

# LIFT-SAFE®



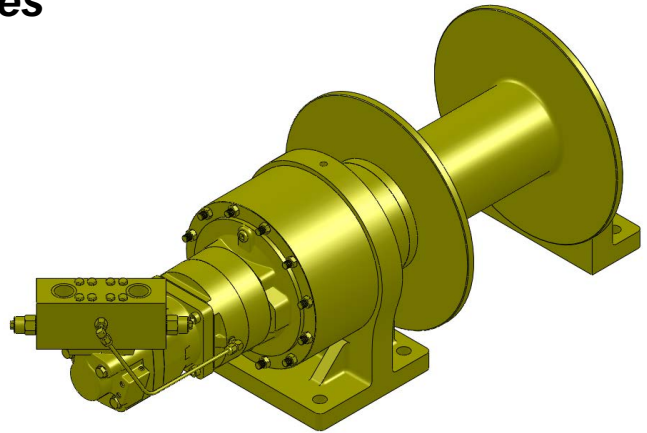
"Quality Since  
1910"

## Series LS40K

### *Hydraulic Planetary Cable Winches*

Lift-Safe® hydraulic winches are specifically designed for lifting applications and optimum load control. Engineered for enhanced safety with redundant braking systems, and available in a variety of configurations.

Lift-Safe® winches utilize the **DUET-SAFE® Double Action Braking System** to provide both static and dynamic braking. Series LS40K direct drive winches are used for industrial pulling and hoisting applications, fishing boats, marine craft, drill rigs, cranes, factory material handling and roll off waste handlers.



**UP TO 35,000 LBS.  
CAPACITY**

## Lift-Safe® Hydraulic Cable Winches – Standard Features

- BRAKE** - **DUET-SAFE® Double Action Braking System** 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 lifting and pulling applications or wherever load holding is critical.
- GEAR CASE** - Made of high strength steel. Completely sealed for oil enclosed operation and to keep dirt out.
- PLANETARY GEAR** - High Efficiency Double Reduction – Rugged - Built to Last.
- GEAR RATIO** - 27:1 standard.
- BEARINGS** - Drum Shaft is supported by two heavy duty oil lubricated bearings in gear case, and one permanently sealed ball bearing in end housing.
- DRUM SHAFT** - 4" diameter heat -treated alloy steel
- CABLE DRUM** - Tough all steel construction resists breakage or warping.



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

**BLOOM**  
Manufacturing Inc.  
Winch Division

*Lifting  
Pulling  
Hoisting*

Toll Free Number: 1-800-394-1139

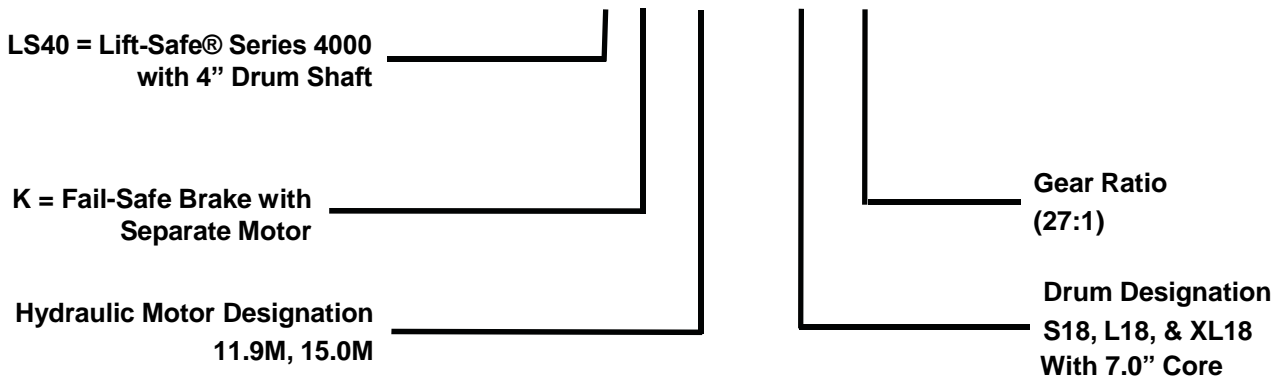
**"Custom Engineered Solutions"**

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



## Series LS40K Model Selection from Performance Data

MODEL EXAMPLE: **LS40K-15.0M -L18-27**



(40K) Indicates series 4000K winch with 4" drum shaft. The "K" indicates 6000 series motor with standard fail-safe brake

(15.0M) Designates hydraulic motor. Motor size is determined from motor performance charts. All motors come complete with attached double counter balanced valve.

