

# Series 1100C



*"Quality Since  
1910"*

## **HYDRAULIC CABLE WINCHES**

1100C Series shown

The rugged construction and versatility of the **1100C Series** makes it adaptable to a wide range of applications. The **1100C Series** winches are equipped with a sliding clutch to allow free-spooling of the drum for industrial pulling applications including rear of cab and front mounting on ½ to 1 ½ ton trucks, flat bed trailers, factory material handling, mining and logging operations, air freight pullers, off the road tractors and marine craft.



**UP TO 12,000 LBS.  
CAPACITY**

## Bloom Hydraulic Cable Winches – Standard Features

- |                   |  |
|-------------------|--|
| <b>GEAR CASE</b>  | - Special low profile design. Made of high strength cast iron. Completely sealed for oil enclosed operation and to keep dirt out.                  |
| <b>WORM SHAFT</b> | - One piece alloy steel hardened and ground for extra durability.  |
| <b>WORM GEAR</b>  | - High tensile aluminum-nickel alloy bronze. Optimum lead and pressure angles transmit maximum power to the drum.                                  |
| <b>GEAR RATIO</b> | - 20:1 standard, 10:1, 27:1, and 40:1 optional ratios provide optimum efficiency in power and speed.   |
| <b>BEARINGS</b>   | - Worm gear and worm shaft run on tapered roller bearings. Outer end housing has a sealed ball bearing.  |
| <b>DRUM SHAFT</b> | - 1-1/2" diameter heat -treated alloy steel minimum tensile strength 150,000 psi.  |
| <b>CABLE DRUM</b> | - Tough all steel construction resists breakage or warping.  |
| <b>CLUTCH</b>     | - 1100C Series winches comes equipped with heat-treated dog type clutch to provide free-spooling of the winch drum. Positive lock-in and lock-out. |

**CAUTION:**

This winch model does not include any kind of holding brake. If your application requires a holding brake choose 1100HC series winches with hydraulic fail-safe brakes.



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

# **BLOOM**

**Manufacturing Inc.**

Winch Division

**"Custom Engineered Solutions"**

**Lifting  
Pulling  
Hoisting**

Toll Free Number: 1-800-394-1139

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# 1100C Series

## Model Selection from Performance Data



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MODEL EXAMPLE: **11-E-L8-C-20**

Gear Case and  
Shaft Designation

11 = 1100C Series with 1-1/2" Drum Shaft

Hydraulic Motor Designation

A, B, C, DD, E, G, 4.9, 6.2, 8.0, 9.6, 11.9

IS Input Shaft

Drum Sizes

S8, L8, XL10

Gear Ratios

10:1, 20:1, 27:1, 40:1

Clutch

Designation

- (11) Indicates winch series. "11" indicates a 1100C Series winch.
- (E) Designates hydraulic motor. Motor size is determined from motor performance charts. All motors have 7/8-14 SAE O-ring ports. To order a mechanically driven winch with 1" input shaft use designation "IS". Mechanical winches are available with 1-1/2" shaft models only.
- (L8) Select drum size from chart below:

### DRUM CAPACITY

CABLE DIAMETER (IN.)	1/4	5/16	3/8	7/16	1/2
DRUM "S8" CAPACITY (FT.)	260	160	105	75	55
DRUM "L8" CAPACITY (FT.)	390	240	160	110	80
DRUM "XL10" CAPACITY (FT.)	840	550	340	250	170

- (C) Designates 1100C Series winch with dog type clutch for free-spooling drum.
- (20) Indicates gear ratio. 20:1 is standard. 10:1, 27:1, and 40:1 are also available.

#### Special Note.

1100C Series winches are available only in low profile mounting - the "LP" designation is not required. However, it is necessary on all low profile winches to specify whether the winch is to be supplied "with angles" or "less angles".

