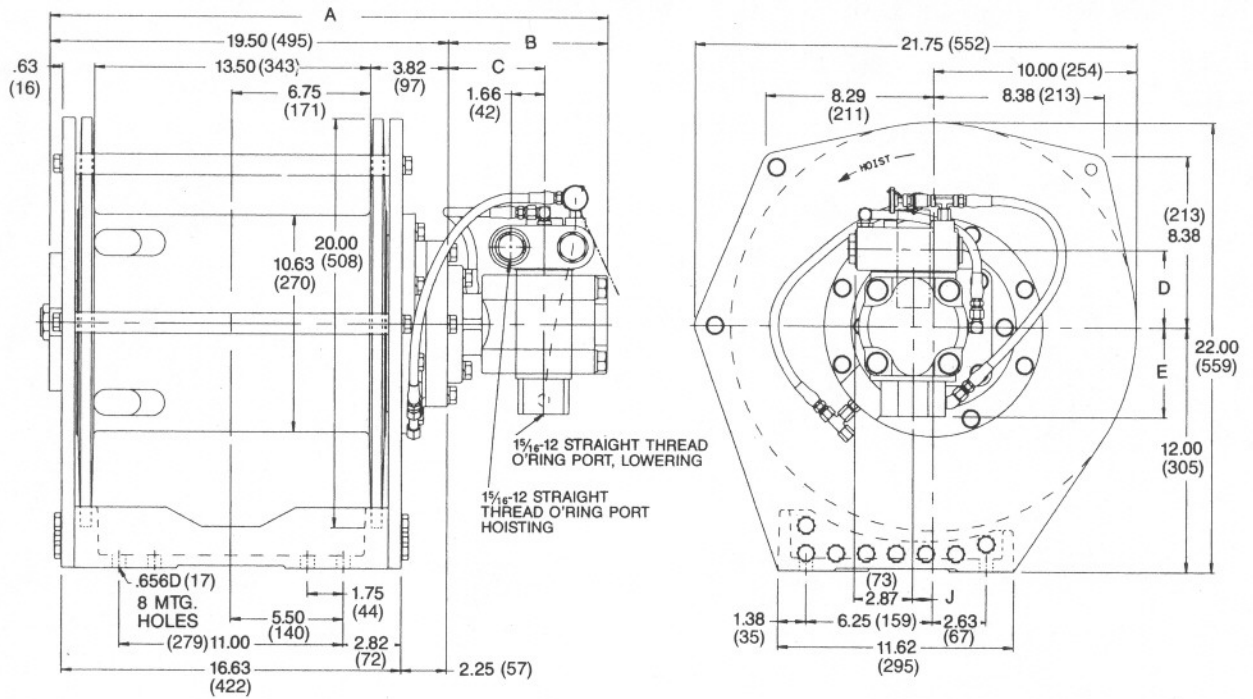
PD **15** **B** **41** **064** - **04** - **1**
 POWER MAX DESIGN GEAR MOTOR DRUM OPTION
 DRUM RATING MODEL RATIO SIZE SIZE

- PD DESIGNATES POWER DRUM
- 15 DESIGNATES 15,000 LB. FIRST LAYER LINE PULL
- B DESIGNATES THE MODEL SERIES RELATING TO DESIGN CHANGES
- 41 DESIGNATES TOTAL GEAR REDUCTION
- 039 DESIGNATES HYDRAULIC MOTOR DISPLACEMENT IN CU IN/REV (DECIMAL POINT ELIMINATED. EXAMPLE 064 = 6.4 CU IN/REV)
- 04 DESIGNATES THE DRUM
- 1 PERMITS TESTING AND INSPECTION PER API 2C FOR OFFSHORE CRANES

Additional options, such as Controlled Freefall, Full Release Freefall, Ratchet and Pawl, and Piston Motors may be available on some models. Consult factory for details.

