

DECK EQUIPMENT AND LIFESAVING APPLIANCES

PRODUCT CATALOGUE



PALFINGER IN BRIEF

PALFINGER is a leading international manufacturer of innovative lifting solutions for use on commercial vehicles, ships and stationary equipment. Based in Bergheim, Austria, the PALFINGER Group develops and produces leading solutions for its customers and partners all over the world. With more than 11,000 employees and over 5,000 sales and service centers, PALFINGER is close to the market and to its customers.

As a global partner for innovative and reliable deck equipment and lifesaving appliances, PALFINGER's marine business supplies high-quality products to fulfill standardized and customized demands. Supported worldwide by a network of experienced and skilled specialists, the company provides flexible and efficient service solutions. The portfolio gives a competitive edge for customers in the maritime and offshore industry.

PALFINGER operates in all major segments including Oil and Gas | Offshore, Merchant | Cargo, Passenger | Cruise, Governmental, Wind and Aquaculture.



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DECK
EQUIPMENT



BOATS
AND DAVITS



SERVICE

DECK EQUIPMENT

CRANES | WINCHES | LIFTING AND HANDLING EQUIPMENT |
ACCESS EQUIPMENT | SLIPWAY SYSTEMS



DECK
EQUIPMENT

CRANES

FOLDABLE KNUCKLE BOOM CRANES



As a result of their sophisticated crane geometry, work is effortless with PALFINGER's foldable knuckle boom cranes. They make full use of their strengths and flexibility when loading and unloading equipment. Due to their compact construction, they can easily be accommodated on every type of vessel especially where space is limited. Various additional features and options make these cranes a multi-functional tool. They can be designed according to offshore rules and regulations.

FEATURES

- _____ Lifting capacity up to 32 metric tons
- _____ Outreach up to 22 meters
- _____ Long-life surface treatment: corrosion protection
- _____ Low/high temperature operations
- _____ Return oil utilization on selected models
- _____ Continuous slewing system for cranes > 30 mt
- _____ Single link & power link system
- _____ Rack & pinion single and double slewing cylinders as well as continuous slewing system
- _____ Operation from control platform on crane

OPTIONS

- _____ Local control station
- _____ Remote control
- _____ Standing operator platform
- _____ Operator's cabin
- _____ Offshore Control System (OCS)
- _____ Overload protection systems: MOPS & AOPS
- _____ Constant tensioning
- _____ Lifting of personnel – man-riding
- _____ Workman basket
- _____ External hydraulic power packs
- _____ Mounting pedestal integrated hydraulic power pack
- _____ Crane certification acc. to selected rules and regulations
- _____ ATEX Zone 1 and 2 execution
- _____ Central greasing system
- _____ Special skid base for temporary installations



CRANES

STIFF BOOM CRANES



PALFINGER's stiff boom cranes are based on a pedestal slewing design with hydraulic cylinder luffing. The cranes are available with lifting moments in the range from 141 to 30,000 kNm and are supplied according to customer requirements. The stiff boom cranes can be delivered within a broad range of certifications and numerous optional features. They are typically used in dock, on fixed installations and in harbors.

FEATURES

- Hoisting capacity up to 100 metric tons
- Jib radius up to 50 meters
- Long-life surface treatment: corrosion protection
- Operation from control platform on crane
- Integrated electro hydraulic drive / HPU
- Continuous slewing
- Low/high temperature operations
- Anti-collision system

OPTIONS

- Remote control / operator's cabin
- Overload protection systems: MOPS & AOPS
- Constant tensioning
- Lifting of personnel – man-riding
- External hydraulic power packs
- Spray metalizing
- Different painting systems
- Crane certification according to selected rules and regulations
- Active Heave Compensation (AHC)
- ATEX Zone 1 and 2 execution
- Tugger winches



DECK
EQUIPMENT

CRANES

TELESCOPIC BOOM CRANES



PALFINGER's telescopic boom cranes are based on a pedestal slewing design with hydraulic cylinder luffing. The boom extension is a telescopic inner section that enables a more flexible and wider operational radius and leaves the crane stored in a compact position. Their low weight and less complex design make them particularly maintenance friendly. They are available with lifting moments from 140 to 12,000 kNm and are supplied according to customer requirements with numerous optional features.

FEATURES

- Hoisting capacity up to 50 metric tons
- Jib radius up to 40 meters
- Long-life surface treatment: corrosion protection
- Operation from control platform on crane
- Integrated Electro hydraulic drive / HPU
- Continuous slewing
- Low/high temperature operations
- Anti-collision system

OPTIONS

- Remote control / operator's cabin
- Overload protection systems: MOPS & AOPS
- Constant tensioning
- Lifting of personnel – man-riding
- External hydraulic power packs
- Spray metalizing
- Different painting systems
- Crane certification acc. to selected rules and regulations
- Active Heave Compensation (AHC)
- ATEX Zone 1 and 2 execution
- Tugger winches



CRANES

KNUCKLE BOOM CRANES



PALFINGER's knuckle boom cranes are designed to lift high loads with the jib extended and to provide the operator with great flexibility during lifting operations. Among other functions, they are used for pipe and boat handling. The knuckle boom crane range is available with lifting moments from 130 to 30,000 kNm. Severe weather conditions and heavy seas introduce oscillating motions to suspend loads. The improved level of control makes the crane ideal for offshore lifting operations in higher sea states.

FEATURES

- Hoisting capacity up to 100 metric tons
- Jib radius up to 50 meters
- Long-life surface treatment: corrosion protection
- Operation from control platform on crane
- Integrated electro hydraulic drive / HPU
- Continuous slewing
- Low/high temperature operations
- Anti-collision system

OPTIONS

- Constant tensioning
- Remote control / operator's cabin
- Overload protection systems: MOPS, AOPS
- Lifting of personnel – man-riding
- External hydraulic power packs
- Active Heave Compensation (AHC)
- ATEX Zone 1 and 2 execution
- Tugger winches
- Spray metalizing
- Different painting systems
- Crane certification acc. to selected rules and regulations



CRANES

ACTIVE HEAVE COMPENSATED (AHC) CRANES



PALFINGER delivers AHC offshore cranes ranging from smaller models for SOV's to larger models for subsea lifts, in addition to special systems for module handling deployments. All cranes are custom-built to meet customer requirements and can be delivered in various configurations. The AHC system is developed for the harsh offshore environment. Rugged design made by experienced engineers ensures trouble free operation under the most extreme conditions.

FEATURES

- Low weight and center of gravity
- Low power consumption
- Fully equipped operators' cabin
- Up to 3000 m capacity wire
- AOPS / MOPS / TENSIONING
- Flood lights / Helicopter lights
- Boom tip camera
- Emergency back-up control system
- Design according to DNV 2.22
- SWL 5 – 250 t

OPTIONS

- Tugger winches
- Aux winch (with or without AHC winch)
- Fiber rope solution
- Pedestal adapter
- Hazardous zone classification
- Lift planning tool
- Remote diagnostic
- Winch below deck
- Design according to EN 13852 / NORSOK

DESIGN FEATURES

LOW WEIGHT AND LOW CENTER OF GRAVITY

- Low built design
- All components and the AHC winch placed as low as possible
- High lifting capabilities compared to weight and center of gravity
- Maximizing wire capacity on the AHC winch while remaining safe fleet angles

HYDRAULIC SYSTEM

- HPU placed inside crane pedestal (no need for container system)
- Zero load drop when brake is removed, no need for tuning of the system with different loads
- Load can be held in subsea mode with brake off and all safety systems active for several days without any movement of the load due to leakage in the hydraulic system

OPERATOR ERGONOMICS AND MAINTENANCE ACCESS

- State-of-the-art operator cabin
- Easy access to all points of maintenance, inspection and service

HIGH PERFORMANCE

- Capacity to reduce movement with up to 98 %
- Optimized drive train for correct speed and high capacity

LOW POWER CONSUMPTION

- Advanced hydraulic drive system and smart system design to share the available power effectively between the different functions
- Low installed power compared to AHC performance and available hoisting speeds



CRANES

WIRE LUFFING LATTICE BOOM CRANE

WIRE LUFFING LATTICE BOOM CRANES – FULLY ELECTRIC



The PALFINGER wire luffing lattice boom cranes are based on a slewing pedestal design. The cranes are state-of-the-art and supplied according to the latest offshore rules and regulations with lifting moments in the range from 4,000 to 30,000 kNm. They are supplied with built-in electro hydraulic or diesel hydraulic power packs. Wire luffing lattice boom cranes are typically used when the needed outreach exceeds 40–50 m. They function as deck-, ship to ship-, pipe handling- and boat handling cranes.