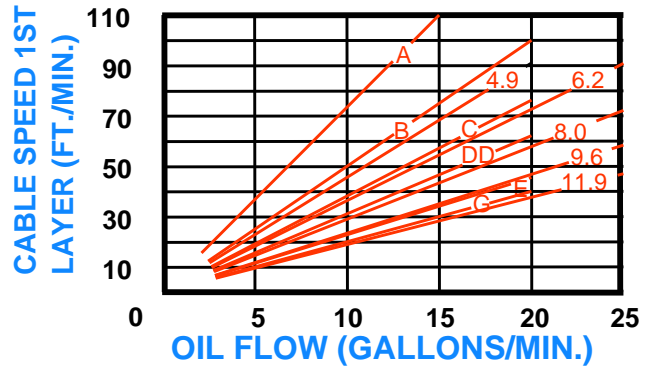
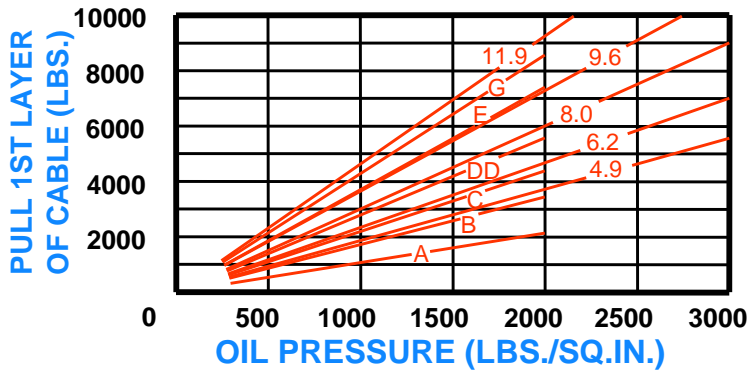
# Series 1100C



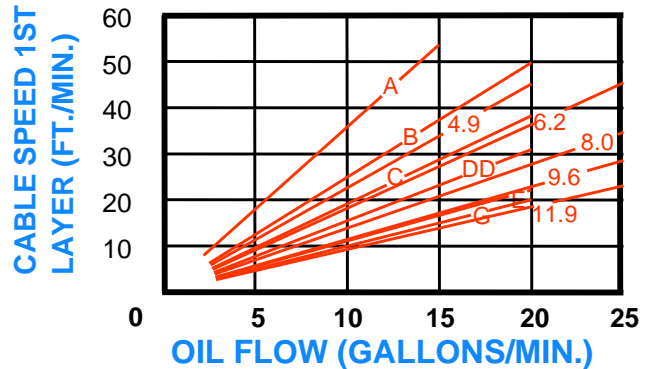
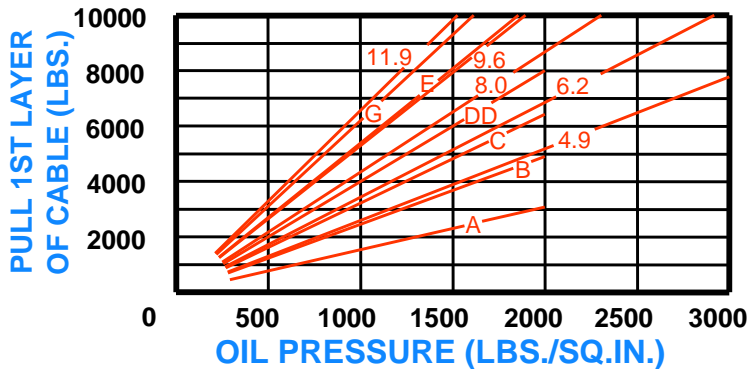
## Bloom Hydraulic Cable Winches Model Selection from Performance Data

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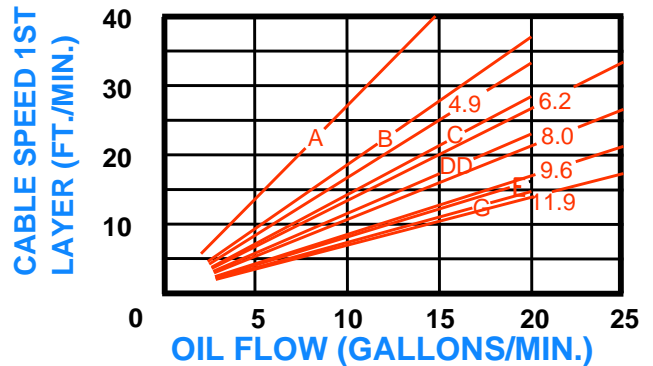
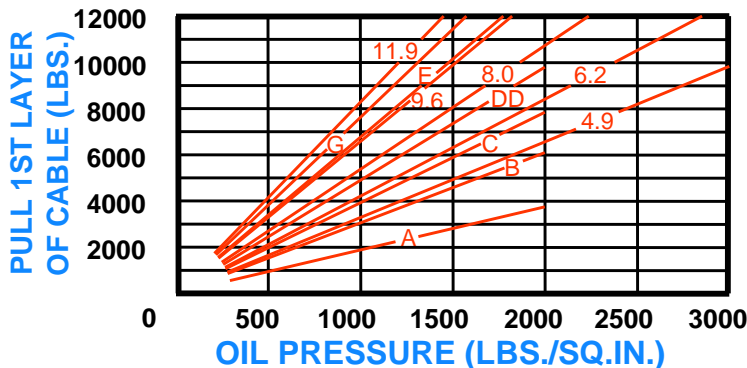
10:1 RATIO (optional)



