

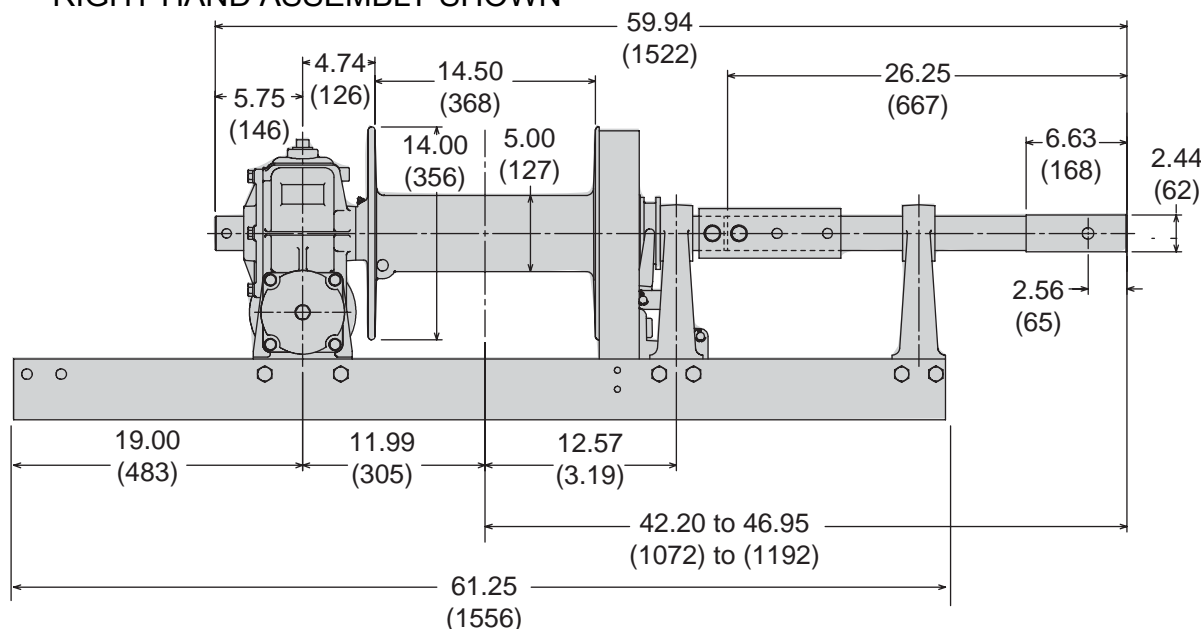
AHS7 / AMS7 with Extension Shaft

20,000 LB First Layer Line Pull

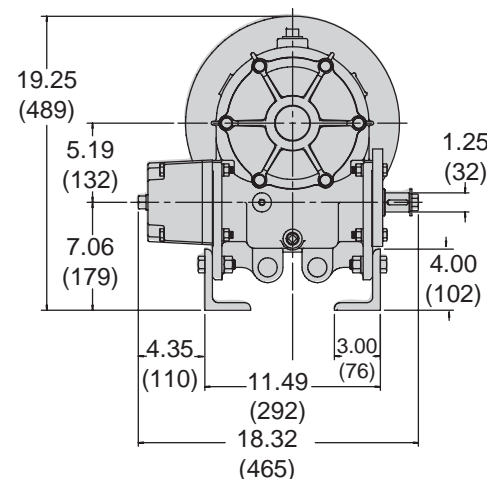
BRADEN®

DIMENSIONAL INFORMATION

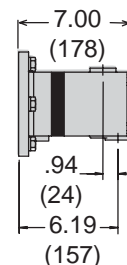
RIGHT HAND ASSEMBLY SHOWN



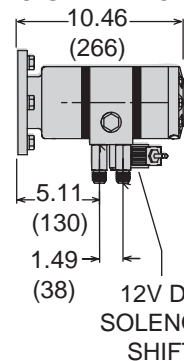
DIMENSIONS SHOWN
INCHES
(mm)



