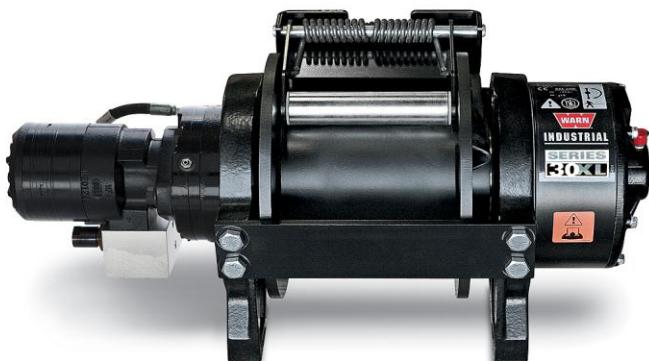


**INDUSTRIAL****WARN Industrial Winch****Model****Part Number****Motor Type****Series 30XL  
Hydraulic Winch  
Air Clutch****77900**Hydraulic  
10.4 ci (170cc)

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-STD	77532
Wire Rope Assembly 5/8"x140' EIPS	77453
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:	8.0	in	203	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:	322	lb	146	kg
Duty Cycle (intermittent per SAE J706 section 6.2):	1000	ft	30.5	m
Mounting Bolt Torque:	159	ft*lbf	216	N*m
Maximum Layers of Wire Rope:			5	
Gear Reduction:			36:1	
Brake Type:			Spring Applied Disk	
Contactor / Remote Type:			N/A	

**Drum Rotation**

Viewed from Motor End

**Standards Compliance**

1. SAE J706
2. CE Machinery Directive 98/37/EC and 2006/42/EC

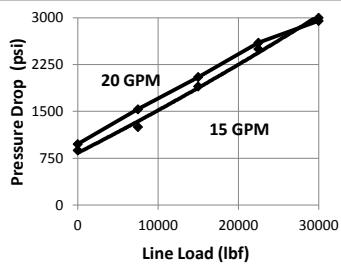
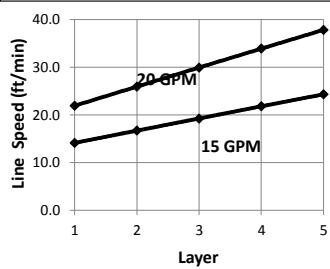
**Performance By Layer- 5/8" (15.9 mm) dia. rope**

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	14.1	4.3	21.9	6.7	20	6.1
2	25385	11514	112.9	16.7	5.1	25.9	7.9	44	13.4
3	22000	9979	97.9	19.2	5.9	29.9	9.1	72	21.9
4	19412	8805	86.3	21.8	6.6	33.9	10.3	104	31.7
5	17368	7878	77.3	24.3	7.4	37.8	11.5	140	42.7

\* 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	875	60.3	975	67.2	N/A
7500	3402	1250	86.2	1533	105.7	N/A
15000	6804	1900	131.0	2050	141.3	N/A
22500	10206	2500	172.4	2600	179.3	N/A
30000	13608	3000	206.8	2950	203.4	N/A



**WARN INDUSTRIES, INC**  
Industrial Products

Customer Service (North America): 1.800.543.9276  
Customer Service (International): 1.503.722.3008  
FAX: 1.503.722.3000 [www.warn.com](http://www.warn.com)