(L18) Drum designation.

(27) Indicates gear ratio. 27:1 is standard.



*"Quality Since  
1910"*

# Lift Safe® Planetary Cable Winches

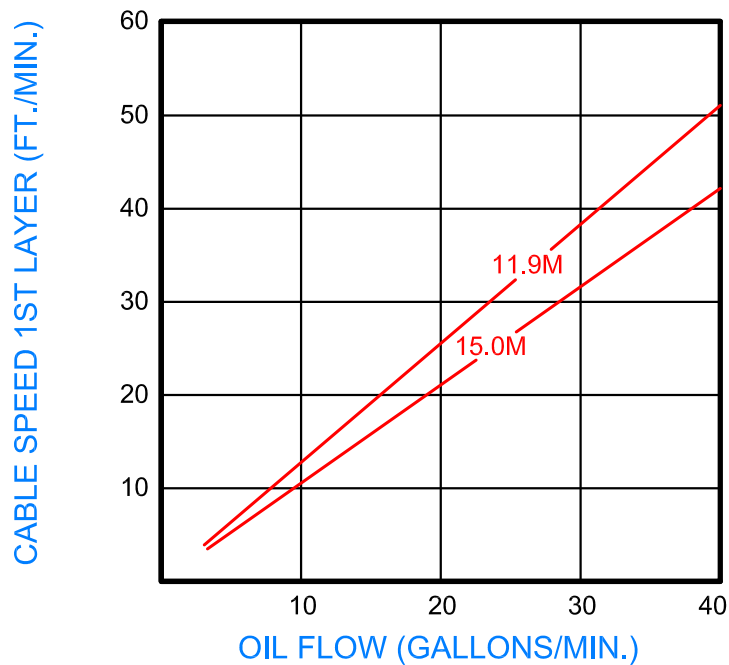
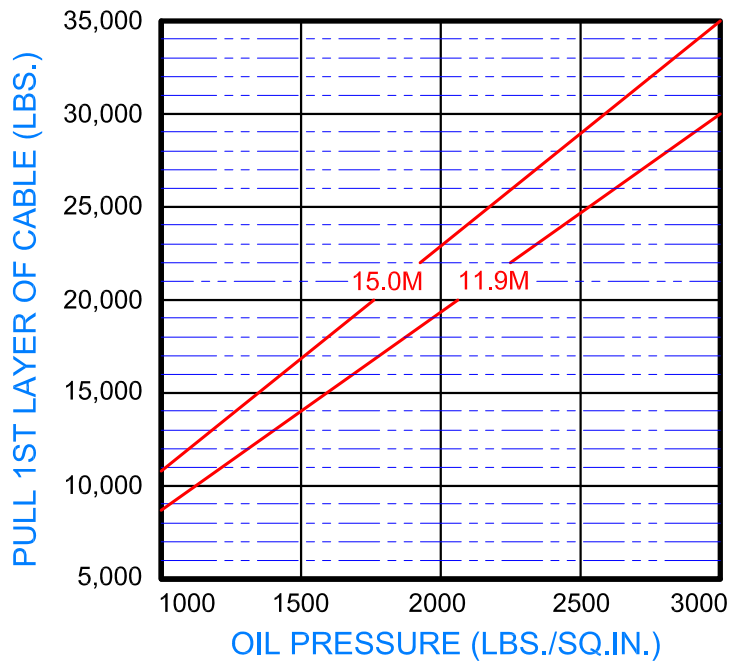
## Series LS40K W/ 7" Core

With Hydraulic Fail-safe Brake  
Model Selection from Performance Data



"Quality Since  
1910"