SINGLE-SPEED MOTOR

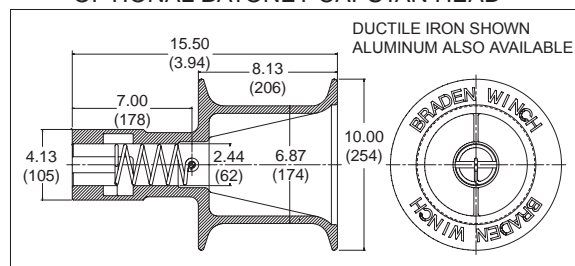


TWO-SPEED MOTOR

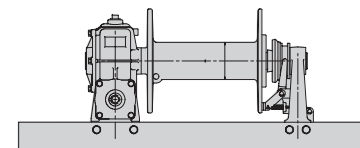


EXTENSION SHAFT CAN BE MOUNTED CURBSIDE OR STREET SIDE.
MAXIMUM EXTENSION SHAFT RATING: 3,200 LBS. (1,452 KG) (BASED ON 7 in. CAPSTAN)
(SEE SERVICE BULLETIN 539 FOR INSTALLATION INSTRUCTIONS)

OPTIONAL BAYONET CAPSTAN HEAD



- Tested in compliance with SAE Specification J706.
- High-strength aluminum bronze worm gear for increased pulling power and long gear life.
- Oil-cooled, fully adjustable automatic worm brake.
- Freespool clutch with negative draft jaws for positive engagement under load.
- One piece cast ductile housing.
- Heat treated alloy steel drum shafts for extra load capacity.



FOR BASE MODEL SPECIFICATIONS
SEE LIT2027

PACCAR WINCH DIVISION

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WIRE ROPE CAPACITY

ROPE SIZE	LAYER									
	1	2	3	4	5	6	7	8	9	10
in.	ft (m)	ft (m)	ft (m)	ft (m)	ft (m)	ft (m)	ft (m)	ft (m)	ft (m)	ft (m)
7/16	41 12.5	89 27.1	144 43.9	205 62.5	273 83.2	348 106.1	429 130.8	517 157.6	612 186.5	714 217.6
1/2	36 11.0	79 24.1	129 39.3	186 56.7	249 75.9	319 97.2	396 120.7	479 146.0	569 173.4	
9/16	33 10.1	72 21.9	118 36.0	171 52.1	231 70.4	297 90.5	370 112.8	450 137.2		
5/8	30 9.1	66 20.1	109 33.2	159 48.5	216 65.8	279 85.0	349 106.4			

WIRE ROPE CAPACITY IS 90% OF THEORITICAL.

PERFORMANCE FORMULAS

LINE PULL AT LOWER PRESSURE

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

LINE SPEED AT LOWER FLOW

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

PERFORMANCE INFORMATION

Single-Speed Performance

24.0 cu in. (393 cc)

2100 Δ psi (145 Δ bar) @ 45 gpm (170 lpm)

5/8 in. WIRE ROPE						
LAYER	LINE PULL		LINE SPEED		ROPE CAPACITY	
	(lbs)	(kg)	(fpm)	(mpm)	(ft)	(m)
1	20,000	9,090	24	7.3	30	9.2
2	16,360	7,436	29	8.8	66	20.1
3	13,850	6,295	35	10.7	109	33.2
4	12,000	5,454	40	12.2	159	48.5
5	10,590	4,813	45	13.7	216	65.9
6	9,470	4,304	51	15.6	279	85.1
7	8,570	3,895	56	17.1	349	106.4

⚠ 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.....25:1
Input Shaft Diameter.....1.25" (31.75 mm)
Oil Capacity.....3 pints
Weight - (winch with extension shaft)....460 lbs. (207) kg

MECHANICAL REQUIREMENTS:

Static Input Torque		Dynamic Input Torque		Max Input
lb-in	N-m	lb-in	N-m	RPM
5,900	667	4,500	509	400

2-Speed Performance

25.8/12.9 cu in. (423/211 cc)

1,700 Δ psi (117 Δ bar) @ 30 gpm (114 lpm)

Extension Shaft Speed

19 rpm - High
10 rpm Low

Layer	Low Speed				High Speed			
	LINE PULL		LINE SPEED		LINE PULL		LINE SPEED	
	(lbs)	(kg)	(fpm)	(mpm)	(lbs)	(kg)	(fpm)	(mpm)
1	20,000	9,000	14	4.2	9,000	4,100	28	8.4
2	16,400	7,400	17	5.1	7,400	3,300	34	10.2
3	13,800	6,200	20	6.0	6,200	2,800	40	12.0
4	12,000	5,400	23	6.9	5,400	2,400	47	14.1
5	10,600	4,800	26	7.8	4,800	2,200	53	15.9
6	9,500	4,300	30	9.0	4,300	1,900	59	17.7
7	8,600	3,900	33	9.9	3,900	1,800	65	19.5

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.