

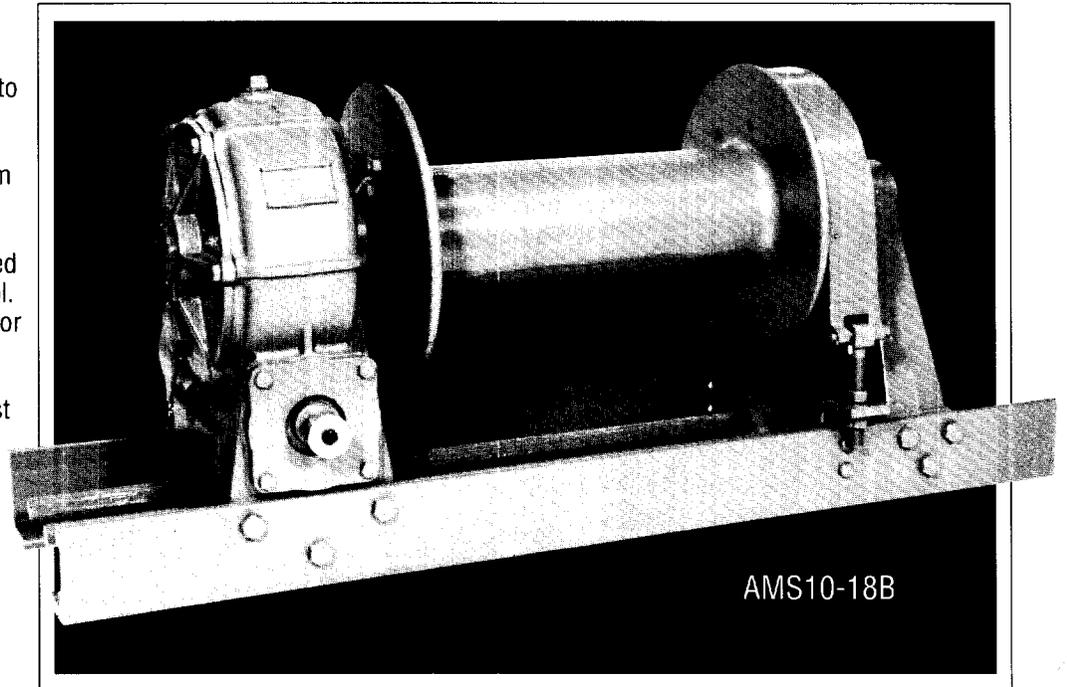
# FEATURES

## MODEL AHS10/AMS10

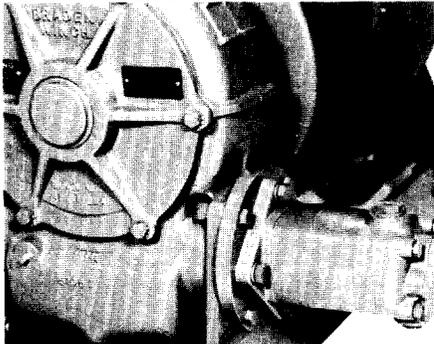
### FEATURES

- Tested in compliance with SAE J706 to twice rated load to confirm structural integrity.
- High-strength aluminum bronze worm gear for increased pulling power and long gear life.
- Famous BRADEN adjustable oil-cooled worm brake for optimum load control.
- Heat-treated alloy steel drum shafts for extra load capacity.
- Tapered roller bearings provide extra capacity in carrying worm thrust and radial loads.
- Free spool clutch with replaceable negative draft jaws for positive engagement.
- Housing: Ductile casting, specially designed in one piece for greater strength and lighter weight.

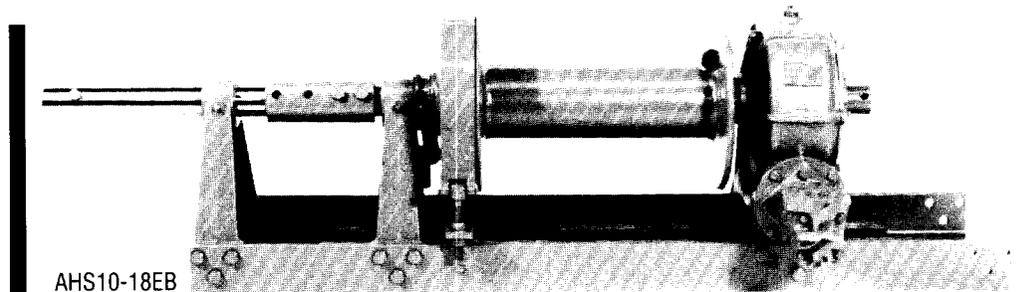
23in. HIGH-CAPACITY DRUM IS ALSO AVAILABLE.



