

BLOOM™ WINCH



Series 800, 1000, & 1100

Hydraulic Speed Reducer

*"Quality Since
1910"*

The rugged construction and versatility of the **800/1000/1100 Series Speed Reducer** is ideal for stationary and mobile applications where slow speed, high torque, or variable speed and reversing are needed. Applications include paving and curb forming, ditching, irrigation, and plastic and extruding equipment. Both available with an optional hydraulic brake.

1000 Series shown



Up To 24,000

In.-lbs. Output

Bloom™ Hydraulic Speed Reducers – 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 to insure long service. The hydraulic motor couples direct to the shaft. |
| WORM GEAR | - High tensile aluminum-nickel alloy bronze . Optimum lead and pressure angles transmit maximum power to the drum. |
| GEAR RATIO | - 20:1 standard, optional 10:1, 27:1 and 40:1 ratios provide optimum efficiency in power and speed. |
| BEARINGS | - Worm gear and worm shaft run on tapered roller bearings in an oil enclosed gear case. |
| OUTPUT SHAFT | - 1-1/4" (800), 1-1/2" (1000 & 1100) diameter heat -treated alloy steel minimum tensile strength 150,000 psi. |
| MOTOR MOUNT | - SAE (A) 2 bolt flange. 1" woodruff keyed motor shaft. Motor is directly coupled into worm shaft. No separate coupling required. |
| BRAKE OPTION | - Spring applied hydraulic release brake automatically holds load when hydraulic pressure is released. |



BLOOM

Manufacturing Inc.

Winch Division

*Lifting
Pulling
Hoisting*

Toll Free Number: 1-800-394-1139

www.bloommfg.com

"Custom Engineered Solutions"

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

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800, 1000, and 1100 Series Model Selection from Performance Data

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MODEL EXAMPLE: -E-SR-RH-20

Gear Case and

Shaft Designation

 = 8 (800 Series with 1-1/4" Output Shaft)

 = 10 (1000 Series with 1-1/2" Output Shaft)

 = 11 (1100 Series with 1-1/2" Output Shaft)

Hydraulic Motor Designation

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

IS - Input Shaft

Speed Reducer

Gear Ratios

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

Shaft Position

RH - Right Hand (Standard)

LH - Left Hand

* available with 1-1/2" shaft only

() Indicates speed reducer series. "8" indicates 800 Series with 1-1/4" output shaft. Models with 1-1/4" shaft are available up to 16,000 in.-lbs. output torque. "10" indicates a 1000 Series with 1-1/2" output shaft. "11" indicates a 1100 Series with 1-1/2" output shaft. Models with 1-1/2" shafts are available up to 24,000 in.-lbs. output torque depending on ratio selected.

(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 reducer with 1" input shaft use designation "IS". Input shaft reducers are available with 1-1/2" output shaft only.

(SR) Indicates worm gear speed reducer.

(RH) Designates output shaft position. Right hand is standard.

(20) Indicates gear ratio. 20:1 is standard. 10:1, 27:1, and 40:1 ratios are also available.

Optional – Available with hydraulic fail-safe brake.

