NOREQ®
Pushing safety further

LIFESAVING EQUIPMENT

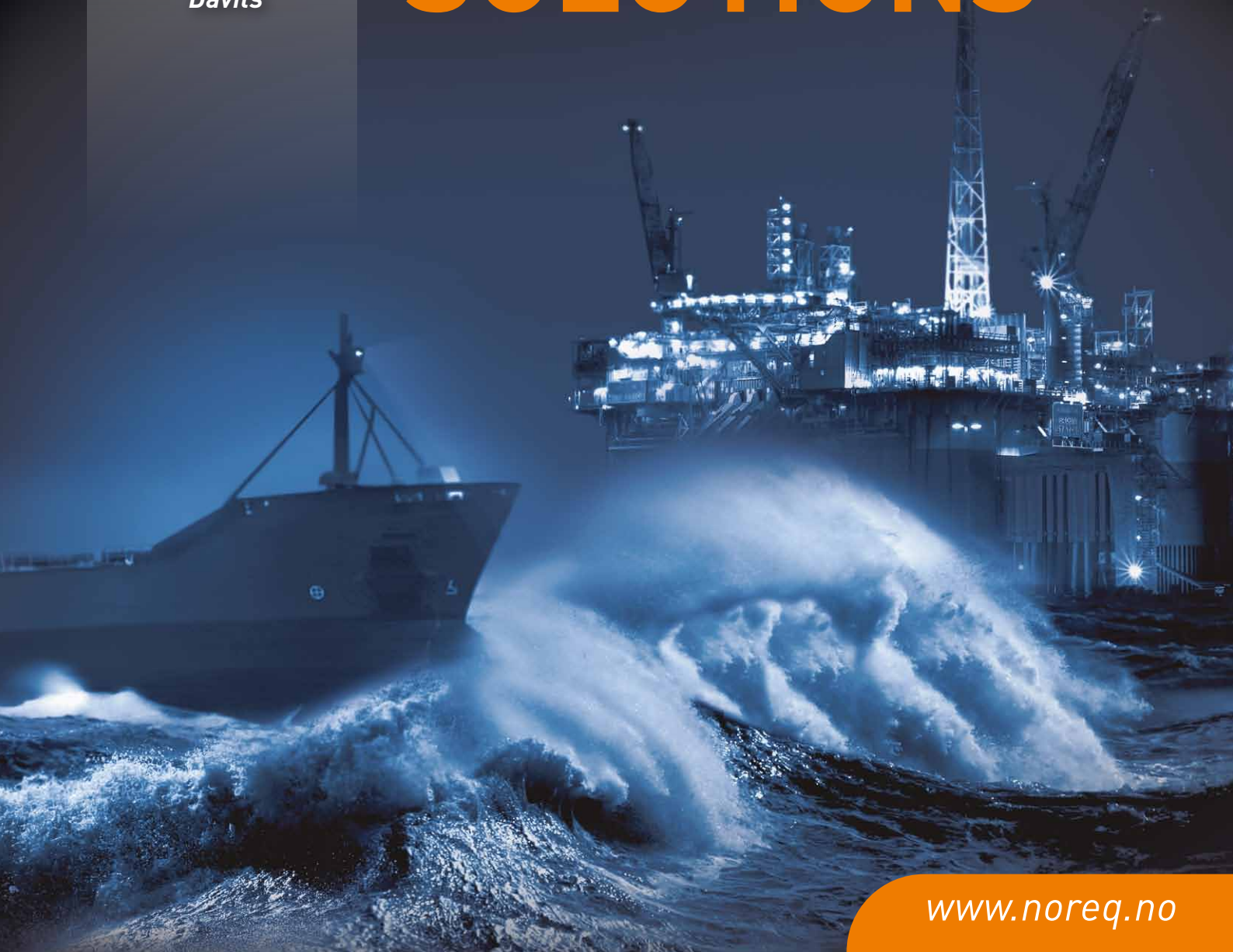
2010 EDITION 01

INNOVATIVE SAFETY SOLUTIONS

Lifeboats

Rescue Boats

Davits



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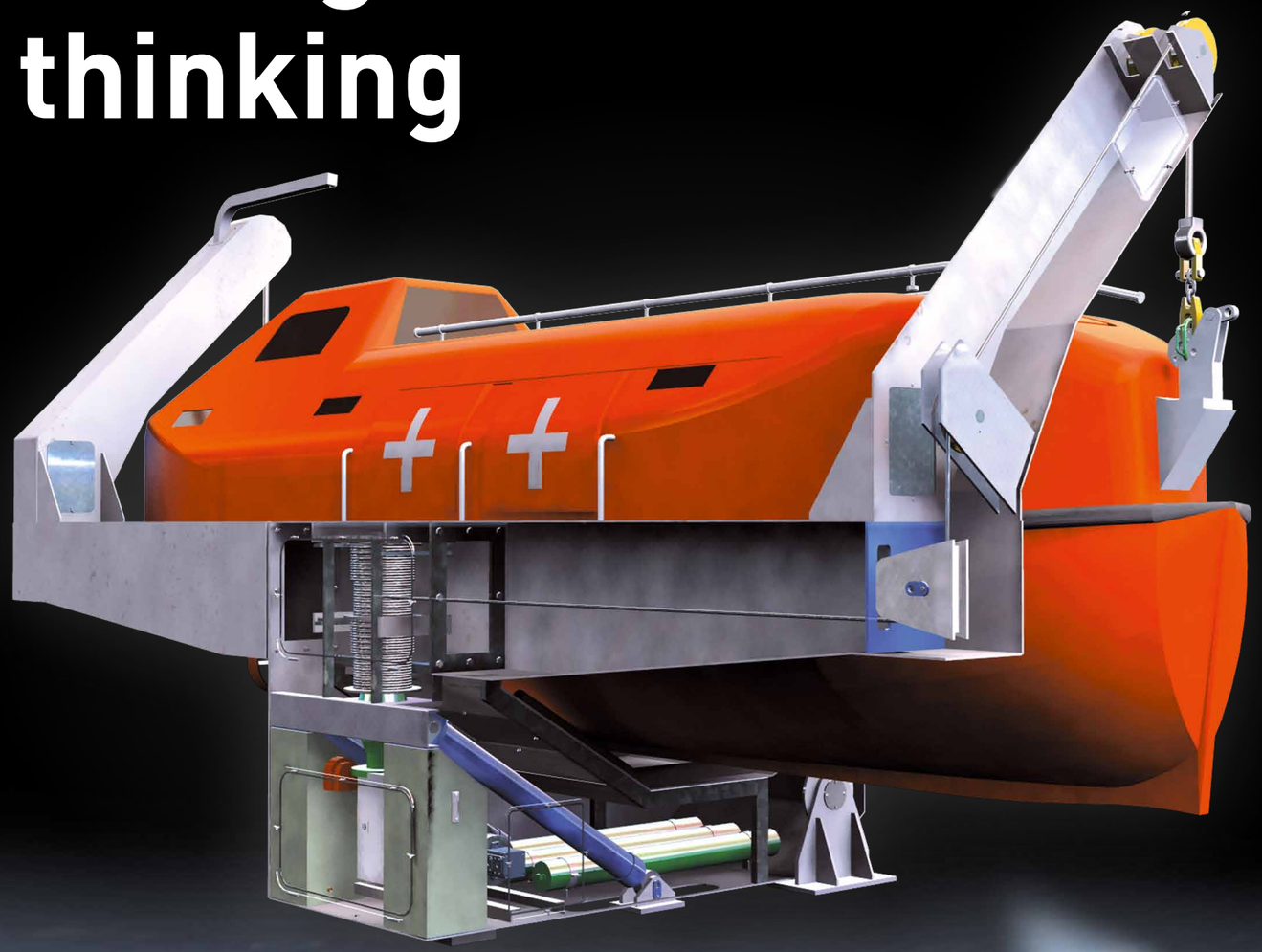
NOREQ®
Pushing safety further

Increase safety through innovative thinking



Accept the laws of nature – and nature will reward you

People who work at sea usually work in harmony with the forces of nature. We have taken the same approach during development of the