



# WARN Industrial Winch

| Model  | Part Number | Motor Type                   |
|--|-------------|------------------------------|
| Series 30XL-LP Hydraulic Winch Manual Clutch | 80511       | Hydraulic<br>14.6 ci (240cc) |



The Warn Series XL product line combines durable cast iron construction, high efficiency hydraulic motor, and a robust 2X rated load braking system with a permanently lubricated and hardened 2-stage planetary gear train for superior intermittent-duty performance for loads up to 30,000 lbs. Winches are also available with manual or air clutches and 2 drum widths. A roller tension plate is standard along with bi-directional operation and a variety of mounting options to fit a variety of applications.

Warn Series XL winches are not suitable for hoisting applications or movement of persons.

### Accessories

| Description:                      | Part Number |
|-----------------------------------|-------------|
| Fairlead SRS-XL-LONG              | 77869       |
| Wire Rope Assembly 5/8"x245' EIPS | 77454       |
| Snatch Block XL-60K LB            | 80858       |

| Engineering Data                                    |                     |       |           |
|---|---------------------|-------|-----------|
| Rated Pulling Force:                                | 30000               | lbf   | 13608 kgf |
| Drum Barrel Diameter:                               | 6.25                | in    | 159 mm    |
| Drum Flange Diameter:                               | 13.50               | in    | 343 mm    |
| Distance Between Flanges:                           | 14                  | in    | 356 mm    |
| Recommended Maximum Wire Rope Diameter:             | 5/8                 | in    | 15.9 mm   |
| Recommended Minimum Wire Rope Breaking Strength:    | 41200               | lbf   | 18688 kgf |
| Approximate Shipping Weight:                        | 361                 | lb    | 164 kg    |
| Duty Cycle (intermittent per SAE J706 section 6.2): | 1000                | ft    | 304.8 m   |
| Mounting Bolt Torque:                               | 159                 | ft*lb | 216 N*m   |
| Maximum Layers of Wire Rope:                        | 5                   |       |           |
| Gear Reduction:                                     | 36:1                |       |           |
| Brake Type:   | Spring Applied Disk |       |           |
| Contact / Remote Type:                              | N/A                 |       |           |

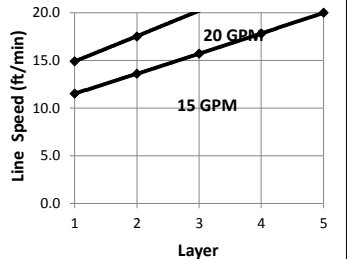
### Drum Rotation

Viewed from Motor End

### Standards Compliance

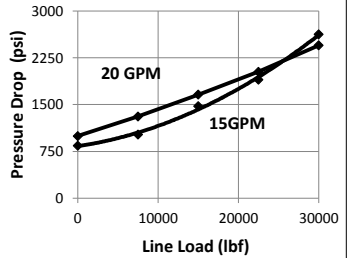
- SAE J706
- CE Machinery Directive 98/37/EC and 2006/42/EC

| Drum Layer | Line Load * |       |       | Line Speed 15 GPM |       | Line Speed 20 GPM |       | Drum Capacity |      |
|------------|-------------|-------|-------|-------------------|-------|-------------------|-------|---------------|------|
|            | lbf         | kgf   | kN    | ft/min            | m/min | ft/min            | m/min | ft            | m    |
| 1          | 30000       | 13608 | 133.4 | 11.5              | 3.5   | 14.9              | 4.5   | 36            | 11.0 |
| 2          | 25385       | 11514 | 112.9 | 13.6              | 4.1   | 17.5              | 5.3   | 78            | 23.8 |
| 3          | 22000       | 9979  | 97.9  | 15.7              | 4.8   | 20.2              | 6.2   | 127           | 38.7 |
| 4          | 19412       | 8805  | 86.3  | 17.8              | 5.4   | 22.9              | 7.0   | 183           | 55.8 |
| 5          | 17368       | 7878  | 77.3  | 20.0              | 6.1   | 25.5              | 7.8   | 245           | 74.7 |



\* Never exceed the Rated Pulling Force. Installation of a Rated Capacity Limiter is recommended.

| First Layer Performance |       |                         |       |                         |       |            |
|-------------------------|-------|-------------------------|-------|-------------------------|-------|------------|
| Line Load               |       | Pressure Drop at 15 GPM |       | Pressure Drop at 20 GPM |       | Duty Cycle |
| lbf                     | kgf   | psi                     | BAR   | psi                     | BAR   | min/10min  |
| 0                       | 0     | 840                     | 57.9  | 995                     | 68.6  | N/A        |
| 7500                    | 3402  | 1020                    | 70.3  | 1308                    | 90.2  | N/A        |
| 15000                   | 6804  | 1475                    | 101.7 | 1660                    | 114.5 | N/A        |
| 22500                   | 10206 | 1900                    | 131.0 | 2025                    | 139.6 | N/A        |
| 30000                   | 13608 | 2625                    | 181.0 | 2450                    | 168.9 | N/A        |



**WARN INDUSTRIES, INC**  
Industrial Products

Customer Service (North America): 1.800.543.9276  
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12900 S.E. Capps Road,  
Clackamas, OR USA 97015