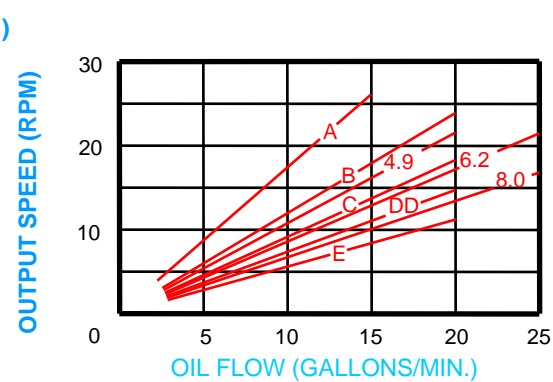
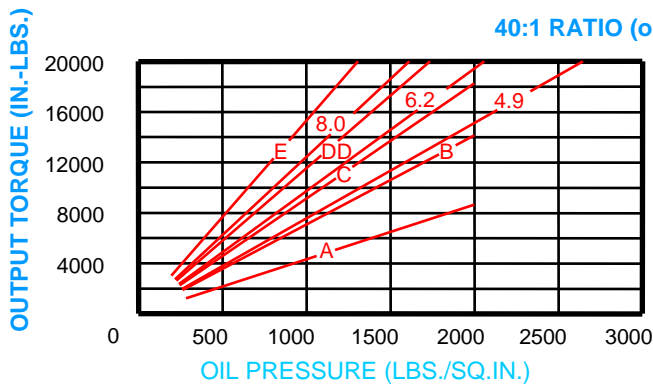
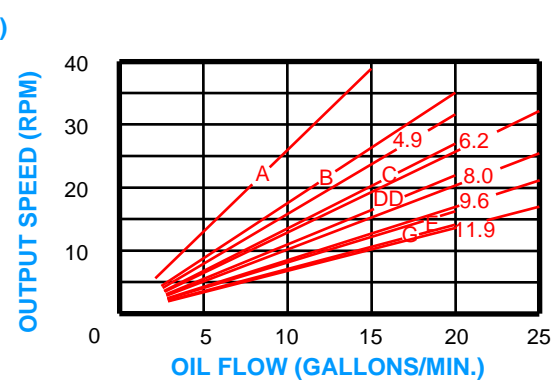
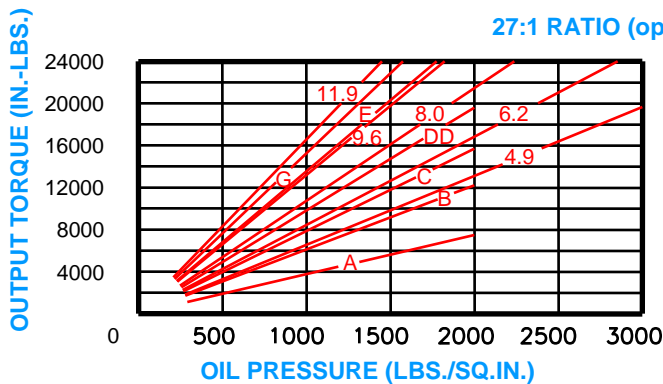
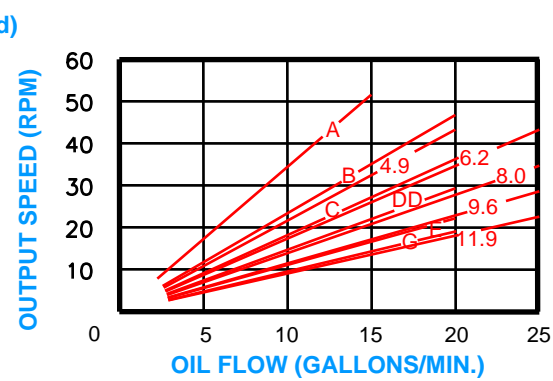
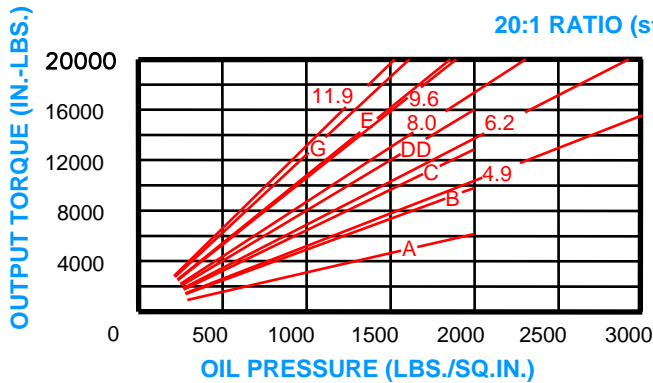
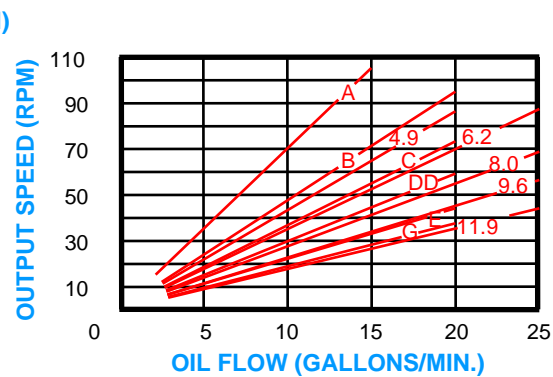
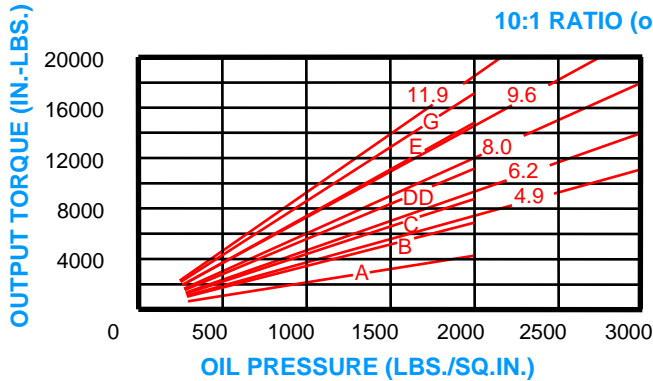
BLOOM™ WINCH