new Noreq Compact Davit System with all functional components integrated inside the davit structure, and the Torpedo lifeboat, whose unique design incorporates hydrodynamic properties that will revolutionize evacuation at sea.Through innovative thinking and close contact with the maritime industry, Noreq constantly finds new ways of improving lifesaving equipment. For you, this means safer, more user-friendly and cost-efficient products.

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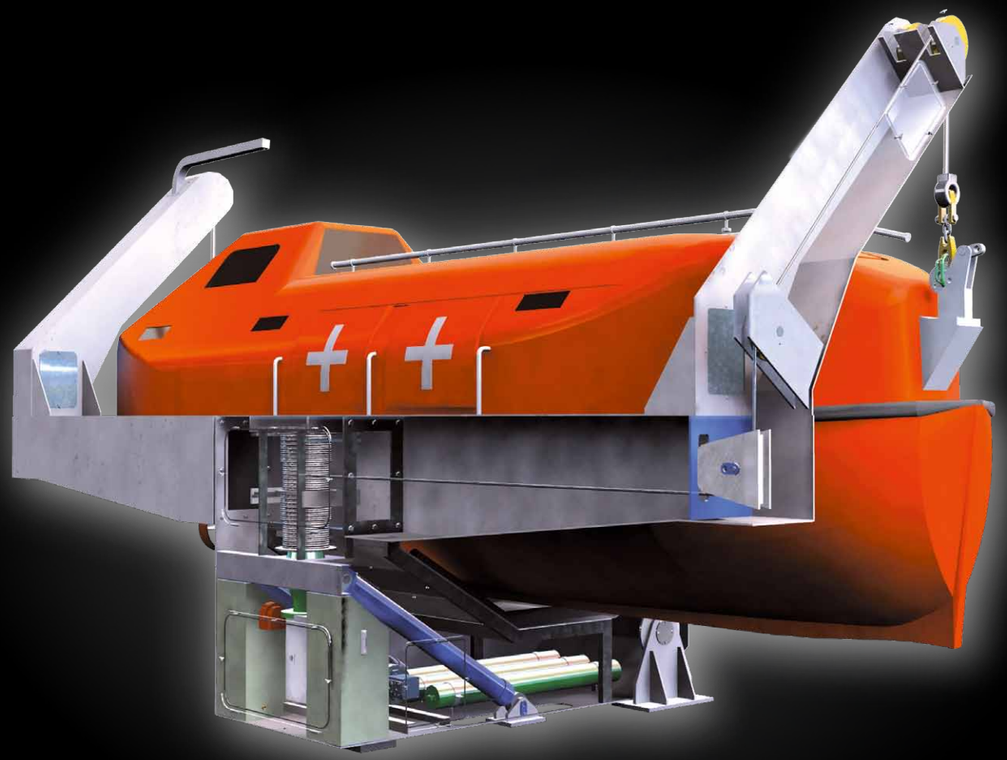


