

WARN Industrial Winch

Model	Part Number	Motor Type
Series 20XL Hydraulic Winch Air Clutch	77560	Hydraulic 7.9 ci (130cc)



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 9/16"x245' EIPS
 77452

 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:	14	in	356	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:	322	lb	146	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					
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Drum Rotation Standards

Compliance
1. -SAE J706



Viewed from Motor End

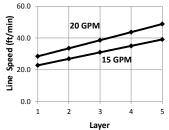
2.-CE Machinery Directive 98/37/EC and 2006/42/EC

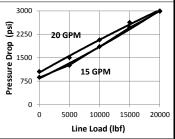
Performance By Layer- 9/16" (14.3 mm) dia. rop	эе
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Drum Layer	Line Load *		Line Speed 15 GPM		Line Speed 20 GPM		Drum Capacity		
Druin Layer	lbf l		kN	ft/min	m/min	ft/min	m/min	ft	m
1	20000	9072	89.0	22.8	6.9	28.5	8.7	36	11.0
2	16975	7700	75.5	26.9	8.2	33.5	10.2	79	24.1
3	14745	6688	65.6	31.0	9.4	38.6	11.8	129	39.3
4	13032	5911	58.0	35.0	10.7	43.7	13.3	185	56.4
5	11676	5296	51.9	39.1	11.9	48.8	14.9	248	75.6

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** psi psi BAR min/10min lbf kgf 870 60.0 1055 N/A 0 0 72.7 5000 2268 1256 86.6 1500 103.4 N/A 10000 4536 1855 127.9 2070 142.7 N/A 2470 15000 6804 170.3 2630 181.3 N/A 20000 9072 2985 205.8 3000 206.8 N/A





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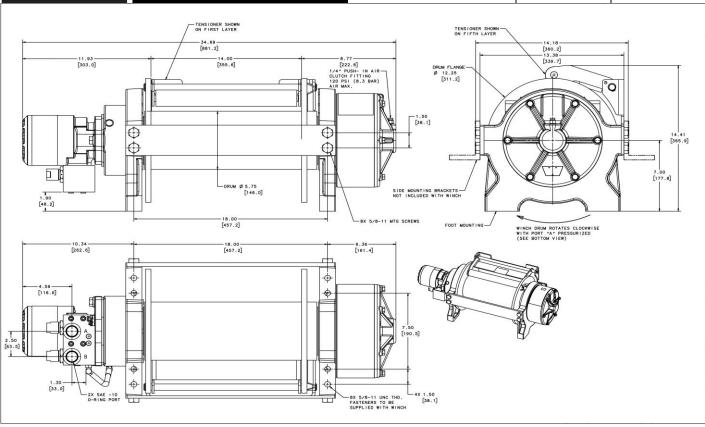
Customer Service (North America): 1.800.543.9276 Customer Service (International): 1.503.722.3008 FAX: 1.503.722.3000 www.warn.com

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 U 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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