



Liftstar Portable Air Winches

300 – 1,500 kg (660 – 3,300 lb)

Built-in handles and compact design make carrying easy

High efficiency planetary gear box and automatic disc brake ensure smooth operation

Lift-to-Shift variable speed lever provides precise control and built-in safety

Minimum 18:1 drum diameter to wire rope diameter

Optional emergency stop (standard on -CE units)

Drum guard optional but recommended for all applications (standard with -CE option)

Standard internal muffler reduces noise level

Reliable gear type air motor designed for even the harshest environments



Fabricated steel frame provides maximum durability

Ideal for:



Mining



Offshore



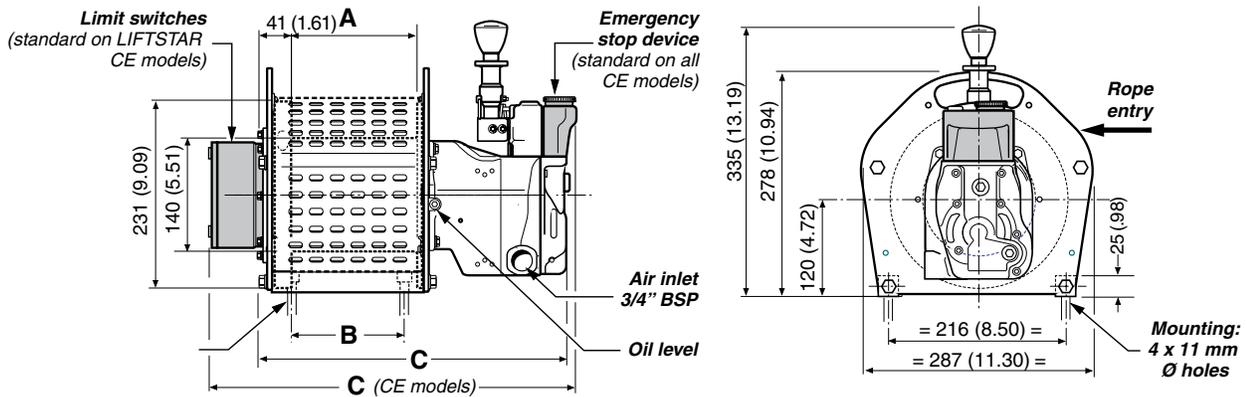
Marine



Liftstar Portable Air Winches

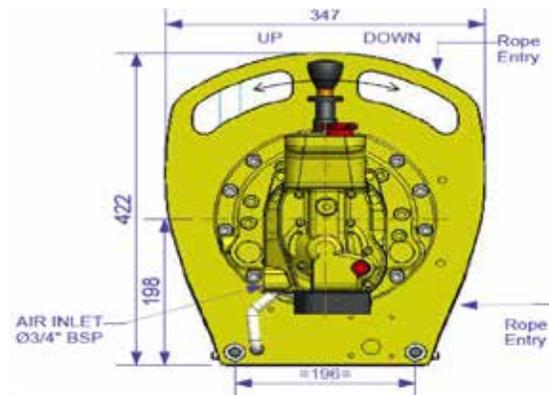
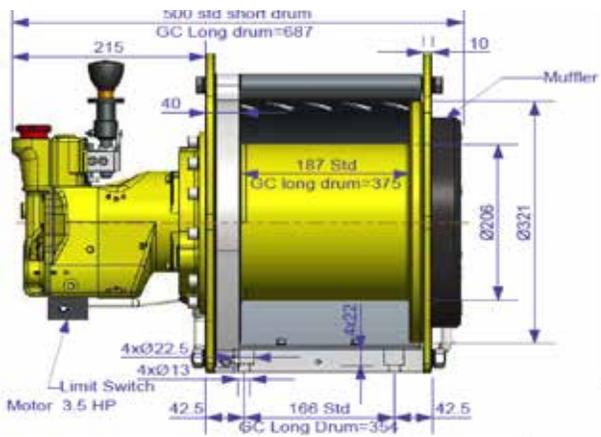
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With a tough, yet compact design, Ingersoll Rand Liftstar portable winches are easy to carry. Their rugged gear motors have only two moving parts which makes them virtually maintenance free even after being stored. They are easy to transport wherever you need them and rugged enough to give you the lifting power you need no matter how harsh the conditions. The LS2-1500R is designed to operate in temperatures down to -20 °C. The CE version of the LS2-1500R is also suitable for ATEX group II (non-mining) category 2 applications and ATEX group I (mining) category M2 applications.