PALFINGER has developed a new and innovative range of wire luffing lattice boom cranes with fully electric drive based on VFD technology, designed according to EN13852-1 and NORSOK R002. The cranes offer high quality alongside optimized weight and need no oil and less power, making them remarkably environmentally friendly. In addition, reduced maintenance needs minimize total lifetime costs.

FEATURES

- Hoisting capacity up to 100 metric tons
- Jib radius up to 70 meters
- Internal slewing gearing and slewing gears
- Reduced need for maintenance
- Electro hydraulic or diesel hydraulic drive
- Easy access to all types of maintenance
- Weight optimized
- Enables operation with a significant wave height up to 6 m
- Operator's cabin
- Anti-collision system

OPTIONS

- Tugger winches
- Constant Tensioning
- Remote control
- Design according to API-2C / ABS / EN13852 / NORSOK / BV / LRS
- AOPS / MOPS / Tensioning
- Personnel lift
- Metalizing
- ATEX Zone 1 and 2 execution

FEATURES

- Hoisting capacity up to 100 metric tons
- Jib radius up to 70 meters
- State-of-the-art control system
- Safe to use up to significant wave height up to 6 meters
- Optimized load charts to ensure flexibility in operation
- Easy maintenance, access to all areas of the crane
- Remote access of crane for quick support and fault detection
- Off the shelf components to ensure easy maintenance and quick supply of spare parts

OPTIONS

- Tugger winches
- Aux winch
- Fiber rope solution
- Pedestal adapter
- Hazardous zone classification
- Lift planning tool
- Remote diagnostic
- Winch below deck
- Design according to EN 13852 / NORSOK

ADVANTAGES

- Less vibration, less noise
- Less components
- Smoother and more predictable operations
- Reduction in maintenance cost
- Subject to wear and tear
- No risk of oil spill
- Less power consumption

CRANES

TRAVELLING CRANES



PALFINGER's travelling cranes are available in numerous configurations and for a range of applications. The travelling feature indicates the mobility of the crane in the way it travels within a given area of operation. Structures featuring overhead, underslung, gantry and semi-gantry cranes are available for various handling requirements. Travelling cranes are delivered electrically or hydraulically driven. All cranes are delivered custom-built according to project-specific requirements.

TYPICAL APPLICATIONS

MARINE CRANES

- Monorail provision cranes
- Engine room cranes
- Cargo rail cranes
- Travelling deck cranes
- Thruster replacement cranes
- Service cranes

OFFSHORE CRANES

- BOP handling cranes
- X-mas tree handling cranes
- Pipe handling cranes
- Riser handling cranes
- Service cranes

FEATURES

- Hoisting capacity up to 600 metric tons
- Long-life surface treatment: corrosion protection
- Operation from control platform on crane
- Electro hydraulic drive or fully electric
- Low/high temperature operations

OPTIONS

- Remote control
- External hydraulic power packs
- Anti-collision system
- ATEX Zone 1 and 2 execution

CRANES

FIXED BOOM CRANES

FULLY ELECTRIC REMOTE OPERATED JIB CRANES



PALFINGER's fixed boom cranes are experts for safe and fast material handling at offshore wind platforms. A special surface coating and processing of high-quality materials protects the fixed boom cranes against corrosion. Fixed boom cranes are available with electric and hydraulic drives. They are used in the offshore wind industry as platform, transition and substation cranes.

PALFINGER has developed a fully electric jib crane for operations onboard offshore installations. These cranes are custom-designed for being installed and operated in harsh environments onboard installations without personnel. No components are left exposed in the parked position. Operated remotely from an onshore control location, the cranes are prepared for fully autonomous operations. They are equipped with advanced start-up procedures, diagnostic functions and fully integrated support and logistic functions. The power consumption is only 30–50 % compared to traditional offshore cranes.

FEATURES

- CE declaration
- Overload protection for platform lift (RCL controller acc. EN13852-3)
- Overload protection for offshore lift (AOPS & ELL acc. EN13852-3) corrosion protection CX (offshore) – EN12944-9
- Operation by remote control
- Electric Control Cabinet integrated in the crane boom design
- Manual slewing
- Laydown boom for easy access

OPTIONS

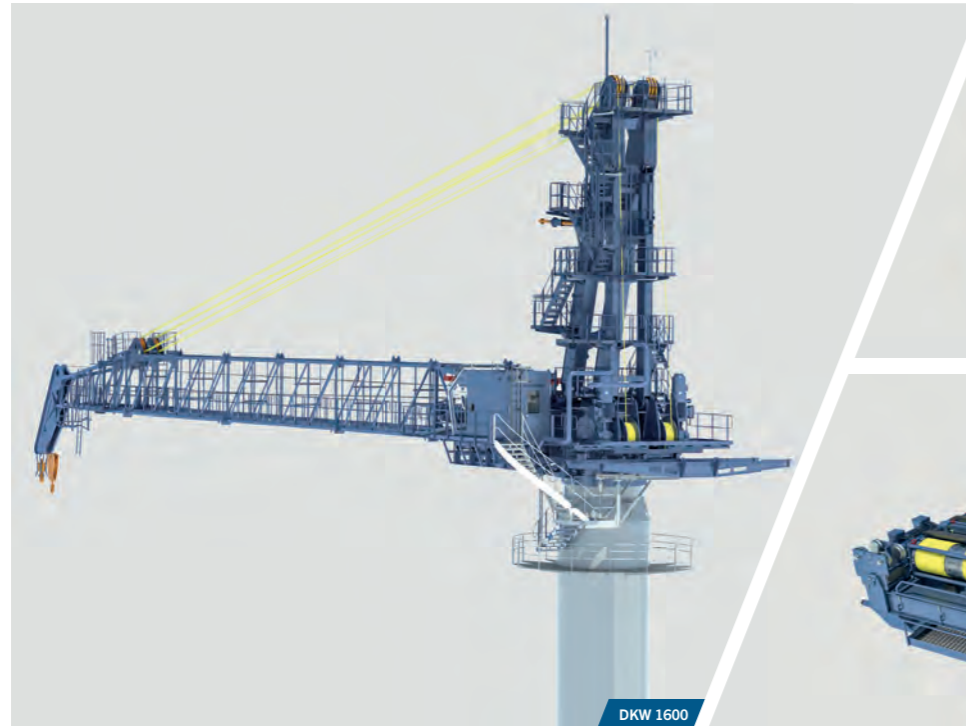
- Electric slewing
- Exceptional lift up to 3,0 t SWL / 1,0 m SWH
- Spray metalizing
- Pivoting bars (additional lifting points)
- Slack wire detection system
- Visual warning light
- Working light
- Pulley line system

FEATURES

- Fully electric drive
- Remotely operated, prepared for autonomous operations
- Compact solution
- Electric main winch located inside slewing column
- Electric motors for slewing motion located inside slewing column
- Synchronization between trolley travel and main winch movement to balance power consumption
- Electric trolley parked inside slewing column when crane is not in operation

CRANES

HIGH RISK OPERATION FEATURES



DKW 1600



TK 25T Traveling crane



TK 25T Traveling crane

WINTERIZATION



PALFINGER's offshore cranes can be delivered with additional features for high-risk operations. These features are specially adapted to cranes that are used for various applications where the consequences of potential failures are high.

