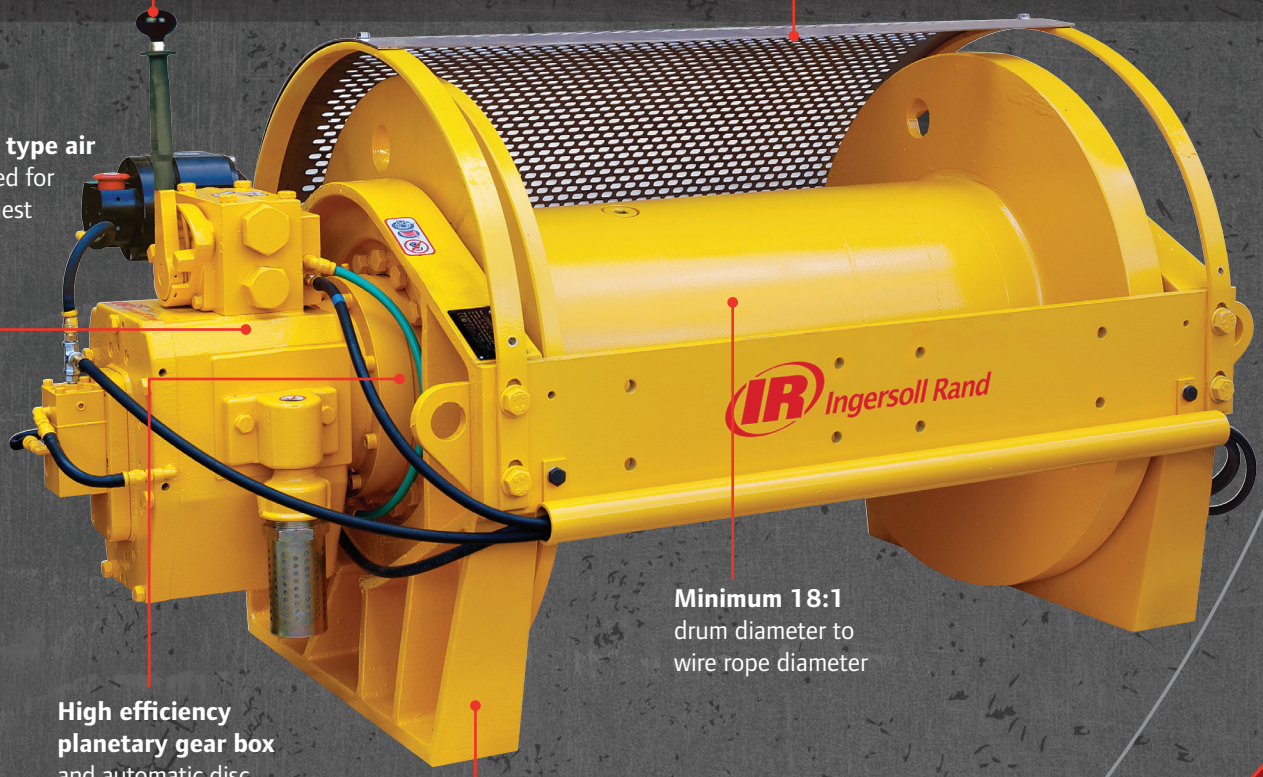
Liftstar Heavy Air Winches

2,000 - 5,000 kg (4,400 - 11,000 lb)

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

Adjustable drum guard– optional but recommended for all applications (standard with –CE option)

Reliable gear type air motor designed for even the harshest environments



Minimum 18:1 drum diameter to wire rope diameter

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

Rugged cast steel construction delivers long-life and durability

Ideal for:

Onshore

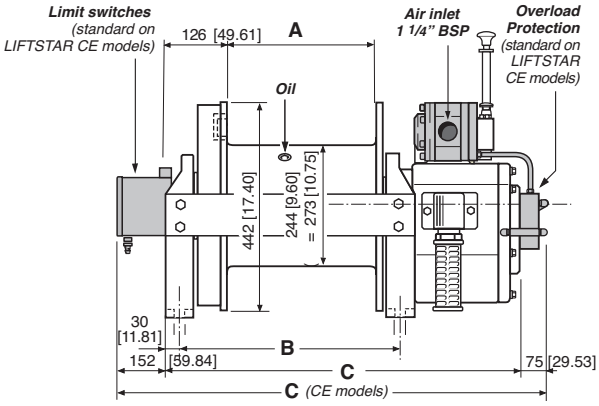
Offshore

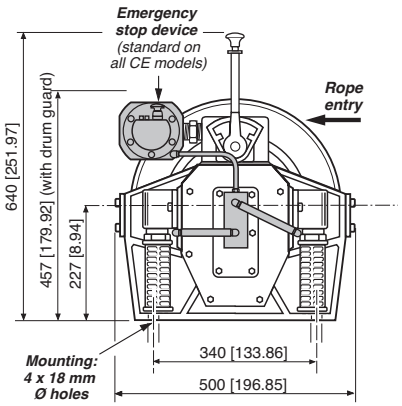
Marine

Liftstar Heavy Air Winches

2,000 - 5,000 kg (4,400 - 11,000 lb)