CE Models	A mm (in)	B mm (in)	C mm (in)
LS2-300R-CE	155 (6.10)	140 (5.51)	461 (18.15)
LS2-600R-CE	155 (6.10)	140 (5.51)	461 (18.15)
LS2-300RGC-CE	311 (12.24)	296 (11.65)	617 (24.29)
LS2- 600RGC-CE	311 (12.24)	296 (11.65)	617 (24.29)

Non CE Models	A mm (in)	B mm (in)	C mm (in)
LS2-300R-CE	155 (6.10)	140 (5.51)	360 (14.17)
LS2-600R-CE	155 (6.10)	140 (5.51)	360 (14.17)
LS2-300RGC-CE	311 (12.24)	296 (11.65)	516 (20.31)
LS2-600RGC-CE	311 (12.24)	296 (11.65)	516 (20.31)



CE Models	A mm (in)	B mm (in)	C mm (in)
LS2-1500R-L-CE	187 (7.36)	166 (6.54)	500 (19.69)
LS2-1500RGC-L-CE	375 (14.76)	354 (13.94)	687 (27.05)

Non CE Models	A mm (in)	B mm (in)	C mm (in)
LS2-1500R-L	187 (7.36)	166 (6.54)	465 (18.31)
LS2-1500RGC-L	375 (14.76)	354 (13.94)	652 (25.67)

Dimensions shown are mm. Dimensions in Brackets [] are inches. Dimensions are subject to change. Contact factory for certified drawings.

Options and Accessories



Cast Iron Control Pendant



Drum Guard



Marine Grade Paint



Airline Accessories

General Performance. Performance based on a 5:1 design factor

Model	Line Pull Capacity			Line Speed		
	First Layer kg (lb)	Mid Drum kg (lb)	Top Layer kg (lb)	First Layer m/min (fpm)	Mid Drum m/min (fpm)	Top Layer m/min (fpm)
LS2-300R-L	300 (660)	300 (660)	300 (660)	40 (131)	40 (131)	40 (131)
LS2-300RGC-L	300 (660)	300 (660)	300 (660)	40 (131)	40 (131)	40 (131)
LS2-600R-L	600 (1,320)	600 (1,320)	600 (1,320)	20 (66)	20 (66)	20 (66)
LS2-600RGC-L	600 (1,320)	600 (1,320)	600 (1,320)	20 (66)	20 (66)	20 (66)
LS2-1500R-L	1,500 (3,300)	1,500 (3,300)	1,500 (3,300)	9.5 (31)	9.5 (31)	9.5 (31)
LS2-1500RGC-L	1,500 (3,300)	1,500 (3,300)	1,500 (3,300)	9.5 (31)	9.5 (31)	9.5 (31)

General Characteristics. Performance at 6.3 bar (90 psi) air inlet pressure with the motor running

