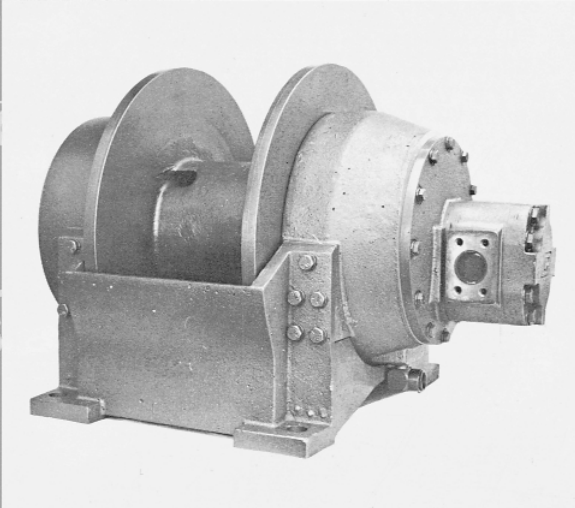


# H25

PLANETARY, HYDRAULIC WINCH



**MASTER** 

**THE LOGICAL ALTERNATIVE**



# MODEL H25 PLANETARY HYDRAULIC WINCH

## DESCRIPTION

The **PULLMASTER** Model H25 is a high performance, high efficiency, planetary winch with a "Rapid Reverse" feature which provides for reversing or lowering line speeds 4.67 times faster than forward or hoisting line speeds. The automatic, multi disc brake of this unit is effective in one direction only and achieves exceptionally smooth lowering of a load. The maximum load can be smoothly and positively controlled at a minimum line speed of 40 f.p.m. (bare drum) and should not be lowered with speeds exceeding the forward or hoisting line speed. Only loads, reduced by a ratio of 4.67 of the maximum capacity of the winch, can be safely lowered at maximum reversing speed.

The **PULLMASTER** Model H25 winch is powered by a hydraulic Gear Motor and the required reduction ratio of 40.8:1 is established by two planetary stages. The hydraulic motor drives direct into the planetary reductions. When the forward hoisting rotation is stopped an over-running clutch, installed between the brake assembly and the motor drive shaft, will lock and the multi-disc brake applies automatically. The multi-disc brake is spring applied and pressure released and has static and dynamic function. When the hydraulic motor is powered for reverse or lowering the brake is released automatically and the primary reduction stage is locked out, resulting in the faster reversing or lowering speed. The speed is controlled by modulation of a single control lever. A counter-balance valve is not required for dynamic braking. All moving parts of the **PULLMASTER** Model H25 planetary hydraulic winch are totally enclosed and run in an oil bath, assuring a long, trouble free service with a minimum requirement for maintenance.

## OPTIONS

- Special Drum Size • Free Spooling • Drum Grooving • Ratchet & Pawl • Hydraulic Piston Motor • Controlled Free Fall • Emergency Free Fall • External Brake Release
- For other optional requirements contact the factory

## PERFORMANCE

Based on a hydraulic volume of 115 (U.S.) G.P.M. (435 l/min) at 2500 P.S.I. (176 kg/cm<sup>2</sup>) hydraulic pressure.  
 Drum revolutions at maximum volume = 49 R.P.M. in forward rotation and 229 R.P.M. in reverse rotation.  
 Drum Torque at maximum pressure = 135,937 lb. in. (1566.7 kpm)

MODEL NUMBER	BARE DRUM			MEAN DRUM			FULL DRUM		
	LINE PULL	LINE SPEED		LINE PULL	LINE SPEED		LINE PULL	LINE SPEED	
		FORWARD	REVERSE		FORWARD	REVERSE		FORWARD	REVERSE
H25-7-86-1	25000 lb	139 fpm	649 fpm	20678 lb	169 fpm	786 fpm	17626 lb	198 fpm	924 fpm
	11340 kp	42 m/min	189 m/min	9379 kp	52 m/min	240 m/min	7995 kp	60 m/min	282 m/min
H25-7-86-2	25000 lb	139 fpm	649 fpm	16049 lb	218 fpm	1018 fpm	11818 lb	295 fpm	1377 fpm
	11340 kp	42 m/min	189 m/min	7280 kp	66 m/min	308 m/min	5361 kp	90 m/min	420 m/min
H25-7-86-3	25000 lb	139 fpm	649 fpm	16049 lb	218 fpm	1018 fpm	11818 lb	295 fpm	1377 fpm
	11340 kp	42 m/min	189 m/min	7280 kp	66 m/min	308 m/min	5361 kp	90 m/min	420 m/min
H25-7-86-4	25000 lb	139 fpm	649 fpm	16049 lb	218 fpm	1018 fpm	11818 lb	295 fpm	1377 fpm
	11340 kp	42 m/min	189 m/min	7280 kp	66 m/min	308 m/min	5361 kp	90 m/min	420 m/min

