

Series 1600KC

HYDRAULIC CABLE WINCHES



*"Quality Since
1910"*

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



**1600KC Series low profile shown with clutch and hydraulic brake
Low Profile or Base Mount Available**

**Up To 20,000 LBS.
CAPACITY**

Bloom Hydraulic Cable Winches – Standard Features

- GEAR CASE** - Made of high strength cast iron. Completely sealed for oil enclosed operation and to keep dirt out.
- WORM SHAFT** - One piece alloy steel hardened and ground for extra durability. Seal on worm allows brake to be removed without draining oil.
- WORM GEAR** - High tensile aluminum-nickel alloy bronze cast on high strength ductile iron hub. Optimum lead and pressure angles transmit maximum power to the drum.
- GEAR RATIO** - 25:1 standard & 12.5:1 optional ratios provide optimum efficiency in power and speed.
- BEARINGS** - Worm gear and worm shaft run on tapered roller bearings. Outer end housing has a grease zerk for lubricating the bronze bushing.
- DRUM SHAFT** - 2-1/4" diameter heat-treated alloy steel minimum tensile strength 150,000 psi.
- CABLE DRUM** - Tough all steel construction resists breakage or warping.
- CLUTCH** - 1600KC Series winches comes equipped with heat-treated dog type clutch to provide free-spooling of the winch drum. Positive lock-in and lock-out.
- BRAKE OPTION** - Spring applied hydraulic release fail-safe brake automatically holds load when hydraulic pressure is released. Double counter balance valve adds additional load holding capability by locking oil in motor. Brake shaft coupled directly into worm- no separate coupling required.



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Winch Division

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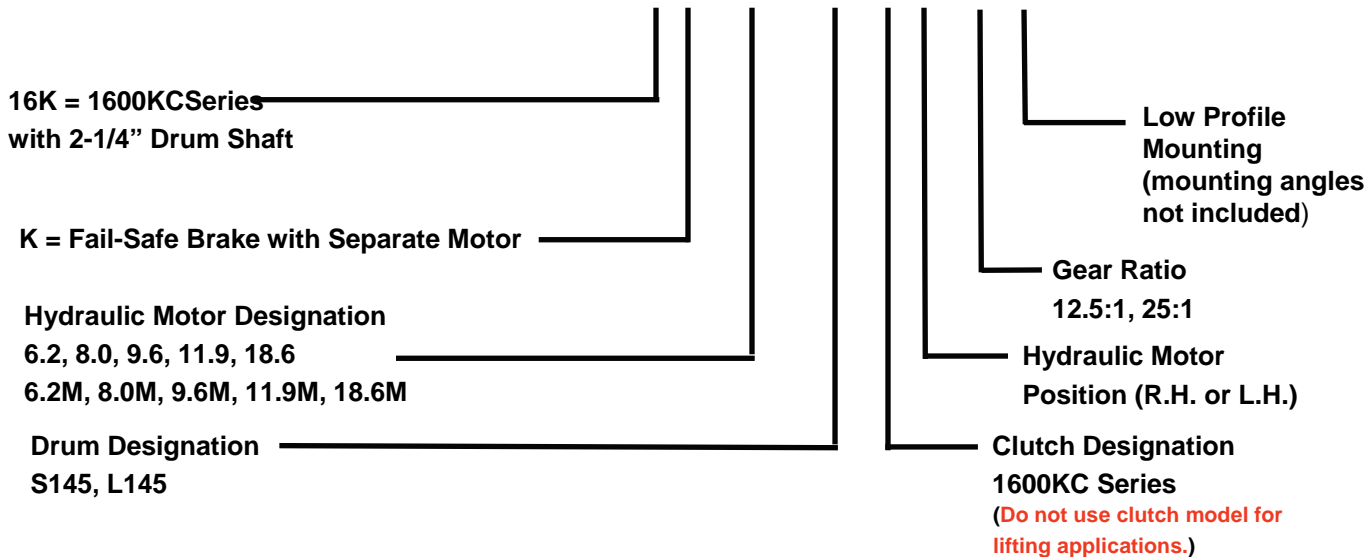
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1600KC Series Model Selection from Performance Data



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MODEL EXAMPLE: 16(K)-6.2M-L145-C-RH-25-LP



(16) Indicates a 1600C Series winch with 2 1/4" drum shaft.

