

# BLOOM™ WINCH

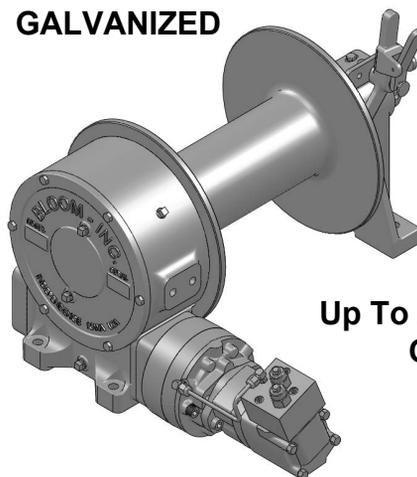


## Series 1600KC Galv

### HYDRAULIC CABLE WINCHES

The rugged construction and versatility of **Series 1600KC Galv** makes it adaptable to a wide range of applications. **Series 1600KC Galv** winches are equipped with a sliding clutch to allow free-spooling of the drum for pulling and dragging applications such as trailers, mining, logging equipment and off road tractors. **Series 1600KC Galv** is equipped with a hydraulic fail-safe brake.

GALVANIZED



*"Quality Since 1910"*

Low Profile or Base Mount Available

**Up To 20,000 POUNDS CAPACITY**

## Bloom™ Hydraulic Cable Winches – Standard Features

- |                   |  |
|-------------------|--|
| <b>BRAKE</b>      | - <b>DUET-SAFE® Double Action Braking System</b> combines a powerful spring applied, hydraulic released brake with a double counter balance brake valve to automatically hold loads when hydraulic pressure is released and control speed during lowering operations. Winch is ideal for high speed pulling applications or wherever load holding is critical. |
| <b>GEAR CASE</b>  | - 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. Seal on worm allows brake to be removed without draining oil.  |
| <b>WORM GEAR</b>  | - High tensile aluminum-nickel alloy bronze cast on high strength ductile iron hub. Optimum lead and pressure angles transmit maximum power to the drum.   |
| <b>GEAR RATIO</b> | - 25:1 standard & 12.5:1 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 grease zerk for lubricating the bronze bushing.   |
| <b>DRUM SHAFT</b> | - 2-1/4" 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>     | - <b>Series 1600KC Galv</b> winches comes equipped with heat-treated dog type clutch to provide free-spooling of the winch drum. Positive lock-in and lock-out.  |



[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

1443 220<sup>th</sup> Street,, Independence, Iowa 50644 • FAX: 319-827-1140 • PHONE: 319-827-1139

# BLOOM™ WINCH



## Series 1600KC Galv Model Selection from Performance Data

"Quality Since  
1910"

MODEL EXAMPLE: **16K-6.2M-L145-C-RH-25-LP-GALV**

16K = Series 1600KC Galv  
with 2-1/4" Drum Shaft

K = Fail-Safe Brake with Separate Motor

Hydraulic Motor Designation

6.2, 8.0, 9.6, 11.9, 18.6

6.2M, 8.0M, 9.6M, 11.9M, 18.6M

Drum Designation

S145, L145

Galvanized

Low Profile  
Mounting  
(mounting angles  
not included)

Gear Ratio  
12.5:1, 25:1

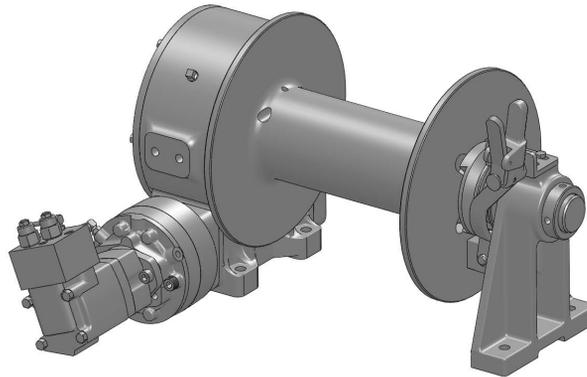
Hydraulic Motor  
Position (R.H. or L.H.)

Clutch Designation  
Series 1600KC

(Do not use clutch model for  
lifting applications.)

