

Product Features and Specifications

LS2-150RLP-L-E Liftstar™ Pneumatic ManRider Winch - Capacity: 330 lbs (150 kg) PFS-LS2-150RLP-1118010

The LS2-150RLP-L-E pneumatic ManRiding winch is specially designed for safe and reliable personnel lifting operations by means of a safety harness on offshore rigs and platforms in a heavy duty and critical offshore working environment.

It is designed to meet the latest NPD and European Machinery Directives and is type approved by DNV.

It is delivered with the CE mark and an EC declaration of conformity.

Standard Features

- **Compact modular construction:** Save space on the drill floors
 - Easy inspection and maintenance.
- **Design factor 10:1 on main load bearing parts.**
- **Gear type air motor:** Simple rotary motor with two moving parts only (rotors)
 - Rotors made from composite material — Ability to accept contaminated air
 - High starting torque — Good spotting capability.
- **High efficiency planetary gear box:** Totally enclosed within the drum for better space saving — Planetary type for better efficiency.
- **Internal automatic multi-disc brake:** Fully enclosed for better protection & better corrosion resistance.
- **External automatic band brake (directly acting onto the drum for total safety):**
Activated by fail safe automatic brake cylinder (spring applied) — The band brake is manufactured from stainless steel for superior corrosion protection.
Note: In case of power failure, both the band brake and the disc brake will automatically apply.
- **Overload protection device:** Automatically stops the winch from lifting in case of overload exceeding 130% SWL, both brakes are applied automatically.
- **Main power emergency stop device:** Allows the operator to quickly and safely stop the winch in case of an emergency situation.
- **Slack wire detector:** Automatically stops the winch from paying out in case of slack wire — Designed for vertical rope entry — Composite rollers and stainless steel guides offer maximum protection against wear and corrosion — “Window” type design to avoid wire rope from getting out of the roller.
- **Top and Bottom limit switches:** Automatically stops the winch when the travel exceeds the pre-determined working distance
 - Simple adjustment method requires only a screwdriver.
- **Assisting spooling device:** Presses the wire rope onto the drum to improve winding, specially at no load condition — Composite rollers on galvanized steel guides for maximum wear and corrosion resistance.
- **Total drum guarding system:** Operator is fully protected from moving parts — Rugged stainless steel construction — Meets stringent European standard EN953 for machine guarding.
- **Helical grooved drum:** Ensure better rope spooling than plain drum — Allows greater fleet angle up to 2° — Specially designed for 10 mm wire rope — Standard under wound configuration.
- **Wedge style cable anchor:** Simplifies wire rope change-out and installation.
- **Local lever throttle control:** Precise spotting control with infinitely variable speed — “Press and shift” throttle lever prevents accidental throttle movements — Throttle handle is located on the right hand side of the winch (operator standing behind the winch).



LS2-150RLP-L-E

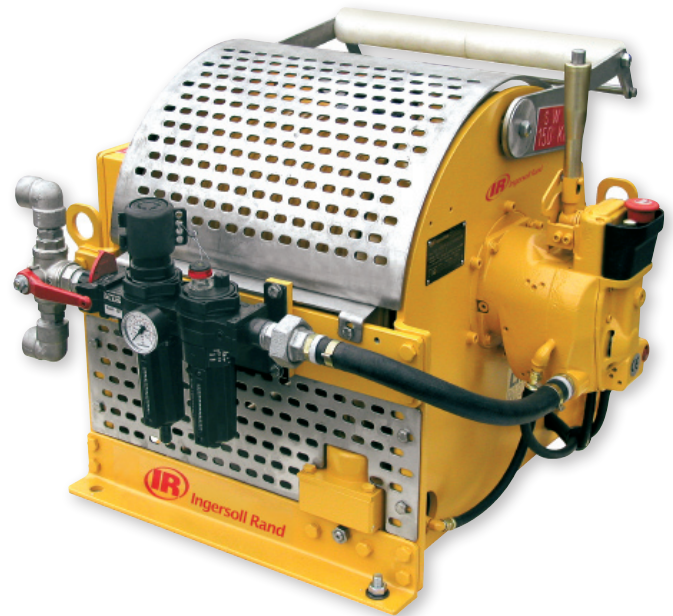
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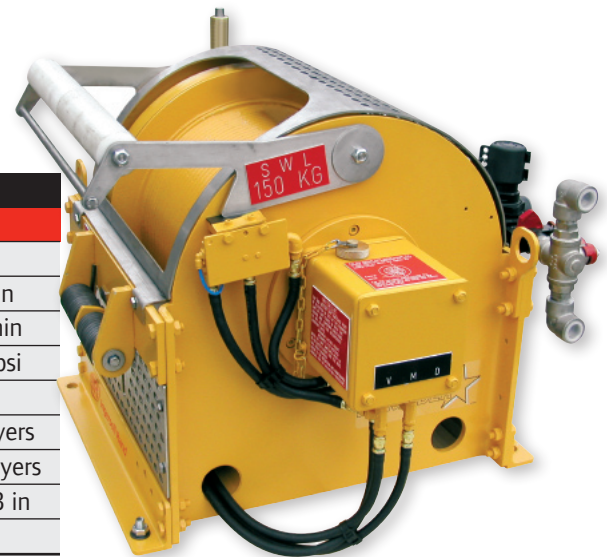
Standard Features (continued)

- **Pre-equipped Emergency lifting and lowering device:** Allows both lifting and lowering of the ManRider in case of main power failure — Includes a 3 way / 2 position valve with a secondary air inlet (3/4 inch BSP) which must be connected on site to a nitrogen bottle.
Note: Pressurised nitrogen bottle is not supplied.
- **Lifting lugs:** Easily accessible lifting points — Accommodate slings or hooks.
- **Filter, regulator & lubricator:** FRL package mounted directly on the operator side of the winch.
- **Marine paint for corrosion protection.**
- **Design temperature TD = -20°C.**
- **Suitable for Zone 1 and 2 as per ATEX directive 94/9/EC.**
- **FEM Classification 4m.**



Options

- **Pilot pendent control version available on request.**
- **3rd party certification by DNV.**
- **Offshore paint with sandblasting.**



Specifications at 90 psi (6.2 bar)		
	Metric	Imperial
Rated capacity	150 kg	330 lbs
Lifting speed (at rated load)	0 to 30 m/min.	0 to 98.4 f/min
Free air consumption	0 to 2.2 m ³ /min.	0 to 77.7 ft ³ /min
Working pressure range	5 to 7 bar	72.5 to 101.5 psi
Recommended rope diameter	10 mm	3/8"
Working rope capacity	54 m on 2 layers	177.2 ft on 2 layers
Storage rope capacity	154 m on 5 layers	505.25 ft on 5 layers
Overall dimensions (L x W x H)	779 x 697 x 585 mm	30.7 x 27.4 x 23 in
Estimated weight (without wire rope)	210 kg about	463 lbs

**Safety is our
No. 1 Priority**

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