(16K) Indicates a 1600KC Series winch with 2 1/4" drum shaft. The "K" indicates spring applied hydraulic released fail-safe brake.

(6.2M) Designates hydraulic motor used. 6.2M designates a manifold mount motor which is used in conjunction with fail-safe brake and includes counter balance valve. Fail-safe brake should be used in pulling application where positive load holding is required. To select proper motor size, use performance data chart. Hydraulic motors with out "M" designation have 7/8"-14 S.A.E. female ports. Manifold ports are 1-1/16"-12 S.A.E. female ports. Hydraulic pressure (P.S.I.) and flow rate (G.P.M.) must be known.

(L145) Drum designation.

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

(C) Designates 1600C and 1600KC Series winch with dog type clutch for free - spooling drum.

(RH) Hydraulic motor may be placed on either side of the gear case. Specify right hand (RH) or left hand (LH) as viewed looking at gear case cover. Right hand is standard.

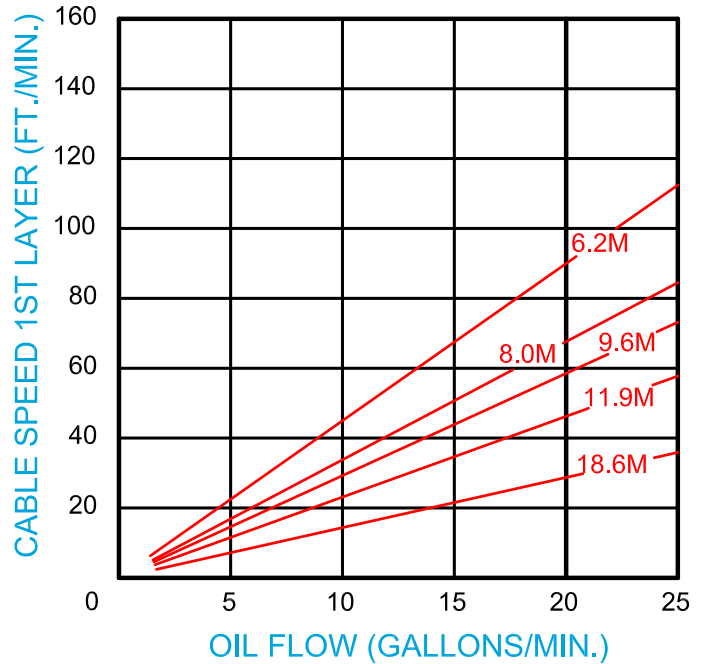
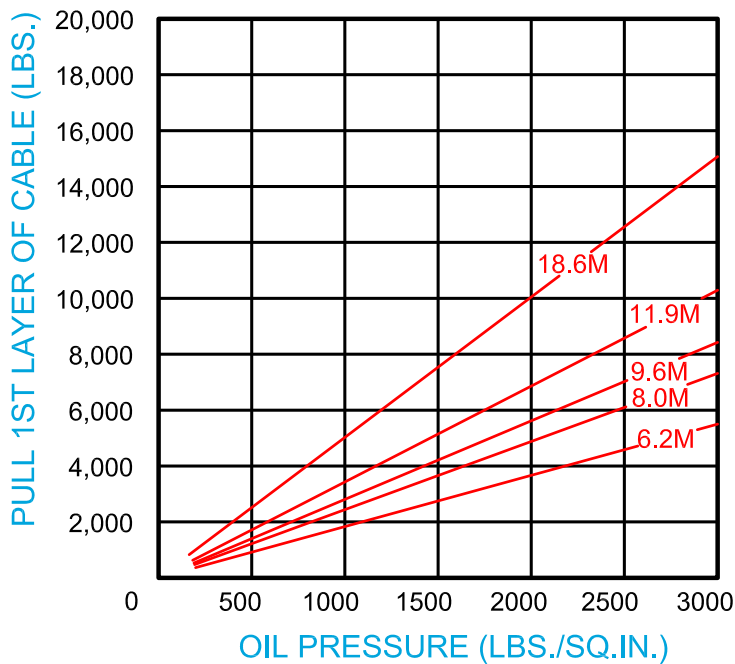
(25) Indicates gear ratio. 25:1 is standard. (12.5:1 Optional)

(LP) Designates low profile mounting. It is necessary on all low profile whether the winch is to be supplied "with angles" or "less angles".

