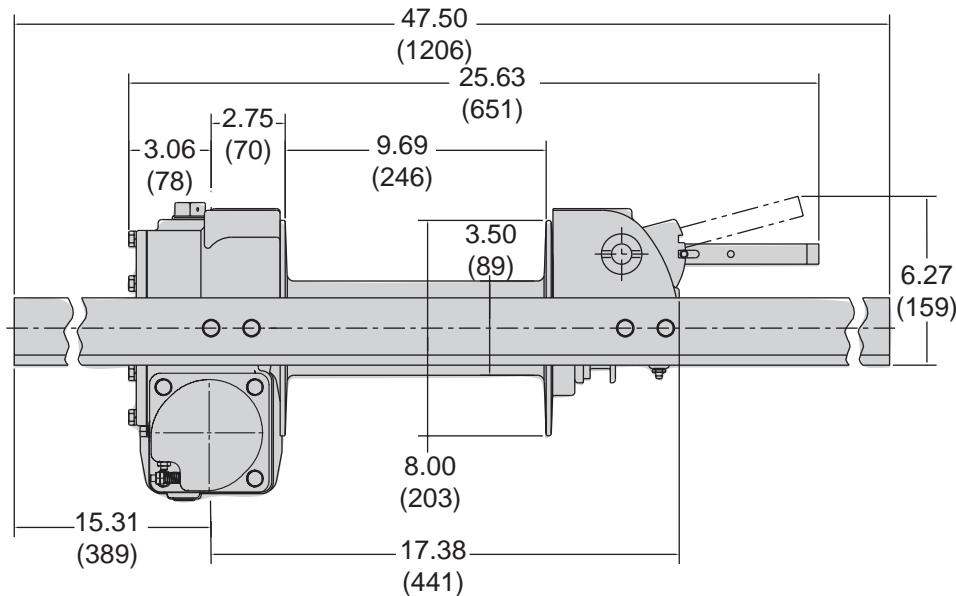


# AHLU2 / ALU2

## 10,000 First Layer Line Pull

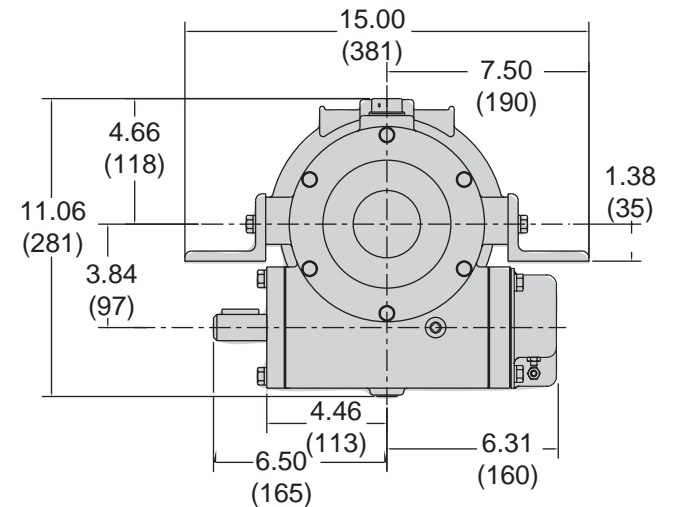
# BRADEN®

### DIMENSIONAL INFORMATION

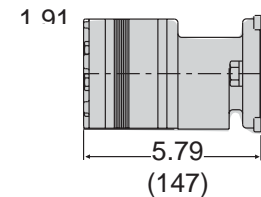


RIGHT HAND ASSEMBLY SHOWN.

