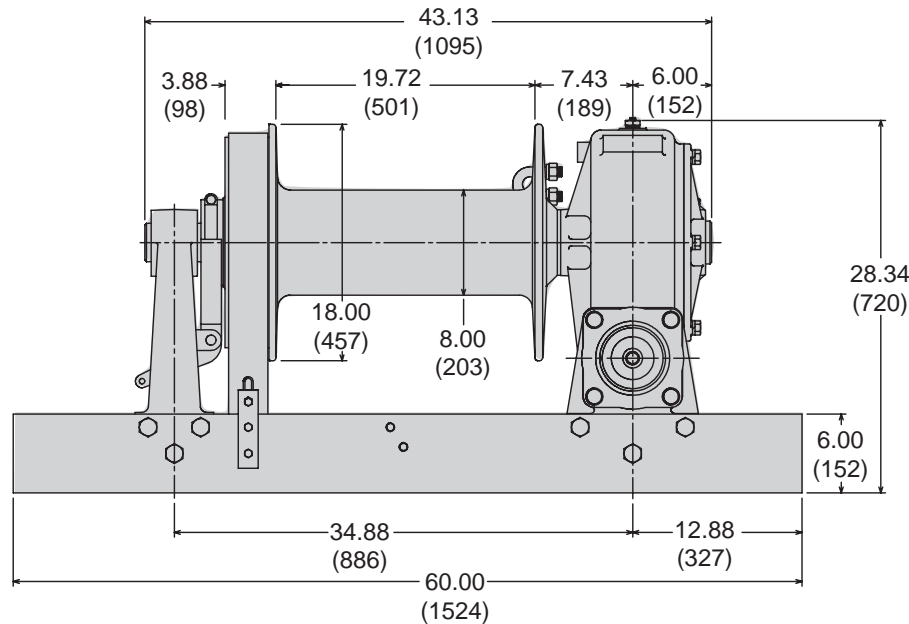


HS30P / MS30

60,000 LB First Layer Line Pull

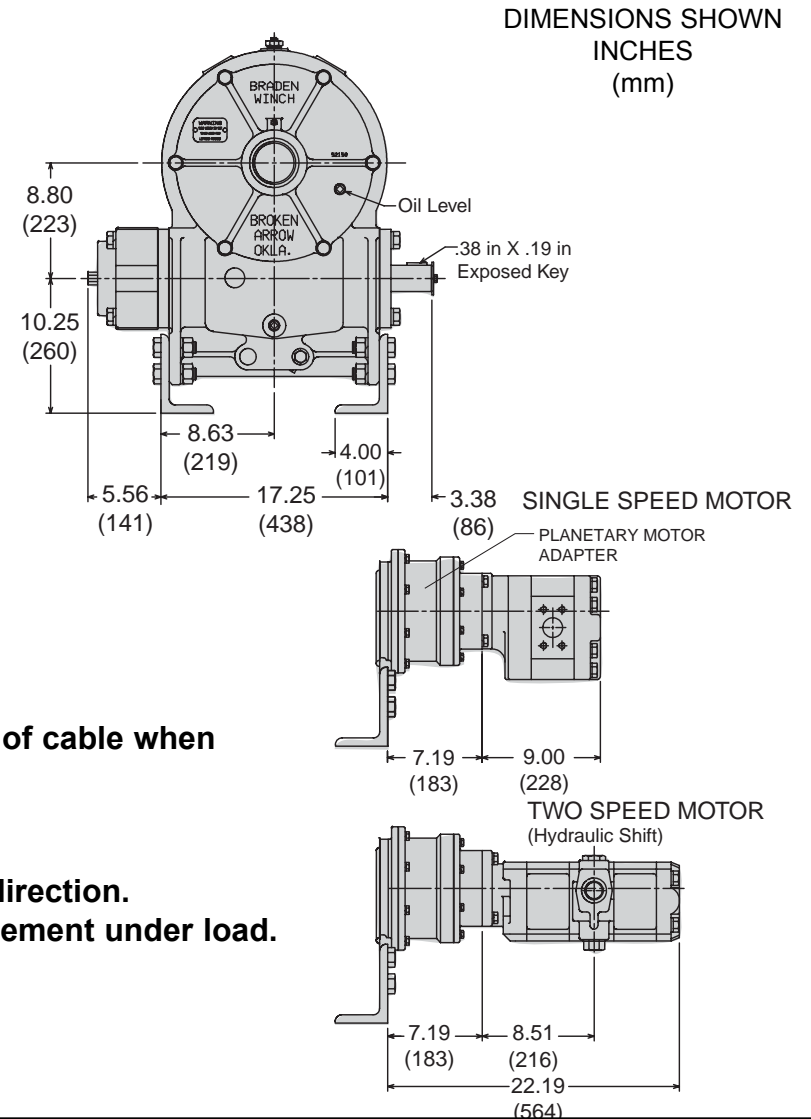
BRADEN®

DIMENSIONAL INFORMATION



RIGHT HAND ASSEMBLY SHOWN.