DIMENSIONAL DATA 04 DRUM

DIMENSIONS
SHOWN AS
INCHES (MM)

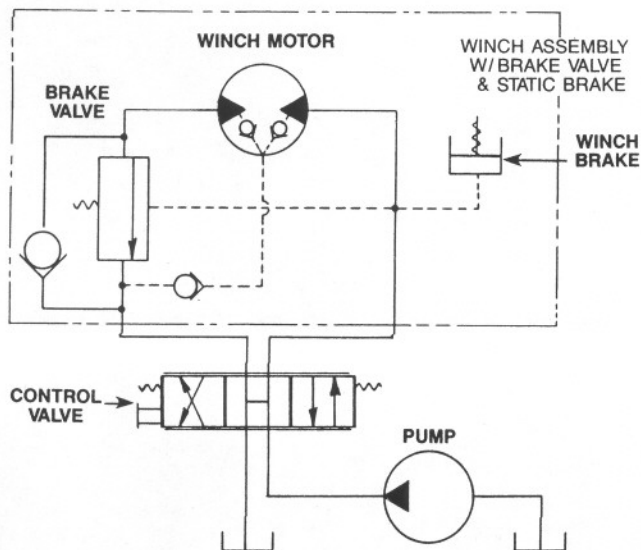


04 DRUM

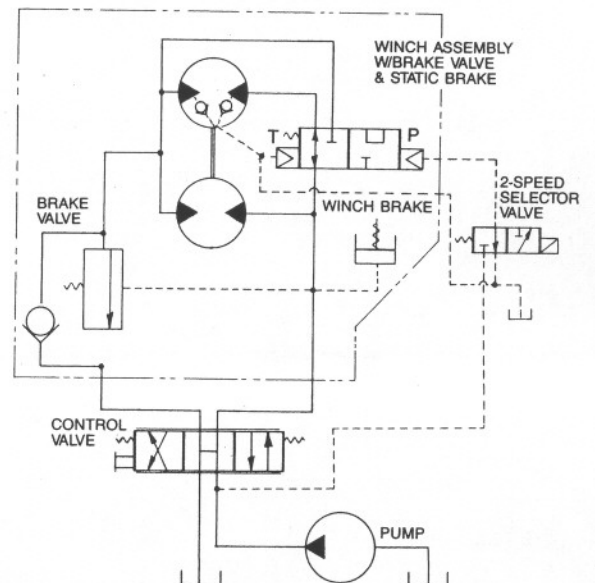
MOTOR SIZE	A		B		C		D		E		J	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
051	27.38	695	7.88	200	4.75	121	3.78	96	4.40	112	1.00	25
064	27.88	708	8.38	213	5.00	127	4.44	113	5.06	129	1.00	25
071	23.42	595	3.92	96	1.18	30	3.92	100	—	—	0	0
064/32	32.50	826	13.00	330	7.06	179	3.92	100	5.50	140	1.00	25

APPROXIMATE
WEIGHT - 510 lb
(231 kg)

HYDRAULIC CIRCUIT (SINGLE SPEED MOTOR)



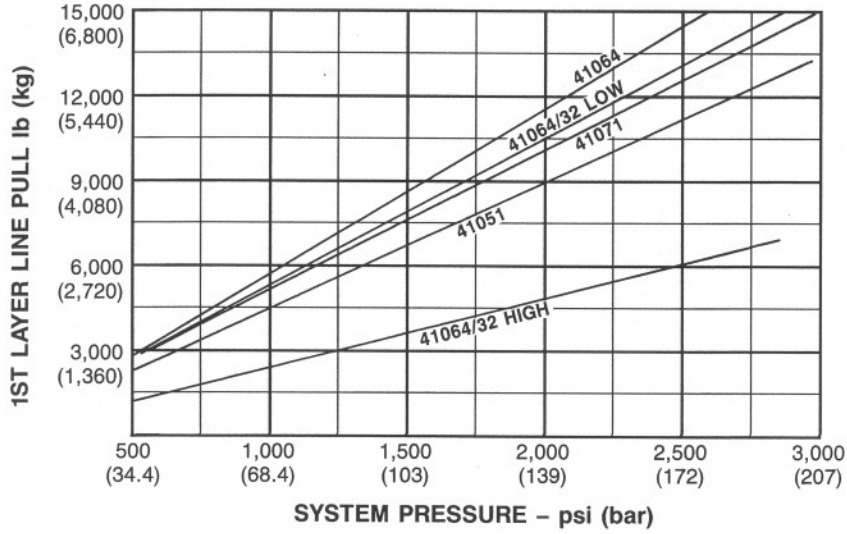
HYDRAULIC CIRCUIT (TWO-SPEED MOTOR)