### MECHANICAL DRIVE



### HYDRAULIC DRIVE



- Tested in compliance with SAE Specification J706.
- Rugged and compact design.
- Adjustable dry band type worm brake.
- Large capacity ductile iron cable drum with a bolted clutch plate.
- Ground and polished, heat treated alloy steel drum shaft.
- Freespool clutch has negative draft jaws for positive engagement under load.
- Light Weight Aluminum Housing

### PACCAR WINCH DIVISION

P.O. Box 547 Broken Arrow, Oklahoma 74013  
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[www.paccarwinch.com](http://www.paccarwinch.com)

## 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.

[www.paccarwinch.com](http://www.paccarwinch.com)

## 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:

$$\frac{1000 \text{ PSI}}{3000} \times 12,000 = 4,000 \text{ LBS}$$

## 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.

## WIRE ROPE CAPACITY

| ROPE SIZE | LAYER |       |    |        |    |        |     |        |     |        |     |        |     |        |
|-----------|-------|-------|----|--------|----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
|           | 1     |       | 2  |        | 3  |        | 4   |        | 5   |        | 6   |        | 7   |        |
| in.       | ft    | (m)   | ft | (m)    | ft | (m)    | ft  | (m)    | ft  | (m)    | ft  | (m)    | ft  | (m)    |
| 3/8       | 24    | (7.3) | 53 | (16.2) | 86 | (26.2) | 124 | (37.8) | 167 | (50.9) | 214 | (65.2) |     |        |
| 5/16      | 28    | 8.5)  | 61 | (18.6) | 99 | (30.2) | 141 | (43.0) | 188 | (57.3) | 240 | (73.2) | 297 | (90.5) |

WIRE ROPE CAPACITY IS 90% OF THEORITICAL.

## PERFORMANCE INFORMATION

### 7/16 in. WIRE ROPE

| LAYER | LINE PULL     |       | LINE SPEED |       | ROPE CAPACITY |      |
|-------|---------------|-------|------------|-------|---------------|------|
|       | (lbs)         | (kg)  | (fpm)      | (mpm) | (ft)          | (m)  |
|       | 9.69 in. Drum |       |            |       |               |      |
| 1     | 10,000        | 5,400 | 13         | 5.2   | 21            | 6.4  |
| 2     | 8,180         | 4,450 | 16         | 6.1   | 46            | 14.0 |
| 3     | 6,920         | 3,700 | 19         | 7.3   | 76            | 23.2 |
| 4     | 6,000         | 3,260 | 22         | 8.2   | 111           | 33.8 |
| 5     | 5,290         | 2,880 | 25         | 9.4   | 151           | 46.0 |

### HYDRAULIC REQUIREMENTS:

| MOTOR       | MAX   | MAX     | MAX  | MAX   |
|-------------|-------|---------|------|-------|
|             | Δ PSI | (Δ bar) | gpm  | (lpm) |
| 6.00 cu.in. | 2,700 | 186     | @ 15 | 5.7   |

### MECHANICAL REQUIREMENTS:

| Static Input Torque |     | Dynamic Input Torque |     | Max Input |
|---------------------|-----|----------------------|-----|-----------|
| lb-in               | N-m | lb-in                | N-m | RPM       |
| 1,690               | 220 | 1,280                | 168 | 500       |

## ENGINEERING DATA

### ▲ 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.

### ▲ WARNING ▲

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

|  |             |          |
|--|-------------|----------|
| Rated Working Load (Max. Load, First Layer)..... | 10,000 lbs. | 4,536 kg |
| Breaking Strength (First Layer).....             | 20,000 lbs. | 9,072 kg |
| Worm Gear Ratio.....                             | 31:1        |          |
| Maximum Input RPM @ Rated Load*.....             | 500         |          |
| Starting Input Torque (Static)*.....             | 1,690 lb-in | 191 N-m  |
| Input Torque To Operate Winch (Dynamic)*.....    | 1,280 lb-in | 145 N-m  |
| Oil Capacity.....                                | 1 pint      |          |
| Weight - (winch only).....                       | 130 lbs.    | 59 kg    |
| Weight - (w/ hydraulic motor).....               | 140 lbs.    | 63 kg    |

# AHLU2 / ALU2