## DRUM CAPACITY

| CABLE DIAMETER (IN.)       | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 |
|----------------------------|------|-----|------|-----|------|-----|
| DRUM "S145" CAPACITY (FT.) | 674  | 465 | 305  | 234 | 170  | 126 |
| DRUM "L145" CAPACITY (FT.) | 1214 | 842 | 662  | 425 | 318  | 303 |



# BLOOM™ WINCH

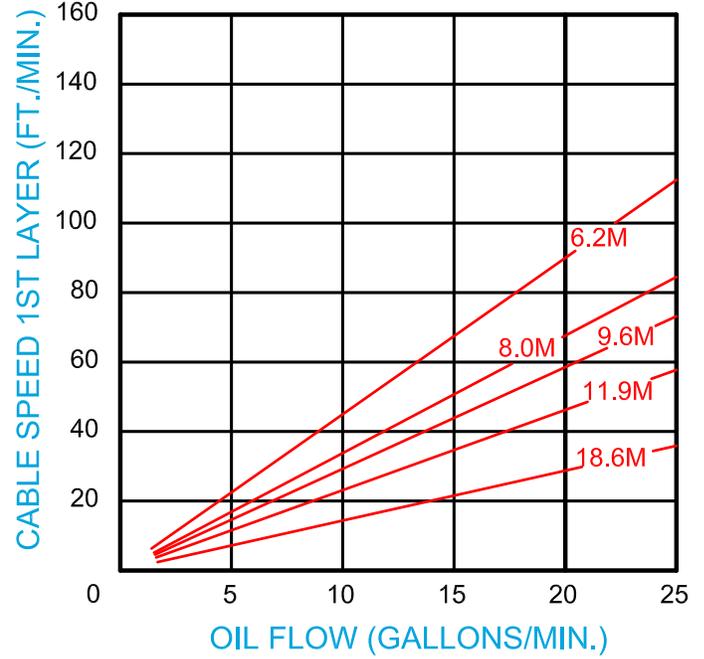
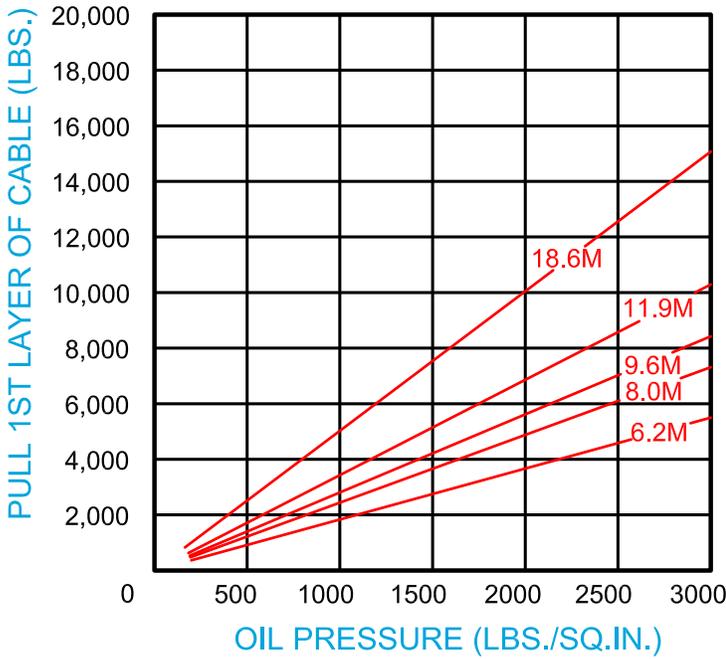


