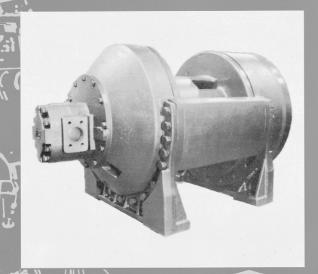
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M50

PLANETARY, HYDRAULIC WINCH



SUAL SPEED

Hull

MASTER

THE LOGICAL CHOICE

MODEL

PLANETARY HYDRAULIC WINCH

The PULLMASTER Model M50 is a high performance, high efficiency, planetary hydraulic winch having equal speed in both forward and reverse rotation. The automatic, multi-disc brake of this unit is effective in one direction only and achieves an exceptionally smooth lowering control of the rotation. The automatic, multi-disc stacke of this time is directive if not entirely and achieves an exceptionally shedur flowing control of the maximum rated load in a stepless operation. The PULL MASTER Model MSD planelary winch is powered by a hydraulic graar motor and the required reduction rate of 116: is established by three planelary reductions stages. In forward rotation (is lossing) the hydraulic motor drives direct into planetary reductions without affecting the brake assembly. When forward rotation is slopped, an over-running clutch between the brake assembly and the motor drive shaft will lock and the multi-disc brake will safely hold the maximum load. The multi-disc brake is spring applied and pressure released, requiring no calibration for fail-safe operation. When the hydraulic motor is powered for reverse rotation (lowering) the brake is released automatically and is then modulated for the desired lowering speed by a single control lever. A counter-balance valve or brake valve is not required for dynamic braking. All moving parts of the PULLMASTER Model M50 planetary winch are totally enclosed and run in an oil bath, assuring long, trouble free service with a minimum requirement for maintenance

• SPECIAL DRUM SIZE • FREESPOOLING • EXTERNAL BRAKE RELEASE • HYDRAULIC PISTON MOTORS • DRUM GROOVING

Maximum operating volume = 115 (US) gpm (435 l/min)

 Maximum operating pressure = 2500 psi (172 bar) • Drum rpm at maximum volume in both directions = 17.4 • Drum lorque at maximum pressure = 381250 lb-in (43075 Nm)

MÖDEL NUMBER	BARE DRUM		MEAN DRUM (THEORETICAL)	FULL DRUM		
	LINE PULL	LINE SPEED	LINE PULL	LINE SPEED	LINE PULL	LINE SPEE	
M50-7-86-1	50000 lb	69 fpm	42533 lb	84 fpm	35065 lb	99 fpm	
	222.4 kN	21 m/min	189.1 kN	26 m/min	155.9 kN	30 m/min	
M50-7-86-2	39610 lb	88 fpm	33465 lb	107 fpm	27320 lb	127 fpm	
	176.2 kN	27 m/min	148.9 kN	33 m/min	121.5 kN	39 m/min	

The volumetric requirement for the PULLMASTER Model M50 is the recommended maximum and should not be exceeded. When the PULLMASTER Model M50 is installed in existing hydraulic circuits with a lesser volume or lower pressure, the performance will change. Performance graphs for line speed vs. oil volume and line pull vs. hydraulic pressure are available upon request.

DRUM CABLE STORAGE CAPACITY FOR WIRE ROPE

MODEL NUMBER	DRUM SIZE			WIRE ROPE DIAMETER*						
	BARREL	FLANGE	LENGTH	9/16 in	5/8 in	3/4 in	7/8 in	1 in	1 1/8 in	1 1/4 in
M50-7-86-1	14 in	23.75 in	14 in	854 ft	691 ft	519 ft	375 ft	276 ft	195 ft	177 ft
	356 mm	603 mm	356 mm	260 m	211 m	158 m	114 m	84 m	59 m	54 m
M50-7- \$ 6-2	18 in	30 in	22 in	2309 ft	1725 ft	1341 ft	860 ft	654 ft	605 ft	440 ft
	457 mm	762 mm	559 mm	704 m	526 m	409 m	262 m	199 m	184 m	134 m

* Standard cable anchor is suitable for 3/4 = 1 1/2 inch diameter wire rone. For safety, 3 = 4 wraps of wire rope must be maintained at all times.

FILL & DRAIN PORT HOISTING FILL & DRAIN POR DRAIN PORT 4 MOUNTING HOLES 1-7/16" DIA. [36.5] [204] 12.0 CIRCULATION PORT 373 MODEL NUMBER Α B ы 14 in 14 in 43 in 17.63 in 26.75 in 14.63 in 21 in 27.50 in M50-7-86-1 356 mm 603 mm 356 mm 1089 mm 448 mm 680 mm 372 mm 533 mm 699 mm 18 in 30 in 22 in 51 in 25 63 in 30.5 in 15.5 in 24 in 33 13 in M50-7-86-2 457 mm 762 mm 559 mm 1290 mm 651 mm 775 mm 394 mm 610 mm 841 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 most overseas areas.

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



PMC 164