

# Liftstar™ Hydraulic ManRider Winch

150 kg (330 lbs) Capacity

Model: LS2-150HLP-L-E

The LS2-150HLP-L-E hydraulic 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.

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

The winch is prepared for connection to an external hydraulic power unit of constant pressure type.

Pressure regulation, flow limitation valves are integrated into the winch.



LS2-150HLP-L-E  
(with local lever throttle control)

## Standard Features:

- **Compact modular construction:** Save space on the drill floors — Easy inspection and maintenance — Chassis skid incorporates a drip pan to avoid oil leakage on the drill floor.
- **Design factor 10:1 on main load bearing parts.**
- **Hydraulic vane motor – All steel construction.**
- **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 and better corrosion resistance.
- **External automatic band brake (directly acting onto the drum):** The brake band is manufactured from stainless steel for superior corrosion resistance — Works independently from the internal disc brake for extra safety.

*Note: In case of power failure, both the band brake and the disc brake will automatically apply.*

- **Dynamic lowering control by counter balance valve avoiding a permanent friction of the brakes.**
- **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 located near by the control lever.

Continued on back page

## Standard Features (continued)

- **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 thanks to 2 knobs located on the rear side of the winch.
- **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.
- **Stainless steel enclosure:** Operator is fully protected from moving parts — 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 — Throttle handle is located on the right hand side of the winch.
- **Emergency lifting and lowering device:** Allows both lifting and lowering of the ManRider in case of main power failure — Includes a 50 litre hydro-pneumatic accumulator and a safety block (delivered separately). 2100 mm height x 230 mm dia. — The accumulator is always under pressure from the main hydraulic line.
- **Marine paint for corrosion protection. (DFT 150 microns)**
- **Design temperature TD = - 20°C.**
- **Suitable for Zone 1 and 2 as per ATEX directive 94/9/EC.**
- **FEM Classification 4m.**

## Options:

- **Additional hydraulic remote control:** Hand held remote control, joystick type, with 6 m hoses (and emergency switch).

*Note: The local lever throttle control has priority over the remote control.*

- **Radio remote control:** The ManRider winch can be supplied with a radio remote control instead of the standard local throttle/hydraulic remote control.
- **Offshore paint with sandblasting. (DFT 290 microns)**
- **3rd party certification by DNV.**

### Specifications

Rated capacity	150 kg
Rated working pressure:	105 bar
Calibration pressure:	125 bar
Maximum rated flow:	10l/min
Lifting speed (at rated load):	0 to 30 m/min
Gear ratio:	15:1
Maximum drum torque:	28 m.daN
Recommended rope diameter:	10 mm
Working rope capacity:	54 m on 2 layers
Storage rope capacity:	150 m on 5 layers
Overall dimensions (L x W x H):	866 x 675 x 870 mm
Estimated weight (with the accumulator)	380 kg about



**LS2-150HLP-L-E**  
(with local lever throttle control)



**LS2-150HLP-LJC6M-E**  
(with local lever throttle control  
and additional hydraulic remote control)

**Safety is our  
No. 1 Priority**

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