## Series 1600KC Galv

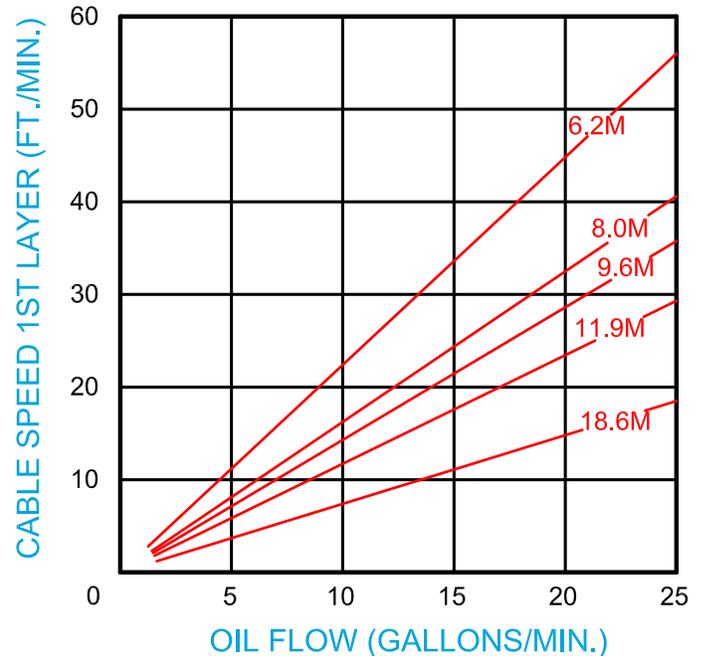
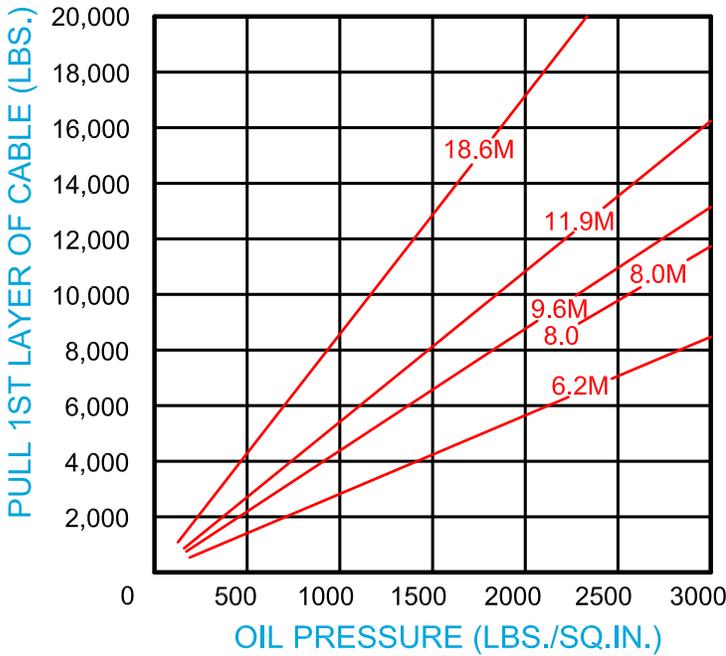
### Model Selection from Performance Data

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#### 12.5:1 RATIO (optional)