Series 800, 1000, & 1100

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Bloom Hydraulic Speed Reducers Model Selection from Performance Data



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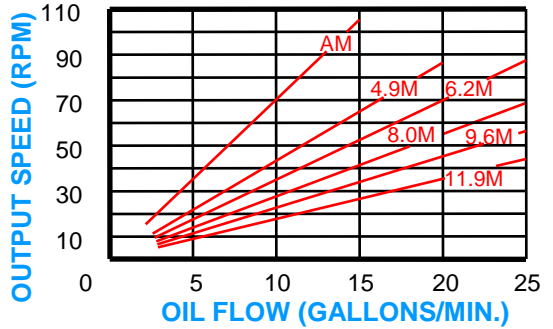
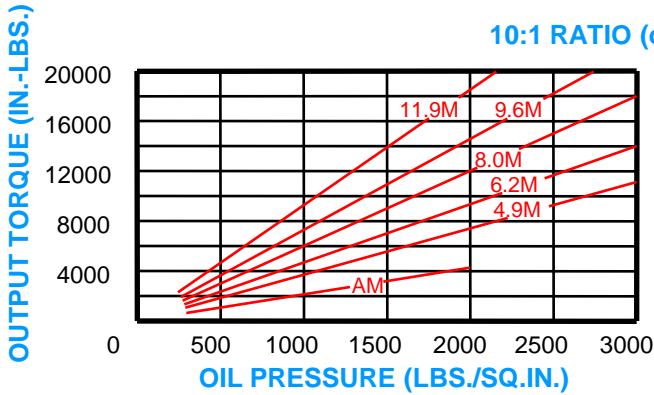


