

Ryan

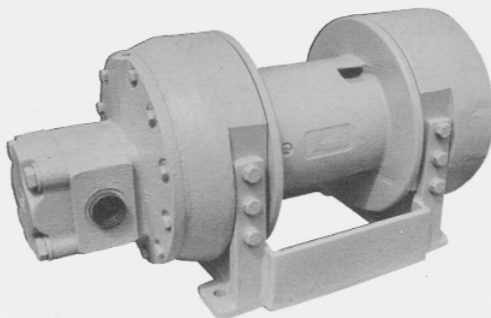


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[Hydraulic Service, Inc.](#)

H8

PLANETARY, HYDRAULIC WINCH



RAPID REVERSE

MASTER

THE LOGICAL CHOICE

MODEL H8 PLANETARY HYDRAULIC WINCH

DESCRIPTION

The **PULLMASTER Model H8** is a high performance, high efficiency planetary winch with a 'Rapid Reverse' feature. The reversing or lowering speed is 4.3 times faster than forward or hoisting speed.

In reverse rotation (lowering) the maximum load can be positively controlled at a line speed equal to the hoisting speed. Only loads which are reduced by a ratio of 4.3 of the maximum, winch capacity should be lowered at maximum reversing speed.

The **PULLMASTER Model H8** planetary winch is powered by a hydraulic gear motor and the required reduction of 34:1 (in forward rotation) is established by two planetary reduction stages. In forward rotation (hoisting) the hydraulic motor drives direct into the planetary reductions without affecting the brake assembly. When forward rotation is stopped, an over-running clutch, installed between the brake assembly and the motor shaft, will lock and the brake will hold the load. The multi-disc brake is spring applied-pressure released and has static and dynamic function. When the hydraulic motor is powered for reverse rotation the primary planet reduction is locked out, resulting in the fast reversing speed. When the control is returned to neutral position the brake applies automatically. A counter-balance or brake valve is not required for dynamic braking.

All moving parts of the **PULLMASTER Model H8** planetary winch are totally enclosed and run in an oil bath, assuring long, trouble-free service with a minimum requirement of maintenance.

DRUM SIZES: Different drum sizes are available to provide for larger cable storage.

REDUCTION RATIOS: The performance can be altered by different reduction ratios.

HYDRAULIC MOTORS: Hydraulic piston motors can be adapted for high pressure hydraulic systems.

EXTERNAL BRAKE RELEASE: This option offers the facility of an independent brake release.

For further optional requirements contact the factory.

OPTIONS

PERFORMANCE

- Based on a hydraulic volume of 37 (U.S.) gpm (140 l/min) at 2000 psi (138 bar) hydraulic pressure.
- Drum rpm at max. oil volume = 59 rpm in forward rotation and 255 rpm in reverse rotation.
- Drum torque at maximum pressure = 31875 lb. in. (3601 Nm).

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
H8-3-30-1	8500 lb 37.8 kN	116 fpm 35 m/min	502 fpm 153 m/min	7157 lb 31.8 kN	142 fpm 43 m/min	617 fpm 188 m/min	5814 lb 25.9 kN	169 fpm 51 m/min	734 fpm 224 m/min

- Optional drum sizes and reduction ratios may change the performance.

- The volumetric requirements for the **PULLMASTER Model H8** planetary winch are recommended maximums and should not be exceeded. When the winch is installed in existing hydraulic circuits with a lesser oil volume and/or lower pressure, the performance will change accordingly. Performance graphs for line speed vs. oil volume and line pull vs. oil pressure are available on request.

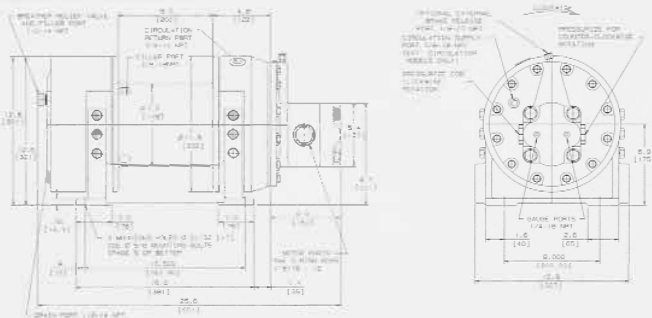
CABLE STORAGE

CABLE STORAGE CAPACITY FOR WIRE ROPE

MODEL NUMBER	DRUM SIZE			WIRE ROPE DIAMETERS*							
	BARREL	FLANGE	LENGTH	1/8 in	3/16 in	1/4 in	5/16 in	3/8 in	7/16 in	1/2 in	
H8-3-30-1	7 in 178 mm	11.50 in 292 mm	8 in 203 mm	2115 ft 645 m	959 ft 292 m	532 ft 162 m	359 ft 109 m	227 ft 69 m	166 ft 51 m	152 ft 46 m	

The cable anchor of the **PULLMASTER Model H8** planetary winch is not designed to hold the rated maximum load. The cable drum requires 3 - 4 wraps of wire rope for security. Contact the factory for cable drums with a larger cable storage capacity.

DIMENSIONS



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

DISTRIBUTOR

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