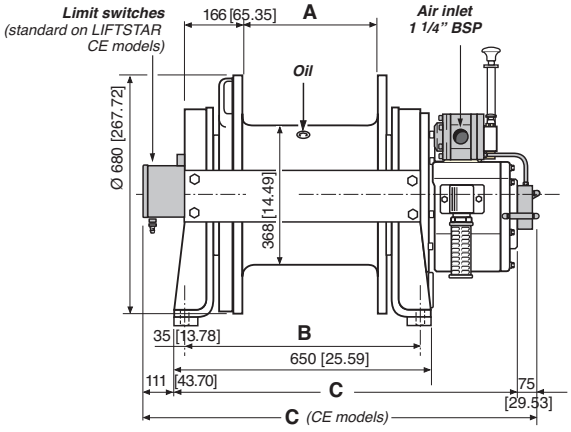
Ingersoll Rand Liftstar heavy winches incorporate a cast iron and steel design with a rugged gear motor for ultimate durability. They are available with options to suit any need no matter where in the world you operate. Reliable and simple to maintain, Liftstar winches are specifically built for the types of environments where lesser winches would fail.

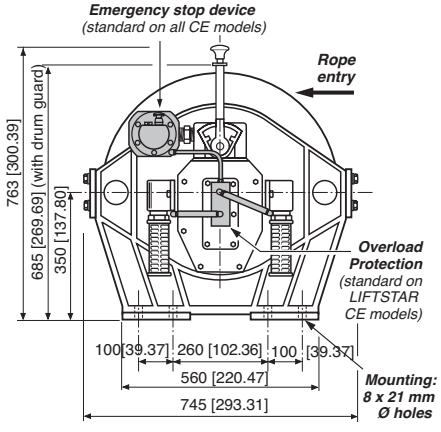




CE Models	A mm (in)	B mm (in)	C mm (in)
LS2000R-L-CE	302 (11.89)	449 (17.68)	952 (37.48)
LS2000RGC-L-CE	485 (19.09)	634 (24.96)	1,137 (44.76)

Non CE Models	A mm (in)	B mm (in)	C mm (in)
LS2000R-L	302 (11.89)	449 (17.68)	794 (31.26)
LS2000RGC-L	485 (19.09)	634 (24.96)	904 (35.59)

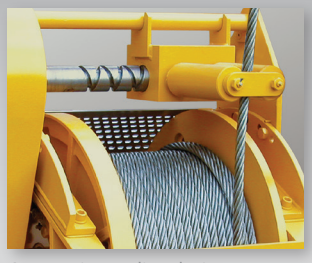




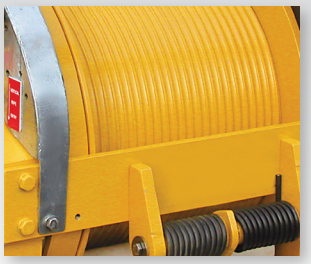
CE Models	A mm (in)	B mm (in)	C mm (in)
LS5000R-L-CE	355 (13.98)	580 (22.83)	1,090 (42.91)
LS5000RGC-L-CE	728 (28.66)	953 (37.52)	1,463 (57.6)

Non CE Models	A mm (in)	B mm (in)	C mm (in)
LS5000R-L	355 (13.98)	580 (22.83)	904 (35.59)
LS5000RGC-L	728 (28.66)	953 (37.52)	1,277 (50.28)

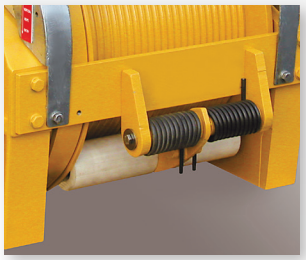
Dimensions shown are mm. Dimensions in Brackets [ ] are inches. Dimensions are subject to change. Contact factory for certified drawings."