Series 1000 & 1100

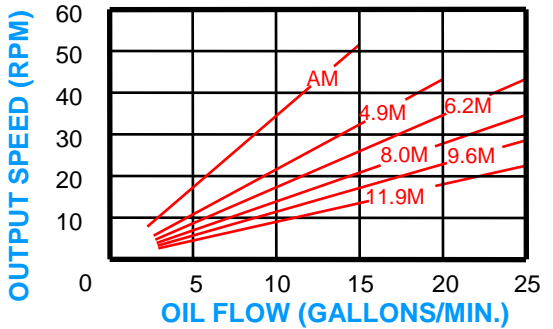
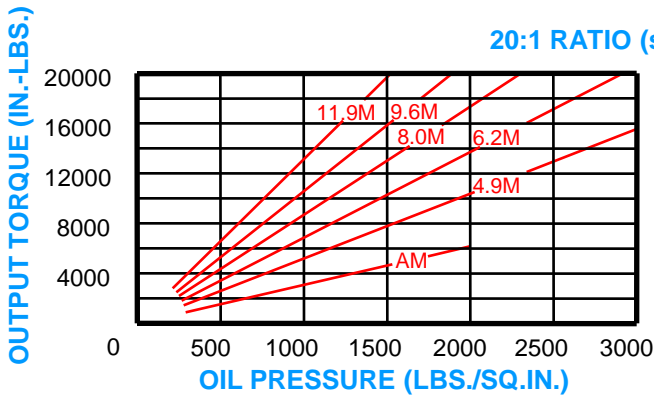
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Bloom Hydraulic Speed Reducers With Hydraulic Safety Brake Model Selection from Performance Data

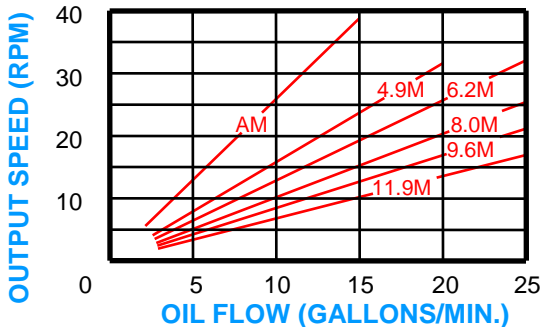
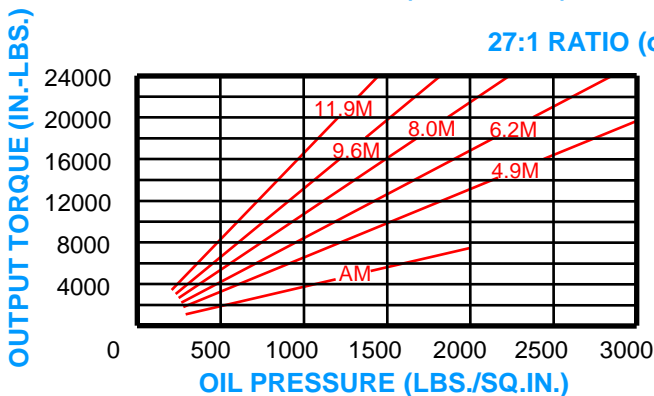
10:1 RATIO (optional)



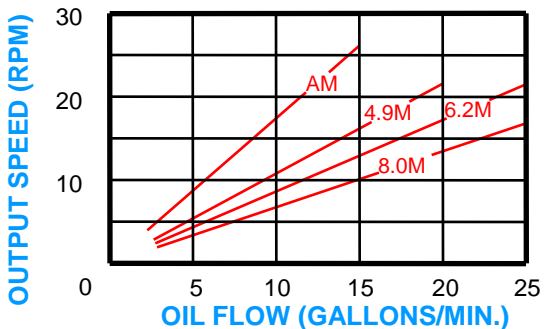
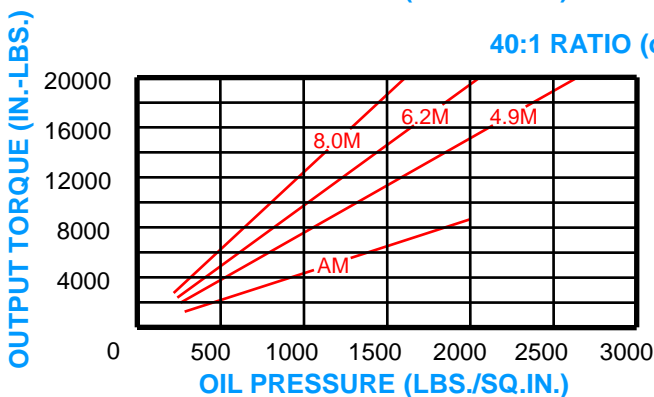
20:1 RATIO (standard)



