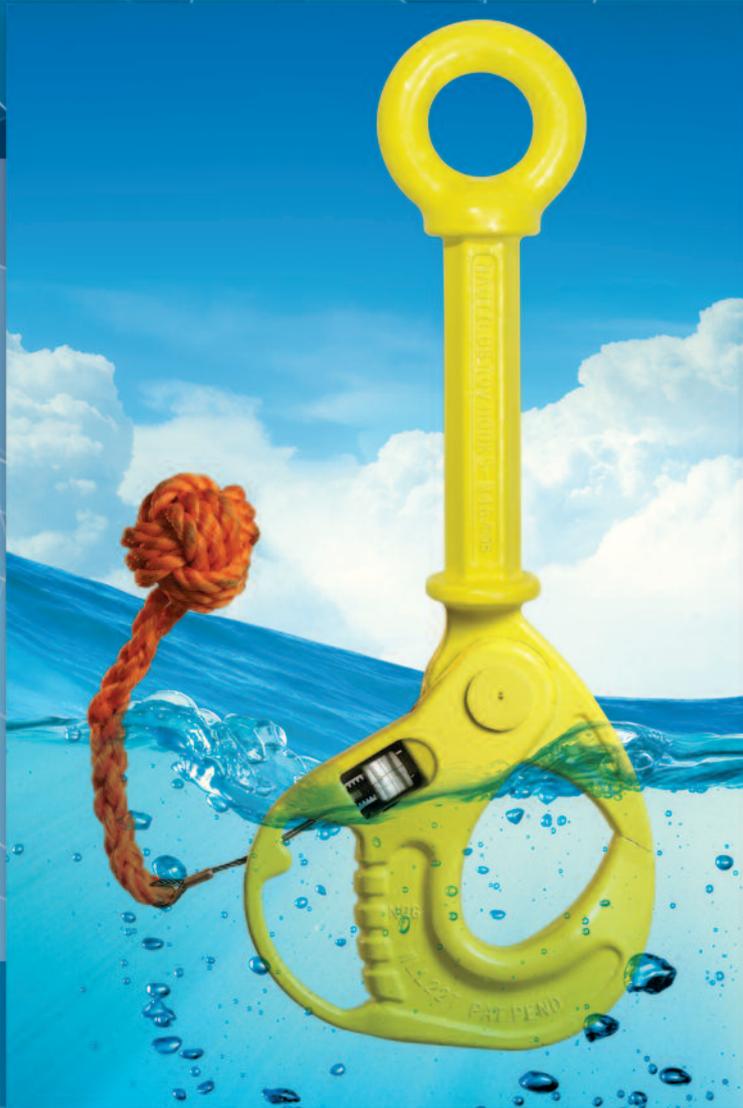


Nautilus Rigging

Safer lifting, efficient solutions



Topside and Subsea

TopsideHooks™

NautilusRigging has been manufacturing and supplying its award winning range of **NautilusHooks™** since 2009. Our self-locking, patented safety hooks, are designed to put the safety of the operator first whilst maintaining efficiency.



Safety First

Safety is at the heart of the Nautilus ethos and each of our hooks is designed with features which eliminate the risk of potentially serious pinch and trap hand injuries. Such injuries are a common hazard associated with the use of traditional "latch lock" hooks. The Nautilus design eradicates this hazard with its self-locking system and external handle.

Nautilus hook - patented safety advantages, inset : traditional hook - inherent safety risks

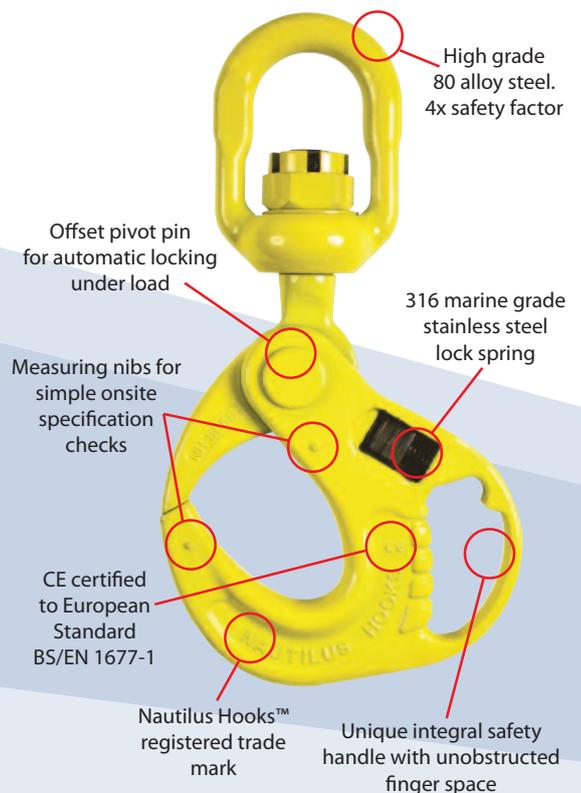


Cost Efficient Solution

Our hooks provide a cost efficient solution for businesses to align their best lifting practices with their corporate safety policy, reducing down time and improving workplace safety.

