

Marine & Offshore Cranes

VESSEL-SPECIFIC LIFTING SYSTEMS

For deck, cargo and offshore applications

PROJECT ENGINEERING | MANUFACTURING | TESTING



About Us



International company with resources for the export trade to worldwide. After many years working in different international markets, a group of professionals with an accumulated experience of more than 30 years decided to create an international services company with a broad spectrum of activity.

Our customers service and support is our goal. Thus was Watsonde Europe

The company counts among its professional engineers, marketing and law graduates. All of them with experience in different markets that are able to provide the service or product that you or your company may need.



Organizational Chart

— About our origin

Watsond Technology Group was originally established in Wuxi and Hong Kong (China), as a manufacturer for Temporary Suspended Platform and Steel Structure more than 20 years. Since 2013, we are only focus on the all types of building maintenance unit and we count with offices and factory in Spain **Watsond Europe**.

We have successfully delivered more than 1000 products of various types; all is customized and delivery worldwide.



Watsond Europe **Factory**

Our factory in Europe, has now more than 35 years dedicated to the manufacturing and repairing of Standard Form-works (Wall and Ceiling) as well as special ones (Tunnels, Bridges, Channels and Shoring Towers), together with BMU or GONDOLAS as well of metallic structures for constructions and railway poles for catenaries (Conventional and High Speed).

Our capacity and long-term experience has been proved in many Spanish and International representative projects worldwide, **Europe, America, Asia**, etc.

A photograph of the Watsond Europe Factory building. The building is a multi-story industrial structure with a modern design. It features a large glass facade on the left side, reflecting the sky and clouds. The Watsond logo is visible on the glass. To the right of the glass facade is a large blue corrugated metal door. The building has several windows and a flat roof. The overall color scheme is neutral, with beige and grey tones.

WATSOND

Watsond Europe Factory

Our factory has over **15.000 m²** located in Madrid,
the capital city of Spain, distributed in:

1.500 m²

Offices

5.800 m²

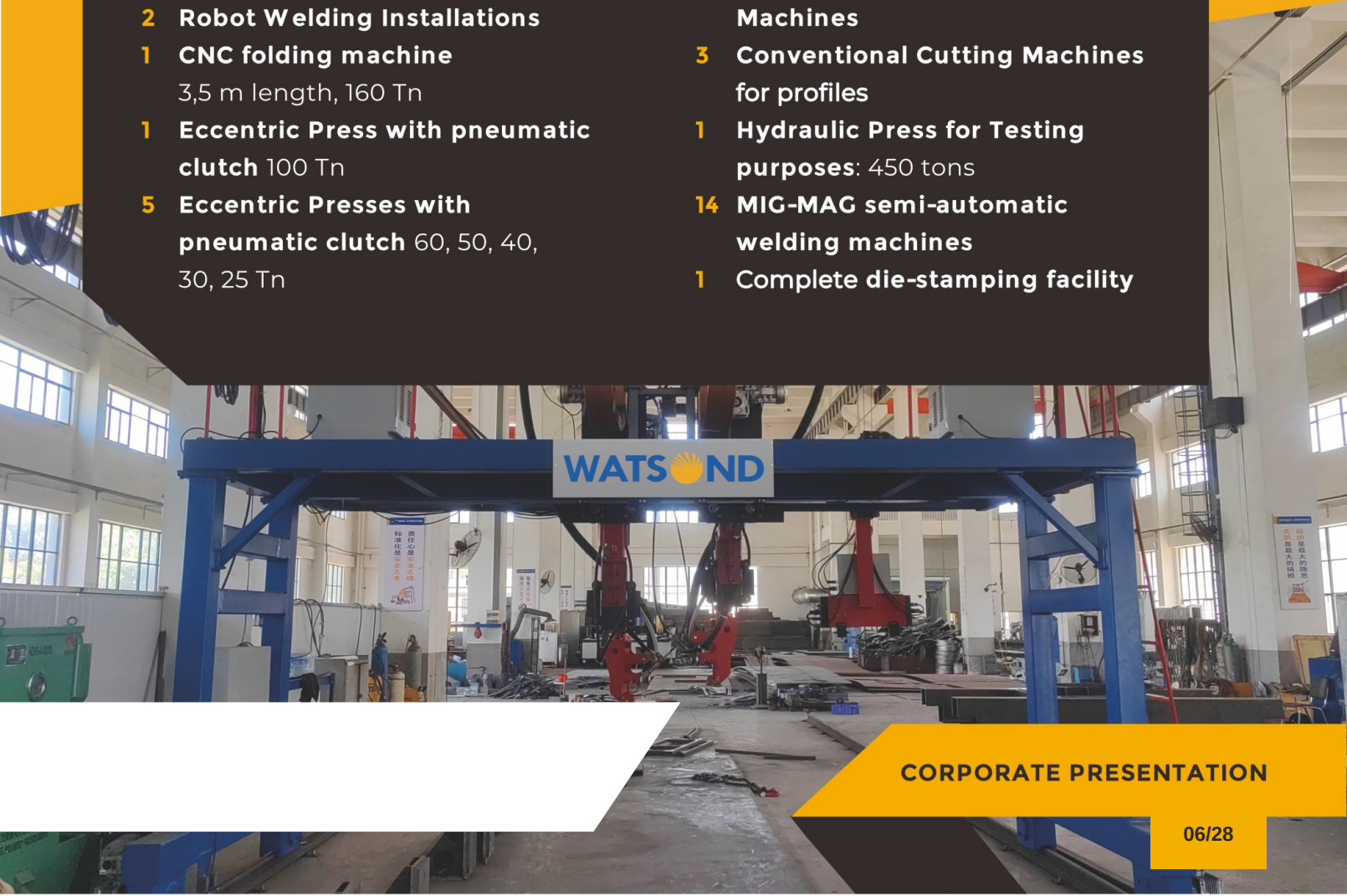
Main Manufacturing Facility

8.200 m²

*Covered Facilities for Cleaning, Repairing, Painting,
Carpenter Shop, Stockyards, etc*

Existing Machinery

- | | |
|--|--|
| 5 Tower Cranes:
3x6,3 Tn; 1x3,2 Tn; y 1x2,5 Tn | 1 Mechanical Press 250 Tn |
| 15 Manual Hoists x 500 Kg | 1 Shears Machine:
3 length up to 10 mm thickness |
| 4 Forklifts x 3000 kg | 2 Tubes Automatic Cutting Machines |
| 2 Robot Welding Installations | 3 Conventional Cutting Machines
for profiles |
| 1 CNC folding machine
3,5 m length, 160 Tn | 1 Hydraulic Press for Testing
purposes: 450 tons |
| 1 Eccentric Press with pneumatic clutch 100 Tn | 14 MIG-MAG semi-automatic welding machines |
| 5 Eccentric Presses with pneumatic clutch 60, 50, 40, 30, 25 Tn | 1 Complete die-stamping facility |



Watsond Marine Cranes

Engineering capability and dependable support

Core Products

Deck, stern, offshore and telescopic crane solutions for a wide range of vessel duties.

Customized Engineering

Design and modification based on vessel interfaces, loads and operating conditions.

Compliance & Certification

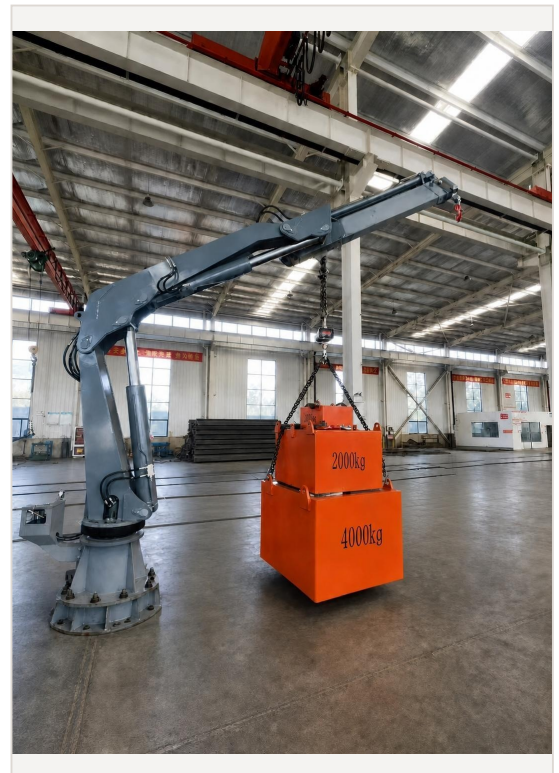
Support for CCS, BV, ABS, DNV, LR, RINA, KR, RS and other class requirements.

