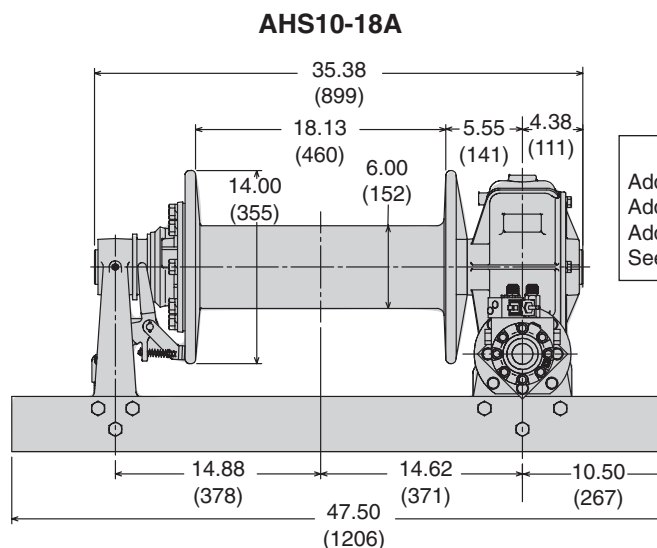
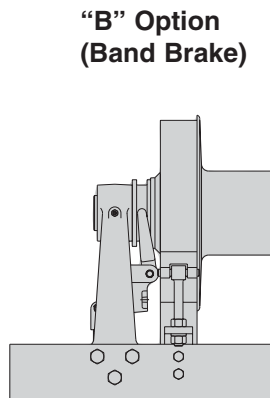


# AHS10 / AMS10

## 30,000 LB First Layer Line Pull

# BRADEN®

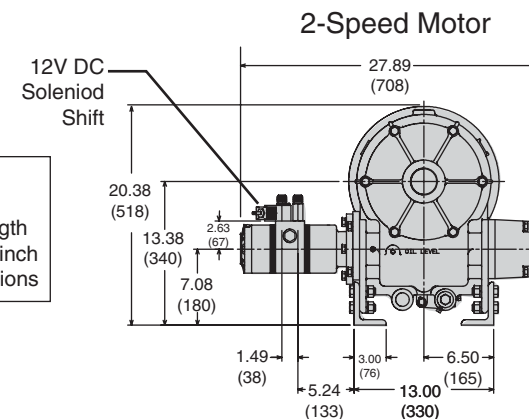
### DIMENSIONAL INFORMATION



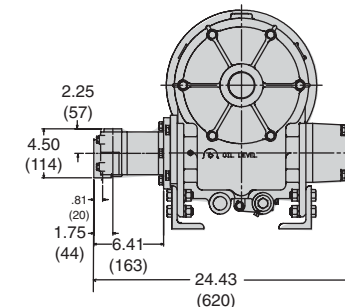
DIMENSIONS SHOWN  
INCHES  
(mm)

**Optional 23 in. Drum**

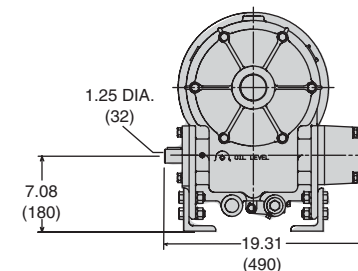
Add 1 inch to height  
Add 9 inches to base angle length  
Add 6-7/8 inches to length of winch  
See back side for drum dimensions



**Single Speed Motor**



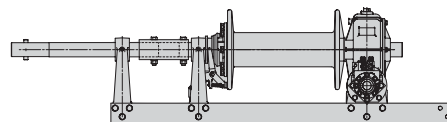
**Mechanical Drive**



- Tested in compliance with SAE Specification J706
- High-strength aluminum bronze worm gear for long gear life
- Rugged and compact design
- Oil-cooled, fully adjustable automatic worm brake
- Tapered roller bearings provide extra capacity in carrying worm thrust and radial loads
- Heat treated alloy steel drum shaft for extra load capacity
- Freespool clutch with negative draft jaws for positive engagement under load

### OPTIONS

- A - Remote Operated Drum Clutch/Drag Brake**
- B - Remote Operated Drum Band Brake**
- 23 inch Drum**
- AT&T Extension Shaft (see LIT2032)**
- Hydraulic Motor Adapters for Mechanical Drive Winches**



See LIT2032 for Extension Shaft Models

### PACCAR WINCH DIVISION

P.O. Box 547 Broken Arrow, Oklahoma 74013  
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**PERFORMANCE INFORMATION**

**Single Speed Motor**  
**5/8 in. Wire Rope**

| LAYER | 18 in. Drum |        |            |       | 23 in. Drum |        |            |       |
|-------|-------------|--------|------------|-------|-------------|--------|------------|-------|
|       | LINE PULL   |        | LINE SPEED |       | LINE PULL   |        | LINE SPEED |       |
|       | (lbs)       | (kg)   | (fpm)      | (mpm) | (lbs)       | (kg)   | (fpm)      | (mpm) |
| 1     | 30,000      | 13,635 | 17         | 5.2   | 23,000      | 10,454 | 23         | 7.0   |
| 2     | 25,240      | 11,472 | 20         | 6.1   | 20,090      | 9,131  | 26         | 7.9   |
| 3     | 21,780      | 9,899  | 23         | 7.0   | 17,830      | 8,104  | 29         | 8.8   |
| 4     | 19,160      | 8,708  | 27         | 8.2   | 16,030      | 7,286  | 32         | 9.8   |
| 5     | 17,100      | 7,772  | 30         | 9.2   | 14,560      | 6,618  | 37         | 11    |
| 6     | 15,440      | 7,017  | 33         | 10    | 13,340      | 6,063  | 39         | 12    |