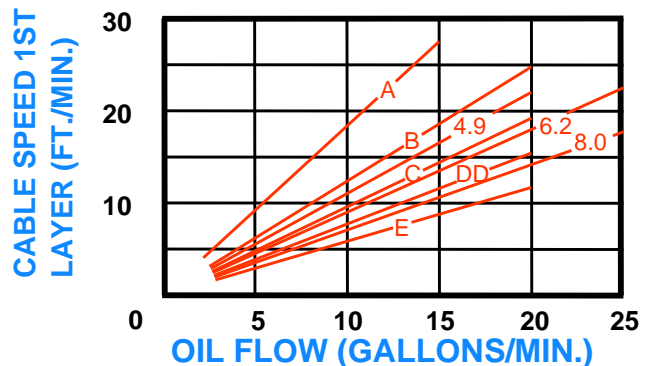
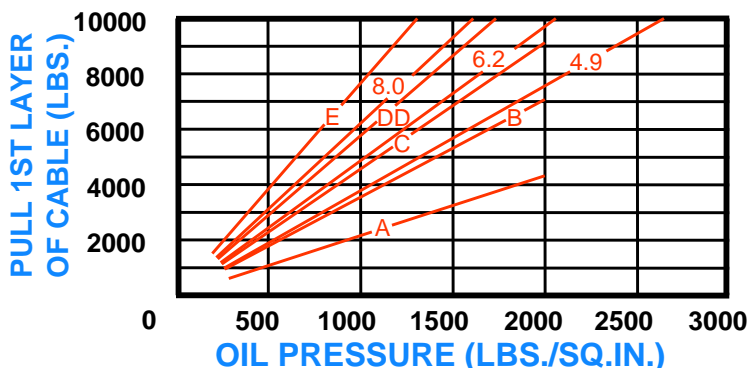
20:1 RATIO (standard)



27:1 RATIO (optional)



40:1 RATIO (optional)