- Band brake around cable drum helps prevent “birdnesting” of cable when drum clutch is disengaged.
- Replaceable clutch jaws are bolted to cable drum.
- Oil-cooled, fully adjustable automatic worm brake.
- Thrust rings in gear housing handle drum thrusts in either direction.
- Freespool clutch with negative draft jaws for positive engagement under load.



PACCAR WINCH DIVISION

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COMMITMENT

Every process in the design, manufacture and support of BRADEN products is focused on one goal: Providing the highest quality winch, hoist and drive systems in the world.

PACCAR Winch Division is committed to providing the best in product design, durability and reliability. BRADEN products are supported with comprehensive publications, factory service representatives and a world wide distribution network.

Since 1905 PACCAR Inc has provided high quality products and services to numerous markets and countries. Let us put our experience and expertise to work for you.

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PERFORMANCE FORMULAS

LINE PULL AT LOWER PRESSURE

$$\frac{\text{YOUR SYSTEM PRESSURE}}{\text{MAXIMUM PRESSURE (FROM CHART)}} \times \text{LINE PULL FROM CHART} = \text{LINE PULL ESTIMATE}$$

EXAMPLE:

$$\frac{1000 \text{ PSI}}{2300 \text{ PSI}} \times 35,000 \text{ LBS} = 15,217 \text{ LBS}$$

NOTES

Specifications are subject to change without notification and without incurring obligation.

Pressure and flow shown are the maximum allowable for the particular combination of winch, ratio, motor and drum.

Specifications in this publication are theoretical and may vary depending on hydraulic system, environment, etc.

Line pulls are maximum ratings for the winch only.

Wire rope ratings may be lower than the the winch rating. Consult the wire rope manufacturer for ratings.

PERFORMANCE INFORMATION

Single Speed Performance

9.03 cu in. (148 cc)
2,500 Δ psi (172 Δ bar) @ 75 gpm (284 lpm)

3/4 in. WIRE ROPE						
LAYER	LINE PULL		LINE SPEED		ROPE CAPACITY	
	(lbs)	(kg)	(fpm)	(mpm)	(ft)	(m)
1	60,000	27,270	13	4.0	42	12.8
2	50,100	22,770	15	4.6	93	28.4
3	43,000	19,544	18	5.5	154	47.0
4	37,700	17,135	20	6.1	224	68.3
5	33,500	15,226	23	7.0	304	92.7

2-Speed Performance

12.75/6.4 cu in. (209/105 cc)
1250 Δ psi (86 Δ bar) @ 85 gpm (320 lpm)

Layer	Low Speed				High Speed			
	LINE PULL		LINE SPEED		LINE PULL		LINE SPEED	
	(lbs)	(kg)	(fpm)	(mpm)	(lbs)	(kg)	(fpm)	(mpm)
1	60,000	27,000	10	3.0	23,100	10,400	21	6.3
2	49,000	22,100	12	3.6	18,900	8,500	26	7.8
3	41,500	18,700	14	4.2	16,000	7,200	31	9.3
4	36,000	16,200	16	4.8	13,900	6,300	25	7.5
5	31,700	14,300	18	5.4	12,200	5,500	40	12.0

WIRE ROPE CAPACITY

ROPE SIZE	LAYER									
	1		2		3		4		5	
in.	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)
7/8	47	14.3	104	31.7	170	51.8	246	75.0	331	100.9
1	42	12.8	93	28.3	154	46.9	224	68.3	304	92.7
1 1/8	38	11.6	85	25.9	142	43.3	208	63.4		

WIRE ROPE CAPACITY IS 90% OF THEORITICAL.

⚠ WARNING ⚠

The products described herein are neither designed nor intended for use or application to equipment used in lifting or moving of persons.

⚠ WARNING ⚠

A minimum of 5 wraps of wire rope must be left on the drum to prevent the load from being supported by the wire rope anchor alone. Since the wire rope anchor is not designed to hold the rated load, failure to leave 5 wraps of wire rope on the drum could cause the load to drop, which could result in property damage, personal injury or death.

ENGINEERING DATA

Worm Gear Ratio.....39:1
Planetary Drive Ratio.....7.75:1
Oil Capacity.....24 pints
Input Shaft Diameter.....2 in. (50.80 mm)
Weight - (Winch Only)...1252 lbs. (568 kg)

MECHANICAL REQUIREMENTS:

Static Input Torque		Dynamic Input Torque		Max Input
lb-in	N-m	lb-in	N-m	RPM
21,600	2,441	16,100	1,819	220