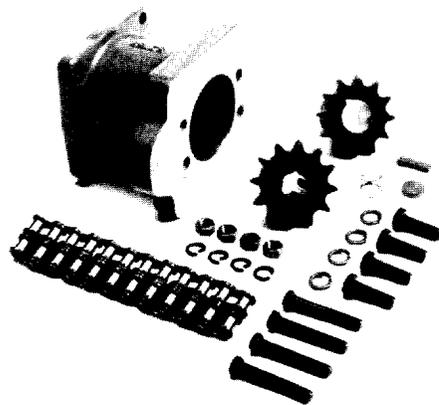
### OPTIONS



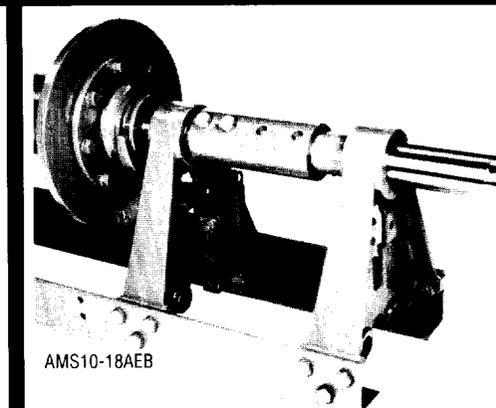
Direct drive single or two-speed hydraulic motors.



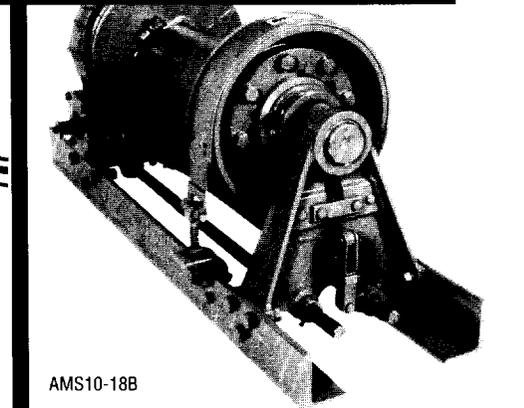
Braden can also supply bayonet type captans  
Extension shafts made to AT&T specifications for capstan or collapsible reel use.



Adaptors for a variety of other hydraulic motors.



Remote operated clutch and/or drag brake.  
Extension shaft option available on A or B models.