Marine and offshore cranes from PALFINGER deliver excellent performance even in the toughest environmental conditions. For operating in extremely cold climates, PALFINGER has developed a number of innovative solutions ensuring safe and reliable cold climate operations in temperatures down to -50°C . They are designed in accordance with DNV GL, BV, LRS, RMRS, ABS and other relevant class societies' regulations.

OFFSHORE PEDESTAL CRANES

One of the major risks is a boom fall. In this situation, it will be difficult to predict where the load and boom will come down. This risk can be minimized by using PALFINGER's double luffing system which ensures that a failure in one of the winches or wire rope will not lead to a boom fall or load drop even with full load in the worst conditions. The system is highly reliable without adding any components compared to a traditional luffing system.

TRAVELLING CRANES

PALFINGER can deliver 100 % redundant hoisting systems where any kind of failure to any of the components in the system including a wire failure will not cause any uncontrolled movement of the load. Due to their high level of performance, the cranes also prevent uncontrolled movements of the bridge or trolley motions.

FEATURES

- Fully insulated and heated, lightweight housing that protects sensitive components
- Heat-tracing for components located in exposed areas
- Specially-designed heated operator cabin with extra insulation
- Heated gangways, stairs, ladders and railings
- Special hydraulic oil and grease adapted for cold climates
- Heavy duty components designed to withstand ice removal
- Designs that prevent excessive ice build-up



WINCHES

ANCHOR AND MOORING WINCHES

MOORING SYSTEM WINCHES



PALFINGER's anchor and mooring winches are particularly robust and designed to withstand the most extreme environmental conditions, from the highest to the lowest possible operating temperatures. The design and arrangement of the winches are compliant with all class requirements and vessel designs. PALFINGER's winches for anchoring and mooring purposes are available in various sizes and configurations, both with electric and hydraulic drive systems. Wire-based windlass winches are also available in various configurations. Winches for anchoring and mooring purposes consist of combined windlass/mooring winches, windlass winches, mooring winches, capstans and bollard capstans.

PALFINGER supplies mooring systems suitable for offshore vessels which require advanced mooring capabilities. The systems consist of multiple mooring winches with centralized control systems in addition to local manual controls on each winch. The mooring systems are equipped with wire rope tension and payout length control and are capable of emergency release under a combination of all of the following conditions: dead ship (by use of accumulators), brake on and hoisting/lowering conditions. Configuration from 4–16 point mooring.

FEATURES

- Electric or hydraulic drive
- Single or double configuration
- Chain size from 36–160 mm
- Manually operated clutch and band brake
- Local control

OPTIONS

- Auto tension/tension control
- Chain length or speed measurement
- Bridge operated chain drop
- Hydraulic operated brake
- Remote control (wireless)
- Stainless steel band brake surface

FEATURES

- Electric or hydraulic drive
- Rated pull from 20–400 metric tons
- Spooling device
- Hydraulic operated brake and clutch
- Auto tension / tensioning control
- In-house made "state of the art" control system

OPTIONS

- Water cooled brakes
- Wire sheaves
- Swiveling fairleads

WINCHES

ANCHOR HANDLING / TOWING WINCHES

TOWING WINCHES



PALFINGER supplies a broad range of winches for anchor handling and towing purposes onboard AHT & AHTS vessels. Winch dimensions and capacities are normally custom-built for the specific vessel and its operation. These winches and their associated control systems are suitable for all sizes of anchor handlers. In view of the very high loads, anchor handling/towing winches have to be tightly integrated into the structure of the vessel, which is why the winches are custom-built for the specific vessel and its operations.

FEATURES	OPTIONS
Electric or hydraulic drive	Chain pulling winches
Rated pull from 150–500 metric tons at 1st layer	Chain rollers
Brake holding force up to 670 metric tons	Secondary winches
Hydraulic operated brakes / clutches	Double drum waterfall
Spooling device / state-of-the-art control system	Triple drum waterfall
	Side-by-side (double or triple drum)

PALFINGER supplies a broad range of winches for towing purposes onboard various vessel types. Winch dimensions and capacities are normally tailored to the specific vessel and its operation. These winches and their associated control systems are suitable for all sizes of vessels. They offer high line-pull and braking power, which makes them perfect for offshore towing. Single and double drums are available in either side-by-side or waterfall configuration, as well as multiple control stations.

FEATURES	OPTIONS
Electric or hydraulic drive	Single drum
Rated pull from 20–400 metric tons	Double drum waterfall
Spooling device	Side-by-side double drum
Hydraulic operated brake and clutch	
Auto tension / tensioning control	
In-house made "state of the art" control system	



WINCHES

ABANDON AND RECOVERY (A&R) WINCHES

ACTIVE HEAVE COMPENSATED (AHC) WINCHES



PALFINGER's abandon and recovery winches are especially designed to abandon or recover a pipe or cable at the seabed. The top tension required increases in proportion to the depth of the water. Ultimately, an increased A&R winch cable length as well as tensioner capacity are required.

Active Heave Compensated (AHC) winches made by PALFINGER are designed for rough operations in offshore environments. The system is specially designed for load handling from a vessel or rig towards the seabed, underwater installations or other fixed targets on the seabed. To control the relative position of a load to a fixed object, active heave compensation (AHC) is used. The position is determined by the control system using the real-time signal of a motion reference unit (MRU) as an input signal. In response to this signal, the AHC system will pay in/out to keep the load at a constant elevation.

FEATURES	OPTIONS
Electric or hydraulic drive	Active heave compensated (AHC)
Steel wire drum	Wire sheaves
Rated pull from 50–300 metric tons	Overboarding sheaves
Local and remote control	
Spooling device	
Drum guard	

FEATURES	OPTIONS
Hydraulic or electric drive	Spooling device
SWL from 10–400 metric tons	Wire sheaves
Wire length up to 3,000 meters	Overboarding sheaves
State-of-the-art control system	



WINCHES

DECK WINCHES FOR LIFTING AND HANDLING

STORAGE WINCHES



PALFINGER delivers a wide range of deck winches for lifting and handling operations on deck. These winches are delivered in various configurations depending on the working tasks – from handling cargo on deck to support crane operations during lifting. Their main purpose is to support the crew during heavy duty operations, such as working with towing gears, deck cargo or support during lifting operations.

PALFINGER supplies a wide range of deck winches for storage. These include spare towing wire storage winches, rope storage winches, icenet storage winches and streamer cable storage winches.

FEATURES	OPTIONS
Hydraulic, pneumatic or electric drive	Remote control
SWL from 2–50 metric tons	Spooling device
Local control	

TYPES
Tugger winches
Cargo securing winches
Constant tension (CT) winches
Crane lift support winches
Cable initiation winches
Transponder winches

FEATURES	OPTIONS
Hydraulic or electric drive	Remote control
SWL from 2–50 metric tons	Spooling device
Drum capacity according to customers' requests	
Drum type: steel wire or synthetic rope	
Local control	

LIFTING AND HANDLING EQUIPMENT

A-FRAMES



PALFINGER has a range of A-frames delivered for either stern or side mounting. Their lifting capacity ranges from 10–400 t and they have a working out-reach/in-reach of up to 25 meters. They are designed according to project-specific requirements. Customers can choose between single fall models (one cylinder on each side) or double fall models (two hydraulic cylinders on each side, knuckle boom design). PALFINGER's A-frames are typically used for anchor handling, buoy handling, plough handling, subsea handling, or launch and recovery of submersibles.