12900 S.E. Capps Road,  
Clackamas, OR USA 97015



## WARN Industrial Winch

### Model

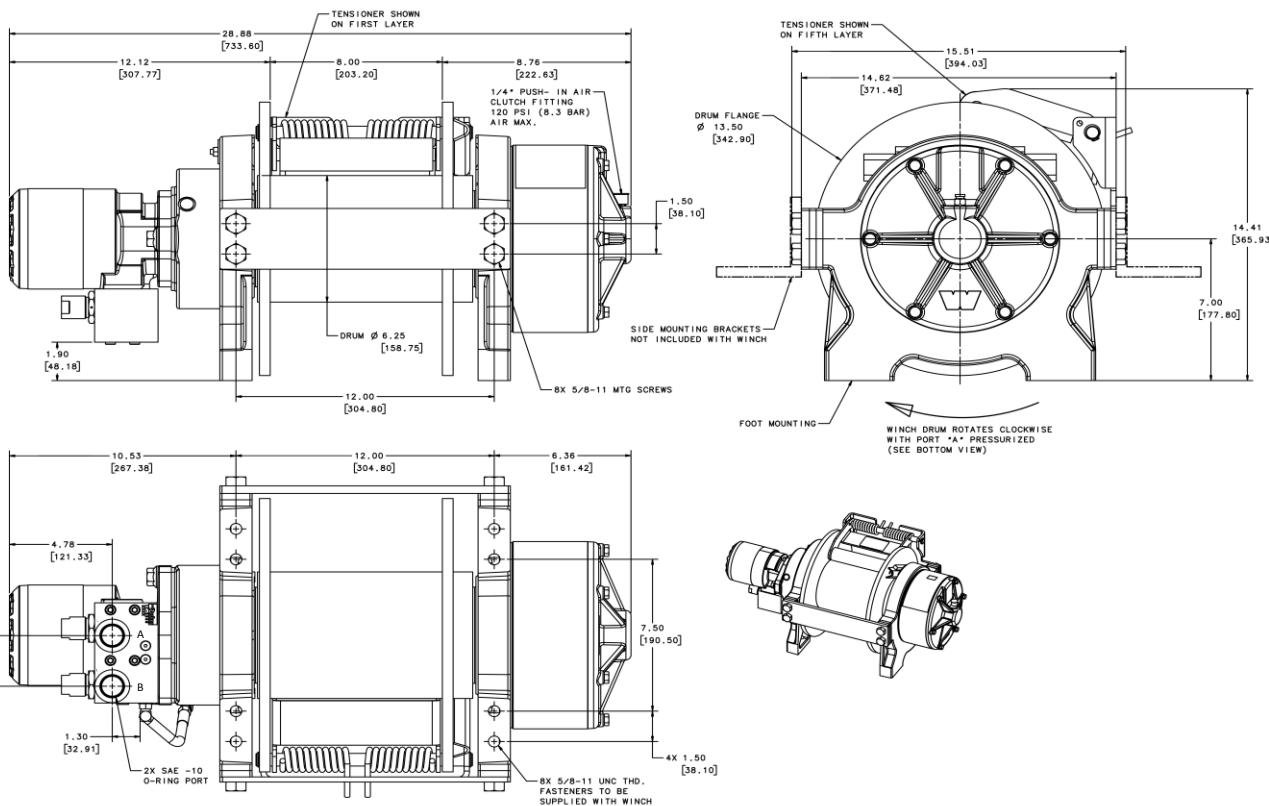
Series 30XL  
Hydraulic Winch  
Air Clutch

### Part Number

77900

### Motor Type

Hydraulic  
10.4 ci (170cc)



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

Pull from bottom of winch



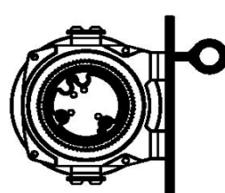
Feet down

Pull from bottom of winch



Feet forward

Pull from top of winch

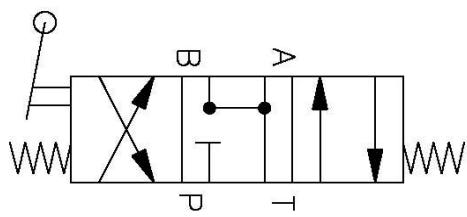


Feet forward

#### Hydraulic System Specifications

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)			

#### Control Valve Schematic

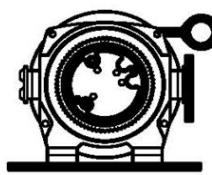


Pull from top of winch



Feet down without angle brace

Pull from top of winch



Feet down with angle brace

Pull from top of winch



Angle Braces Only

Note: Drum rotates clockwise with Port A pressurized when viewed from gearbox end.

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