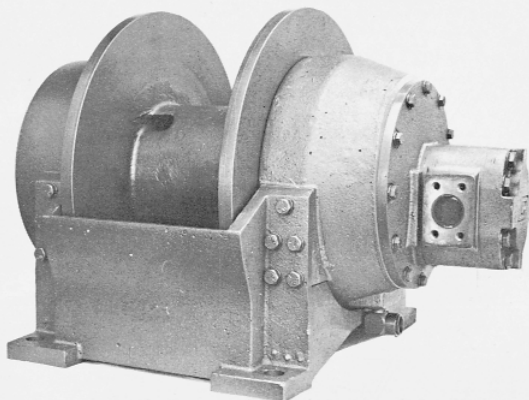


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Hydraulic Service, Inc.

H25

PLANETARY, HYDRAULIC WINCH



RAPID REVERSE



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 fpm (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 • Pitcher & 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/cm²) 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	LINE PULL	BARE DRUM		MEAN DRUM				FULL DRUM			
		LINE SPEED	REVERSE	LINE PULL	LINE SPEED		LINE PULL	LINE SPEED		LINE PULL	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

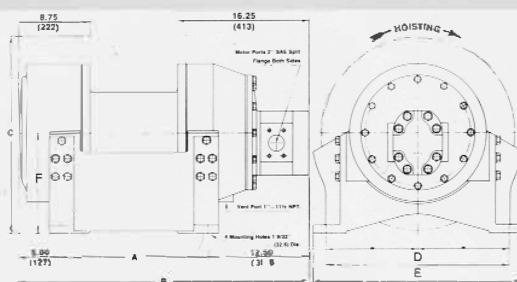
MODEL NUMBER	DRUM SIZE			WIRE ROPE DIAMETER								
	BARREL	FLANGE	LENGTH	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	
H25-7-86-1	10"	17"	11"	486 ft	384 ft	296 ft	210 ft	140 ft	129 ft	84 ft	79 ft	
	254 mm	432 mm	279 mm	148 m	117 m	90 m	64 m	43 m	39 m	26 m	24 m	
H25-7-86-2	10"	24"	11"	1209 ft	952 ft	728 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" 470 mm	36" 914 mm	19.68" 505 mm
H25-7-86-2	18.50" 470 mm	36" 914 mm	24.36" 619 mm
H25-7-86-3	24.50" 622 mm	42" 1067 mm	24.36" 619 mm
H25-7-86-4	29.50" 748 mm	47" 1194 mm	24.36" 619 mm

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



DISTRIBUTOR

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