FEATURES

- Hydraulic drive
- Bolted or welded to deck
- SWL from 5–400 metric tons
- Local and remote control

OPTIONS

- Deck mounted wire sheaves for guiding of wire
- Guide wire winches on A-frame
- Main lifting winch on A-frame
- Wireless control

STERN ROLLERS



PALFINGER supplies single and double stern rollers. They are custom-built to fit each vessel and are designed for anchor handling and towing operations. Full and simultaneous utilization of both drums (double drums) is provided.

FEATURES

- Single or double drum configuration
- SWL from 50–500 metric tons
- Manually or automatic greasing

OPTIONS

- Center support for utilizing full SWL on both drums simultaneously (for double drum models)
- Spare grease pump



DECK EQUIPMENT

LIFTING AND HANDLING EQUIPMENT

CONTAINER AND PALLET HANDLING CRANES



CONTAINER HANDLING CRANE

PALFINGER delivers customized container handling systems which can handle both 10" and 20" containers to/from the vessel to quay side as well as inside the container hangar area. The system consists of a roof mounted telescopic travelling crane with a slewing gear for full operational reach within the hangar.

FEATURES

- Hydraulic drive
- SWL from 15–25 t
- Container yoke rotation: $\pm 90^\circ$
- Telescopic length: 3,500 mm
- Minimum outreach of telescopic part: 4,450 mm
- Maximum outreach of telescopic part: 5,916 mm
- Lifting height: 5,000 mm (or according to customers request)
- Travelling length: in accordance with customer requirements
- Local and remote control



PALLET HANDLING CRANE

PALFINGER has developed a Pallet Handling Crane (PHC) for the offshore wind power industry. It enables safe and efficient (un)loading of pallets to/from containers stored below deck. The system consists of a tooth rack and conductor system, a bridge and trolley, a pallet fork system and a pallet fork unit.

FEATURES

- Electro and hydraulic drive (bridge & trolley electric and fork with hydraulic)
- SWL of 1 metric ton
- Rail length: in accordance with customer requirements
- Radio remote control unit (primary) and cable based control unit (secondary)

CONTAINER HANDLING SYSTEMS



Container and Pallet Handling System



Skidding System



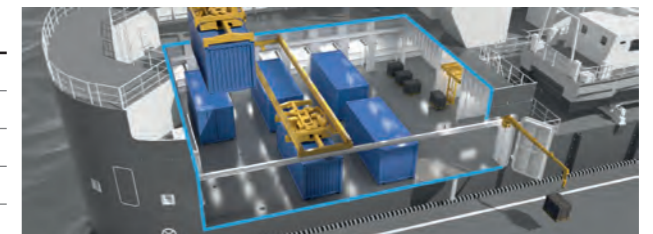
Cargo Securing System

PALFINGER offers different types of sophisticated container handling systems for support vessels. These enable, for example, safe, efficient and easy handling of containers, pallets and loose goods onboard. Aside from that, PALFINGER supplies complete systems for skidding and securing containers. Finally, an innovative solution for moving and securing containers and cargo perfectly rounds off PALFINGER's portfolio of container handling systems.

TYPES

CONTAINER AND PALLET HANDLING SYSTEM

- Hydraulically operated, detachable pallet fork
- 1 metric ton safe working load auxiliary winch
- Safe working load from 12 to 25 metric tons
- For 10" and 20" containers



CARGO SECURING SYSTEM

- Hydraulic drive
- Number of lines according to customer's specification
- Securing carriers per line: 2
- Pull force (each line) between 15 to 20 metric tons



CONTAINER SKIDDING SYSTEM

- Operated by hydraulic cylinders (each line fitted with two)
- Skidding length according to customer's specification
- Push cargo of up to 40 metric tons
- Move cargo at 6–12 m/min



LIFTING AND HANDLING EQUIPMENT

HOSE SECURING SYSTEMS

LAUNCH AND RECOVERY SYSTEMS (LARS)



PALFINGER's Hose Securing Systems (HSS) provide safe and automated handling of hoses onboard offshore support vessels during loading and off-loading bulk to or from a rig. Various numbers of hose securing arms (HSA) are mounted outside of the rail on the vessel nearby the bulk loading connection points (normally 4 on each side of the vessel). The HSS is designed to catch and lock hard and soft wall hoses during loading and unloading liquid and dry bulk materials.

LARS FOR RIBS AND SUBMERSIBLES

This LARS moves Submarines and RIBs (small types) from a stowed position in the marina to an outboard lowering position. The system consists of structural transversal gantry beams, reaching from side to side, and gantry cars running transversally in the gantry beams.

LARS FOR TENDER BOATS

PALFINGER delivers launch and recovery systems (LARS) for tender boats in various sizes. The system consists of two parallel lifting beams equipped with a winch mounted onto a travelling wagon. The travelling structure is driven on rollers from parked to fully extracted position. The wagon allows to hoist/lower the hook for deploying the boats to/from the hangar.

FEATURES

Hydraulic operated
Hose securing arms according to customer's specification
Local control

OPTIONS

Dedicated HPU
Radio remote control
Remote control panel (bridge mounted)

FEATURES

Hydraulic driven (if the telescopic part is not needed, electrical drive can be delivered)
With or without personnel handling
Easy access for maintenance
Local and remote control

FEATURES

Hydraulic or electric driven
Max. outreach from ship side in accordance with customer requirements
Max. outreach inside vessel in accordance with customer requirements
SWL in accordance with customer requirements
Local control



ACCESS EQUIPMENT

PLATFORMS AND DOORS



TENDER EMBARKATION PLATFORMS

For cruise vessels, PALFINGER delivers a wide range of tender platforms facilitating embarkation and disembarkation of passengers during tender operations. The platforms are delivered in multiple designs to guarantee high safety and weather resistance by separating door and platform or using single units with watertight recess.

FEATURES

- Hydraulic operated
- Watertight
- Easy access for maintenance
- Local control

MARINA PLATFORMS / DOORS

PALFINGER delivers watertight shell doors/platforms integrated into the transom of the vessel. The open position gives access to the beach club platform. The platforms are fitted with handrails (fixed or removable) and can be fitted with bollards etc. for tying up canoes, kayaks, water toys etc.

FEATURES

- Hydraulic operated
- Bottom hinged
- Watertight
- Easy access for maintenance
- Local control

SHELL DOORS

PALFINGER delivers various types of shell doors including top, bottom and side hinged models. The range covers bunkering doors, embarkation doors, marina/tender garage doors, bunkering doors, provision/luggage doors, stern doors, and shore connection hatches/doors.

FEATURES

- Hydraulic or electrical driven
- Watertight
- Easy access for maintenance
- Local control

MOORING / OBSERVATION PLATFORMS

PALFINGER delivers mooring / observation platforms integrated into the ship's side. In the open position, personnel can go onto the platform and thereby gain a better view of the mooring process. When the platform is closed, it becomes a part of the ship's side. The main components of the mooring platform are the frame and the actual platform.

FEATURES

- Hydraulic or electrical driven
- Easy access for maintenance
- Local control



DECK EQUIPMENT

ACCESS EQUIPMENT

PLATFORMS AND DOORS



SHORE GANGWAY SYSTEMS

PALFINGER's shore gangway is a ship-to-shore gangway used for embarkation/disembarkation of passengers to/from vessels. The gangway is designed to overcome a quay height of 4,800 mm. The gangway is designed to withstand all anticipated sea-states without deformations and to endure weight of max. 26 passengers boarding at the same time.