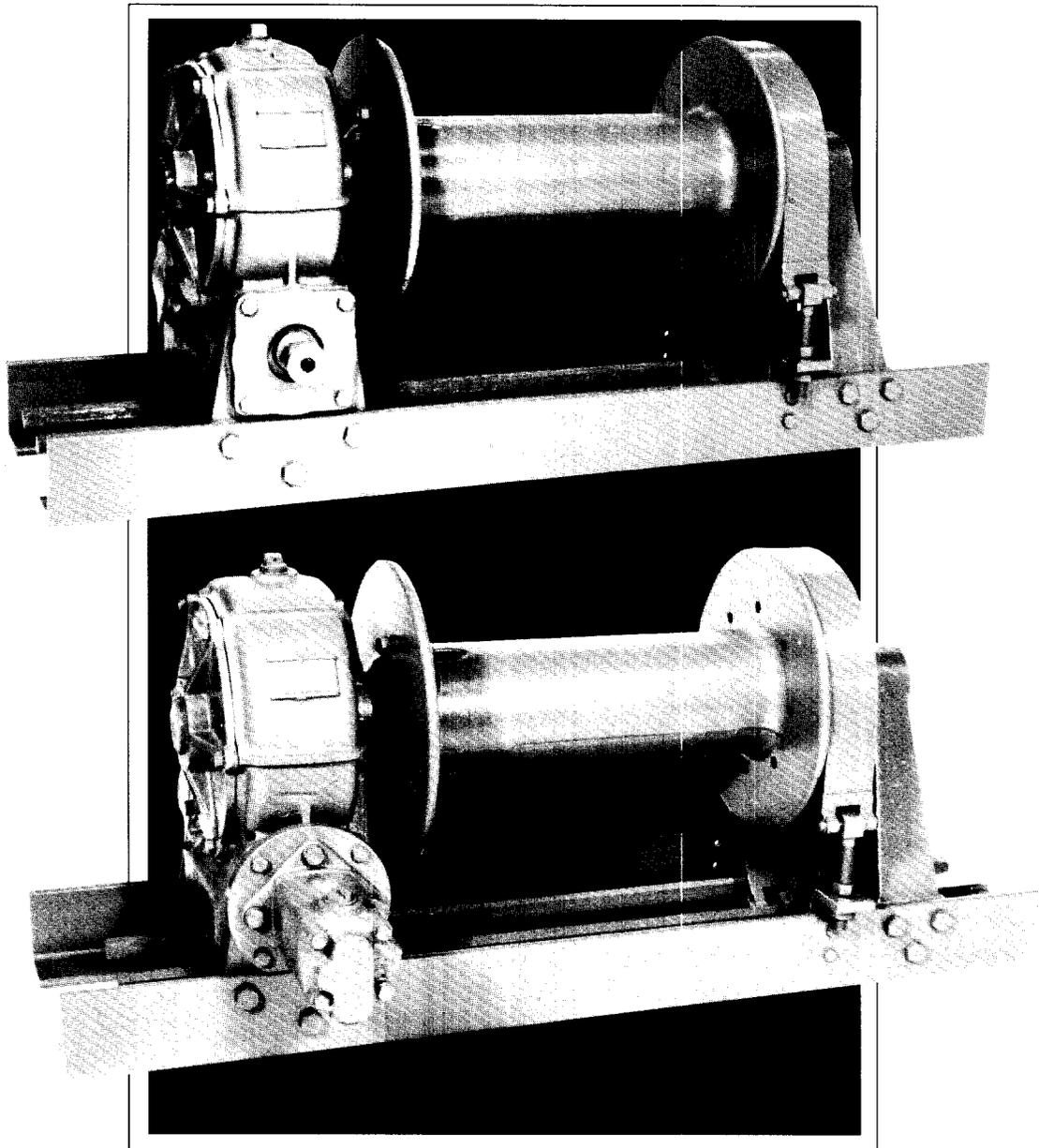


Band type drag brake for better free spool cable control. Control rod levers included with remote option.

# BRADEN

## MODEL AHS10/AMS10

### HYDRAULIC OR MECHANICALLY DRIVEN WORM GEAR WINCH



**30,000 LBS FIRST LAYER LINE PULL**

Rated in compliance with SAE specification J706

***PACCAR WINCH DIVISIONS***

P.O. Box 547 Broken Arrow, OK 74013  
Phone: (918) 251-8511 Fax: (918) 258-4822

# PERFORMANCE DATA

## MODEL AHS10/AMS10

12" 18" 23"

### MECHANICAL DRIVE

Starting Input Torque (Static) lbs-in.....8,070 lbs. in.

Input Torque to Operate Winch (Dynamic) lbs-in.....6,140 lbs. in.

Maximum Input R.P.M. @ rated load.....330

Worm Gear Ratio.....33:1

Input Shaft Diameter(in.).....1.25 (1.365 X 5/16 key)

WIRE ROPE SIZE (in.)	LAYER	18" DRUM			23" DRUM		
		LINE PULL (LBS.)	LINE SPEED (FPM)	5/8 WIRE ROPE CAPACITY (FT)*	LINE PULL (LBS.)	LINE SPEED (FPM)	5/8 WIRE ROPE CAPACITY (FT)*
5/8	1	30,000	17	44	23,000	23	75
	2	25,240	20	97	20,090	26	160
	3	21,780	23	158	17,830	29	257
	4	19,160	27	228	16,030	32	364
	5	17,100	30	306	14,560	37	482
	6	15,440	33	393	13,340	39	611

### HYDRAULIC DRIVE

#### Direct Mount Single-Speed Motor

AHS10 with CHAR-LYNN 2,000 Series 24.0 cu. in. Hydraulic Motor 2,800 P.S.I. @ flows up to 35 G.P.M.