Automatic spooling device



Grooved Drum



Rope press roller assembly

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

	Line Pull Capacity			Line Speed		
Model	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)
LS2000R-L	2,800 (6,170)	2,400 (5,290)	2,000 (4,400)	20 (66)	20 (66)	20 (66)
LS2000RGC-L	2,800 (6,170)	2,400 (5,290)	2,000 (4,400)	20 (66)	20 (66)	20 (66)
LS5000R-L	6,500 (14,330)	5,750 (12,670)	5,000 (11,000)	10 (33)	10 (33)	10 (33)
LS5000RGC-L	6,500 (14,330)	5,750 (12,670)	5,000 (11,000)	10 (33)	10 (33)	10 (33)

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

	Motor	Lifting Speed at Top Layer	Air Consumption with Rated Load	Air Volume Needed to Move Rated Load at Top Layer	Stall	Sound Level as per EN 14492-1	Net Weight
Model	kg (lb)	m/min (fpm)	m^3/min (ft^3/min)	3 m (10 ft)	kg (lb)	dB(A)	kg (lb)
LS2000R-L	10.7 (14.3)	20 (66)	5 (177)	10 (353)	3,953 (8,716)	95	230 (507)
LS2000RGC-L	10.7 (14.3)	20 (66)	5 (177)	10 (353)	3,953 (8,716)	95	283 (624)
LS5000R-L	10.7 (14.3)	10 (33)	10 (353)	3.0 (107.0)	11,968 (26,386)	87	645 (1,422)
LS5000RGC-L	10.7 (14.3)	10 (33)	10 (353)	3.0 (107.0)	11,968 (26,386)	87	760 (1,676)

Drum capacity

	Minimum Rope Breaking Force[1]	Recommended Rope Diameter	Drum Capacity per Layer[2] m (ft)						Max. Rope Storage Capacity[3]
Model	kN (lbs)	mm (in)	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6	m (ft)
LS2000R-L	98 (22,000)	13 (1/2)	17 (56)	36 (118)	57 (187)	79 (259)	103 (338)	- (-)	156 (512)
LS2000RGC-L	98 (22,000)	13 (1/2)	31 (102)	65 (213)	102 (335)	142 (466)	- (-)	- (-)	230 (755)
LS5000R-L	244 (55,000)	20 (3/4)	20 (65)	42 (137)	66 (216)	92 (301)	120 (393)	150 (492)	182 (597)
LS5000RGC-L	244 (55,000)	20 (3/4)	41 (134)	88 (288)	138 (452)	193 (633)	252 (826)	316 (1,036)	384 (1,259)

[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" freeboad 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

LS **2000R** **GC** - **PH** **5M** - **KQZ-CE**

Series
LS Liftstar

Capacity
2000R 2,000 kg
5000R 5,000 kg

Drum
No letter standard
GC long drum

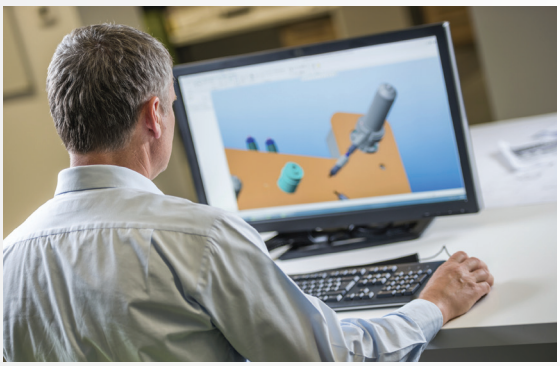
Control
L lever (control)
PH precision pendent, alloy, type PHS
PHR cast iron PHS pendent

Control distance
5M 5 meters (for pilot controlled winch)

Options
CM Low Temp Design (-20°C)
FF Skid frame + auto drum + disc brakes
FK Drum auto brake and skid (no disc)
G Drum guard for Non CE models
J Air Line Accessories[1]
K Skid frame
L Automatic spooling device
M Material traceability certificate as per EN 10204 3.1 on main load bearing parts
P Marine paint finish
QZ Offshore paint incl. sandblasting
R Press roller
W1 ABS witness test.
W2 DNV witness test.
W3 LRS witness test.
W4 Client witness of load test.
-CE Compliance with the European machinery directive

[1] Add 1 for filter, 2 for lubricator, 3 for regulator (e.g. J12). For protection during shipment and due to the wide range of installation variables, the airline accessories are shipped loose for client installation.

Special Orders



A significant portion of our business is providing customized solutions for specific applications. We recognize that not all jobs are created equal and that the most cost-effective solutions may not be in an off-the-shelf item. We've designed and manufactured winches and hoists for applications as simple as moving bags of lettuce, to as intricate as installing critical payloads on space vehicles, including high capacity loads 100 tons and above.

- Design for custom capacities
- Custom control systems
- Custom product modifications
- Witness testing and complete certification to most global standards
- Full data package with CAD drawings
- Dedicated project management for your project from conception to delivery
- Onsite services available including presale and evaluation

Ingersoll Rand

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