Increase safety and cut costs

Noreq's new compact davits

Traditional davit systems are exposed to wear and tear. This represents a threat to functionality and requires frequent maintenance. This is not safe and it costs a lot! The new Noreq Compact Davit System has all functional components integrated inside the davit structure. This carefully considered and epoch-making design is an advantage when it comes to maintenance and service, installation and deck preparation, and as regards heating in Arctic climates. Noreq Compact Davit System sets tomorrow's standard for davits.

General features *(NPD, NRD and NTD-series)*

- **Reduced maintenance** (inspection hatches for easy access to equipment)
- **Easy installation** (small footprints & welding, stainless steel bolts)
- **Prepared for Arctic climates**
- **NPD does not have sheaves blocks**
- **Compact davit systems** (all components integrated inside the structure)
- **Remote control**
- **Paint** (coating 250 microns)
- **Digital accumulator indicator**
- **2 speed winch**

Davit winch

Easy access to hydraulic panel

Dynamic testing of davit

Rescue boat davits

The new Noreq NPD series davits are specifically designed for safe and efficient launching and retrieval of lifeboats. They are intended for long-term, reliable operation in harsh and hazardous marine and offshore environments.

Hydraulic pivoting type: The davit system is designed in accordance with the latest IMO/SOLAS requirements, LSA Code and European Council Directive 96/98 on Marine Equipment (MED). Its innovative new design is an advantage when it comes to maintenance and service, installation and deck preparations, and also for heating in Arctic climate. The rescue boat is launched either from inside the boat or using the remote control unit supplied as standard. Recovery of the rescue boat is performed by the electric/hydraulic winch. The davit can be supplied with a shock absorber system and constant tension.

Optional equipment: Extra painting system, Radio control, EX-proof, Battery Change Warning, Hook, High Speed winch, Tension System, Shock absorber system, Aluminium hinges, Skid, Ladder, Platform, Stairs, Boat Support

Technical data

Type	SWL
NPDS 900 H	1300 KG
NPDS 1800 H	1800 KG
NPDS 3500 H	3200 KG

NPDS 3500 installed with FRB 650.

Release hooks

The Car 35 release hook is the only hook capable of meeting IMO/SOLAS requirements. Combined Automatic Release Hook specially designed to handle rescue boats and life rafts up to a Safe Working Load of 3500 kg (7716 lbs).

Ship davits

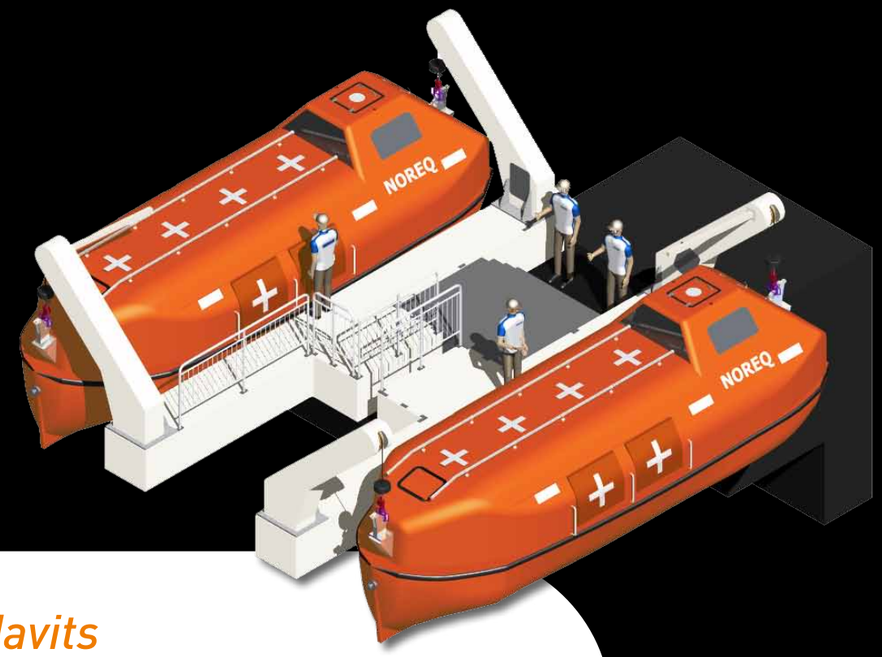
The new Noreq NPD series davits are specifically designed for safe and efficient launching and retrieval of lifeboats. All equipment is integrated inside the davit structure. The davits are intended for long-term, reliable operation in harsh and hazardous marine and offshore environments.