1st Layer Line Pull..... 30,000 lbs. @ 2,800 P.S.I. Static

1st Layer Line Speed.....17 F.P.M. @ 35 G.P.M.

#### Direct Mount Two-Speed Motor

AHSU10 with CHAR-LYNN 2,000 Series 24.0/12.0 cu.in.Two-Speed Hydraulic Motor 2,800 P.S.I. @ flows up to 28 G.P.M.

1st Layer Line Pull.....30,000/12,100 lbs.@ 2,800 P.S.I.Static

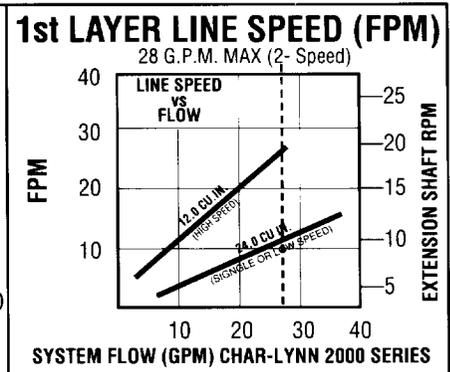
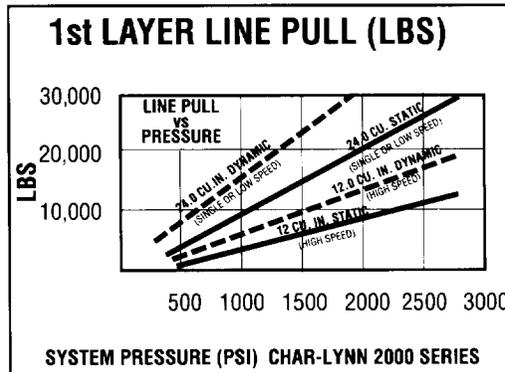
1st Layer Line Speed..... 13/26 F.P.M. @ 28 G.P.M.

See chart above for layer-by-layer performance.

Two-speed hydraulic motor allows line speed to be doubled at light loads while retaining maximum pulling power in low-speed mode.

### FIRST LAYER PERFORMANCE

These two charts show first layer performance with the factory supplied Char-Lynn 2000 series hydraulic motor. Note that oil flow for two-speed motors should be limited to 28 GPM for satisfactory motor service life.



### ACCUMULATIVE WIRE ROPE CAPACITY (ft)

\*Line pulls are maximum ratings for the winch only and are shown for comparison purposes. Line pull ratings for the wire rope in most cases are much lower than those shown. Consult the wire rope manufacturer's ratings for the rope to be used.

WIRE ROPE CAPACITY - 90% THEORETICAL								
LAYER		1ST	2ND	3RD	4TH	5TH	6TH	7TH
CABLE SIZE*	3/4	38	84	139	202	274		
	5/8	44	97	158	228	306	393	
	9/16	49	106	172	246	329	420	520

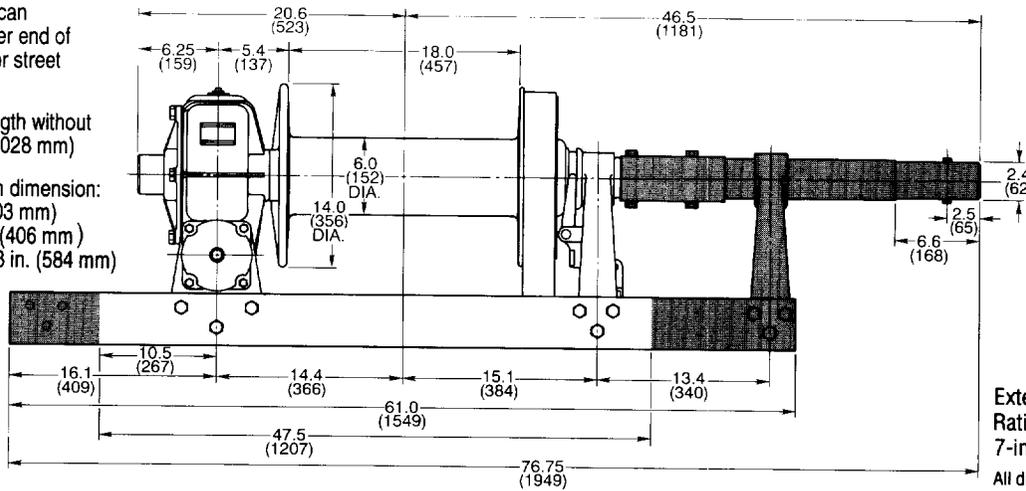
# DIMENSIONAL INFORMATION

## MODEL AHS10/AMS10

EB extension shaft can be mounted on either end of winch for curbside or street side applications.

