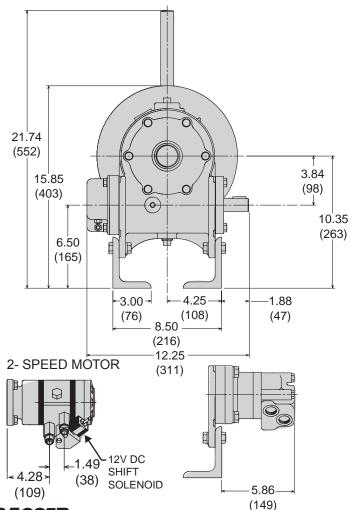
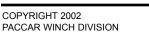
AHS3 / AMS3 10,000 LB First Layer Line Pull

BRADEN_®

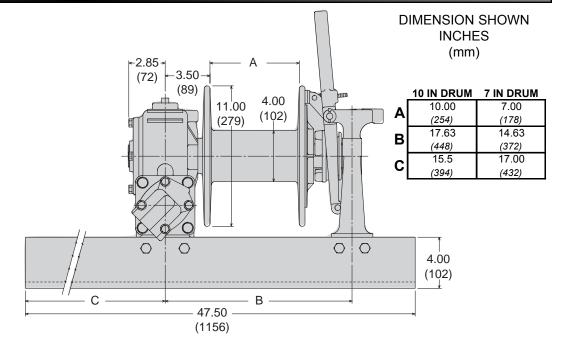


P.O. Box 547 Broken Arrow, Oklahoma 74013

P.O. Box 547 Broken Arrow, Oklahoma 74013 PHONE: (918) 251-8511 FAX: (918) 259-1575 **www.paccarwinch.com**







- Tested in compliance with SAE Specification J706.
- Rugged and compact design.
- Adjustable dry band type worm brake.
- High strength aluminum bronze worm gear for increased pulling power and long gear life.
- Freespool clutch with negative draft jaws for positive engagement under load.
- Automatic drag brake helps prevent drum from back spinning when in freespool mode.

WIRE ROPE CAPACITY

	7 IN DRUM																	
ROPE		LAYER																
SIZE		1		2		3	4	4	i	5		6		7		8		9
in.	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)
1/2	15	4.6	33	10.1	55	16.8	80	24.4	110	33.5	140	42.7	175	53.3				
7/16	17	5.2	37	11.3	60	18.3	90	27.4	120	36.6	150	45.7	180	54.9	230	70.1		
3/8	20	6.1	42	12.8	70	21.3	95	29.0	130	39.6	165	50.3	200	61.0	250	76.2	300	91.4

10 IN DRUM

ROPE		LAYER																
SIZE		1		2		3	4	4	i	5		6		7		8		9
in.	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)
1/2	21	6.4	47	14.3	80	24.4	115	35.1	155	47.2	200	61.0	250	76.2				
7/16	24	7.3	53	16.2	85	25.9	125	38.1	170	51.8	215	65.5	260	79.2	325	99.1		
3/8	28	8.5	60	18.3	100	30.5	135	41.1	185	56.4	235	71.6	290	88.4	350	106.7	420	128.0

WIRE ROPE CAPACITY IS 90% OF THEORETICAL.

PERFORMANCE FORMULAS

LINE PULL AT LOWER PRESSURE YOUR SYSTEM PRESSURE LINE PULL LINE PULL LINE PULL									
MAXIMUM PRESSURE (FROM CHART)	X FROM CHART =	ESTIMATE							
LINE SPEED AT LOWER FLOW									

YOUR SYSTEM FLOW MAXIMUM FLOW (FROM CHART)
X LINE SPEED FROM CHART = LINE SPEED ESTIMATE

🛦 WARNING 🛦

A minimun 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.

A WARNING A

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

PERFORMANCE INFORMATION

Single Speed Performance

9.6 cu in. (157 cc)

2500 ∆ psi (172 ∆ bar) @ 18 gpm (68 lpm)

	1/2 in. WIRE ROPE										
R	LINE P		LINE S	DEED	ROPE CAPACITY						
LAYER		OLL	LINE 3	PEED	7.00 in	. Drum	10.00 in. Drum				
ב	(lbs)	(kg)	(fpm)	(mpm)	(ft)	(<i>m</i>)	(ft)	(<i>m</i>)			
1	10,000	4,545	16	4.9	15	4.6	21	6.4			
2	8,200	3,727	20	6.1	33	10.1	47	14.3			
3	6,900	3,136	24	7.3	55	16.8	80	24.4			
4	6,000	2,727	27	8.2	80	24.4	115	35.1			
5	5,300	2,409	31	9.5	110	33.6	155	47.3			
6	4,700	2,136	34	10.4	140	42.7	200	61.0			
7	4,300	1,954	38	11.6	175	53.4	250	76.3			

2-Speed Performance

10.8/5.4 cu in. (177/89 cc)

1,800 Δ psi (124 Δ bar) @ 22 gpm (83 lpm)

er		Low Sp	beed		High Speed						
aye	LINE PULL		LINES	SPEED	LINE	PULL	LINE SPEED				
	(lbs)	(kg)	(fpm)	(mpm)	(lbs)	(kg)	(fpm)	(mpm)			
1	10,000	4,500	17	5.1	4,500	2,000	34	10.2			
2	8,200	3,700	21	6.3	3,700	1,700	42	12.6			
3	6,900	3,100	25	7.5	3,100	1,400	78	23.4			
4	6,000	2,700	28	8.4	2,700	1,200	113	33.9			
5	5,300	2,400	32	9.6	2,400	1,100	158	47.4			
6	4,700	2,100	36	10.8	2,100	900	207	62.1			
7	4,300	1,900	40	12.0	1,900	900	262	78.6			

ENGINEERING DATA

Worm Gear Ratio	
Oil Capacity	0.75 pints
Input Shaft Diameter	1 in. (25.40 mm)
Weight - 7 in. Drum (Winch Only)	205 lbs. (93 kg)
Weight - 10 in. Drum (Winch Only)	210 lbs. <i>(</i> 95 kg)

AHS3 / AMS3

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 theoritical 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. MECHANICAL REQUIREMENTS: Static Input Dynamic Input Torque Max Input Torque lb-in N-m lb-in N-m RPM 2.770 313 2,000 226 400

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