The davit system is designed in accordance with the latest IMO/SOLAS requirements, LSA Code and European Council Directive 96/98 on Marine Equipment (MED). Its innovative new design is an advantage when it comes to maintenance and service, installation and deck preparations, and also for heating in Arctic climates. The lifeboat is launched either from inside the boat or by using the remote control unit supplied as standard. The lifeboat is recovered using the electric/hydraulic winch.

Optional equipment: Extra painting system, Radio control, EX-proof, Battery Change Warning, High Speed winch, Aluminium hinges, Skid, Ladder, Platform, Stairs.

NPD 6000 installed at Norwegian training school.

Technical data (ship davits)	
Type	**SWL**
NPD 6000 H	6000 Kg
NPD 7500 H	7700 Kg
NPD 10500 H	11300 Kg
NPD 14500 H	14200 Kg
NPD 18500 H	18200 Kg
NPD 23000 H	23000 Kg



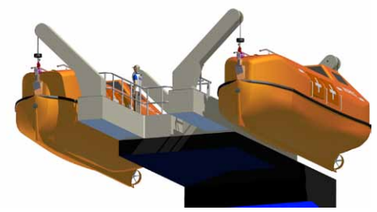
Rig davits

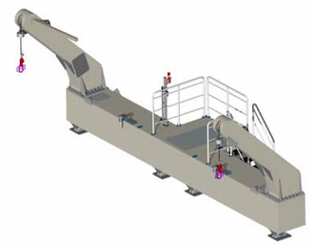
The new Noreq NRD-series davits are specifically designed for safe and efficient launching and retrieval of lifeboats. All equipment is integrated inside the davit structure. The davits are intended for long-term, reliable operation in harsh and hazardous marine and offshore environments.

The davit system is designed in accordance with the latest IMO/SOLAS requirements, LSA Code and European Council Directive 96/98 on Marine Equipment (MED). Its carefully considered and epoch-making design, is an advantage when it comes to maintenance and service, installation and deck preparations, and also for heating in Arctic climate. The lifeboat/rescue boat is launched either from inside the boat or using the remote control unit supplied as standard. Recovery of the lifeboat is performed by an electric/hydraulic winch.

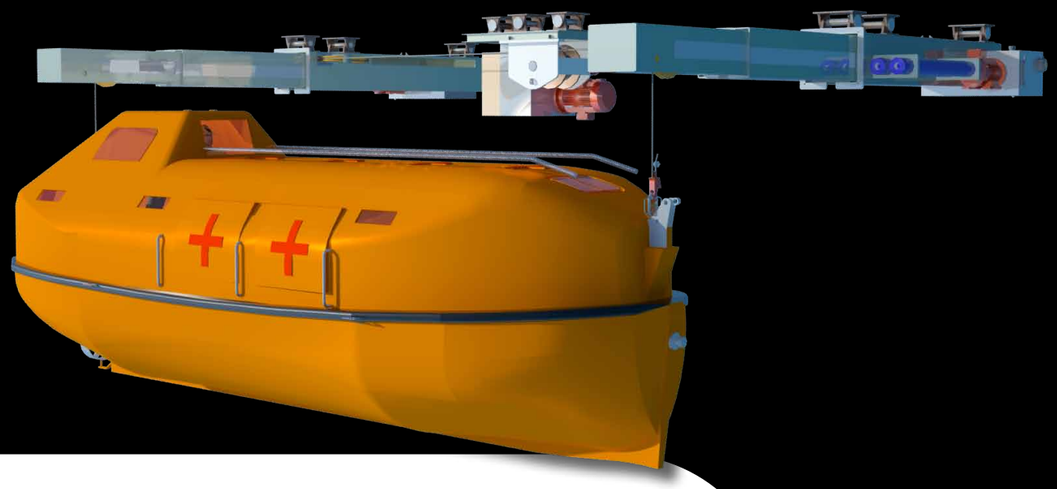
Optional equipment: Extra painting system, Radio control, EX-proof, Battery Change Warning, High Speed winch, 6 footpoints, Aluminium hinges.