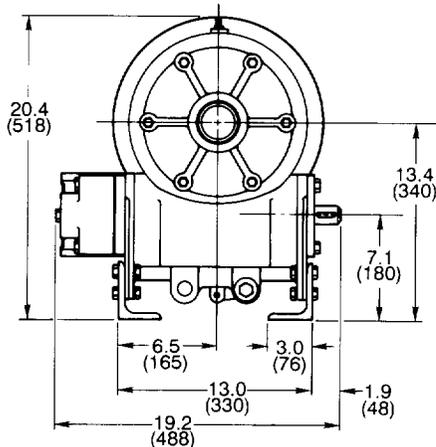
Maximum winch length without base angles 40.5 (1028 mm)

Optional 23-in. drum dimension:  
Barrel diam, 8 in. (203 mm)  
Flange diam, 16 in. (406 mm)  
Between Flanges 23 in. (584 mm)

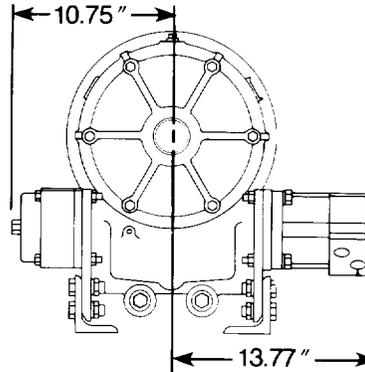


Extension Shaft Rating with 7-in. Capstan 4,300 lbs; All dimensions are in inches (mm).

### MECHANICAL

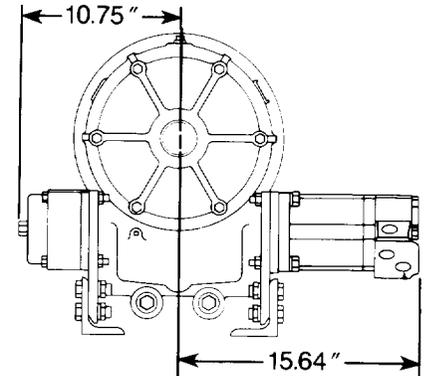


### SINGLE-SPEED HYDRAULIC



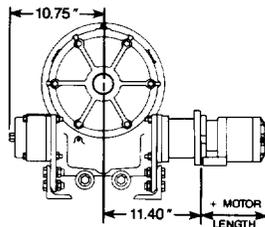
Motor Ports  
7/8-140-Ring Boss  
(1 1/16-12 if ports are 180° apart)  
Field Conversion Kit 61856\*

### TWO-SPEED HYDRAULIC



Shift Port (Pressurize For High Speed)  
7/16-20 O-Ring  
Field Conversion Kit 61857\*

### CONVENTIONAL HYDRAULIC MOTOR ADD-ON ADAPTERS FOR AMS10



KIT NO.	MOTOR FLANGE	MOTOR SHAFT
61342	SAE "A" 2 Bolt or 4 Bolt (Mod.)	6B Spline
61507	SAE "A" 2 Bolt or 4 Bolt (Mod.)	14T Spline
61837	SAE "B" 2 Bolt or 4 Bolt	1 1/4" Keyed
61341	SAE "C" 2 Bolt or 4 Bolt	14T Spline
61340	SAE "C" 2 Bolt or 4 Bolt	17T Spline

NOTE: HYDRAULIC MOTOR PURCHASED SEPARATELY.

### UNIT WEIGHTS

AMS10-18 520 LBS • AMS10-18A 530 LBS  
AMS10-18B • 545 LBS  
Single-Speed Hydraulic Motor Add 21 LBS  
Two-Speed Hydraulic Motor Add 26 LBS  
Extension Shaft (EB) Add 95 LBS

### WARNING

Visually check that the drum clutch is fully engaged before operating the winch drum under load!

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

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

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AND WITHOUT INCURRING OBLIGATION.

\*Includes hydraulic motor

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