27:1 RATIO (optional)



40:1 RATIO (optional)



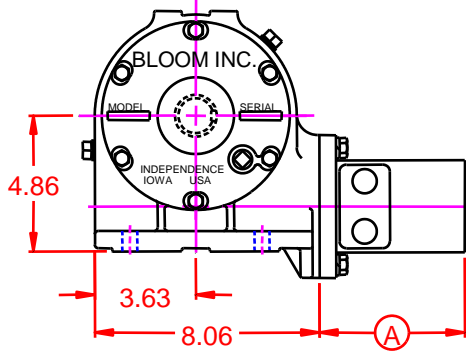
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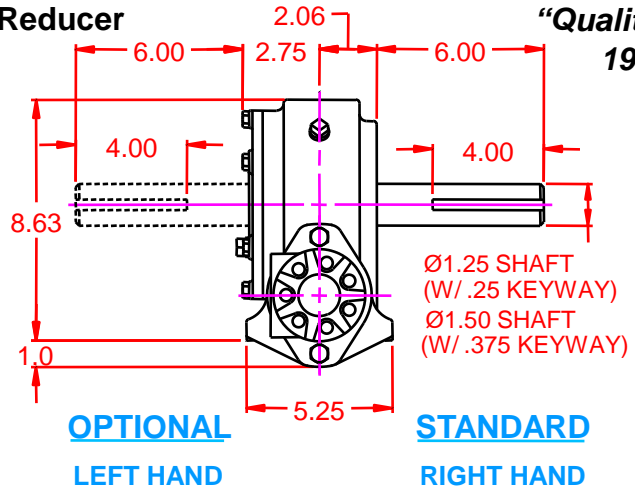
Dimensional Drawings

1000 Series Speed Reducer

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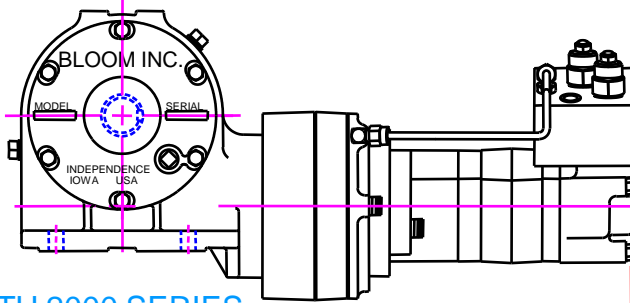


WITH H SERIES MOTOR

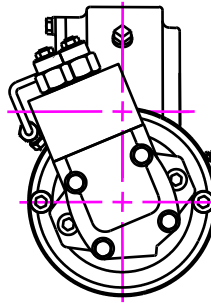


OPTIONAL LEFT HAND

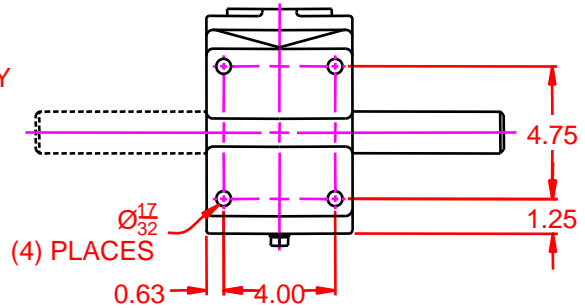
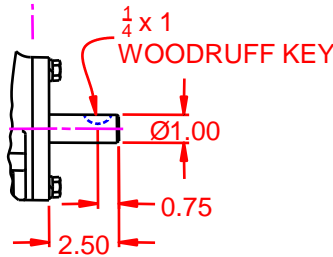
STANDARD RIGHT HAND