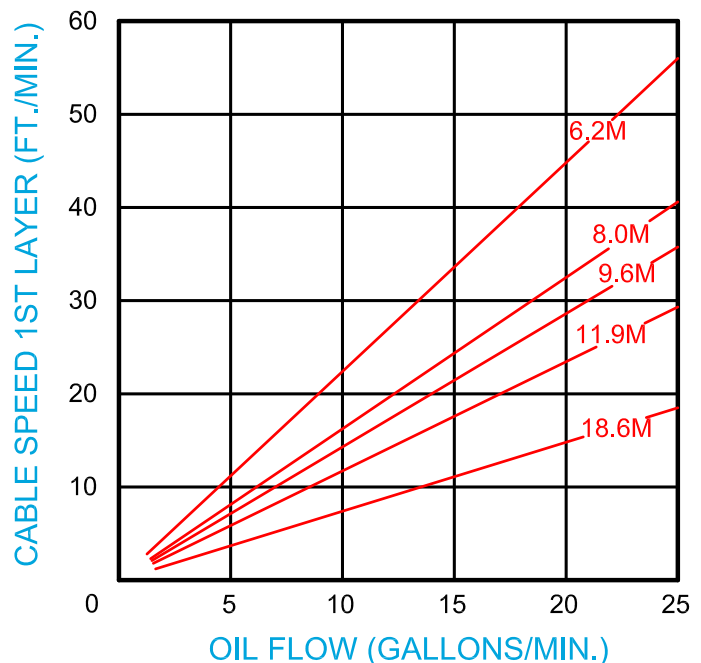
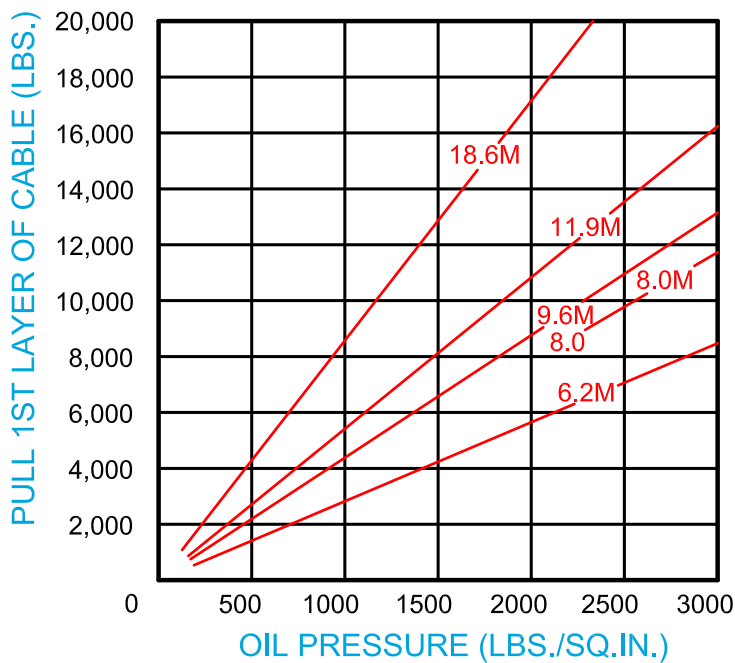
Series 1600KC

Bloom Hydraulic Cable Winches Model Selection from Performance Data

12.5:1 RATIO (optional)



25:1 RATIO (standard)