After-Sales Support

Spare parts, on-site maintenance and technical training through a global network.

Controlled Quality

Material, fabrication and testing controls for reliable performance in marine service.

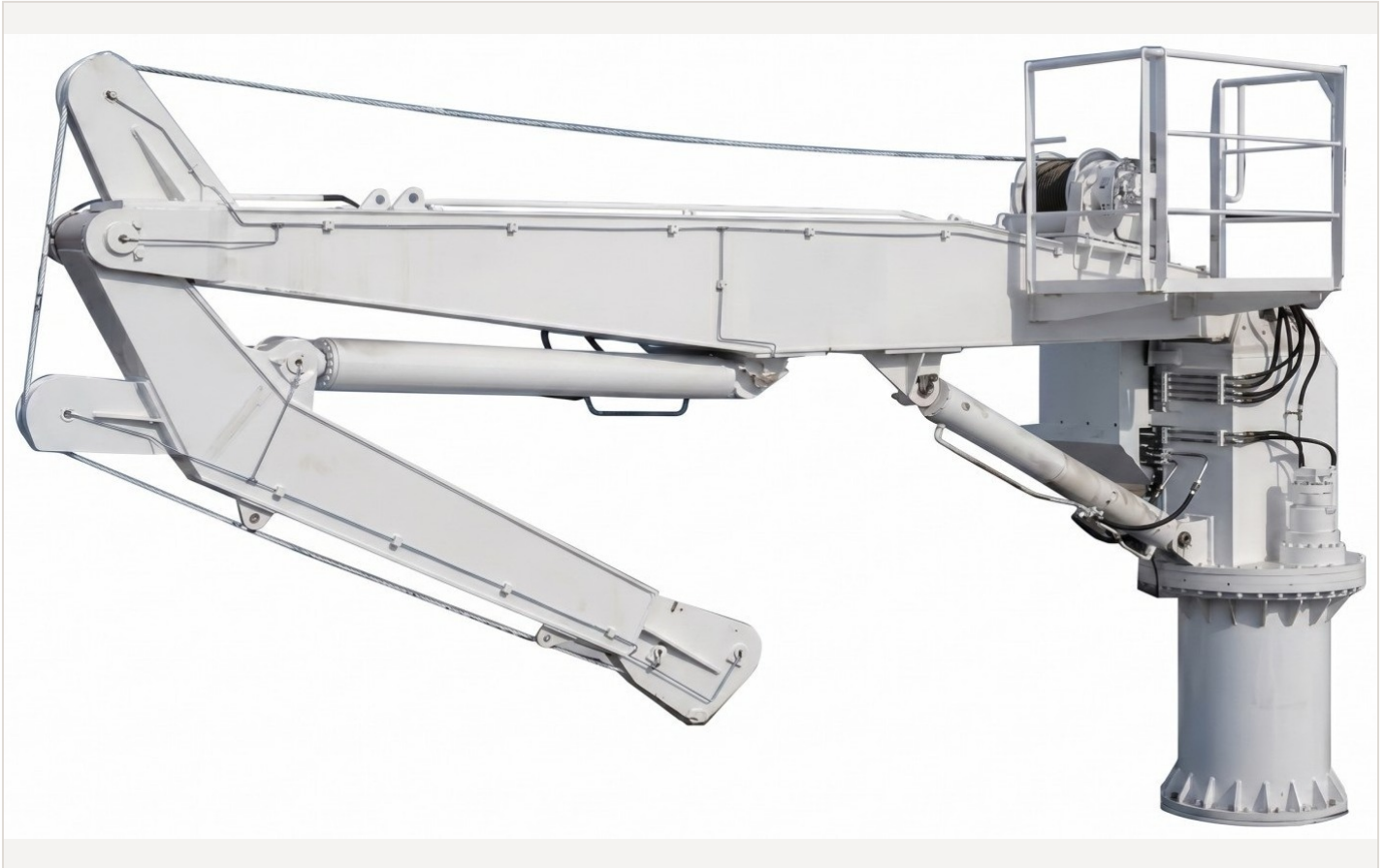


Marine lifting efficiency supported by specialist engineering and practical project experience.

