

WARN Industrial Winch

Model	Part Number	Motor Type
Series 30XL Hydraulic Winch Manual Clutch	77890	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-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*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 Standards Compliance

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



Viewed from Motor End

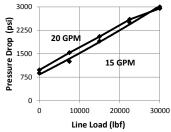
Performance By I	Layer- 5/8" (15.9 mm) dia.	rope
Line Load *	Line Speed 15 GPM Line 9	Sneed :

Drum Layer Line Load *		i *		Line Speed 15 GPM		Line Speed 20 GPM		Drum Capacity	
Druin Layer	lbf	kgf	kN	ft/min	m/min	ft/min	m/min	ft	E
1	30000	13608	133.4	14.1	4.3	21.9	6.7	36	11.0
2	25385	11514	112.9	16.7	5.1	25.9	7.9	78	23.8
3	22000	9979	97.9	19.2	5.9	29.9	9.1	127	38.7
4	19412	8805	86.3	21.8	6.6	33.9	10.3	183	55.8
5	17368	7878	77.3	24.3	7.4	37.8	11.5	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	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	

40.0 (iii 30.0 30.0 30.0 30.0 15 GPM 10.0 1 2 3 4 5 Layer



WARN INDUSTRIES, INC Industrial Products

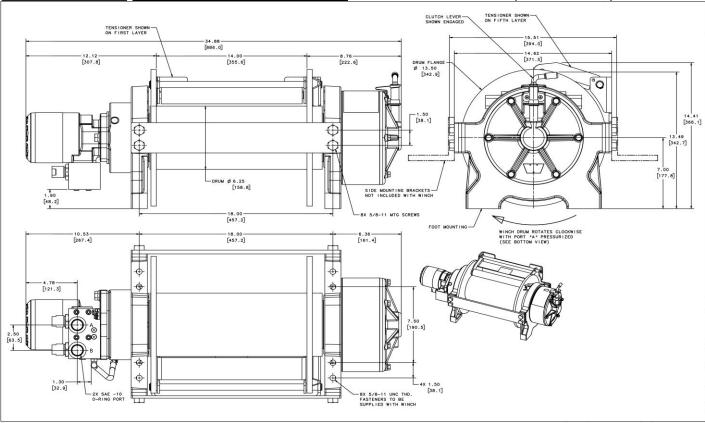
Customer Service (North America): 1.800.543.9276 Customer Service (International): 1.503.722.3008 FAX: 1.503.722.3000 www.warn.com

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



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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 207 BAR Maximum System Pressure: 3000 psi Maximum Motor Pressure Drop: 3000 207 BAR psi Maximum Rated Input Flow: 20 GPM 3-position, 4-way, open center, spring return Control Valve Type: (motor spool) **Control Valve Schematic** W \supset Feet down Feet forward Feet forward Pull from top of winch Pull from top of winch Pull from top of winch T в∮̂т ∮† A Note: Drum rotates clockwise with Port A pressurized when viewed from gearbox end. Feet down without angle brace Feet down with angle brace Angle Braces Only

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