



WARN Industrial Winch

Model

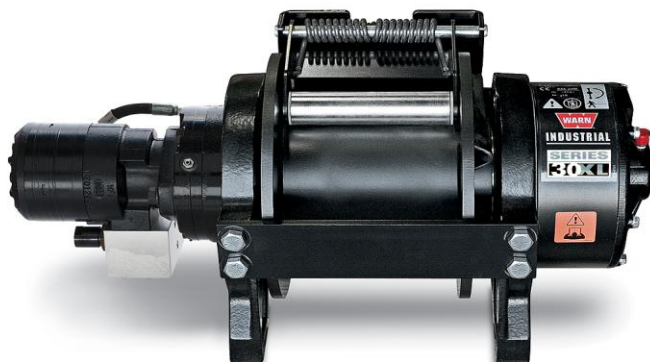
**Series 30XL
Hydraulic Winch
Air Clutch**

Part Number

77900

Motor Type

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:

Fairlead SRS-XL-STD
Wire Rope Assembly 5/8"x140' EIPS
Snatch Block XL-60K LB

Part Number

77532
77453
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*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

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

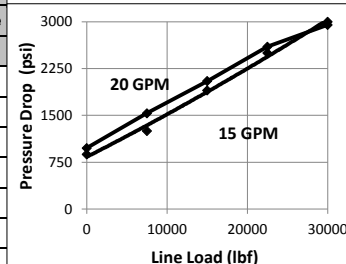
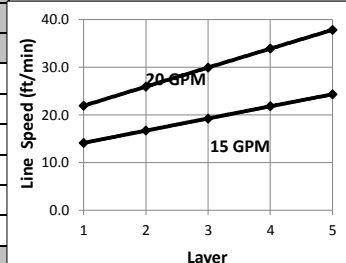
Performance By Layer- 5/8" (15.9 mm) dia. rope

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

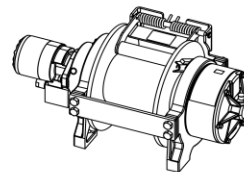
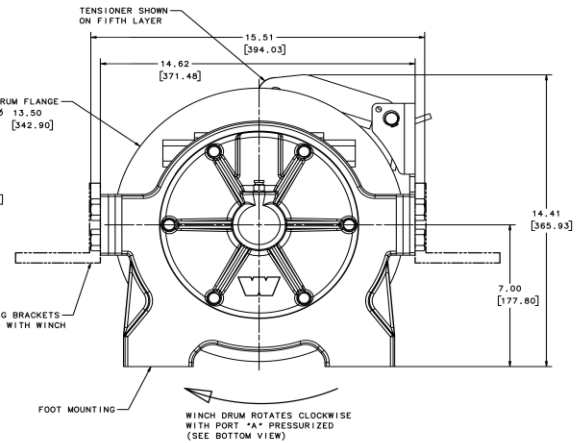
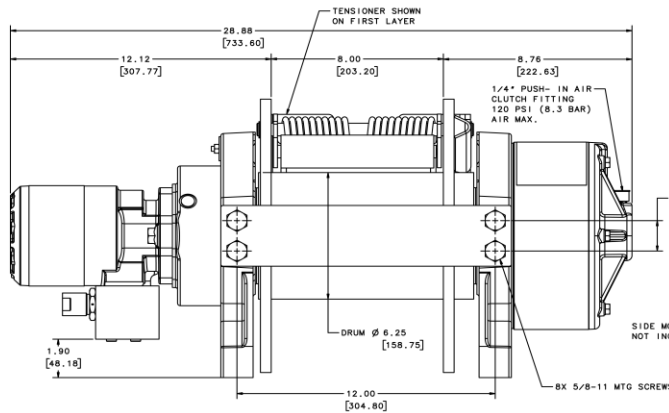
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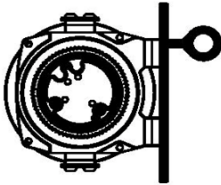
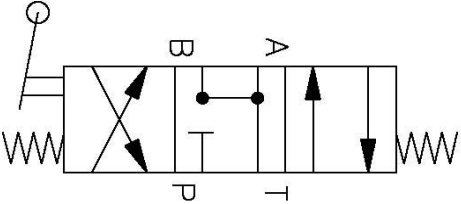

WARN Industrial Winch

Model	Part Number	Motor Type
Series 30XL Hydraulic Winch Air Clutch	77900	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			Hydraulic System Specifications		
Pull from bottom of winch	Pull from bottom of winch	Pull from top of winch	Maximum System Pressure:	3000 psi	207 BAR
			Maximum Motor Pressure Drop:	3000 psi	207 BAR
Feet down	Feet forward	Feet forward	Maximum Rated Input Flow:	20 GPM	76 LPM
Pull from top of winch	Pull from top of winch	Pull from top of winch	Control Valve Type:	3-position, 4-way, open center, spring return (motor spool)	
			Control Valve Schematic		
					
					
			Note: Drum rotates clockwise with Port A pressurized when viewed from gearbox end.		

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