Knuckle Boom Crane

Compact stowage and flexible outreach

Hydraulically driven and available with local manual or wireless remote control. The folded boom arrangement supports efficient deck use while final geometry is defined by the project specification.

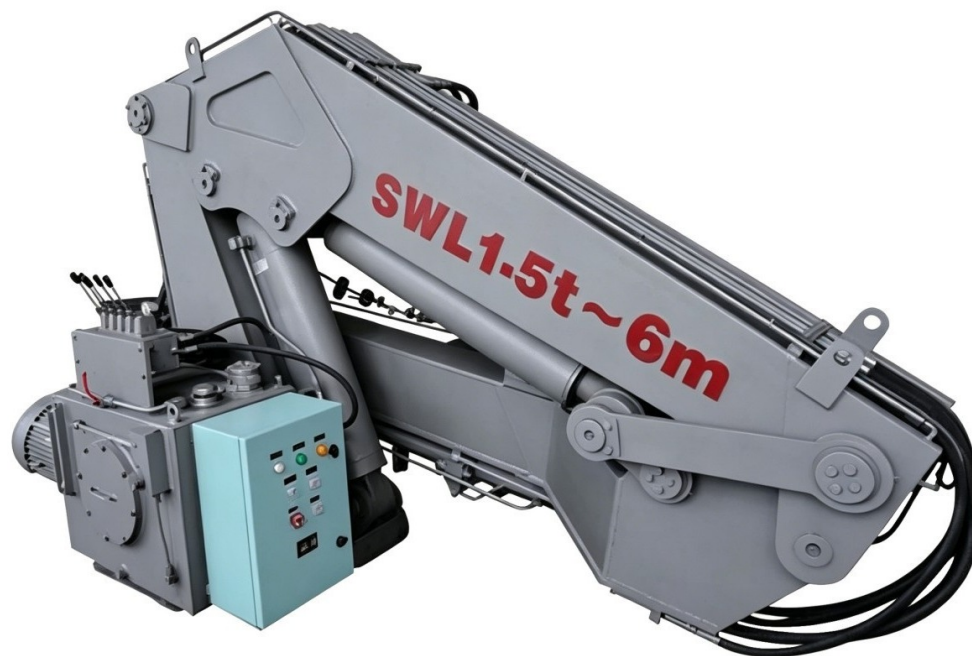
**HYDRAULIC DRIVE****COMPACT STOWAGE****LOCAL OR REMOTE CONTROL**

Ratings shown are indicative. Final capacity, outreach, interfaces and control arrangements are defined by the approved load chart and project documents.

Hydraulic Telescopic & Knuckle Crane

Compact and adaptable marine lifting

The crane combines articulated and telescopic motion for flexible outreach. Hydraulic components and control arrangements are selected to suit the approved vessel and duty requirements.



TELESCOPIC OUTREACH

ARTICULATED BOOM

HYDRAULIC DRIVE

Ratings shown are indicative. Final capacity, outreach, interfaces and control arrangements are defined by the approved load chart and project documents.

Overhead Movement Crane

Rail-mounted cargo handling

A railed overhead crane with safe working loads from 1 t to 5 t. Wired or wireless control and overload warning can be configured to suit the agreed project requirements.

**RAIL-MOUNTED****1-5 t SWL****OVERLOAD WARNING**

Ratings shown are indicative. Final capacity, outreach, interfaces and control arrangements are defined by the approved load chart and project documents.

Telescopic Boom Crane

Telescopic outreach for vessel duties

The telescopic boom crane is hydraulically powered and can be operated from a local control station or by wireless remote control. Configurations cover load moments up to 500 t.m, subject to outreach and duty.



HYDRAULIC DRIVE

UP TO 500 t.m

LOCAL OR REMOTE CONTROL

Ratings shown are indicative. Final capacity, outreach, interfaces and control arrangements are defined by the approved load chart and project documents.

Knuckle Boom Crane

Flexible operation and compact stowage

The knuckle boom crane combines flexible outreach with a compact stowed profile. It is hydraulically powered and can be operated from a local control station or by wireless remote control.