FEATURES

- Platform steel structure
- Telescopic gangway aluminum structure
- Railing structure
- Gangway shell door with coaming

PROVISION SIDE LOADING SYSTEMS

PALFINGER's provision platforms are installed onboard vessels for handling provision, garbage and various cargo. In the closed position, the platform forms a watertight hull part. The platform is designed for handling palletized goods, loaded from quay with a forklift and unloaded inside the vessel.

FEATURES

- Hydraulic driven or manually operated
- Number of stops: 1–3
- SWL up to 2,000 kg
- Outreach approximately 2 meters
- Local control

PORTABLE PLATFORMS

PALFINGER's portable loading platform is built to fit the door load opening with a reach of approximately 1400 mm outside the ship shell to accommodate safe provisioning with pallets. Only one operator is needed, and it can be removed and stowed by pallet truck when not in use, so that it does not interfere with normal provisioning through the side shell door.

FEATURES

- Manually operated by hand winch
- Foldable railings
- Internal & external loading platform
- Telescopic locking
- SWL: 2,000 kg
- Outreach approximately 1.4 meters
- Local control
- Weight approximately 1,000 kg

ROV HANGAR DOORS

PALFINGER delivers ROV hangar doors for naval, research and offshore support vessels. They are available in a wide variety of structural and functional configurations to meet specific applications. The size of the ROV Hangar Door can be entirely manufactured according to customer requirements.

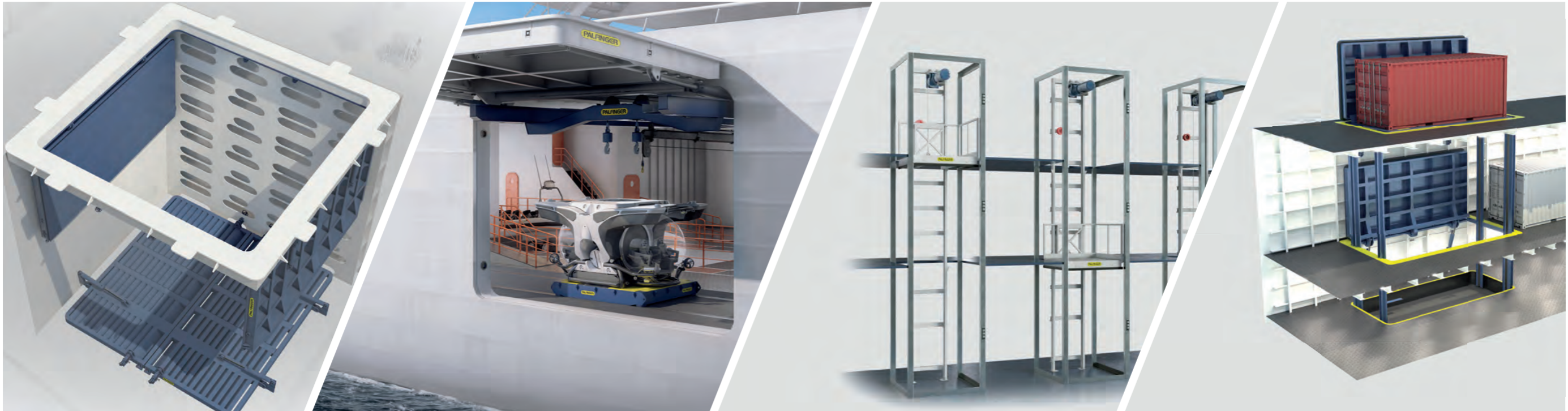
FEATURES

- Hydraulic driven
- Delivered with coaming structure
- Dimensions/size in accordance with customer's requirements
- Delivered in accordance to all class societies requirements
- Local control

ACCESS EQUIPMENT

PLATFORMS AND DOORS | TRANSPORTING SYSTEMS

LIFTS | ELEVATORS



MOONPOOL HATCH COVERS / DOORS

PALFINGER delivers moonpools of all types and sizes. Single, double or multiple door designs are specifically adapted for the moonpool lift equipment and can be fully integrated with moonpool bottom doors. Top door structures are designed to support the same load as surrounding deck areas.

FEATURES

- Hydraulic driven
- Delivered with coaming structure
- Dimensions/size in accordance with customer's requirements
- Delivered in accordance to all class societies requirements
- Local control

TRANSPORTATION SYSTEM FOR SUBMERSIBLES

PALFINGER's transportation system moves submarines from a stowed position in the marina to the pick-up location for the launch & recovery system. The system consists of transport profiles (flushed into deck) and a transport wagon, which is used as a stowing device for the submarine when not in use.

FEATURES

- Hydraulic or electrical driven
- Designed for operation in up to sea state 3
- Positive control in both directions
- Traveling speed of 5–6 m/min
- Easy access for maintenance
- Local control

INTERNAL CARGO LIFTS

PALFINGER delivers cargo lifts for internal handling of various goods. The lift is provided with an electrical locking mechanism for each deck level. It is sized for pallets and is capable of lifting forklifts from one deck to another where the total lift height is 7 m.

FEATURES

- Electrical driven
- Number of stops: 3
- SWL between 1–4 metric tons

CONTAINER ELEVATORS

PALFINGER's cargo elevator is a ship elevator used for loading/unloading of 20" cargo containers, cargo and personnel between decks in vessel. If the cargo elevator is used for personnel transport, removable stanchions can be inserted into the platform guaranteeing a safe environment between decks.

FEATURES

- Hydraulic drive
- SWL: 15–20 metric tons
- Cargo platform dimensions:
6,529 mm (clear length) x 2,785 mm (clear width)
- Control station at each floor
- Lifting height (number of decks) in accordance with customer requirements



DECK EQUIPMENT

SLIPWAY SYSTEMS

SLIPWAYS WITH QUAD WHEEL DRIVE UNITS



PALFINGER's hydraulically powered, semi-automatic slipway system consists of several wheel drive units (quad units) in two (or multiple) rows that rotate on axes to automatically adapt the slipway to the hull shape of a daughter craft during launch and recovery operations. When a boat enters the slipway, the overrunning clutches allow free rotation of the wheels in the recovery direction until the boat speed and wheel drive speeds match. The wheel drive units then dock the boat safely inside the slipway. End stoppers automatically set the craft in the parking and stowage position.

FEATURES

- SWL up to 30 metric tons
- Hydraulic driven wheel drive system
- Tilting and adapting to different hull shapes
- Semi-automatic with single-operator
- Slipway slope length according to customers' specifications
- Slipway angle up to 12° slope angle
- Slipway access via submerged wheel units on vessel transom / slipway frame / stern ramp / deck structure
- Tilting quad wheel units

OPTIONS

- Remote control from daughter craft
- Various remote control options on vessel side
- Power and control system redundancy
- Emergency launch and recovery by accumulator and UPS
- Higher slope angle and / or SWL (if possible / feasible)

SYSTEM BENEFITS

SAFE OPERATION

- No need for lifting, hooking, mechanical connection and use of painter lines and arrester wires
- Significantly reduced risk of accidents during operations
- Implementation of close guiding in all phases of operation reduces the risk of collision between daughter craft, mother vessel and handling equipment
- No need for manual support or interaction from the boat crew during launch and recovery

CREW AND PASSENGER COMFORT

- Safe, comfortable and easy operations in all weather conditions
- Drive wheel units ensure "gentle" load distribution to the boat hull and smooth transition in and out of the slipway
- Rubber drive wheels protect the hull of the daughter craft, extending its lifetime

UNMANNED CRAFTS

- Slipway systems can handle unmanned crafts such as Unmanned Surface Vehicles (USV's) and Autonomous Underwater Vehicles (AUV's)

OPERATIONAL ENVELOPE, SYSTEMS PERFORMANCE AND SPEED

- No need for complex tasks and highly coordinated efforts during operations, increasing safety as well as the operational weather envelope and speed of operations
- Single operator slipway system is easy and intuitive to use; personnel can become proficient operators in a short period of time

