Bloom™ Hydraulic Cable Winches – Standard Features

**MOTOR-BRAKE** - *DUET-SAFE® Double Action Braking System* combines a powerful spring applied, hydraulic released motor-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.

**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. Compact design allows hydraulic motor to be coupled directly to worm.

**WORM GEAR** - High tensile aluminum-nickel alloy bronze. Optimum lead and pressure angles transmit maximum power to the drum.

**GEAR RATIO** - 20:1 standard, 10:1 optional ratios provide optimum efficiency in power and speed.

**BEARINGS** - Worm gear and worm shaft run on tapered roller bearings. Outer end housing has sealed ball bearing.

**DRUM SHAFT** - 1-1/4" diameter heat-treated alloy steel minimum tensile strength 150,000 psi.

**CABLE DRUM** - Tough all steel construction resists breakage or warping.

**CLUTCH OPTION** - Series 800HC winches comes equipped with heat-treated dog type clutch to provide free-spooling of the winch drum. Positive lock-in and lock-out.

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The rugged construction and versatility of Series 800HC makes it adaptable to a wide range of applications. Series 800HC winches are equipped with a sliding clutch to allow free-spooling of the drum for industrial pulling and dragging applications including rear of cab and front mounting on ½ to 1 ½ ton trucks, flat bed trailers, material handling, mining and logging operations, air freight pullers, off road tractors, aboard ships and boats.
MODEL EXAMPLE: 8H-3.0T-L8-C-10-LP

Gear Case Mounting
8H = Series 800HC With 1-1/4” Drum Shaft

Hydraulic Motor Designation
3.0T, 4.0T, 6.2T

Gear Ratio
10:1, 20:1

Clutch Designation
(Do not use clutch model for lifting Applications)

Low Profile Mounting
(specify with or without mounting angles)

Drum Sizes
S, S8 with 3.5” Core
L, L8 with 4” Core

DRUM CAPACITY

<table>
<thead>
<tr>
<th>CABLE DIAMETER (IN.)</th>
<th>1/4</th>
<th>5/16</th>
<th>3/8</th>
<th>7/16</th>
<th>1/2</th>
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<tbody>
<tr>
<td>DRUM &quot;S&quot; CAPACITY (FT.)</td>
<td>120</td>
<td>70</td>
<td>45</td>
<td>30</td>
<td>25</td>
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<tr>
<td>DRUM &quot;S8&quot; CAPACITY (FT.)</td>
<td>260</td>
<td>160</td>
<td>105</td>
<td>75</td>
<td>55</td>
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<tr>
<td>DRUM &quot;L&quot; CAPACITY (FT.)</td>
<td>175</td>
<td>105</td>
<td>65</td>
<td>45</td>
<td>30</td>
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<tr>
<td>DRUM &quot;L8&quot; CAPACITY (FT.)</td>
<td>390</td>
<td>240</td>
<td>160</td>
<td>110</td>
<td>80</td>
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</table>
Bloom Hydraulic Cable Winches
Model Selection from Performance Data

10:1 RATIO (optional)

20:1 RATIO (standard)
BLOOM™ WINCH
Dimensional Drawings
Series 800HC With S, S8, L and L8 Drum
Base Mount Model - Clutch Drive

<table>
<thead>
<tr>
<th>MOTOR DESIGNATION</th>
<th>3.0</th>
<th>4.0</th>
<th>6.2</th>
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<td>A DIMENSION</td>
<td>15.91</td>
<td>16.03</td>
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<table>
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<th>DRUM DESIGNATION</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<tbody>
<tr>
<td>S</td>
<td>15.12</td>
<td>6</td>
<td>3.50</td>
<td>7.19</td>
<td>8.69</td>
<td>17.98</td>
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<tr>
<td>S8</td>
<td>15.12</td>
<td>8</td>
<td>4</td>
<td>7.19</td>
<td>8.69</td>
<td>17.98</td>
</tr>
<tr>
<td>L</td>
<td>18.12</td>
<td>6</td>
<td>3.50</td>
<td>10.19</td>
<td>11.69</td>
<td>20.98</td>
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<tr>
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<td>11.69</td>
<td>20.98</td>
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</table>
800HC SERIES MODEL SELECTION

3.0T MOTOR
8H-3.0T-SC-20
8H-3.0T-SB-20
8H-3.0T-LC-20
8H-3.0T-LB-20

6.2T MOTOR
8H-6.2T-SC-20
8H-6.2T-SB-20
8H-6.2T-LC-20
8H-6.2T-LB-20
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.