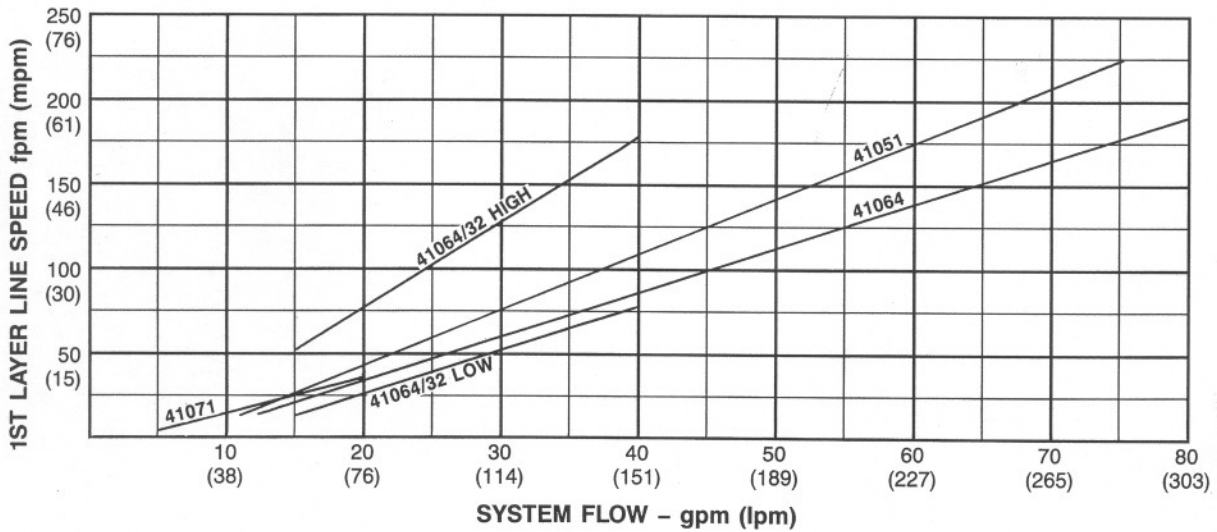
PERFORMANCE GRAPHS

04 & 05 DRUM

LINE PULL VS PRESSURE



LINE SPEED VS FLOW



MINIMUM GPM RECOMMENDATION FOR SMOOTH OPERATION

MOTOR 051	11 gpm (42 l/min)	MOTOR 064/32	15 gpm (57 l/min)
MOTOR 064	12 gpm (45 l/min)	MOTOR 071	5 gpm (19 l/min)

(RECOMMENDED MINIMUM SYSTEM FLOW SHOULD BE 2 TIMES THESE VALUES)

PD15B PERFORMANCE

04 & 05 DRUM

41:1 RATIO												
ROPE SIZE (IN.)	LAYER	051 MOTOR 5.1 CU IN. DISP. 3,000 PSI @ 75 GPM		LINE PULL (LBS)	064 MOTOR 6.38 CU IN. DISP. 2,600 PSI @ 80 GPM		071 MOTOR 7.1 CU IN. DISP. 3,000 PSI @ 20 GPM		064/32 SPEED MOTOR 6.38/3.18 CU IN. DISP. 2,900 PSI @ 40 GPM		04 DRUM ROPE CAPACITY (FEET)	05 DRUM ROPE CAPACITY (FEET)
		LINE PULL (LBS)	LINE SPEED (FPM)		LINE SPEED (FPM)	LINE SPEED (FPM)	LINE PULL (LBS)	LINE SPEED (FPM)				
1/2	1	13,400	223	15,000	191	39	15,000/7,000		79/179	78	80	
	2	12,300	243	13,800	208	42	13,800/6,400		86/195	163	167	
	3	11,400	264	12,700	226	46	12,700/5,900		93/211	255	261	
	4	10,600	284	11,800	243	49	11,800/5,510		100/227	354	362	
	5	9,860	304	11,000	260	53	11,000/5,150		107/243	460	470*	
	6	9,250	324	10,400	277	56	10,400/4,830		114/260	573		
	7	8,710	344	9,740	295	60	9,740/4,550		121/276	694		
	8	8,230	364	9,210	312	63	9,210/4,300		129/292	822		
	9	7,800	384	8,720	329	67	8,720/4,070		136/308	957*		
5/8	1	13,400	226	15,000	193	39	15,000/7,000		80/181	63	64	
	2	12,100	251	13,500	215	43	13,500/6,300		89/201	133	135	
	3	11,000	276	12,300	236	48	12,300/5,730		97/221	210	214	
	4	10,100	301	11,300	258	52	11,300/5,250		106/241	294	300*	
	5	9,280	326	10,400	279	57	10,400/4,850		115/262	385		
	6	8,610	352	9,640	301	61	9,640/4,500		124/282	483		
	7	8,040	377	9,000	323	65	9,000/4,200		133/302	589*		

