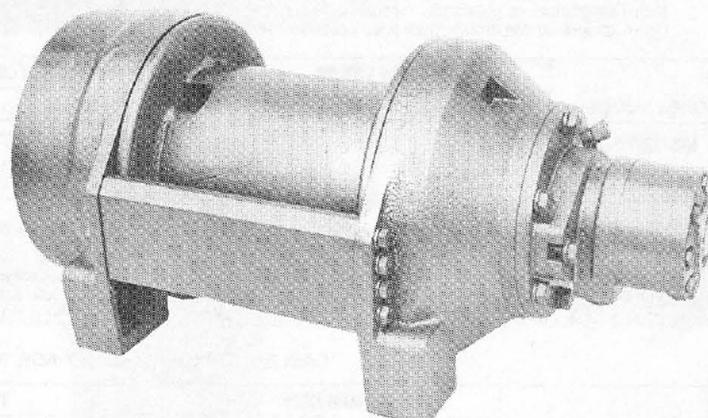


THE INTRAVENT

Ryan H. Click Here To Visit  
Hydraulic Service, Inc.

# M6

PLANETARY, HYDRAULIC WINCH



EQUAL SPEED  
EQUAL SPEED

MASTER

THE LOGICAL ALTERNATIVE

# MODEL M6 PLANETARY HYDRAULIC WINCH

## **DESCRIPTION**

The **PULLMASTER** Model M6 is a high performance, high efficiency planetary winch, having equal speed in both directions.

The unit is powered by a 'Nichols' 110 series hydraulic motor and the required reduction ratio of 9.25:1 is established by one planetary reduction stage.

The automatic, multi-disc type brake of the **PULLMASTER** Model M6 planetary winch is spring applied - pressure released and has static and dynamic function. An over-running clutch, installed between the motor drive shaft and the brake assembly, permits free rotation in 'hoisting' direction without affecting the brake. During 'lowering' operation hydraulic pressure from the reversing side of the hydraulic motor releases the brake. The over-running clutch locks causing the brake disc 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 of the **PULLMASTER** Model M6 planetary winch.

During lowering of a load the temperature generated by the disc brake is dissipated by a flow of hydraulic fluid supplied from the hydraulic motor. This circulation flow is vented internally and, therefore, there is no need for a drain line between winch and reservoir.

All moving parts of the **PULLMASTER** Model M6 planetary winch are totally enclosed and run in an oil bath. Anti-friction bearings are used on all turning components, assuring long, trouble-free service with a minimum requirement for maintenance.

## PERFORMANCE

Based on a hydraulic volume of 15 (US) gpm (57 l/min) at 2000 psi (141 kg/cm<sup>2</sup>) hydraulic pressure  
Drum revolution at maximum hydraulic volume = 27.8 RPM  
Drum torque at maximum hydraulic pressure = 26448 lb. in. (305 kpm)

MODEL NUMBER	BARE DRUM		MEAN DRUM		FULL DRUM	
	LINE PULL	LINE SPEED	LINE PULL	LINE SPEED	LINE PULL	LINE SPEED
M6-12-70-2	6612 lb. 3000 kp	58 f.p.m. 18 m/min	58.00 lb. 2632 kp	67 f.p.m. 20 m/min	4990 lb. 2264 kp	77 f.p.m. 24 m/min

- Volume and pressure stated are maximum and must not be exceeded.
  - When the **PULLMASTER** Model M6 is installed in an existing hydraulic circuit with a lesser volume and/or pressure, the performance will change. Performance graphs for line pull vs. oil pressure and line speed vs. oil volume are available upon request.

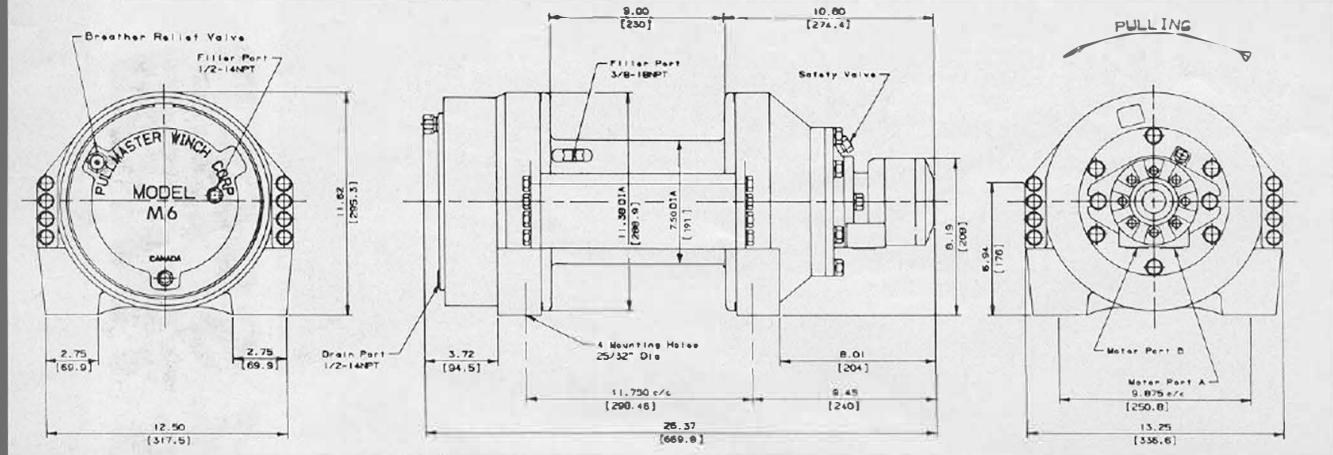
## CABLE STORAGE

## CABLE STORAGE CAPACITY FOR WIRE ROPE

MODEL NUMBER	DRUM SIZE			WIRE ROPE DIAMETERS (THEORETICAL)					
	BARREL	FLANGE	LENGTH	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"
M6-12-70-2	7-1/2" 191 mm	11-3/8" 289 mm	9" 229 mm	546 ft 167 m	369 ft 113 m	264 ft 81 m	199 ft 61 m	155 ft 47 m	124 ft 38 m

The cable anchor of the PULLMASTER Model M6 planetary winch is not designed to hold the rated maximum load. The cable drum requires 4-6 wraps of wire rope for safety.

## DIMENSIONS



**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 most oversea areas.

**IMPORTANT:**

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

DISTRIBUTOR