VERSATILITY

- Slipway systems can handle crafts with different hull shape, propulsion system and weight
- Slipway systems can handle multiple crafts and transfer crafts from the slipway to a stowage position on the mother vessel

RULES AND REGULATIONS

- Slipway systems are not categorized as lifesaving equipment. As a result, certification and inspections regime in accordance with SOLAS rules would normally not be applicable
- As the system eliminates the need for lifting of free-hanging loads, certification and inspections regime in accordance with rules for lifting appliances would normally not be applicable

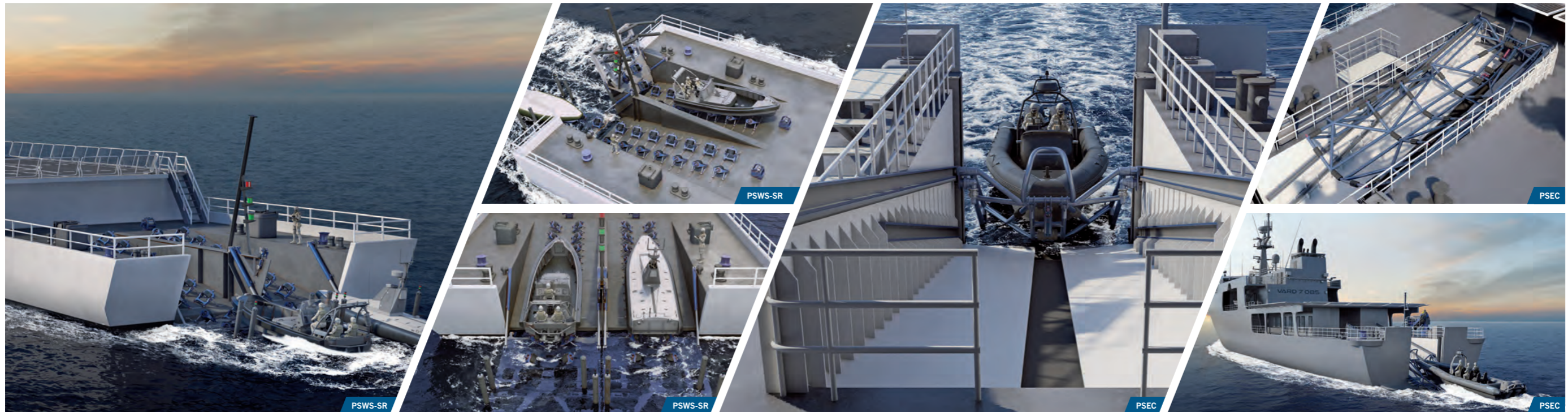


DECK EQUIPMENT

SLIPWAY SYSTEMS

SLIPWAYS WITH SINGLE WHEEL DRIVE UNITS

SLIPWAYS WITH BOAT CRADLE



PALFINGER's hydraulically powered, semi-automatic slipway system consists of several single wheel drive units in parallel rows. The tilt, height and distance between the wheels can be manually adjusted to conform to a range of daughter craft hulls. When a boat enters the slipway, the overrunning clutches allow free rotation of the wheels in the recovery direction until the boat speed and wheel drive speeds match. The wheel drive units then dock the boat safely inside the slipway. End stoppers automatically set the craft in the parking and stowage positions.

PALFINGER's boat cradle is an open and light tubular steel design minimizing forces induced by waves and currents. Rails on each side serve as guide and support mechanisms, while it is travelling up and down the slipway slope. One of the guide rails on each side of the slipway slope is fitted with a tooth rack for the drive system. Longitudinal movements and heave/lowering of the boat cradle are done by pinion drives mounted on each side. The pinion drives are fitted with automatic overrunning clutches allowing residual energy from the watercraft to move the boat cradle forward in case the craft approaches it at excessive speed.

FEATURES

- SWL up to 12 metric tons
- Hydraulic driven wheel drive system
- Manually adjustable to different hull shapes
- Semi-automatic with single-operator
- Slipway slope length according to customers' request
- Up to 12° slipway angle
- Slipway access via submerged wheel unit on stern ramp
- Wheel units and guide poles on ramp
- Designed to purpose and vessel interface
- Ramp movement: hydraulic operated cylinders

OPTIONS

- Remote control from daughter craft
- Various remote control options on vessel side
- Power and control system redundancy
- Emergency launch and recovery by accumulator and UPS
- Parking position for additional boat(s)
- Higher slope angle and / or SWL (if possible / feasible)

FEATURES

- SWL up to 5 metric tons
- Tubular steel frame with fenders and passive rollers
- Semi-automatic with single-operator
- Cradle shape and dimensions designed to purpose and boat(s)
- Up to 15° slope angle
- Slipway access via submerged slipway cradle
- Boat guiding system: cradle shape incl. fenders, rollers and bow clamp
- Cradle suspension: load bearing travelling rail
- Hydraulic operated rack and pinion drive
- Cradle elevation by asymmetrical guide rail system
- Hydraulic operated bow clamp
- Boat thrusting against cradle while cradle is retracted
- Gradual transfer of boats weight from water to cradle

OPTIONS

- Remote control from daughter craft
- Various remote control options on vessel side
- Power and control system redundancy
- Emergency launch and recovery by accumulator and UPS
- Parking position for additional boat(s)
- Higher slope angle and / or SWL (if possible / feasible)

BOATS AND DAVITS

LIFEBOATS, RESCUE- AND TENDER BOATS | GOVERNMENTAL AND PROFESSIONAL BOATS | DAVITS | FENDERS



BOATS AND DAVITS

LIFEBOATS, RESCUE- AND TENDER BOATS

FAST RESCUE BOATS



PALFINGER's fast rescue boats stand out with their excellent maneuverability and stability even in the most demanding sea conditions. They are safe, quick and extremely agile. All boats are designed according to the latest IMO/SOLAS regulations. The hull can be made of seawater resistant aluminum or glass reinforced plastic. PALFINGER's fast rescue boats are made of strong and durable materials, reducing the operational costs significantly.

SERIES / TYPES

FRSQ 850 SERIES

- Professional and heavy duty fast rescue boat / workboat designed for frequent use under challenging environmental conditions
- Single or twin inboard diesel with waterjet propulsion
- Deep V-bottom construction for high speeds
- Excellent maneuverability and stability based on "Split bow" hull design effect
- Aluminum hull, self-righting frame and steering console, guaranteeing durability, minimum maintenance and low operational cost
- Closed cell foam fender with a Hypalon cover to absorb possible heavy impacts
- Boat can carry up to 21 people according to SOLAS

NPT FAST RESCUE BOAT SERIES

- Single or twin outboard propulsion systems
- Single inboard diesel with waterjet propulsion
- GRP self-righting frame
- GRP steering console with fixed release hook system
- Standardized design and price competitive solution
- Capacity for up to 15 people according to SOLAS regulation

OPTIONS

- VHF radio
- Rescue net
- Remote control offload release hook
- GPS
- EPIRB (Emergency Position Indicating Radio Beacon)

SERIES / TYPES

FRSQ 600 SERIES

- Hull and console made of seawater-resistant aluminum
- Excellent maneuverability and stability due to split bow effect
- Inboard diesel and outboard engine versions available
- Capacity for 15 people including 1 laying on a stretcher
- Aluminum self-righting frame with inflating airbag
- Optional foam fendering
- Complies with SOLAS, MED and USCG requirements

FRSQ 700 SERIES

- Hull and console made of seawater-resistant aluminum
- Single or twin inboard diesel with waterjet propulsion
- Closed cell foam fender with a Hypalon cover
- Shock absorbing seats
- Deep V-bottom construction for high speeds
- Capacity for 15 people including 1 laying on a stretcher
- Excellent maneuverability and stability due to split bow effect
- Complies with SOLAS, MED and USCG requirements

FRSQ 630 SERIES

- Glass reinforced plastic hull
- Capacity for 15 people including 1 laying on a stretcher
- Standard supplied with Heavy duty D-section fendering
- Embarkation steps integrated in the boat underneath the openable boat sprayhood
- Helm designed for safety and excellent ergonomics
- Inboard diesel engine with waterjet propulsion
- Optional self-righting bag and foam fenders
- Complies with IMO/SOLAS, NMA regulations and LSA code

LIFEBOATS, RESCUE- AND TENDER BOATS

RESCUE BOATS

TOTALLY ENCLOSED LIFEBOATS



RSQ 450 Series



KISS 800



TECB Series

PALFINGER's rescue boats series are designed and produced according to the highest standards. They offer excellent maneuverability and stability during rescue operations, even in the most unfavorable weather conditions. The boats are available in different materials like sea water resistant aluminum and glass reinforced plastic (GRP), depending on the model type and operation criteria. All of PALFINGER's rescue boats are available with an IMO/SOLAS type approval certificate, with many different options and add-ons.