Technical data (davits rig)	
Type	**SWL**
NRD 6000 H	6000 Kg
NRD 7500 H	7700 Kg
NRD 10500 H	11300 Kg
NRD 14500 H	14200 Kg
NRD 18500 H	18200 Kg
NRD 23000 H	23000 Kg



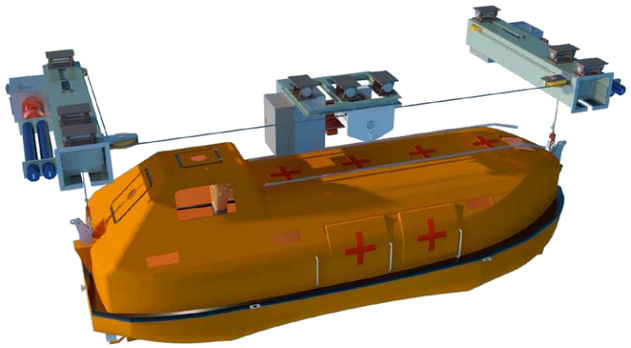


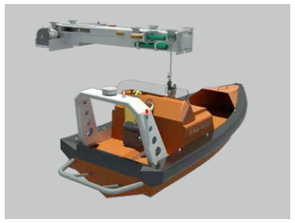
Noreq Rig davit is designed for easy installation with only 4 welding points in the center of the davit. Can be delivered with two extra hinges, 6 hinges in all.



Telescope davits

The new Noreq NTD-series telescope davits are specifically designed for safe and efficient launching and retrieval of lifeboats. They are intended for long-term, reliable operation in harsh and hazardous marine and offshore environments. Single and double arm davit. Handles workboats, large daughter craft, lifeboats. The Davit device does not require much space on board the ship.





Optional equipment: Extra painting system, Radio control, EX-proof, Battery Change Warning, Hook, Aluminium hinges, Ladder, High Speed winch, Tension System, Shock absorber system, Boat Support.

Technical data

Type	SWL
NTDS 1800 H	1800 KG
NTDS 4000 H	4000 KG
NTDS 6000 H	6000 KG
NTD 8000 H	8000 KG
NTD 12000 H	12000 KG

Workboat davits

The new Noreq workboat davits (NPD 12000) are specifically designed for safe and efficient launching and retrieval of lifeboats. They are intended for long-term, reliable operation in harsh and hazardous marine and offshore environments.

The workboat davit can be delivered with a guiding cradle to ensure better launching and recovery of the craft.

Optional equipment: Extra painting system, Radio control, EX-proof, Battery Change Warning, Hook, High Speed winch, Tension System, Shock absorber system, Aluminium hinges, Skid, Ladder, Platform, Stairs, Boat Support.

Technical data

Type	SWL
NPDS 5000 H	5000 KG
NPDS 9000 H	9000 KG
NPDS 12000 H	12000 KG

All NPD davits are fitted with remote control for easy operation.

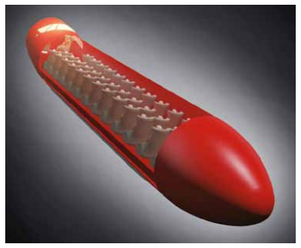
For rigs and vessels:

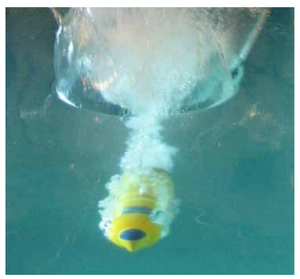
The Torpedo lifeboat

SINTEF Marintek tests have proved that the design of the Torpedo free-fall lifeboat has advantages compared to any known design today. The Torpedo lifeboat will be built to the highest industry standards. Features such as installation and maintenance efficiency and lifelong service have been emphasized during development. The Torpedo lifeboat will comply with the new DNV/Norwegian Oil Industry Association (OLF) standard for design of freefall lifeboats (DNV-OS-E406). The Torpedo lifeboat will increase safety compared to standard lifeboats for vessels, floating rigs, Jack-Up rigs, FPSOs and installations worldwide.

Features

- Its design and hull strength means that the lifeboat can withstand extreme drop heights and harsh/severe weather conditions
- The combination of design and weight reduces retardation tremendously and therefore also the forces that act on personnel onboard
- Forward speed and distance from drop site after resurfacing are more than doubled compared to standard design free-fall lifeboats
- The Torpedo free-fall lifeboat is less affected by drop angle and height, wave height and patterns, wind forces and direction – compared to standard design free-fall lifeboats
- The torpedo lifeboat has unique directional stability in the dive and also when penetrating and moving through water
- A new seat and belt system has been developed to satisfy the IMO/DNV boarding time requirements





"We believe that the Torpedo free-fall lifeboat represents a technological breakthrough. We are looking forward to it with great interest."

Employee representatives,
StatoilHydro

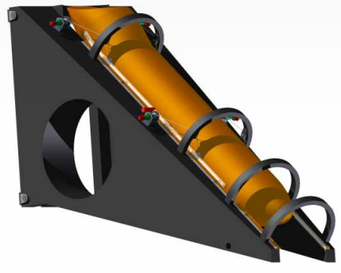
Rig solutions

The Torpedo lifeboat can be installed on board fixed installations, FPSOs, Jack-ups or floating units.