#### 25:1 RATIO (standard)



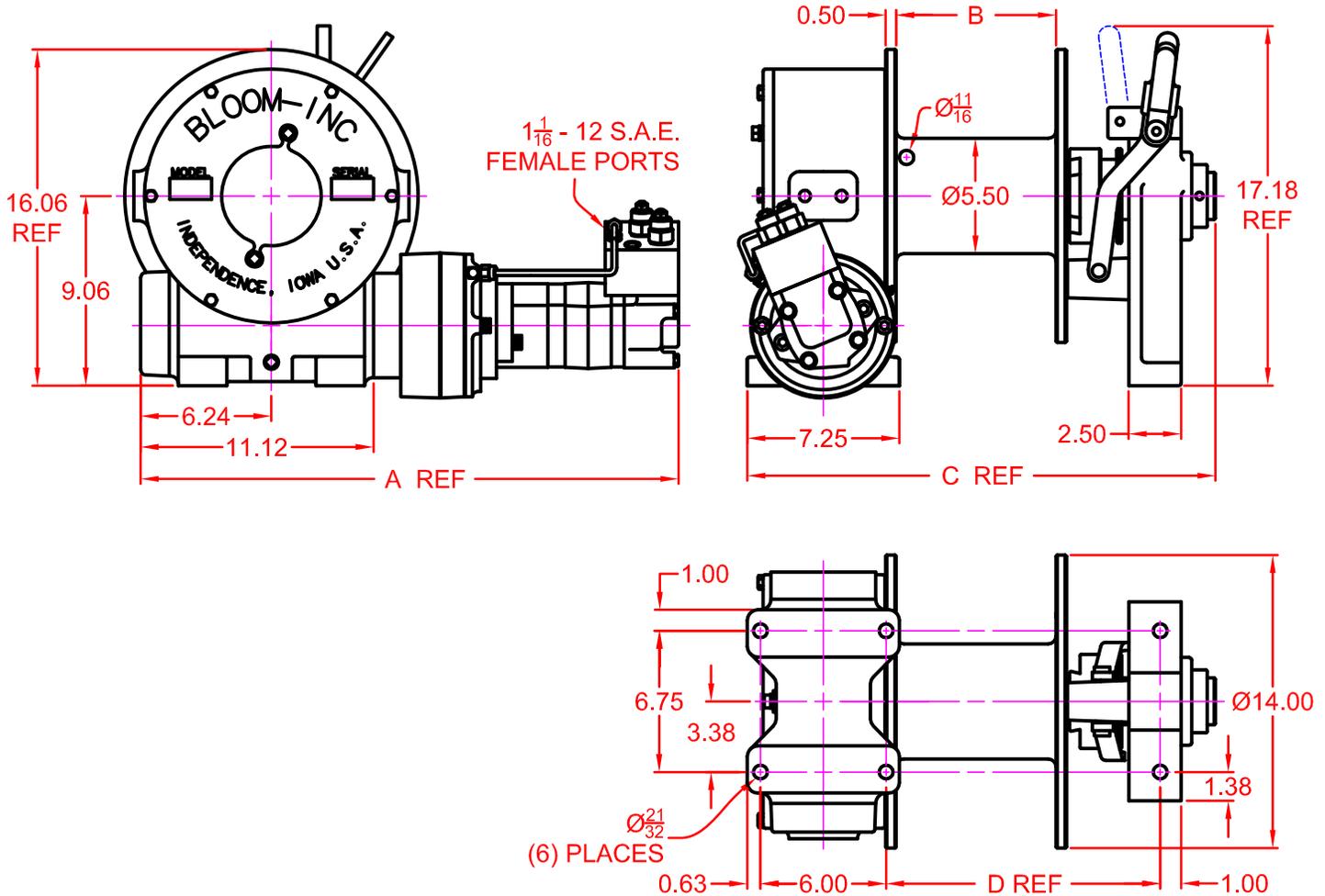


"Quality Since 1910"

# BLOOM™ WINCH

## Dimensional Drawings

Series 1600KC Galv K JH S145 and L145 Drum  
Base Mount Model - Clutch Drive



|                   |       |       |       |       |
|-------------------|-------|-------|-------|-------|
| MOTOR DESIGNATION | 6.2M  | 9.6M  | 11.9M | 18.6M |
| A DIMENSION       | 24.42 | 24.67 | 24.94 | 25.74 |

|                  |       |       |       |
|------------------|-------|-------|-------|
| DRUM DESIGNATION | B     | C     | D     |
| S145             | 7.63  | 22.35 | 13.08 |
| L145             | 13.63 | 28.35 | 19.08 |

|                            |      |     |      |     |      |     |
|----------------------------|------|-----|------|-----|------|-----|
| CABLE DIAMETER (IN.)       | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 |
| DRUM "S145" CAPACITY (FT.) | 674  | 465 | 305  | 234 | 170  | 126 |
| DRUM "L145" CAPACITY (FT.) | 1214 | 842 | 662  | 425 | 318  | 303 |