COMPACT STOWAGE

UP TO 500 t.m

LOCAL OR REMOTE CONTROL

Ratings shown are indicative. Final capacity, outreach, interfaces and control arrangements are defined by the approved load chart and project documents.

Stiff Boom Crane

Simple structure for multiple vessel types

The stiff boom crane is hydraulically powered and available with local or wireless remote control. Configurations can cover load moments up to 600 t.m, subject to outreach and operating conditions.



STIFF-BOOM DESIGN

UP TO 600 t.m

ENGINEERED TO SPECIFICATION

Ratings shown are indicative. Final capacity, outreach, interfaces and control arrangements are defined by the approved load chart and project documents.

Offshore Crane

Hydraulic or electric drive

Load moments up to 1,800 t.m are available with local, wired or wireless control. Each system is engineered for the specified vessel or offshore platform duty.



UP TO 1,800 t.m

PLATFORM & VESSEL DUTY

ENGINEERED TO SPECIFICATION

Ratings shown are indicative. Final capacity, outreach, interfaces and control arrangements are defined by the approved load chart and project documents.

Shipboard Cargo Crane

Cargo handling for bulk and multipurpose vessels

Hydraulic or electric drive can be selected for load moments up to 1,800 t.m. Controls are arranged for the operating station, with outreach and duty defined by the project specification.

**BULK CARRIERS****MULTIPURPOSE VESSELS****UP TO 1,800 t.m**

Ratings shown are indicative. Final capacity, outreach, interfaces and control arrangements are defined by the approved load chart and project documents.

Floating Dock Crane

Lifting systems for floating docks

Hydraulic or electric drive can be configured for load moments up to 600 t.m. Structure, outreach and installation interfaces are engineered for the floating-dock arrangement.



FLOATING-DOCK DUTY

UP TO 600 t.m

LOCAL OR REMOTE CONTROL

Ratings shown are indicative. Final capacity, outreach, interfaces and control arrangements are defined by the approved load chart and project documents.

Overhead Traveling Crane

Rail-mounted material handling

Safe working loads of 1, 2, 3, 4 or 5 t are available with wired or wireless control and an overload warning system.

Electrical components can follow the agreed project specification.



1-5 t SWL

WIRED OR WIRELESS CONTROL

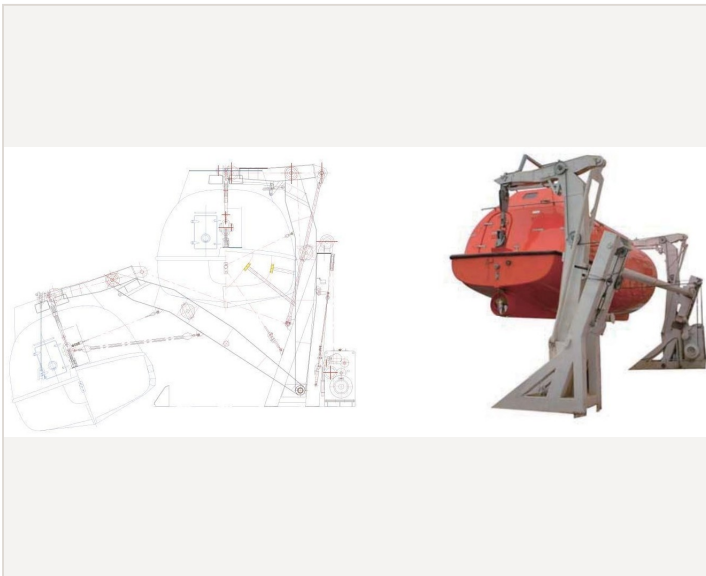
OVERLOAD WARNING

Ratings shown are indicative. Final capacity, outreach, interfaces and control arrangements are defined by the approved load chart and project documents.

LPLG Series Low-Headroom Lifeboat Davit

Compact arrangement for restricted deck clearance

Each launching appliance is engineered to the approved project specification and applicable statutory and classification requirements.



MODEL	SWL (kN)
LPLG70	70
LPLG100	100
LPLG150	150
LPLG190	190

DESIGN AND CERTIFICATION BASIS

The LPLG series is intended for installations with restricted deck clearance. Lowering is completed with vessel heel not exceeding 20 degrees and trim not exceeding 10 degrees. Final arrangement and operating envelope are defined by vessel-specific documents and certification to applicable SOLAS, flag and classification requirements.

