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# RASMUSSEN<sup>®</sup>

## EQUIPMENT COMPANY

### WIRE ROPE & RIGGING

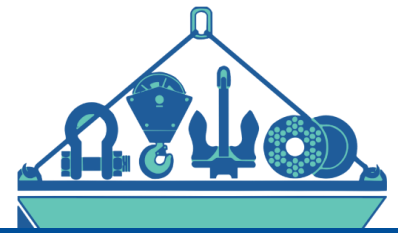


**THE BEST SOURCE FOR MARINE EQUIPMENT,  
LIFTING & RIGGING SUPPLIES (EST. 1936)**

**WINCHES \* HYDRAULIC POWER UNITS \* SECTIONAL BARGES \* SPUDS &  
SPUDWELLS \* MOORING SYSTEMS**

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## HYDRAULIC WINCHES



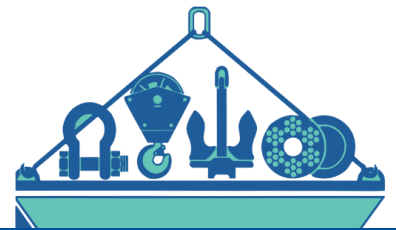
### WINCHES FOR EVERY JOB!

- All mooring applications
- Marine construction
- Erection
- Pipe pulling
- Barge positioning/fleeting
- Spud lifting/operation
- Cable ways and more
- Controlled lowering



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## Pullmaster Model Code

**XX X X - XXX - XX - XX X**

### Basic Unit Series

- PL = Equal Speed in both directions
- M = Equal Speed in both directions
- H = Rapid reverse
- HL = Low forward, rapid forward, rapid reverse
- R = Recovery Winch

### Size of Unit

### Reduction Ratio

Only Used for non-standard reduction ratios

### Other Options

- M = Manually controlled freespooling
- F = Hydraulically controlled freespooling
- C = Controlled free fall
- D = Emergency free fall

### Drum Size

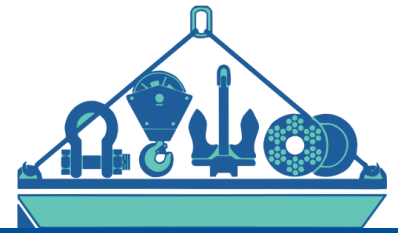
### Hydraulic Motor

### Type of Brake

Contact Rasmussen for brake options

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## M Series:



### Equal Speed

High-performance, high-efficiency planetary winch with equal speed in both directions. The M series offers exceptionally smooth lowering control of the maximum rated load in a step-less operation.



- Hydraulic gear motor
- Spring-applied, pressure-released, automatic multi-disc brake.
- During lowering operations, the over-running clutch locks causing the disc brakes to rotate between a series of divider discs. Dynamic braking is then achieved by modulation of the winch control valve handle. When the control is returned to neutral position, the brake applies automatically.
- A counter-balance valve is not required for smooth and positive “Down” control.

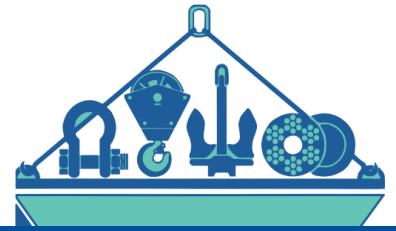
Model Number	Bare Drum		Mean Drum		Full Drum		Maximum Wire Size (in)	Capacity (ft)
	Line Pull (lbs)	Line Speed (fpm)	Line Pull (lbs)	Line Speed (fpm)	Line Pull (lbs)	Line Speed (fpm)		
M8-3-30-1	8500	116	7148	143	5795	170	1/2	152
M12-3-97-1	12000	104	9660	138	7319	172	5/8	222
M12-3-97-5	12000	100	8320	151	6250	201	5/8	323
M18-3-101-1	18000	122	14644	159	11288	195	7/8	113
M18-3-101-3	18000	121	-	-	8649	255	7/8	372
M25-3-86-1	25000	140	18400	217	11821	295	1	91
M25-3-86-2							1	264
M25-7-86-4							1	528
M50-3-86-1	50000	69	42533	84	35065	99	1-1/4	177
M50-3-86-2	40000	86	33850	106	27960	126	1-1/4	440
M50-3-86-32	50000	69	36300	96	26300	132	1-1/4	552
M75-7-191-5	75000	72	58374	100	41748	129	1-1/4	559
M75-7-191-6	75000	63	53102	108	31244	153	1-1/4	1503

\*Performance based on manufacturer specified hydraulic flow and pressure. Detailed spec sheets with dimensions and installation instructions are available upon request

Note: Common inventory sizes listed above, custom sizes available upon request

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## H Series:



### Rapid Reverse

High-performance, high-efficiency planetary winch with rapid reverse speed 4.5 times faster than forward speed. In reverse rotation (lowering), the maximum load can be positively controlled at a line speed equal to the hoisting speed.