A new launching arrangement completes the Torpedo lifeboat system for offshore installations. The launching arrangement will be minimum 30% lighter than traditional steel structures, due to vacuum injection of composite materials and smart design. A new hoisting system has been developed for safer retrieval and a secondary means of launching.

The rig version is available with capacity for up to 70 persons and installation heights of up to 50 metres.

Design and hull strength enables the lifeboat to be exposed to extreme drop heights and harsh/severe weather conditions.



A new launching arrangement for both rigs and ships. Improvements reduce the total system weight by 30%.

Ship solutions

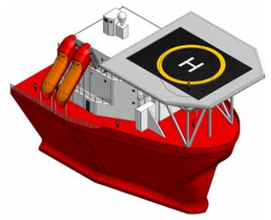
The unique properties of the Torpedo lifeboat have been converted for our ship version. The building techniques, standards and outfitting represent a new quality level in the SOLAS free-fall lifeboat segment. This enables us to supply a quality-based product at an acceptable price. This new product range ensures our customers a product that is high quality throughout, from the documentation to the quality of work, quality of equipment, quality of solutions and quality of performance.

The launching arrangement are available in both a steel version and a vacuum-injected composite material, the latter saving minimum 30% weight per system.

The new Torpedo free-fall lifeboat sets a new safety standard in the shipping industry.

Technical data

Type	Capacity	Davit load (kg)	Certified drop height (m)
TFL 20	20	5 500	18
TFL 28	28	7 200	20
TFL 36	36	9 200	22
TFL 45	45	11 500	32



The Noreq Torpedo lifeboat system includes a tailor-made launching arrangement with key properties such as lower installation weight, high strength and stress capabilities, and less need for maintenance due to building material and design.

Free-fall lifeboats

Noreq's free-fall lifeboats are designed and tested in accordance with the latest IMO/SOLAS regulations (MED 96/98 EC). Two versions are available, tanker or dry cargo. All boats are fitted with European standard equipment, for example engines made by the largest lifeboat engine maker in the world, BUKH, and the electrical charging system from LADAC. Steel qualities are either galvanized, AISI 304 or AISI 316, depending on how exposed the equipment is.

Notifying body: Bureau Veritas (others on request)

Technical data

Cargo version (C)	Dimension (LxWxH)	Max seating (p at 82.5 kg)	Max drop height (m)	Davit load (kg)
LBF 490 C	4.90 x 2.40 x 3.10	16	16	4040
LBF 580 C	5.80 x 2.55 x 3.10	25	17	5560
LBF 680 C	6.80 x 2.70 x 3.22	31	22	6440
LBF 750 C	7.50 x 2.70 x 3.22	35	22	7374
LBF 850 C	8.80 x 2.94 x 3.30	40	25	8322

Tanker version (T)	Dimension (LxWxH)	Max seating (p at 82.5 kg)	Max drop height (m)	Davit load (kg)
LBF 490 T	4.90 x 2.40 x 3.10	16	16	4320
LBF 580 T	5.80 x 2.55 x 3.10	25	17	5890
LBF 680 T	6.80 x 2.70 x 3.22	31	22	6740
LBF 750 T	7.50 x 2.70 x 3.22	35	22	7724
LBF 850 T	8.80 x 2.94 x 3.30	40	25	8722

**Pursuant to IMO/SOLAS resolution MSC.274 (85) and MSC.272 (85)*

Free-fall davits

A deck-to-wall mounted davit placed at the stern of the ship, and consisting of a launch ramp, davit arm (A-frame), winch and hydraulic unit. The launch ramp has sliding pads for smooth acceleration of the boat. In situations where free-fall launch is impractical or unsafe, the system has a secondary means of launching the lifeboat. The lifeboat is recovered using a hydraulic winch. Foldable Free-Fall Systems available on request.

Main data

Capacity: From 45 kN up to 95 kN

Partially enclosed lifeboats

Noreq's partially enclosed lifeboats are designed and tested in accordance with the latest IMO/SOLAS regulations (MED 96/98 EC). All boats are fitted with European standard equipment, for example engines made by the largest lifeboat engine maker in the world, BUKH, and the electrical charging system from LADAC. Steel qualities are either galvanized, AISI 304 or AISI 316, depending on how exposed the equipment is.

Notifying body: Bureau Veritas (others on request)

Technical data

Type	Dimension (LxWxH)	Max seating (p at 82.5 kg)	Hook distance (m)	Davit load (kg)
LBP 750	7.50 x 2.90 x 3.10	65	7.10	7623
LBP 850	8.50 x 2.90 x 3.20	82	8.14	9779
LBP 960	9.60 x 4.60 x 3.45	150	9.20	17000

Noreq offers partially enclosed lifeboats for passenger and cruise vessels.

Totally enclosed lifeboats

Noreq's totally enclosed lifeboats are designed and tested in accordance with the latest IMO/SOLAS regulations (MED 96/98 EC). Two versions are available, tanker or dry cargo. All boats are fitted with European standard equipment, for example engines made by the largest lifeboat engine maker in the world, BUKH, and the electrical charging system from LADAC. Steel qualities are either galvanized, AISI 304 or AISI 316, depending on how exposed the equipment is.