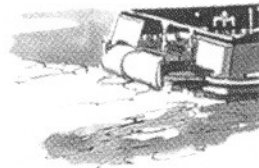
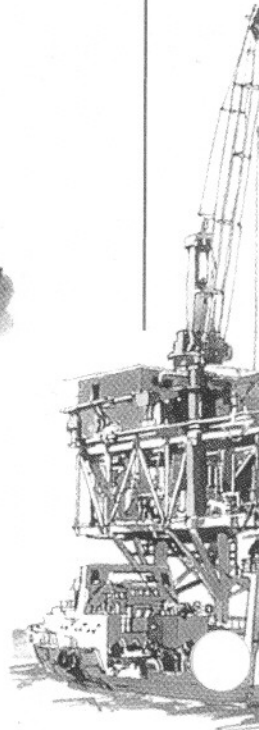
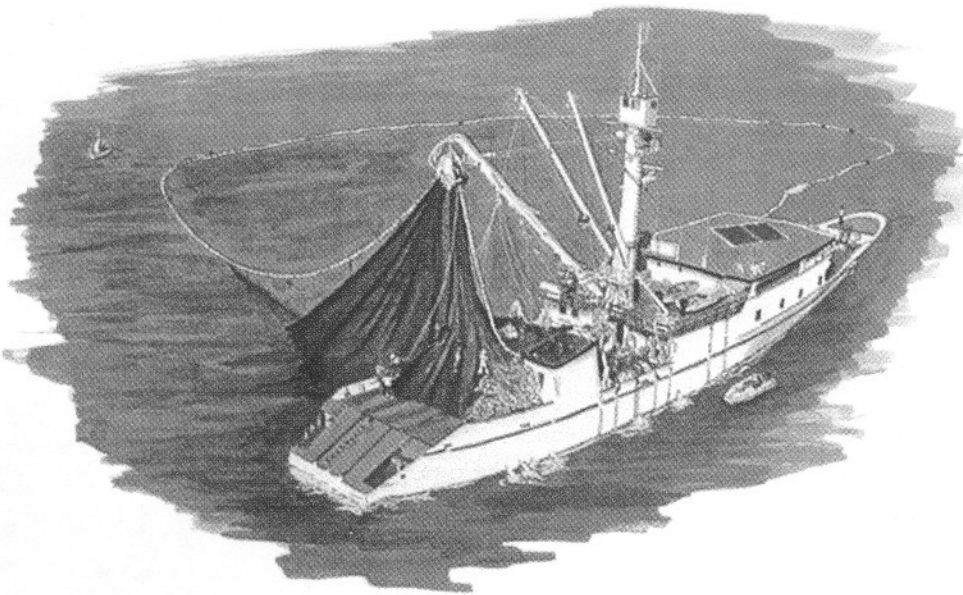
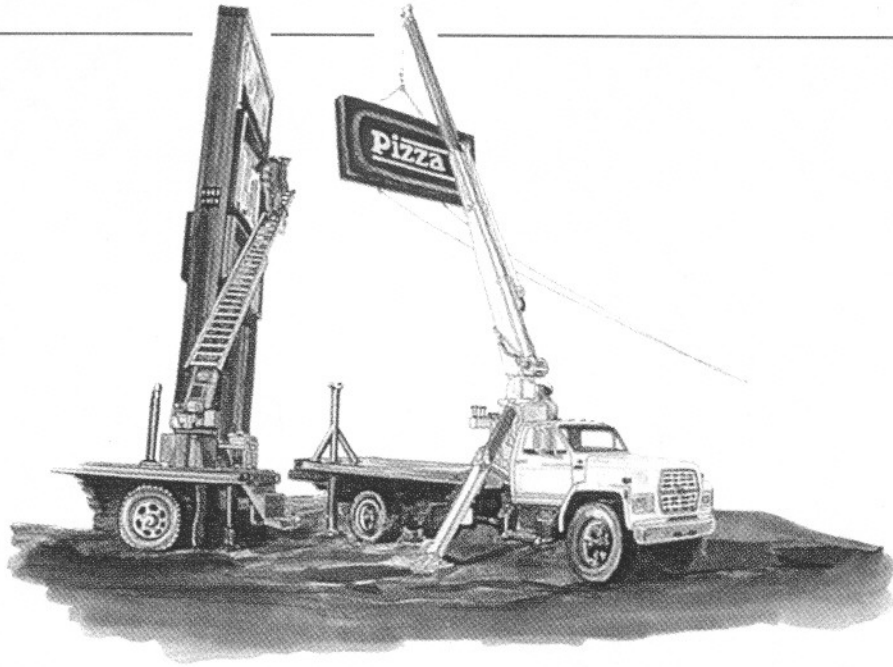
NOTE:

1. 2 speed line pull and line speed shown as LOW SPEED/HIGH SPEED.
2. 2 speed hoists are designed to be used as an overwind hoist. They are not intended to be field converted to underwind hoists because motor disassembly is required. Therefore, underwind applications require Braden approval before use.
3. Caution must be taken not to exceed the specified high speed load while lowering. This is to prevent over pressurization of the motor by the brake valve. Consult Braden for automatic high speed lockout circuits to prevent motor damage.

— METRIC —

41:1 RATIO												
ROPE SIZE (MM)	LAYER	051 MOTOR 83.6 CU CM DISP. 207 bar @ 284 lpm		LINE PULL (KG)	064 MOTOR 105 CU CM DISP. 179 bar @ 303 lpm		071 MOTOR 105 CU CM DISP. 207 bar @ 76 lpm		064/32 2 SPEED MOTOR 105/52 CU CM DISP. 200 bar @ 151 lpm		04 DRUM ROPE CAPACITY (M)	05 DRUM ROPE CAPACITY (M)
		LINE PULL (KG)	LINE SPEED (MPM)		LINE SPEED (MPM)	LINE SPEED (MPM)	LINE PULL (KG)	LINE SPEED (MPM)				
13	1	6,080	68	6,800	58	12	6,800/3,180		24/55	24	24	
	2	5,580	74	6,260	63	13	6,260/2,900		26/59	50	51	
	3	5,170	80	5,760	69	14	5,760/2,680		28/64	78	80	
	4	4,810	87	5,350	74	15	5,350/2,500		30/69	108	110	
	5	4,470	93	4,990	79	16	4,990/2,340		33/74	140	143*	
	6	4,200	99	4,720	84	17	4,720/2,190		35/79	175		
	7	3,950	105	4,420	90	18	4,420/2,060		37/84	212		
	8	3,730	111	4,180	95	19	4,180/1,950		39/89	251		
	9	3,540	117	3,960	100	20	3,960/1,850		41/94	292*		
16	1	6,080	69	6,800	59	12	6,800/3,180		24/55	19	20	
	2	5,490	77	6,120	66	13	6,120/2,860		27/61	41	41	
	3	4,990	84	5,580	72	15	5,580/2,600		30/67	64	65	
	4	4,580	92	5,130	79	16	5,130/2,380		32/73	90	91*	
	5	4,210	99	4,720	85	17	4,720/2,200		35/80	117		
	6	3,910	107	4,370	92	19	4,370/2,040		38/86	147		
	7	3,650	115	4,080	98	20	4,080/1,910		41/92	180*		

*This layer does not comply with ANSI spec. 5-132a-2c



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