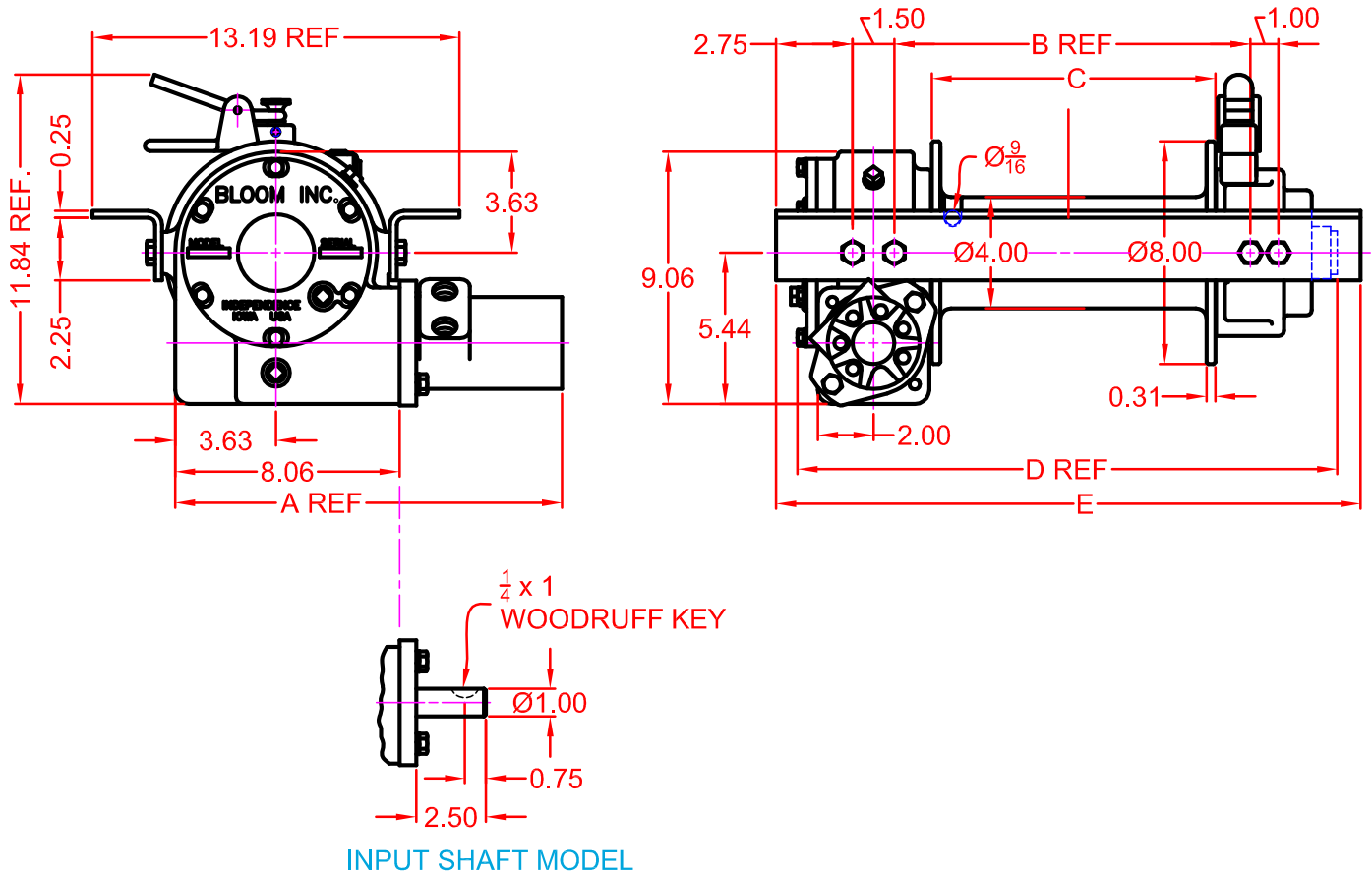




# Dimensional Drawings

1100C Series With S8 and L8 Drum  
Low Profile Model - Clutch Drive

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INPUT SHAFT MODEL

MOTOR DESIGNATION	A	B	C	DD	E	G	4.9	6.2	8.0	9.6	11.9
A DIMENSION	13.28	13.43	13.55	13.68	13.90	14.03	15.32	15.50	15.75	15.75	16.02