- Hydraulic gear motor
- Spring applied, pressure released multi-disc brake with static and dynamic functions
- During hoisting the hydraulic motor drives direct into the planetary reductions without affecting the brake assembly. When forward rotation is stopped, an over-running clutch will lock and the multi-disc brake will positively hold the maximum load
- During lowering the brake is released automatically and then modulated for the desired lowering speed by a single control lever.
- A counter-balance valve is not required for smooth and positive "Down" Control

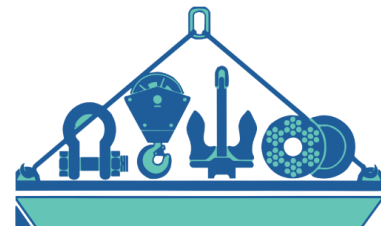
Model Number	Bare Drum			Mean Drum			Full Drum			Maximum Wire Size (in)	Capacity (ft)
	Line Pull (lbs)	Line Speed (fpm)		Line Pull (lbs)	Line Speed (fpm)		Line Pull (lbs)	Line Speed (fpm)			
		Forward	Reverse		Forward	Reverse		Forward	Reverse		
H12-3-97-1	12121	104	449	9362	140	606	7143	176	762	5/8	222
H18-3-101-1	18000	122	561	14053	157	722	11526	191	878	7/8	113
H18-3-101-3	18000	121	518	12375	178	765	8825	249	1072	7/8	372
H25-3-86-1	25000	139	649	20678	169	786	17626	198	924	1-1/4	79
H25-3-86-2	25000	139	649	16049	218	1018	11818	295	1377	1-1/4	186
H30-3-86-52	25000	146	681	15540	360	1679	6080	574	2677	1	2759
H50-3-86-13	50000	59	324	30500	114	532	21942	158	739	1-1/4	1503
H50-3-86-1	50000	69	322	42533	84	392	35065	99	462	1-1/4	177
H50-3-86-2	40000	86	402	33150	106	495	27690	126	588	1-1/4	440
H50-3-86-32	50000	69	319	34773	100	466	26424	131	614	1-1/4	552
H75-7-191-5	75000	63	261	53300	101	419	36300	148	614	1-1/4	1503
H75-7-191-6	75000	72	298	58374	100	417	41748	129	536	1-1/4	559

\*Performance based on manufacturer specified hydraulic flow and pressure. Detailed spec sheets with dimensions and installation instructions are available upon request

Note: Common inventory sizes listed above, custom sizes available upon request

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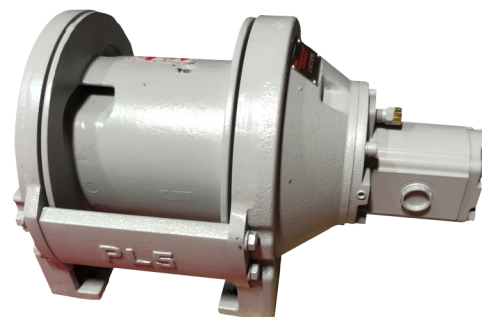
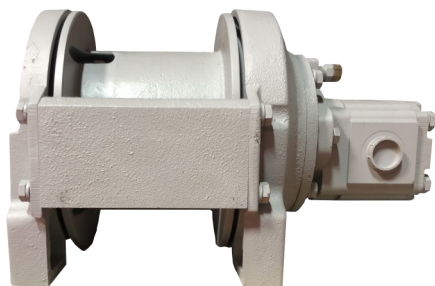
## PL Series:



## Equal Speed

High-performance, high-efficiency planetary winches offering equal speed in both directions. Ideal for hoisting and lowering applications.

- Hydraulic Gear Motor
- Spring-applied, pressure-released, automatic multi-disc brake
- Over-running clutch enables free rotation in the hoisting direction without affecting the brake
- During lowering operations, the over-running clutch locks causing the disc brakes to rotate between a series of divider discs. Dynamic braking is then achieved by modulation of the winch control valve handle. When the control is returned the brake applies automatically.