Hydraulic Luffing-Arm Lifeboat Davit

SRH series controlled launching system

Each launching appliance is engineered to the approved project specification and applicable statutory and classification requirements.



MODEL	SWL (kN)
SRH120	120
SRH170	170
SRH220	220
SRH260	260

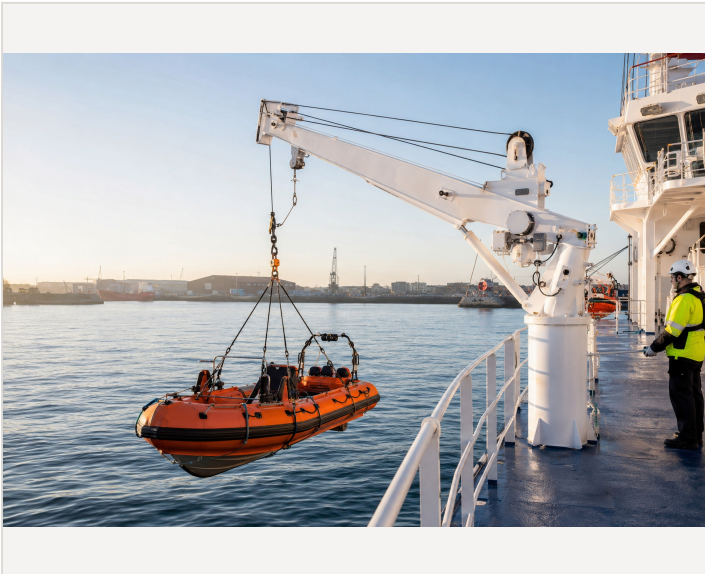
DESIGN AND CERTIFICATION BASIS

The SRH series uses a hydraulically powered luffing arm for controlled lifeboat launching. Lowering is completed with vessel heel not exceeding 20 degrees and trim not exceeding 10 degrees. Final arrangement, operating range and certification follow the approved project documents and applicable requirements.

Single-Arm Slewing Davit for Rescue Boats and Liferafts

HSD series rescue-boat launching appliance

Each launching appliance is engineered to the approved project specification and applicable statutory and classification requirements.



MODEL	SWL (kN)
HSD15	15
HSD23	23
HSD30	30

DESIGN AND CERTIFICATION BASIS

The HSD series is intended for rescue boats and davit-launched liferafts. Operation is defined for vessel heel not exceeding 20 degrees and trim not exceeding 10 degrees. Higher-capacity arrangements require separate engineering review, certification and approval.

A-Frame Rescue Boat Davit

PR / PRH series fast-rescue-boat system

Each launching appliance is engineered to the approved project specification and applicable statutory and classification requirements.



MODEL	SWL	HOIST	LOWER
PR30	30	≥ 18	40-60
PR35	35	≥ 18	40-60
PRH30	30	50-60	40-60
PRH35	35	50-60	40-60

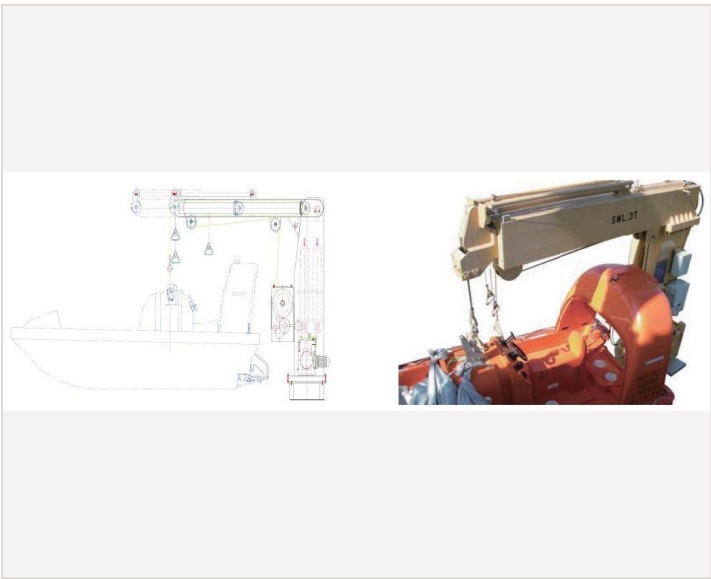
DESIGN AND CERTIFICATION BASIS

The PR and PRH series are designed for rescue boats and fast rescue boats, with motion compensation and hydraulic damping available to the approved arrangement. Operation is defined for vessel heel not exceeding 20 degrees and trim not exceeding 10 degrees, subject to applicable SOLAS and classification requirements.