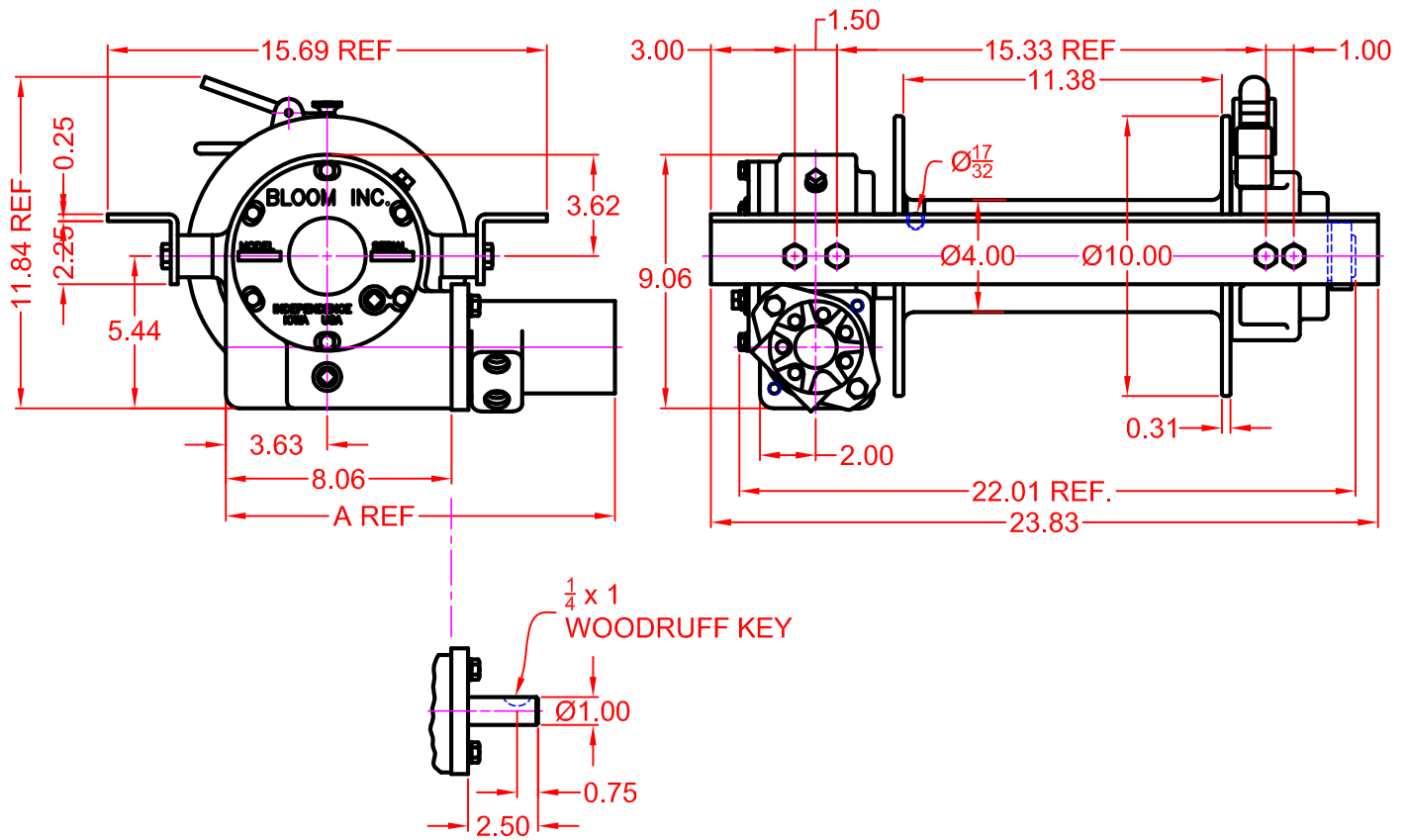
DRUM DESIGNATION	WINCH DIMENSION					
	B	C	D	E	F	G
S8	9.79	7.18	16.39	18.00	9.25	14.44
L8	12.79	10.18	19.39	21.00	12.25	17.44



# Dimensional Drawings

1100C Series With XL10 Drum  
Low Profile Model - Clutch Drive

"Quality Since  
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INPUT SHAFT MODEL

MOTOR DESIGNATION	A	B	C	DD	E	G	4.9	6.2	8.0	9.6	11.9
A DIMENSION	13.28	13.43	13.55	13.68	13.90	14.03	15.32	15.50	15.75	15.75	16.02

CABLE DIAMETER (IN.)	1/4	5/16	3/8	7/16	1/2
DRUM "XL10" CAPACITY (FT.)	840	550	340	250	170

## Correct choice of Directional Control Valves for Bloom Winches

**Tandem Center Spool Valve** – Work Ports are **blocked** in neutral position

Use on all winches that use motor only to hold load.

\*Winches require ridged mounting plate.  
See owner's manual for information about proper mounting plate thickness or call Bloom Sales Engineer at factory

### **WARNING!**

Goods are not intended for use in the moving or lifting of persons!

The winches described herein are neither designed nor intended for use or application to equipment used in the lifting or moving of persons and it is understood that all such use shall be at the sole risk of the user.

The cable clamps on winches are not designed to hold rated loads. A minimum of 5 wraps of cable must be left on drum barrel to guarantee holding of rated load.

Applications of winch where life would be endangered by any event are not recommended.



# **BLOOM Manufacturing Inc.**

## **Winch Division**

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