Model	Motor	Lifting Speed at Top Layer	Air Consumption with Rated Load	Air Volume Needed to Move Rated Load at Top Layer	Sound Level as per EN 14492-1	Net Weight
	kW (hp)	m/min (fpm)	m ³ /min (ft ³ /min)	3 m (10 ft)	dB(A)	kg (lb)
LS2-300R-L	2.6 (3.5)	40 (131)	4 (141)	0.3 (10.8)	92	42 (93)
LS2-300RGC-L	2.6 (3.5)	40 (131)	4 (141)	0.3 (10.8)	92	49 (108)
LS2-600R-L	2.6 (3.5)	20 (66)	4 (141)	0.6 (21.4)	92	42 (93)
LS2-600RGC-L	2.6 (3.5)	20 (66)	4 (141)	0.6 (21.4)	92	49 (108)
LS2-1500R-L	2.6 (3.5)	9.5 (31)	4.8 (169)	1.5 (53.0)	90	85 (187)
LS2-1500RGC-L	2.6 (3.5)	9.5 (31)	4.8 (169)	1.5 (53.0)	90	100 (220)

Drum capacity

Model	Minimum Rope Breaking Force ⁽¹⁾ kN (lbs)	Recommended Rope Diameter mm (in)	Drum Capacity per Layer ⁽²⁾ m (ft)							Max. Rope Storage Capacity ⁽³⁾ m (ft)
			Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6	Layer 7	
LS2-300R-L	15 (3,370)	5 (3/16)	12 (39)	26 (85)	41 (135)	57 (187)	74 (243)	92 (302)	110 (361)	150 (492)
LS2-300RGC-L	15 (3,370)	5 (3/16)	26 (85)	54 (177)	85 (279)	117 (384)	152 (499)	188 (617)	226 (741)	307 (1,007)
LS2-600R-L	30 (6,800)	6.5 (1/4)	9 (30)	20 (66)	32 (105)	45 (148)	58 (190)	- (-)	- (-)	89 (292)
LS2-600RGC-L	30 (6,800)	6.5 (1/4)	19 (62)	42 (138)	66 (217)	93 (305)	121 (397)	- (-)	- (-)	183 (600)
LS2-1500R-L	75 (16,900)	11 (7/16)	8 (26)	20 (66)	33 (108)	- (-)	- (-)	- (-)	- (-)	61 (200)
LS2-1500RGC-L	75 (16,900)	11 (7/16)	20 (66)	43 (141)	70 (230)	- (-)	- (-)	- (-)	- (-)	128 (420)

⁽¹⁾ Recommended minimum breaking force of wire rope based on top layer line pull rating.

⁽²⁾ Drum Capacity is based on tightly wound wire rope and 1/2" freeboard from the top of the flange to the top layer. Recommended drum working capacity is 80% of values shown.

⁽³⁾ Max storage capacity is tightly wound with no freeboard.

How to Order

Model Series		Capacity	Drum	Control type	Control length	Options
LS2		300R	No letter	L	5M	CM
Liftstar	300 kg	Standard	Lever control	5 meters	Cold weather with material traceability	W1
2nd Generation	600 kg	Long drum	Alloy precision PHS pendant	(for pendant controlled winch)	Drum guard for non-CE models	W2
1500R	1500 kg		Cast iron precision PHS pendant		Filter + lubricator (shipped loose)	W3
					Filter + lubricator + regulator (shipped loose)	W4
					Filter + lubricator + regulator (fitted on winch, applies to 1500 kg model only)	-CE
					Filter + lubricator + regulator + water separator (fitted on winch, applies to 1500 kg model only)	For Compliance with the European Machinery Directive for Pullstar pulling models
					3.1 material traceability certificates as per EN 10204 on main load bearing parts	
					Marine paint finish	
					Offshore paint including sandblasting	
					Press roller (1500 kg model only)	

Special Orders



Ingersoll Rand can provide customized solutions for your application. Whether you need to move specialized or high capacity loads or have custom control requirements, we can build the right solution for you. Ingersoll Rand's global account management team, dedicated project managers and engineering teams are focused exclusively on high capacity hoists and winches. From evaluation to installation and beyond, contact us to build your custom solution today.

- Design for custom capacities
- Custom control systems
- Custom product modifications
- Witness testing and complete certification to most global standards
- Full engineering capabilities including data packages and CAD drawings
- Global Account Management and dedicated project management teams
- Onsite services available including presale evaluation, installation and maintenance



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