Award Winning Safety Features

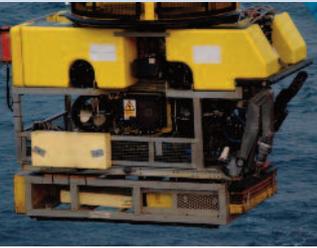
Our hooks include award winning safety features, recognised by the American Society of Mechanical Engineers who awarded Nautilus Hooks the prestigious ASME Best Mechanical Engineering Award of 2010. At Nautilus, our hooks maximise performance and represent a positive step change in safety for general lifting hooks with benefits across a broad spectrum of industrial applications.



ASME Award winning design – **advanced technology**
CE Certified & DNV Type Approved – **safe operation**
Eliminates pinch and trap hand injuries – **reducing risk**
Range from 4 to 20 ton WLL – **cost effective solution**

SubseaHooks™

NautilusRigging is the leading innovator of advanced lifting equipment, specifically designed to meet industry needs. With this in mind, we are delighted to launch our **NautilusROV Hooks**, a patented, 'positive locking' design, focused on safe, secure, subsea lifting.



Secure Lifting Solutions

An industry first, the new product uses patented Nautilus technology to provide a Subsea/ROV hook with a "positive locking function". This ensures the load remains secure until released by the ROV.

This unique Nautilus ROV design addresses industry concerns over the operational suitability and safety of traditional "internal spring latch" ROV hooks. The inward opening spring latch of the "snap on" ROV hook is an inherent design risk, which can result in the releasing of the load during lifting operations, particularly in the unpredictable and varying hydrodynamic forces associated with subsea lifting. The failure of an internal spring latch hook can result in damage to expensive subsea components and costly downtime recovery.

Nautilus ROV hooks eliminate this risk and provide the cost effective solution for secure subsea lifting.

Safety Features

The positive locking design incorporates additional features to improve operational safety. These include an unobstructed load bearing profile and outward opening locking arm, preventing slings snagging behind the latch during discharge and stopping any unintentional "snap on" to umbilical cables or equipment protrusions.

Nautilus ROV Hooks operate on different principles to traditional snap on hooks. To assist operators, we have created an operational video. Please visit www.nautilusrigging.com for further information, including full specifications and details.



Nautilus Hooks™ - Model Range and Codes

WWL (x 1000kg)	4 tonne	6 tonne	8 tonne	10 tonne	12.5 tonne	16 tonne	20 tonne
Swivel Top	NH-SL4S	NH-SL6S	NH-SL8S	NH-SL10S	NH-SL12.5S	NH-SL16S	NH-SL20S
Clevis Top	NH-SL4C	NH-SL6C	NH-SL8C	NH-SL10C	NH-SL12.5C	-	-
Eye Top	NH-SL4E	NH-SL6E	NH-SL8E	NH-SL10E	NH-SL12.5E	NH-SL16E	NH-SL20E

- ▶ Nautilus Hooks™ are manufactured to EU standard BS/EN 1677-1+A1/2008
- ▶ Comply with DNV Type Approved under regulation 2.22 lifting appliances 2008.
- ▶ Individually proof tested to 2.5 x Working Load Limit prior to shipment.
- ▶ Patented Nautilus Design - USA Patent Number US 8,240,727 B2.

Nautilus ROV & Subsea Hooks

Component	Model / Part No.	WLL	Weight	L	W	T
Long Shank ROV Hook	NH-ROV22E	22 te	21.0 kg	684	264	62
Eye Top SubSea Hook	NH-SS22E	22 te	15.5 kg	434	264	62
Primary Activation Wire	NH-PW200	1200 kg	Bespoke 316 SS stud / wire assembly			
Secondary Activation Wire	NH-SW230	900 kg	230mm x 3mm SS wire and ferules			

- ▶ Nautilus ROV hooks manufactured to BS/EN 1677-1 - CE Certified
- ▶ Individually numbered and proof tested to 2.5 x WLL - Supplied with Test Certification
- ▶ Long Shank and Eye Top models are supplied with a primary activation fitted.
- ▶ Additional Primary and Secondary wire kits are available as accessories.

Further details on the following can be found on our website www.nautilusrigging.com

- ▶ The recommended specifications for fabricated component lifting points, to ensure compatibility with Nautilus 22 te ROV hooks, detailing the minimum and maximum clearances required for ROV Hook compatibility.
- ▶ CAD video detailing operating procedures and recommended guidelines for ROV operators using Nautilus ROV Hooks.
- ▶ Maintenance recommendations to ensure your Nautilus ROV hooks remain in good working order.



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