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Model

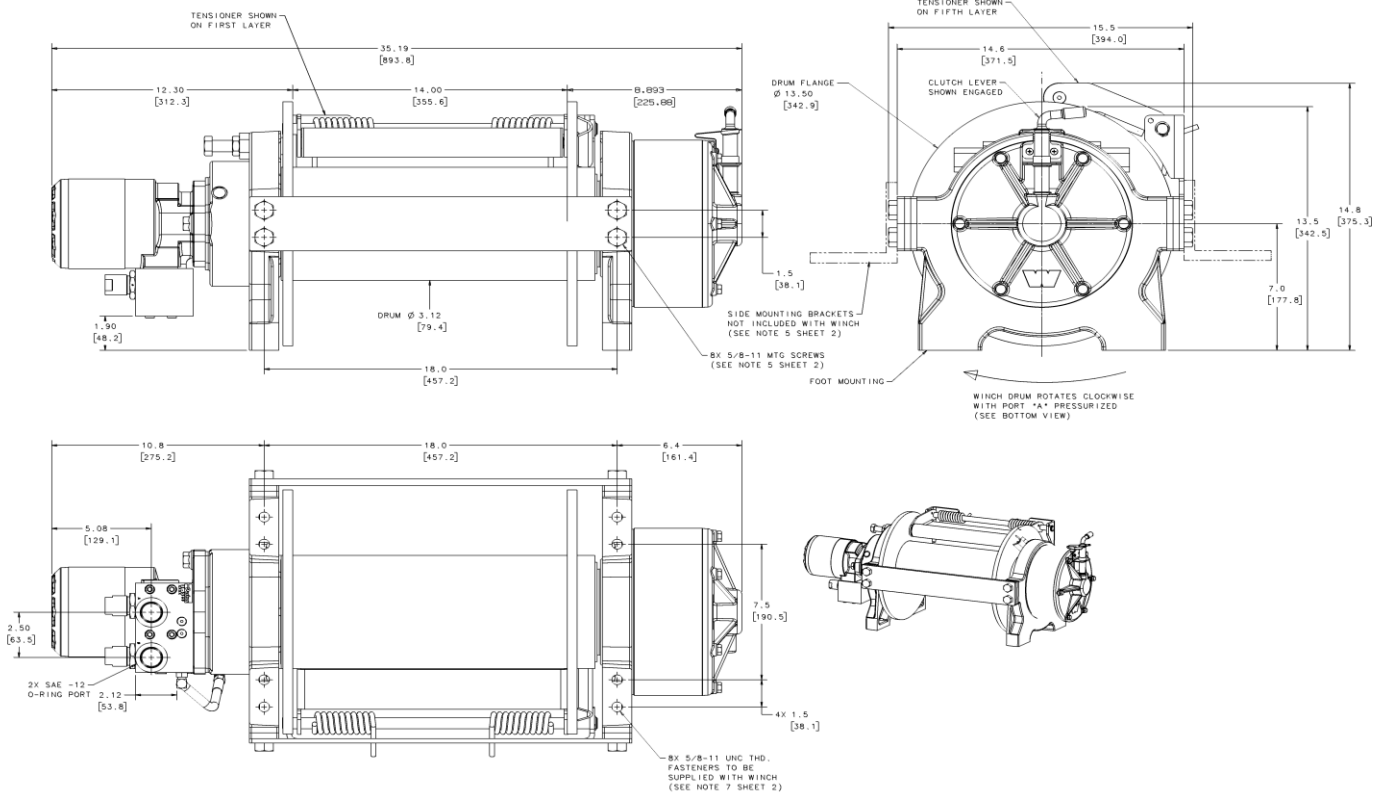
Part Number

Motor Type

**Series 30XL-LP  
Hydraulic Winch  
Manual Clutch**



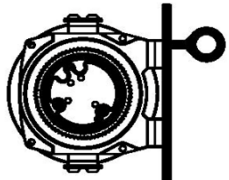
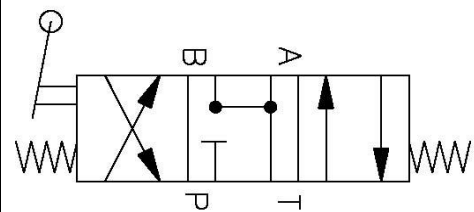




**80511**

Hydraulic  
14.6 ci (240cc)



Motor / Contactor may be rotated in 90 degree increments. Clutch housing may be rotated in 60 degree increments.

Units are given in inches [millimeters], unless otherwise specified

| Recommended Mounting- Always Observe Correct Drum Rotation   |  |   | Hydraulic System Specifications   |   |         |
|--|--|---|---|---|---------|
| Pull from bottom of winch<br>           | Pull from bottom of winch<br> | Pull from top of winch<br> | Maximum System Pressure:  | 3000 psi  | 207 BAR |
|  |  |   | Maximum Motor Pressure Drop:  | 3000 psi  | 207 BAR |
|  |  |   | Maximum Rated Input Flow:   | 20 GPM  | 76 LPM  |
|  |  |   | Control Valve Type:   | 3-position, 4-way, open center, spring return (motor spool) |         |
| <b>Control Valve Schematic</b>   |  |   |   |   |         |
|                                       |  |   |   |   |         |
| Feet down<br>Pull from top of winch<br> | Pull from top of winch<br>    | Pull from top of winch<br> |  |   |         |
| Feet down without angle brace  | Feet down with angle brace   | Angle Braces Only   | Note: Drum rotates clockwise with Port A pressurized when viewed from gearbox end.    |   |         |

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