27:1 RATIO

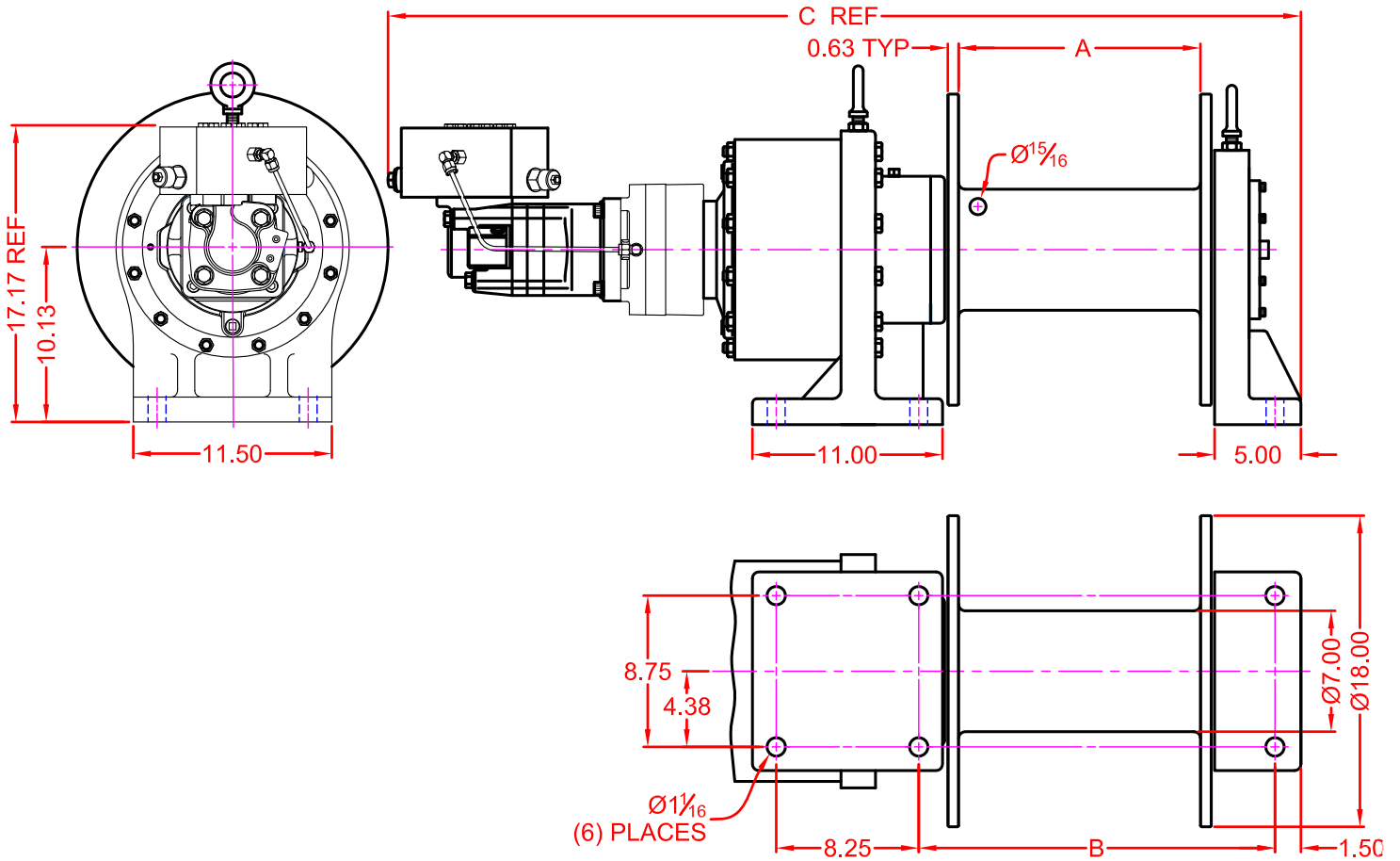




"Quality Since 1910"

## Dimensional Drawings

Series LS40K W/ 7" Core  
Base Mount Model - Direct Drive



WINCH DIMENSION	DRUM DESIGNATION		
	S18	L18	XL18
A DIMENSION	8	14	20
B DIMENSION	14.63 ±0.06	20.63 ±0.06	26.63 ±0.06
C DIMENSION	46.86	52.86	58.86

CABLE SIZE ( INCH )	CABLE CAPACITY ( FT. )		
	S18 DRUM	L18 DRUM	XL18 DRUM
Ø3/4"	170	300	430
Ø7/8"	120	215	305

# LIFT-SAFE®

## Correct choice of Directional Control Valves for Lift-Safe® Winches

All **Lift-Safe®** 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

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

©Copyright 2010 Bloom Mfg. Inc.