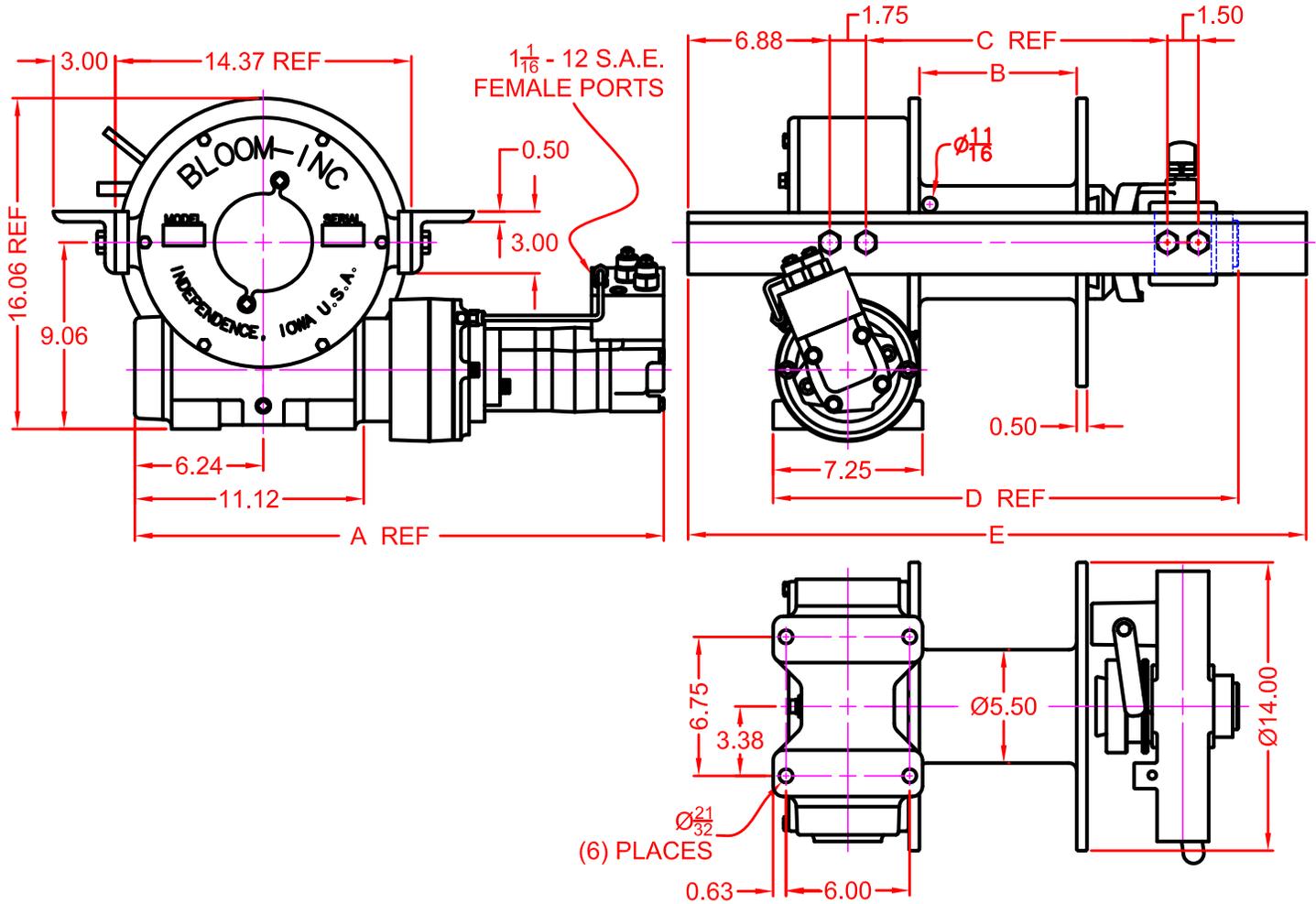


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# BLOOM™ WINCH

## Dimensional Drawings

Series 1600KC Galv K JH 'S145 and L145 Drum  
Low Profile - Clutch Drive



|                   |       |       |       |       |
|-------------------|-------|-------|-------|-------|
| MOTOR DESIGNATION | 6.2M  | 9.6M  | 11.9M | 18.6M |
| A DIMENSION       | 24.42 | 24.67 | 24.94 | 25.74 |

|                  |       |       |       |    |
|------------------|-------|-------|-------|----|
| DRUM DESIGNATION | B     | C     | D     | E  |
| S145             | 7.63  | 14.64 | 22.58 | 30 |
| L145             | 13.63 | 20.64 | 28.58 | 36 |

|                            |      |     |      |     |      |     |
|----------------------------|------|-----|------|-----|------|-----|
| CABLE DIAMETER (IN.)       | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 |
| DRUM "S145" CAPACITY (FT.) | 674  | 465 | 305  | 234 | 170  | 126 |
| DRUM "L145" CAPACITY (FT.) | 1214 | 842 | 662  | 425 | 318  | 303 |

# **BLOOM™ WINCH**

## Correct choice of Directional Control Valves for Bloom Winches

Winches require a **Motor Spool Control Valve**.  
That is the valve's work ports are **open** to tank in neutral position.

\*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**

1443 220<sup>th</sup> Street,, Independence, Iowa 50644

FAX 319-827-1140 PHONE 319-827-1139

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