Model Number	Bare Drum		Full Drum		Maximum Wire Size (in)	Capacity (ft)
	Line Pull (lbs)	Line Speed (fpm)	Line Pull (lbs)	Line Speed (fpm)		
PL1-12-227-1	1100	78	821	104	1/4	87
PL2-12-228-1B	2204	83	1633	111	3/8	84
PL5-12-210-1	4500	135	3328	183	7/16	110
PL2-18-228-4-B	2204	83	1710	53	3/8	130
PL5-18-210-5	4500	135	3370	180	7/16	105

\*Performance based on manufacturer specified hydraulic flow and pressure. Detailed spec sheets with dimensions and installation instructions are available upon request

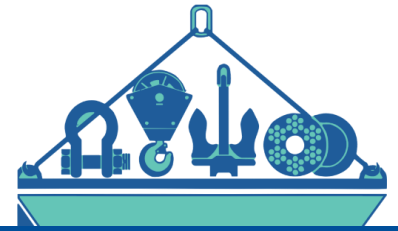
Note: Common inventory sizes listed above, custom sizes available upon request



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## LANTEC®



Lantec winches include a hydraulic gear motor, spring applied hydraulic released multidisc brake with overrunning clutch and 2 or 3 planetary gear reductions, depending on the size of the winch.

Custom designs available, please inquire about special cable drums, hydraulic motors, bandbrakes, freespool and ratchet and pawl options to meet your exact application needs.



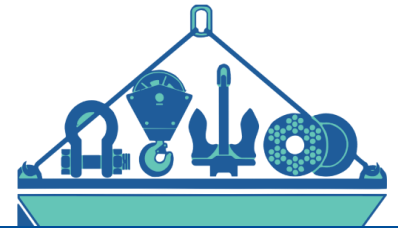
Model Number	Bare Drum		Mean Drum		Full Drum		Maximum Wire Size (in)	Capacity (ft)
	Line Pull (lbs)	Line Speed (fpm)	Line Pull (lbs)	Line Speed (fpm)	Line Pull (lbs)	Line Speed (fpm)		
LWS100	13500	110	9850	149	7280	196	3/4	3300
200-103	45175	70	24160	132	17415	182	1	770
200-106	36250	88	23260	137	17125	186	1	680
540-122	73634	42	48813	63	40600	75	1-1/8	641
540-123	73634	42	48813	63	40600	75	1-1/8	1000
540-133	57925	53	39138	78	30810	100	1-1/8	1412
750-122	99750	31	65000	47	51600	60	1-3/8	355
750-143	78750	39	48264	63	36500	84	1-3/8	1698
750-163	59850	51	40440	76	31835	96	1-3/8	2060

\*Performance based on manufacturer specified hydraulic flow and pressure. Detailed spec sheets with dimensions and installation instructions are available upon request

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## Info needed to size winch

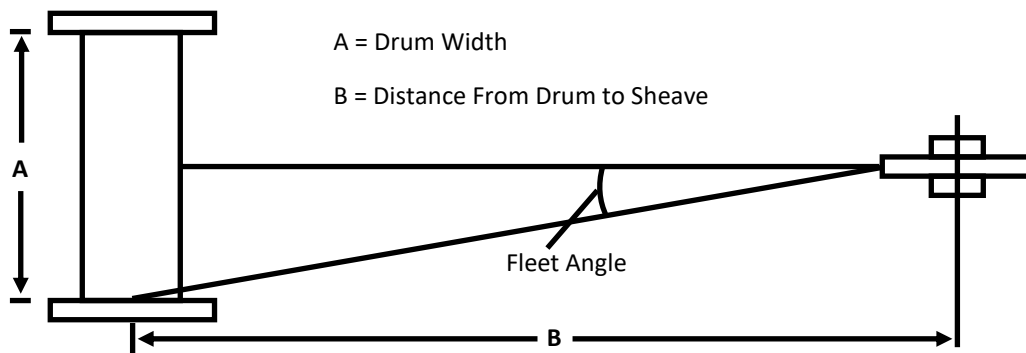
- Diameter of wire rope
- Length of wire rope per drum
- Amount of line pull required including at what position on the drum
- Type of control desired, air/manual
- Application or use

## Fleeting distance guidelines

To find the minimum distance required to the first sheave (sheave centered on drum),

**Drum length (in) ÷ 0.6288 = 1-1/2° Fleeting Distance (ft)**

As an approximate guide, for every inch from guide sheave centerline to drum flange, 3.2ft of fleeting distance is required (can be used for non-centered sheave)



## Proper Fleet Angle Guidelines

When setting up your winch, ensure a proper fleeting angle so the wire rope is spooled back onto the winch uniformly. The fleet angle is important to ensure the lifespan of the wire rope and the safety of the operator. To achieve this, a sheave must be placed far enough away from the drum for the angle between the centerline of the drum and the flange, with respect to the sheave, to be <math><1.5^\circ</math>.

### IMPORTANT

Before Installation see maintenance and operations manual for additional warnings and precautions. This equipment is not to be used for lifting, supporting, or transporting people or lifting or supporting loads over people. Line speed and pull performance on our rental fleet is estimated on manufacturer specifications. Consult manufacturer for exact line speeds and pull. All quotes are subject to products availability, prior sale or other disposition. All details are believed correct, but without guarantee.