

WARN Industrial Winch

Model	Part Number	Motor Type
Series 20XL-LP Hydraulic Winch Manual Clutch	78980	Hydraulic 11.9 ci (195cc)



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 9/16"x140" EIPS
 77451

 Snatch Block XL-60K LB
 80858

Engineering Data								
Rated Pulling Force:	20000	lbf	9072	kgf				
Drum Barrel Diameter:	5.75	in	146	mm				
Drum Flange Diameter:	12.25	in	311	mm				
Distance Between Flanges:	8	in	203	mm				
Recommended Maximum Wire Rope Diameter:	9/16	in	14.3	mm				
Recommended Minimum Wire Rope Breaking Strength:	33600	lbf	15241	kgf				
Approximate Shipping Weight:	297	lb	135	kg				
Duty Cycle (intermittent per SAE J706 section 6.2):	2760	ft	841.2	m				
Mounting Bolt Torque:	159	ft*lbf	216	N*m				
Maximum Layers of Wire Rope:	5							
Gear Reduction:	28.5:1							
Brake Type:	Spring Applied Disk							
Contactor / Remote Type:	N/A							

Drum Rotation Standards

Compliance



Viewed from Motor End

169.6

N/A

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

	Performance B	y Lay	yer- 9/16"	(14.3 mm) dia. rope
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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	20000	9072	89.0	16.4	5.0	21.6	6.6	21	6.4
2	16975	7700	75.5	19.2	5.9	25.5	7.8	46	14.0
3	14745	6688	65.6	22.1	6.7	29.4	9.0	74	22.6
4	13032	5911	58.0	25.0	7.6	33.2	10.1	106	32.3
5	11676	5296	51.9	28.0	8.5	37.1	11.3	142	43.3

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

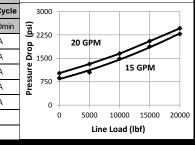
9072

Line Load		Pressure Drop	at 15 GPM	Pressure Drop	Duty Cy	
lbf	kgf	psi	BAR	psi	BAR	min/10m
0	0	865	59.6	1020	70.3	N/A
5000	2268	1050	72.4	1315	90.7	N/A
10000	4536	1490	102.7	1650	113.8	N/A
15000	6804	1880	129.6	2050	141.3	N/A

2280

First Layer Performance

60.0



WARN INDUSTRIES, INC Industrial Products

20000

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

2460

157.2

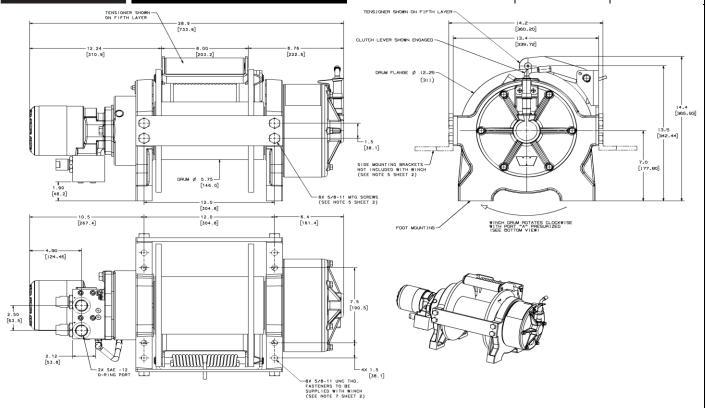
12900 S.E. Capps Road, Clackamas, OR USA 97015

²⁰ GPM 20 GPM 20 GPM 20 GPM 15 GPM 15 GPM 12 3 4 5 Layer



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 ${\it Motor / Contactor may be rotated in 90 degree increments. Clutch housing may be rotated in 60 degree increments.}$

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 Maximum Motor Pressure Drop: 3000 207 BAR Maximum Rated Input Flow: 20 GPM 76 LPM 3-position, 4-way, open Control Valve Type: center, spring return (motor spool) **Control Valve Schematic** W Feet down Feet forward Feet forward Pull from top of winch Pull from top of winch Pull from top of winch U в∤̂г ∮† A Note: Drum rotates clockwise with Port A pressurized when viewed Feet down without angle brace Feet down with angle brace Angle Braces Only

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