Hydraulic Telescopic Rescue Boat Davit

PHTR series telescopic launching appliance

Each launching appliance is engineered to the approved project specification and applicable statutory and classification requirements.



MODEL	SWL	HOIST	LOWER
PHTR15	15	≥ 18	40-60
PHTR30	30	≥ 18	40-60

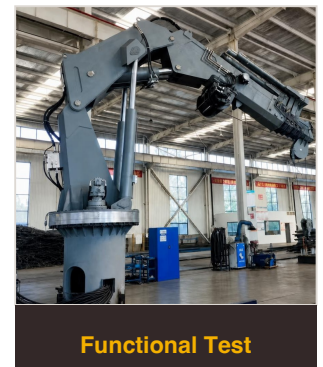
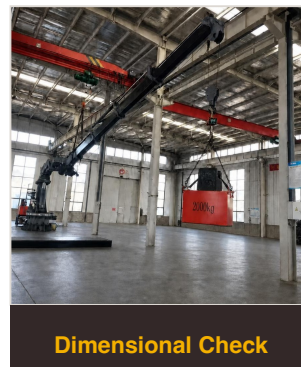
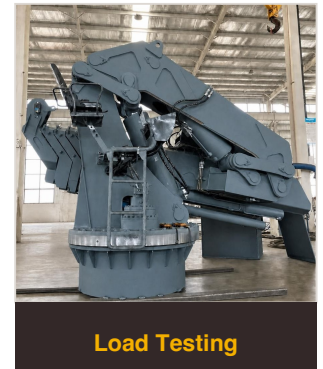
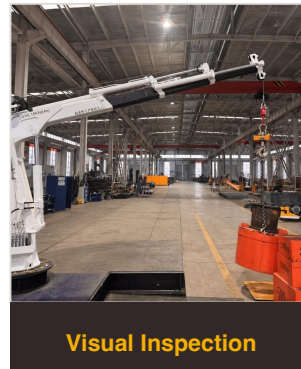
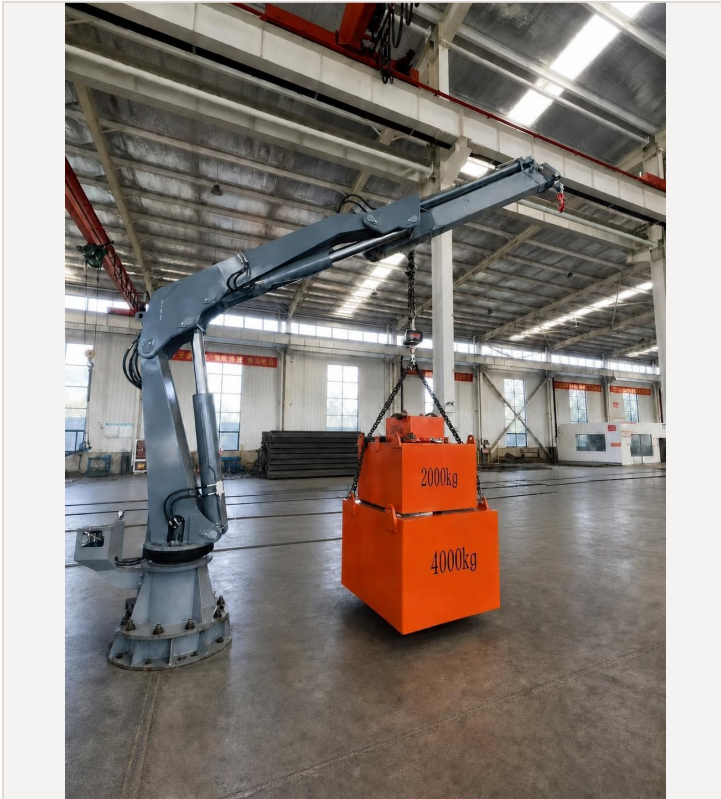
DESIGN AND CERTIFICATION BASIS

The PHTR series uses a hydraulically telescopic boom with electric or hydraulic hoisting options. Motion compensation may be specified as a project option. Operation is defined for vessel heel not exceeding 20 degrees and trim not exceeding 10 degrees, subject to applicable project and certification requirements.

