

Hydraulic Release Shackles





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Application: For remote operation when manual unhooking of the load is not possible, safe or practical

Features & Benefits

- ▶ Subsea structure/pile installation and recovery
- ▶ Provides safe working environment for personnel
- ▶ Saves significant time during lifting and handling operations
- ▶ Various release options easily accommodated
- ▶ Supplied with Green Pin Sling Saver Shackle

Technical Specifications

- ▶ Maximum Vertical Lift (SWL): 55t – 1,500t
- ▶ Working Pressure: 205bar
- ▶ Service Temperature: 0°C to +45°C

Certificates & Documentation

- ▶ Designed to DNV Standards
- ▶ Lift equipment compliance certification
- ▶ Overload, Magnetic Particle Inspection, Ultrasonic Test Certificates where required, third party witnessed.
- ▶ Operations Manual
- ▶ Interface GA drawings

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Actuation Options

The following actuation methods are available in our systems as a primary or secondary method of operation.

- ▶ **Hydraulic Umbilical** – Standard actuation method, simple and effective.
- ▶ **Hotstab Interface** – A female hotstab interface to allow for full WROV actuation. Ideal for use in subsea environments.
- ▶ **Accumulator** – A pre-charged accumulator provides an efficient primary or secondary actuation method.
- ▶ **Radio Control** – Full electronic remote control allows for safer operation on topside applications.
- ▶ **Hydro-Acoustic Control** – Similar to that of the electronic remote control, only communications are via hydro-acoustic technology for subsea remote operation.

Other Additions/Capabilities

- ▶ **Shackle type** - Other shackle types can be accommodated should you have any specific requirement
- ▶ **Hydraulic power unit and hose reel** – built specifically to operate hydraulic release shackles that are powered by a hydraulic umbilical.
- ▶ Any **additional rigging** for loading and unloading, general handling or for stabilising the actuator unit can be provided if required



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Track Record

- ▶ **2014** Wheatstone Project, Technip – Supply of 24 Hydraulic Release Shackles with various power and control systems, ranging from 200t – 400t capacity.
- ▶ **2014** Sapinoha Norte Project, Saipem – Supply of 15 standard and bespoke Hydraulic Release Shackle complete with ancillaries, ranging from 300t – 800t capacity.
- ▶ **2014** Industrial Park, Denmark – Supply of a 1000t Hydraulic Release Shackle, operated by an on-board, battery powered HPU. Control of the unit via an RC system with 300m range.
- ▶ **2014** Keynvor Morlift Ltd – Supply of 250t Hydraulic Release Shackle with HPU + Hose and backup method via a customer specified WROV Hotstab.
- ▶ **2013** Aquaterra Energy – Supply of 2 600t Hydraulic Release Shackles to Malaysia.
- ▶ **2009 – 2013** Rental of numerous Hydraulic Release Shackles to installation contractors, all units complete with HPU + Hose Reel



Kerrek House
Tolvaddon Business Park
Camborne
TR14 0HZ
UK

T: +44 (0) 1209 861 940
E: info@lmhandling.com

107 Tuas South Avenue 8
Singapore
637036

T: +65 (0) 62 622 282
E: info@lmhandling.com

Level 2
89 St George's Terrace
Perth
WA 6000
Australia

T: +61 (0) 8 9222 5030
E: info@lmhandling.com

www.lmhandling.com