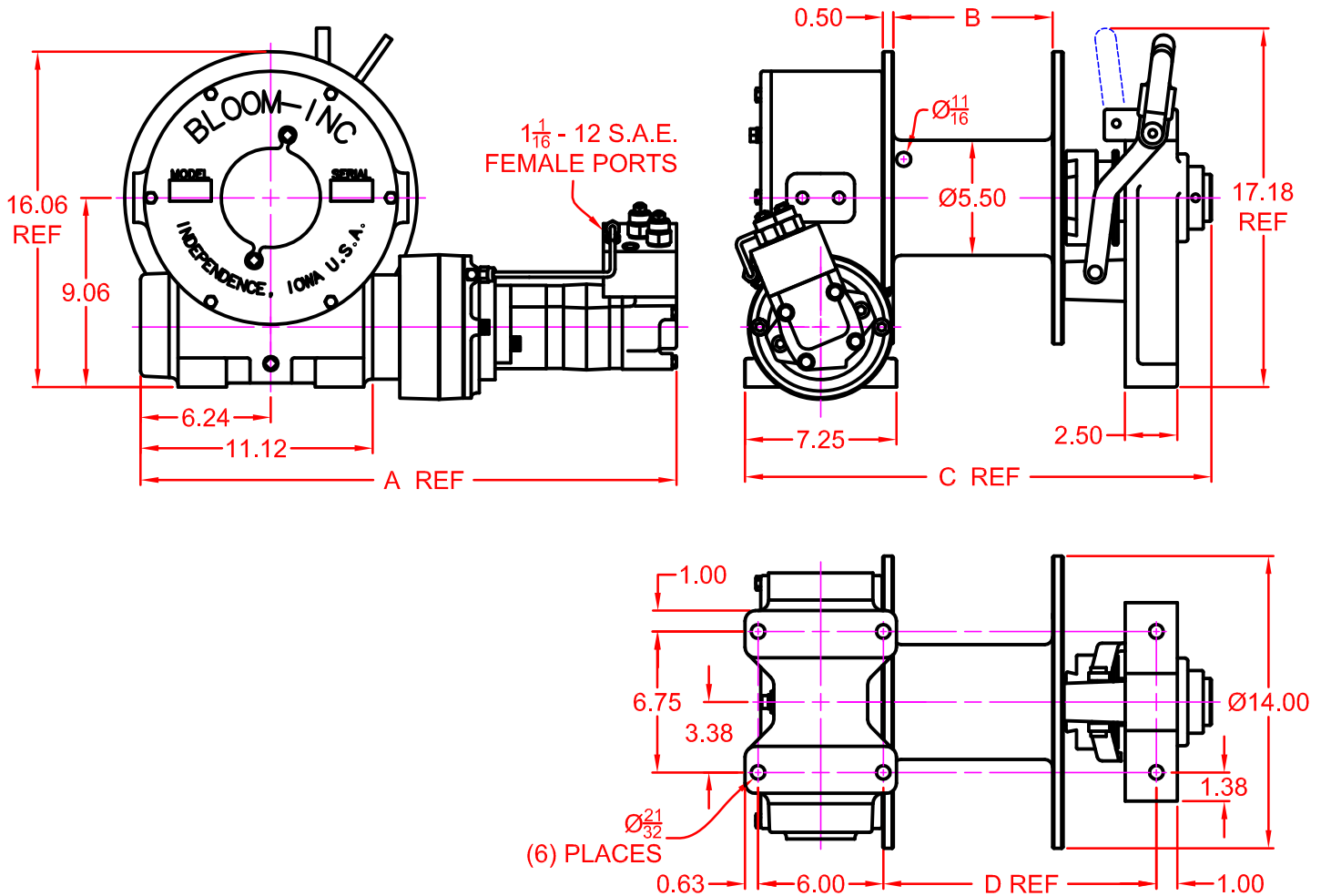




Dimensional Drawings

Series 1600KC With S145 & L145 Drums
Base Mount Model - Clutch Drive

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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