Inspection & Verification

Final inspection before dispatch

Inspection covers incoming material review, weld and dimensional checks, load testing, functional verification, documentation review and final release before dispatch.



All inspection stages are recorded and traceable to confirm compliance with approved drawings, project specifications, customer requirements and applicable standards.

Technical Approvals

Project-specific compliance and documentation

Approval routes are selected to suit the vessel, flag, classification society, service notation and contracted project scope.

CLASSIFICATION REVIEW AVAILABLE

CCS

PROJECT-SPECIFIC REVIEW

BV

PROJECT-SPECIFIC REVIEW

ABS

PROJECT-SPECIFIC REVIEW

DNV

PROJECT-SPECIFIC REVIEW

LR

PROJECT-SPECIFIC REVIEW

RINA

PROJECT-SPECIFIC REVIEW

KR

PROJECT-SPECIFIC REVIEW

RS

PROJECT-SPECIFIC REVIEW

Classification Basis

Marine cranes are engineered against the selected classification rules, approved vessel arrangement, load case and project specification.

Statutory Basis

Launching appliances are designed to the applicable SOLAS provisions, relevant IMO documents, flag-state requirements and classification rules.

Typical Approval Package

Project-dependent documentation may include general arrangement and interface drawings, load charts, hydraulic and electrical schematics, material and welding records, inspection and load-test reports, and operating manuals.

Approval and certification are not blanket claims. The final society, scope, notation and deliverables are confirmed for each contracted project.

Specification Summary

Indicative product range from the brochure

Ratings remain subject to outreach, duty, sea state, vessel interfaces, approved load charts and the final project specification.

MARINE CRANE RANGE

Telescopic Boom

Hydraulic I up to 500 t.m

Knuckle Boom

Hydraulic I up to 500 t.m

Telescopic Knuckle

Hydraulic I project-specific

Stiff Boom

Hydraulic I up to 600 t.m

Offshore Crane

Hydraulic/electric I up to 1,800 t.m

Shipboard Cargo

Hydraulic/electric I up to 1,800 t.m

Floating Dock

Hydraulic/electric I up to 600 t.m

Overhead Traveling

1-5 t SWL I wired/wireless control

LAUNCHING APPLIANCES

LPLG70/100/150/190

70-190 kN SWL

SRH120/170/220/260

120-260 kN SWL

HSD15/23/30

15-30 kN SWL

PR30/35 - PRH30/35

30-35 kN SWL

PHTR15/30

15-30 kN SWL

CONTROL & PROJECT OPTIONS

Local control stations, wired or wireless remote control, overload warning, electric or hydraulic drive, heave-compensation options, and vessel-specific interfaces are selected according to the product type and approved project scope.

All values are indicative. Consult the approved data sheet and load chart for the selected equipment.

Selected Installation References

Representative applications shown in the brochure

The photographs below illustrate typical shipboard, offshore and floating-dock installation environments without identifying confidential customer or vessel information.



SHIPBOARD TELESCOPIC BOOM CRANE (RINA)



SHIPBOARD KNUCKLE BOOM CRANE (ABS)



OFFSHORE HEAVY-LIFT APPLICATION (CCS)



FLOATING-DOCK INSTALLATION (LR)

Final pedestal, foundation, hydraulic, electrical and control interfaces are engineered for the selected vessel and approved installation arrangement.

Maintenance & Spare Parts

Lifecycle support for marine lifting equipment



MAINTENANCE & INSPECTION

Routine maintenance, repair, condition inspection and clear reporting help extend equipment life and support safe operation. Service can be planned annually, semi-annually or for a defined project scope.



SPARE PARTS

Equipment-specific spare-parts recommendations can cover routine replacement items, critical components and project requirements. Final selection is confirmed against model and serial information.

DETAILED REPORTS

PLANNED SERVICE

MATCHED COMPONENTS



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