PALFINGER's totally enclosed lifeboats are designed and tested in accordance with the latest IMO / SOLAS regulations. They are available as tanker as well as dry cargo versions and are suitable for various marine and offshore purposes. Typically used for oil platforms, merchant vessels, research vessels and more, PALFINGER's totally enclosed lifeboats offer not only impressive quality standards, but are also designed for numerous possible areas of application.

SERIES / TYPES

RSQ 450 SERIES

- Hull made of seawater resistant aluminum or glass reinforced plastic (GRP)
- Designed for service in the most demanding environments
- 25 – 40 hp outboard engines
- Complies with SOLAS and USCG requirements
- Capacity for 5 people including 1 laying on a stretcher
- Low maintenance and operational costs due to durable materials

NPT RESCUE BOAT SERIES

- Hull made of glass reinforced plastic (GRP)
- Inboard diesel and outboard engine versions available
- Complies with SOLAS regulations
- Operation: Man overboard (MOB) or workboat (WB) depending on model

OPTIONS

- Boat cover and rescue net
- Steering console*
- Boat cradle
- Spare parts
- VHF Radio and GPS EPIRB
- Remote control release hook*

*if applicable

SERIES / TYPES

KISS LIFEBOAT SERIES

- Totally enclosed lifeboats
- Capacity for 50–90 people
- Big size seats available
- Side hatch available
- Certification authority (MED/USCG)
- Complies with latest SOLAS/LSA regulations

TECB SERIES

- Complies with SOLAS/LSA regulations
- Capacity for 21 – 38 people
- Compliance with IMO MODU Code
- Big size seats available
- Available with side hatch
- External steel parts of 316 L quality

NPT LIFEBOAT SERIES

- Complies with SOLAS/LSA regulations
- Capacity for 21 – 150 people
- Compliance with IMO MODU Code
- Big size seats available
- Available with side hatch
- External steel parts of 316 L quality

OPTIONS

- VHF radio
- SART (Search and Rescue Transponder)
- EPIRB (Emergency Position Indicating Radio Beacon)
- Engine heater
- Boat heater
- Winterization package
- Spring starter/hydraulic starter



LIFEBOATS, RESCUE- AND TENDER BOATS

PARTIALLY ENCLOSED LIFEBOATS AND TENDER BOATS

FREE-FALL LIFEBOATS



PALFINGER offers a wide range of partially enclosed lifeboats and combined tender/lifeboat systems for any kind of passenger vessel. All of them can be delivered with our customized davit systems.

Being the leading developer of free-fall lifeboats, PALFINGER supplies a range that is suitable for typical merchant vessels as well as one that complies even to the strictest level of offshore installations. While providing a safe and fast evacuation, these lifeboats are designed to comply with all the relevant regulations.

SERIES / TYPES

CTL 38 AND CTL 38 SV

- One of the biggest-selling tender/lifeboats in the world
- Comfortable ride
- Low running costs
- Good maneuverability
- Standard version (CTL 38) and shortened version (CTL 38 SV)

MPC 29 AND MPC 32

- Compact 150-people, partially enclosed lifeboats
- Optimal maneuverability
- Spacious interior
- User-friendliness

CTL 49 AND CTL 57

- Capacity for 250 to 270 people
- Latest innovations in design and technology
- Comfortable ride
- Largest tender boat on the market
- Countless customization options

MPC 49

- Safe boarding of and comfortable seating for up to 450 people
- One of the largest lifeboats on the market
- Unique double-deck design
- Advanced safety by design

OPTIONS

- Extras for low temperature areas (POLAR Code compliance)
- Restroom facilities with hot and cold water
- Entertainment systems with sound and screens
- AC systems and/or heatings
- LED Mood lights in cabin or outside
- USB charging ports at each seat row
- Bar on board
- MARPOL/Tier III Certificates
- Other options available on request

SERIES / TYPES

FF1000

- Capacity for 60 people (50 persons, 100 kg each)
- Free-fall height: 36 meters
- Unique combination of positive headway and low g-forces
- Strength tested from 47 meters

NPT FREE-FALL SERIES

- Complies with SOLAS regulations
- Freefall height between 16–30 m / 15–50 person capacity
- Available in two versions: tanker or dry cargo
- Equipment built according to European standards

FF1200

- Designed according to DNVGL-ST-E406/ NORSOK R-002 & SOLAS standards
- Capacity for 70 people – superior space and comfort
- Free-fall height: 46 meters
- Seats with 5-point seat belts for safety and comfort
- Twin steering position
- Designed for freefall into waves – verification of project specific weather data by CFD simulations
- Maximum strength and safety, minimum deflection
- Unique combination of positive headway and low G-forces
- High power engine (280 hp), high speed and high bollard pull

OPTIONS

- Boat heater
- Engine heater
- Emergency spring starter
- Hydraulic starter
- SART (Search and Rescue Transponder)
- SART (Search and Rescue Transponder)
- SART (Search and Rescue Transponder)
- EPIRB (Emergency Position Indication Radio Beacon)
- Winterization package



BOATS AND DAVITS

GOVERNMENTAL AND PROFESSIONAL BOATS

DAUGHTER CRAFTS



FRSQ 850 A DC TID



FRSQ 1000 FRDC



FRSQ 1200 A FRDC

WORKBOATS



PB 950 A DC WB TID



PB 700 A WB SWJ



PB 750 A WB ID

PALFINGER daughter crafts comply with UKOOA/SOLAS regulations and are delivered with design approval and certificate of inspection. The deep V-bottom construction makes the boats suitable for high speeds and stability in any offshore environment.

PALFINGER workboats and tugs are strong, resistant to impacts, maintenance-friendly and made of heavy-duty aluminum. Modifications to the hull can easily be implemented.