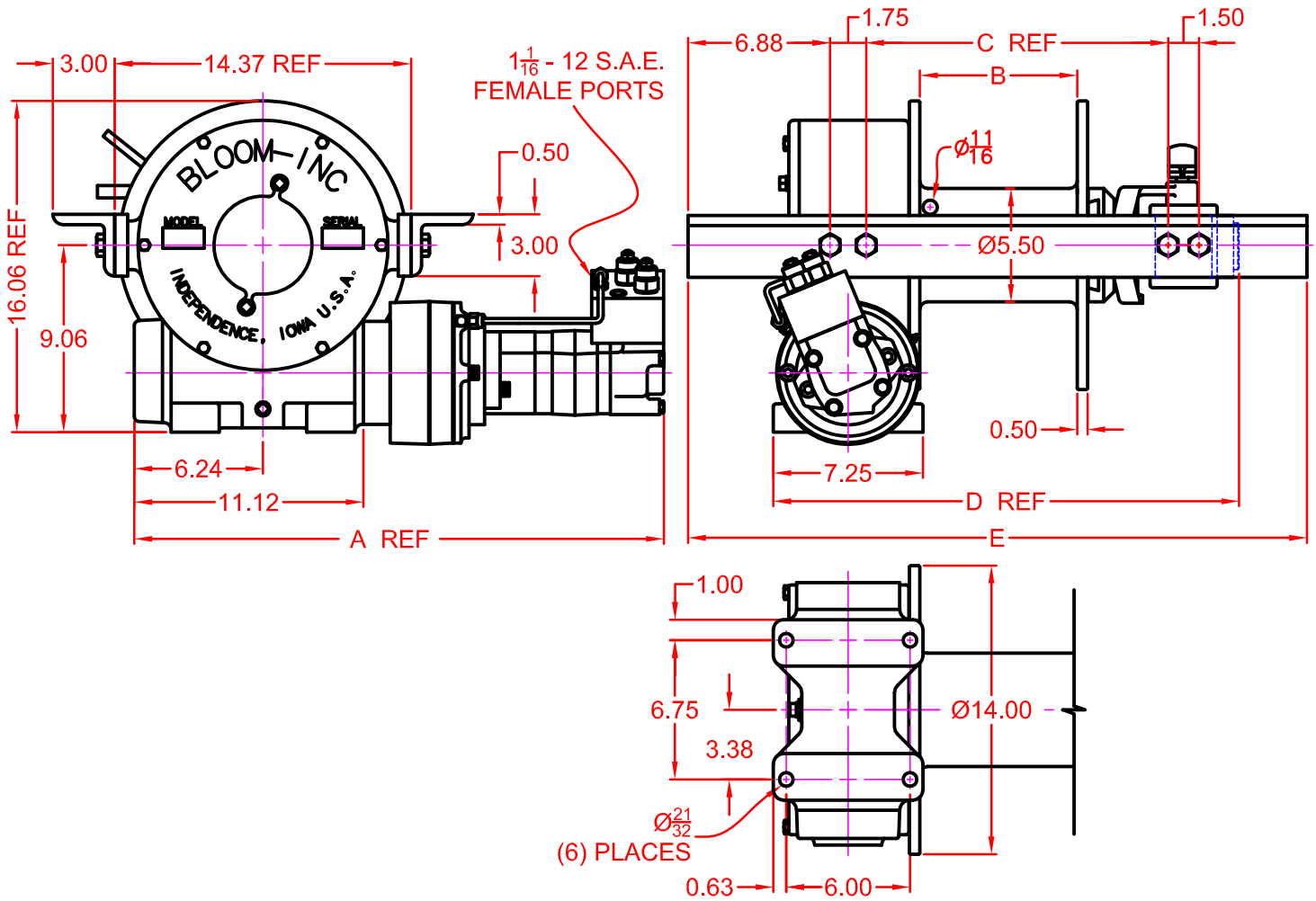
CABLE DIAMETER (IN.)	5/16	3/8	7/16	1/2	9/16	5/8
DRUM "S145" CAPACITY (FT.)	674	465	305	234	170	126
DRUM "L145" CAPACITY (FT.)	1214	842	662	425	318	303



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Dimensional Drawings

Series 1600KC With S145 & L145 Drums
Low Profile 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	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

Correct choice of Directional Control Valves for Bloom Winches

Motor Spool Valve – Work Ports are **open** to tank in neutral position

Use on all winches that use Counter Balance Valves to hold load.

Some winches may use a combination of CB Valve and Hydraulic Brake.

*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.



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Winch Division

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