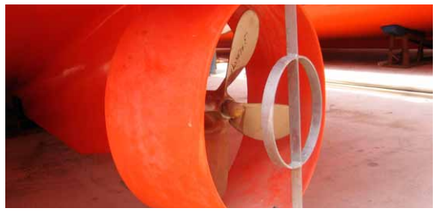
Notifying body: Bureau Veritas (others on request)

New concept

LBT 1300:
The world's largest enclosed lifeboat

Noreq is developing a new 150-person totally enclosed lifeboat with improved design for better seagoing qualities. The product will be available in a cargo and tanker version. Please contact Noreq for more information and specifications.

The new 150-person lifeboat concept has several of the same qualities as the Noreq Torpedo lifeboat.



Technical specifications:

The hull and superstructure are of an approved fire-protected GRP type, with buoyancy provided by polyurethane foam. Complete delivery with an on/off simultaneous release hook system, SOLAS-approved BUKH water-cooled diesel engine, with equipment and fittings of high standard stainless steel. Our tanker version lifeboats are fitted with a water-spray system and compressed air supply cylinders, providing good fire protection and breathing air. The factory has a complete range of testing facilities for life-saving equipment. The factory obtains ISO 9001-2000 approval and updated approval from the classification societies.

Technical data

Cargo version (C)	Dimension (LxWxH)	Max seating (p at 82.5 kg)	Hook distance (m)	Davit load (kg)
LBT 525 C	5.25 x 2.30 x 3.05	25	4.90	4375
LBT 650 C	6.50 x 2.30 x 3.10	36	6.10	5468
LBT 700 C	7.00 x 2.70 x 3.10	48	6.60	7196
LBT 750 C	7.50 x 2.90 x 3.25	68	7.10	8920
LBT 850 C	8.50 x 2.90 x 3.25	80	8.14	10906
LBT 935 C	9.35 x 3.60 x 3.25	102	8.95	13515
LBT 1090 C	10.90 x 3.90 x 3.50	130	10.50	17150

Tanker version (T)	Dimension (LxWxH)	Max seating (p at 82.5 kg)	Hook distance (m)	Davit load (kg)
LBT 525 T	5.25 x 2.30 x 3.05	25	4.90	4725
LBT 650 T	6.50 x 2.30 x 3.10	36	6.10	5918
LBT 700 T	7.00 x 2.70 x 3.10	48	6.60	7584
LBT 750 T	7.50 x 2.90 x 3.25	68	7.10	9228
LBT 850 T	8.50 x 2.90 x 3.25	80	8.14	11200
LBT 935 T	9.35 x 3.60 x 3.25	102	8.95	14015
LBT 1090 T	10.90 x 3.90 x 3.50	130	10.50	17650

Seating capacity is based on an average human weight of 82.5 kg (SOLAS), but other weight standards are available on request.
**Pursuant to IMO/SOLAS resolution MSC.274 (85) and MSC.272 (85)*

Rescue boats

Noreq's rescue boats have a special design that ensures great stability, as the outer and inner hulls are shaped in separate moulds. The buoyancy tank provides sufficient buoyancy to keep the boat afloat when flooded and fully manned. The boat can be delivered with or without an engine.

Technical data (Rescue boats)

Type	Dimension (LxWxH)	Max seating (p at 82.5 kg)	Speed (knots)	Davit load (kg)
RRB 425 OE	4.45 x 1.84 x 0.75	6	6	1025
RRB 500 30 hp	5.00 x 1.86 x 2.58	6	6	1175
RRB 500 60 hp	5.00 x 1.86 x 2.58	6	20	1195
RRB 525 inboard diesel	5.25 x 2.00 x 2.00	6	6	1270
RRB 610	6.10 x 2.20 x 2.35	6	6	1655

**Pursuant to IMO/SOLAS resolution MSC.274 (85) and MSC.272 (85)*

Noreq RRB 425 in GRP.

Fast rescue boats

Noreq's fast rescue boats can be supplied with both outboard and inboard diesel engines. The boats have high-speed hulls, achieving speeds up to 35 knots. Noreq fast rescue boats have hydraulic steering as standard. The robust GRP frame ensures good self-righting abilities, and large drain valves in the stern ensure drainage from the deck. The boats are equipped with high-quality navigation lights and switch panels (IP 56). A Henriksen hook can be installed on request.