The volumetric requirement for the **PULLMASTER** Model H25 planetary winch are recommended maximums and should not be exceeded. When the **PULLMASTER** Model H25 planetary winch is installed in existing hydraulic circuits with a lesser volume and/or lower pressure, the performance will change accordingly. Performance graphs for line speed vs. oil volume and line pull vs. pressure are available on request.

## CABLE STORAGE

### CABLE STORAGE CAPACITY FOR WIRE ROPE

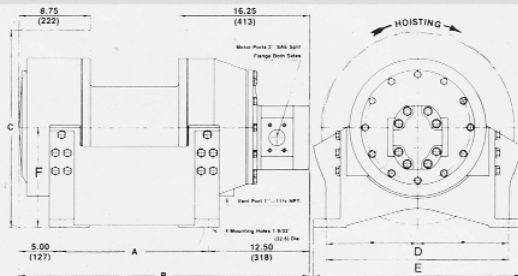
MODEL NUMBER	DRUM SIZE			WIRE ROPE DIAMETER							
	BARREL	FLANGE	LENGTH	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"
H25-7-86-1	10"	17"	11"	486 ft	384 ft	296 ft	210 ft	140 ft	129 ft	84 ft	79 ft
	254 mm	432 mm	279 mm	117 m	117 m	90 m	64 m	43 m	39 m	26 m	24 m
H25-7-86-2	10"	24"	11"	1209 ft	952 ft	728 ft	516 ft	403 ft	313 ft	250 ft	186 ft
	254 mm	610 mm	279 mm	369 m	290 m	222 m	157 m	123 m	95 m	76 m	57 m
H25-7-86-3	10"	24"	17"	1869 ft	1471 ft	1125 ft	796 ft	623 ft	484 ft	386 ft	287 ft
	254 mm	610 mm	432 mm	569 m	448 m	343 m	243 m	190 m	148 m	118 m	87 m
H25-7-86-4	10"	24"	22"	2419 ft	2076 ft	1456 ft	1032 ft	806 ft	626 ft	500 ft	370 ft
	254 mm	610 mm	559 mm	737 m	632 m	444 m	314 m	246 m	191 m	152 m	113 m

The cable anchor of the **PULLMASTER** Model H25 planetary winch is not designed to hold the maximum rated load. The cable drum requires 4-6 wraps of wire rope for security.

## DIMENSIONS

MODEL NO.	DIM. A	DIM. B	DIM. C
H25-7-86-1	18.50"	36"	19.88"
	470 mm	914 mm	505 mm
H25-7-86-2	18.50"	36"	24.38"
	470 mm	914 mm	619 mm
H25-7-86-3	24.50"	42"	24.38"
	622 mm	1067 mm	619 mm
H25-7-86-4	29.50"	42"	24.38"
	749 mm	1194 mm	619 mm

MODEL NO.	DIM. D	DIM. E	DIM. F
H25-7-86-1	17.75"	20.75"	11.38"
	451 mm	527 mm	289 mm
H25-7-86-2	22.88"	25.88"	12.38"
	581 mm	657 mm	314 mm
H25-7-86-3	22.88"	25.88"	12.38"
	581 mm	657 mm	314 mm
H25-7-86-4	22.88"	25.88"	12.38"
	581 mm	657 mm	314 mm



**PULLMASTER** planetary winches are covered by a liberal warranty. Parts and Repair service are available from authorized **PULLMASTER** distributors throughout Canada, the United States and in most overseas areas.

### IMPORTANT:

**PULLMASTER** planetary winches are neither designed nor intended for installation on equipment used in lifting or moving of personnel.

Other Models of **PULLMASTER** Planetary winches are available for different lifting capacities and also with equal speed in both directions.

## DISTRIBUTOR

For more information write to:

**PULLMASTER WINCH CORPORATION**  
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