**Two Speed Motor**  
**5/8 in. Wire Rope**

| LAYER | 18 in. Drum |        |            |       |            |       |            |       |
|-------|-------------|--------|------------|-------|------------|-------|------------|-------|
|       | Low Speed   |        |            |       | High Speed |       |            |       |
|       | LINE PULL   |        | LINE SPEED |       | LINE PULL  |       | LINE SPEED |       |
|       | (lbs)       | (kg)   | (fpm)      | (mpm) | (lbs)      | (kg)  | (fpm)      | (mpm) |
| 1     | 30,000      | 13,635 | 12         | 3.7   | 13,500     | 6,136 | 25         | 7.6   |
| 2     | 25,240      | 11,472 | 15         | 4.6   | 11,400     | 5,181 | 30         | 9.2   |
| 3     | 21,780      | 9,899  | 17         | 5.2   | 9,800      | 4,454 | 34         | 10    |
| 4     | 19,160      | 8,708  | 20         | 6.1   | 8,600      | 3,909 | 39         | 12    |
| 5     | 17,100      | 7,772  | 22         | 6.7   | 7,700      | 3,500 | 44         | 13    |
| 6     | 15,440      | 7,017  | 24         | 7.3   | 6,900      | 3,136 | 49         | 15    |

| LAYER | 23 in. Drum |        |            |       |            |       |            |       |
|-------|-------------|--------|------------|-------|------------|-------|------------|-------|
|       | Low Speed   |        |            |       | High Speed |       |            |       |
|       | LINE PULL   |        | LINE SPEED |       | LINE PULL  |       | LINE SPEED |       |
|       | (lbs)       | (kg)   | (fpm)      | (mpm) | (lbs)      | (kg)  | (fpm)      | (mpm) |
| 1     | 23,000      | 10,454 | 16         | 7.3   | 10,500     | 4,772 | 33         | 15    |
| 2     | 20,100      | 9,135  | 18         | 8.2   | 9,160      | 4,163 | 37         | 17    |
| 3     | 17,900      | 8,136  | 21         | 10    | 8,130      | 3,695 | 42         | 19    |
| 4     | 16,100      | 7,317  | 23         | 10    | 7,310      | 3,322 | 47         | 21    |
| 5     | 14,600      | 6,636  | 26         | 12    | 6,640      | 3,018 | 52         | 24    |
| 6     | 13,400      | 6,090  | 28         | 13    | 6,080      | 2,763 | 57         | 26    |

**HYDRAULIC REQUIREMENTS:**

| MOTOR            | Max. Δ PSI | Max. (Δ bar) | Max. gpm | Max. (lpm) |
|------------------|------------|--------------|----------|------------|
| 24.0 cu in.      | 2,800      | 193          | 35       | 132        |
| 25.8/12.9 cu in. | 2,300      | 159          | 30       | 114        |

**MECHANICAL REQUIREMENTS:**

| Static Input Torque |     | Dynamic Input Torque |     | Max Input* |
|---------------------|-----|----------------------|-----|------------|
| lb-in               | N-m | lb-in                | N-m | RPM        |
| 8,070               | 912 | 6,140                | 694 | 330        |

\* AT RATED LOAD

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

**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.

**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:

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

**LINE SPEED AT LOWER FLOW**

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

EXAMPLE:

$$\frac{25 \text{ GPM}}{125 \text{ GPM}} \times 200 \text{ FPM} = 40 \text{ FPM}$$

**ENGINEERING DATA**

- Worm Gear Ratio .....33:1
- Oil Capacity .....5 pints (2.4 L)
- Weights:
- AMS10-18 .....480 lbs (218 kg)
- AMS10-18B .....510 lbs (231 kg)
- Single Speed Motor .....add 23 lbs (10 kg)
- Two Speed Motor .....add 53 lbs (24 kg)
- 23 inch drum .....add 20 lbs (9 kg)

**⚠ WARNING ⚠**

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

**WIRE ROPE CAPACITY**

**18" Drum - (6.00B x 14.00F x 18.13L)**

| ROPE SIZE | LAYER |     |    |     |     |      |     |      |     |      |     |     |
|-----------|-------|-----|----|-----|-----|------|-----|------|-----|------|-----|-----|
|           | 1     |     | 2  |     | 3   |      | 4   |      | 5   |      | 6   |     |
| in.       | ft    | (m) | ft | (m) | ft  | (m)  | ft  | (m)  | ft  | (m)  | ft  | (m) |
| 3/4       | 38    | 12  | 84 | 26  | 139 | 42.4 | 202 | 61.6 | 274 | 83.5 |     |     |
| 5/8       | 44    | 13  | 97 | 30  | 158 | 48.2 | 228 | 69.5 | 306 | 93.3 | 393 | 120 |

**23" Drum - (8.00B x 16.00F x 22.94L)**

|     |    |    |     |    |     |      |     |     |     |     |     |     |
|-----|----|----|-----|----|-----|------|-----|-----|-----|-----|-----|-----|
| 3/4 | 70 | 21 | 152 | 46 | 246 | 75.0 | 352 | 107 | 470 | 143 |     |     |
| 5/8 | 75 | 23 | 160 | 49 | 257 | 78.3 | 364 | 111 | 482 | 147 | 611 | 186 |

WIRE ROPE CAPACITY IS 90% OF THEORETICAL.