WITH 2000 SERIES MOTOR & FAIL-SAFE BRAKE



INPUT SHAFT MODEL



MOTOR DESIGNATION	A	B	C	DD	E	G
(A) DIMENSION	5.22	5.37	5.49	5.62	5.84	5.97

MOTOR DESIGNATION	AM	4.9	4.9M	6.2	6.2M	8.0	8.0M	9.6	9.6M	11.9	11.9M
(A) DIMENSION	10.04	7.26	11.74	7.44	12.01	7.69	12.26	7.69	12.26	7.96	12.53

OVERHUNG LOAD ON OUTPUT SHAFT AT 100 RPM (LB.)	Ø1.25 SHAFT	Ø1.50 SHAFT
1" FROM FACE OF GEARCASE	700	750
2" FROM FACE OF GEARCASE	530	600
3" FROM FACE OF GEARCASE	420	500

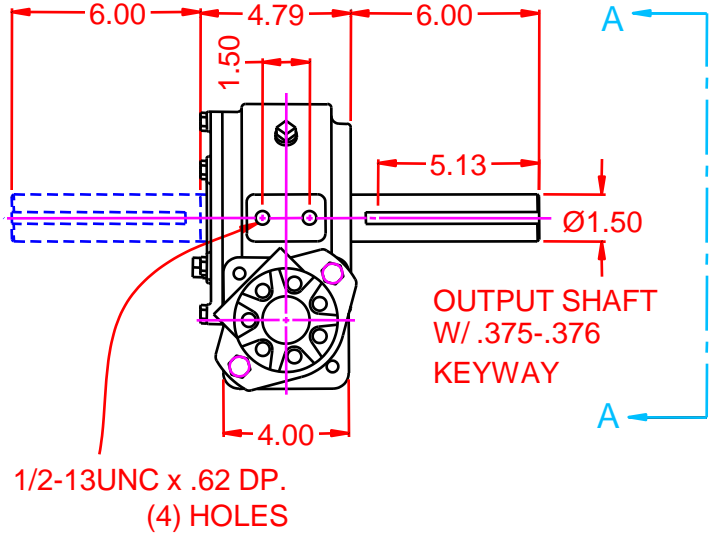
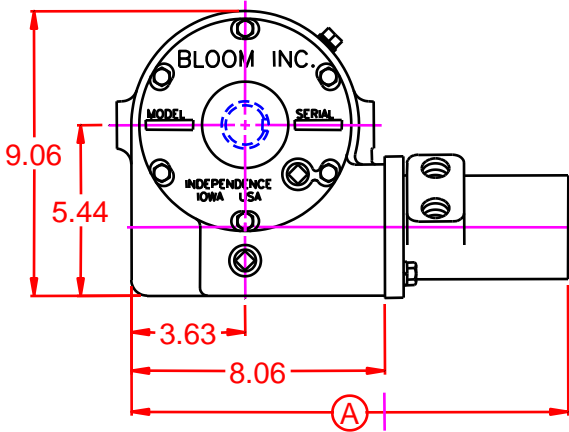
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Dimensional Drawings

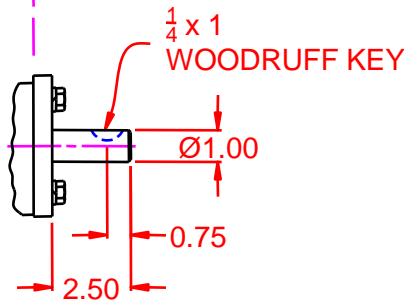
1100 Series Speed Reducer

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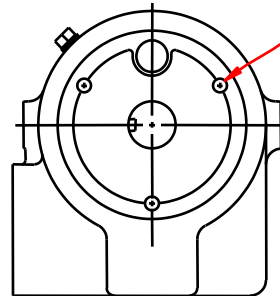
OPTIONAL
LEFT HAND

STANDARD
RIGHT HAND



INPUT SHAFT MODEL

OPTIONAL
Ø1/2-13 UNC x .75 DEEP
3 HOLES ON Ø5.00 B.C.
EQUALLY SPACED APART
MOUNTING HOLES AND FACED



VIEW 'A-A'

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

BLOOM™ WINCH

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.

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.



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