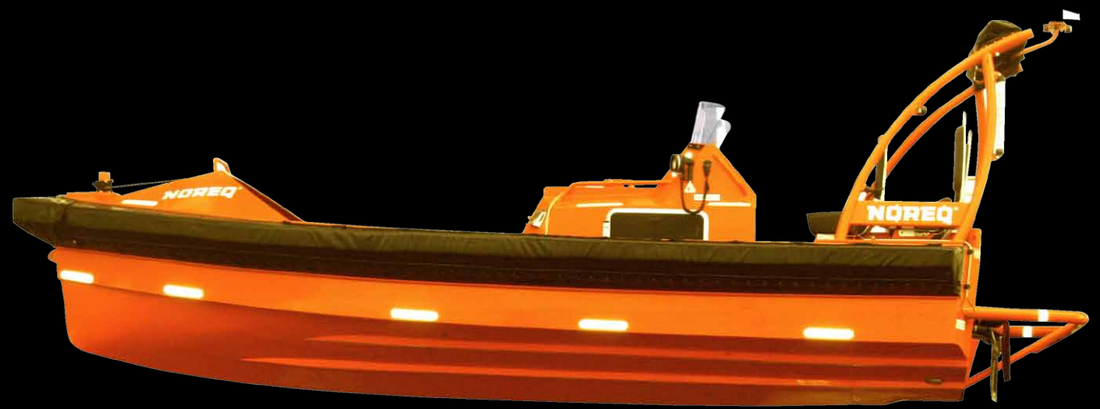
Noreq FRB 610.

Technical data (Fast rescue boats)

Type	Dimension (LxWxH)	Max seating (p at 82.5 kg)	Speed (knots)	Davit load (kg)
FRB 610 60 hp	6.10 x 2.20 x2.35	9	22	1714
FRB 610 90 hp	6.10 x 2.20 x 2.35	9	25	1780
FRB 650 Twin 60 hp	6.50 x 2.32 x 2.30	15	28	2698
FRB 650 Inboard 212 hp	6.50 x 2.32 x 2.30	15	30	2927
FRB 750 Inboard 212 hp	7.50 x 2.32 x 2.30	15	30	3058

**Pursuant to IMO/SOLAS resolution MSC.274 (85) and MSC.272 (85)*

All boats are delivered in accordance with the latest IMO/SOLAS Regulations (MED 96/98 EC)



Fast rescue boat in aluminium

The NOREQ FRB 700 is a completely new rescue boat made in aluminium, with improved functionality and user friendliness. The boat can be used both as a rescue boat and as a workboat for small jobs. NOREQ FRB 700 is able to withstand more punishment, heavier use and tougher working conditions than ordinary boats of this type made of fibre-glass.

The hull is designed for speed and stability, which means optimal working conditions on the vessel in rough sea conditions. The boat achieves speeds up to 35 knots and comes with an inboard diesel engine with waterjet propulsion.

NOREQ FRB 700 in aluminium is specially designed for stabile performance in rough sea conditions.

Features

- **Strong, welded, shot-blasted and fully recyclable and strengthened aluminium hull.**
- **Free-draining deck.**
- **Robust, impact resistant and fire-retardant fender.**
- **Ergonomically designed cockpit.**
- **Complete aluminium capsize reversal system.**
- **Single-point lifting frame with offload release hook.**
- **Bukh/Steyr inboard diesel engine in combination with Alamarine water jet.**
- **Variations in application, dimensions, fabric and propulsion are being designed.**

Technical data

Type	Dimension (LxWxH)	Max seating (p at 82.5 kg)	Speed with 3 persons (knots)	Davit load (kg)
FRB 700 ALU	7.22 x 2.70 x 2.59	15	34	3150

**Pursuant to IMO/SOLAS resolution MSC.274 (85) and MSC.272 (85)*

Service / after sales

Noreq believes that it is in our and our customers' interests to keep close contact not only during the purchase period, but also throughout the equipment's lifetime. In that way our customers are ensured the best product and service. Our responsibility does not stop after installation! Our engineers always operate in accordance with the latest procedures and guidelines.

Service & maintenance

Noreq has trained and authorised service personnel ready to assist you worldwide with all Noreq-supplied equipment.

We can also offer training and authorisation to our service partners and customers.

Noreq always aims to offer customers service that is in accordance with the latest rules and regulations for all our equipment.

After sales / spare parts

Noreq has developed a spare parts system for its products, which is designed to ensure our customers quick and safe delivery.

Noreq has trained and authorised service personnel ready to assist you worldwide with all Noreq-supplied equipment.

Partners

Our network of offices and agents enables us to stay in close contact with the market and our customers.

Noreq has built up a network of partners that work to Noreq's standards and are approved to perform service on and sell Noreq equipment. We can also offer service worldwide. Our presence in many countries means our customers have a local representative they can contact.

Training school

Noreq AS has been selected as supplier of complete lifesaving packages to several training schools worldwide. One of the training schools is located in Dubai Maritime City - the new world-leading, iconic, multi-purpose maritime centre. The Norwegian ResQ training schools have recently been supplied with Noreq's new generation davits.

Davit ready for transport.

Training centre Dubai.

ResQ Kristiansund.

Service / after sales

zprint.no

NOREQ®
Pushing safety further

Noreq® with a global presence

Noreq® is a registered trademark in maritime equipment. All companies in the Noreq group base their development, production and sale of products on a close dialogue with customers and the market.

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