SERIES / TYPES

FRSQ 850 A DC TID

- Complies with SOLAS regulations
- Can be configured for workboat, patrol boat or for SAR purposes
- Hull and cabin made of seawater-resistant aluminum
- Self-righting capabilities

FRSQ 1200 A DC TID

- Twin inboard diesel with waterjet propulsion
- Designed as workboat, patrol boat or diving support boat
- Ergonomic cockpit, three shock absorbing seats, twelve cushioned covered seats

OPTIONS

- Rescue net
- Radar
- GPS
- Spare parts
- Air conditioning

FRSQ 1000 A DC TID

- Complies with UKOOA / SOLAS regulations
- Delivered with design approval and certificate of inspection
- Deep V-bottom construction suitable for high speeds and high stability in any offshore environment
- Excellent reachability of the engines for maintenance purposes
- Both hull and cabin made out of seawater resistant aluminum

SERIES / TYPES

PB 700 A WB SWJ

- Aluminum hull guarantees a long lifetime and low maintenance
- Single inboard diesel water-jet and/or twin inboard diesel water-jet
- Self-righting capabilities
- Railing and boarding platform
- Additional seats

PB 950 A DC WB TID

- FRSQ tug designed for oil spill recovery / towing purposes
- Modifications to the hull can be easily implemented
- Ergonomic cockpit, three shock absorbing seats
- Twin inboard diesel with waterjet propulsion, bollard up to 4 t

OPTIONS

- Boat heater
- Emergency spring starter
- Engine heater
- Hydraulic starter

PB 750 A WB ID

- Perfectly designed harbor workboat
- Capacity for 12 people
- Single inboard diesel
- Conventional propeller
- 2 t bollard pull, perfect for line handling or oil spill recovery

- Spark arrestor
- Console cover
- Communication equipment
- T-top



BOATS AND DAVITS

GOVERNMENTAL AND PROFESSIONAL BOATS

RIGID CONSOLE BOATS



PB 600 A SWJ



PB 700 A SWJ



PB 850 A TID Police



PB 850 A FIFI

RIGID INFLATABLE BOATS



PB 750 G RIB TOB



PB 540 G OB RIB



PB 900 G RIB SWJ

PALFINGER's rigid console and cabin boats are made of high-quality materials, standing out with their excellent stability and maneuverability. Their state-of-the-art design complies with the latest technologies and innovations. They are suitable for high speed operations in any marine environment.

PALFINGER's rigid inflatable boats are specifically designed for fast interventions in rough seas. They offer the highest quality with respect to material and professional workmanship and over-scaled structures ensure ultimate endurance. Depending on the model, three types of engines can be installed.

SERIES / TYPES

PB 600 A SWJ

- Hull and console made out of seawater-resistant aluminum
- Excellent maneuverability and stability
- Inboard diesel and outboard version available
- Complies with latest IMO/SOLAS regulations, LSA Code as well as USCG regulation

PB 850 A TWJ

- Custom-built solutions for multirole missions
- High maneuverability due to twin waterjet propulsion
- Protective fender to deaden hard side impacts
- Excellent reachability of the engines for maintenance purposes
- Complies with latest IMO/SOLAS regulations, LSA Code as well as USCG regulation

PB 700 A SERIES

- Aluminum hull guarantees a long lifetime and low maintenance
- Single inboard diesel water-jet and/or twin inboard diesel water-jet
- Self-righting capabilities
- Complies with latest IMO/SOLAS regulations, LSA Code as well as USCG regulation

OPTIONS

- Integrated diving door / mechanically operated monitor
- Different type of seats
- Defense systems
- Armor
- Communication equipment
- Spare parts

SERIES / TYPES

PB 540 G OB RIB

- Excellent reachability of the engine for maintenance
- Hull made of GRP / inflatable tubes or foam filled tubes
- Single inboard diesel, coupled to a waterjet
- Single point lifting hook or 4-point lifting sling
- For SAR or patrol purposes

PB 900 G RIB SWJ

- Mechanical attached inflatable or foam filled fender
- Made of GRP or aluminum / in- or outboard propulsion
- Suitable for SAR, patrol and interception duties

OPTIONS

- Boat heater
- Emergency spring starter
- Engine heater
- Hydraulic starter

PB 750 G RIB TOB

- Inflatable or foam filled fender / for stern entry recovery
- Several options of seating arrangements
- Made of GRP or aluminum / in- or outboard propulsion
- For SAR, patrol or interception purposes

- Spark arrestor
- Console cover
- Communication equipment
- T-top

DAVITS

(FAST) RESCUE BOAT DAVITS



The PALFINGER hydraulic pivoting A-frame davits have been designed for long time operations under adverse and extreme conditions in a highly corrosive marine environment. The pivot davit is a freestanding deck mounted system consisting of a base frame, davit arm, cylinders, winch and hydraulic power pack unit. The system enables safe and efficient launch and recovery of a fully manned rescue boat and meets the latest IMO/SOLAS requirements and LSA Code.

SERIES / TYPES

PRHE SERIES

- Delivered as a "plug and play" unit, ready for immediate use
- Hydraulic pivoting and electric hoisting
- Self-contained stainless steel HPU system, all critical components are fully submerged in hydraulic oil
- Stainless steel for all shafts, piping and bolts and nuts up to M12
- Remote-control push-button box, for hoisting and emergency stop
- Foldable davit arm for easy transportation
- Optional light weight version and boat fender kits available

NPDS SERIES

- Innovative totally enclosed davit system: all components mounted inside the davit structure and protected from all weather conditions
- Fitted with several inspection/maintenance hatches for easy access to all equipment built inside
- Delivered as a "plug and play" unit, ready for immediate use
- Pad-eyes for lifting which makes it beneficial for mounting on board
- Standard configuration, or high speed (constant tensioning) configuration available
- Optional Ro-Ro certificate

NTDS SERIES

- Compact roof mounted telescopic davit
- Totally enclosed davit system, components protected from all weather conditions
- Fitted with several inspection/maintenance hatches for easy access to all equipment built inside
- Easy to install / space-saving option
- Delivered as a "plug and play" unit, ready for immediate use

OPTIONS

- Constant tensioning system*
- Shock absorber
- Boat supports
- Ex-proof*
- Heating system
- Winterization package
- *if applicable

SERIES / TYPES

SCH-R SERIES

- Slewing davit for rescue boats up to 5.25 m (L.O.A.)
- Multiple safe working load configurations, suitable to handle most of the rescue boat models on the market
- Standard and proven design
- Easy to install (plug and play)
- Provided with self-contained stainless steel HPU
- Easy accessibility to main components for maintenance and inspection
- Quick delivery of spare parts (available at multiple locations worldwide)

SCM-R SERIES

- Manual slewing davit for rescue boats handling
- Suitable to handle rescue boats up to 1,000 kg fully loaded
- Proven design and competitive price
- Easy accessibility to main components for maintenance and inspection
- Easy and time-saving installation

PFHS 15

- Delivered as a "plug and play" unit, ready for immediate use
- Hydraulic pivoting and electric hoisting
- Self-contained stainless steel HPU system, all critical components are fully submerged in hydraulic oil
- Stainless steel for all shafts, piping and bolts and nuts up to M12
- Remote-control push-button box, for hoisting and emergency stop
- Foldable davit arm for easy transportation

OPTIONS

- Shock absorber
- Boat supports
- Converter
- Ex-proof
- Heating system
- Other options available on request



BOATS AND DAVITS

DAVITS

LIFE RAFT DAVITS

DAUGHTER CRAFT AND WORKBOAT DAVITS



PALFINGER's life raft davits are designed for long-term operations under extreme conditions in a highly corrosive marine environment. The systems enable safe and efficient launching of the largest fully manned davit launchable life rafts. Since the SWL and outreach are usually determined by the size of the life raft, PALFINGER offers a range of standard designs that are adaptable to some extent in order to meet individual and specific needs.

Increased in operational efficiency, PALFINGER's workboat / daughter craft davit series are designed for daily operations. Dedicated constant tensioning and shock absorbers allow the davits to launch and recover daughter crafts and workboats under extreme weather conditions, meeting the stringent navy and coast guard requirements.

SERIES / TYPES

SCM-L SERIES

- _____ Slew davit for life rafts up to 39 people
- _____ Plug and play system ready for immediate use
- _____ Easy to operate
- _____ Easy to install
- _____ Standardized and proven design
- _____ Different arm outreaches available
- _____ Low cost of ownership
- _____ Quick Return Unit for launching multiple rafts

PBR 33

- _____ Pivoting davit for life rafts up to 39 people
- _____ Plug and play system with compact footprint for limited installation areas
- _____ Fail safe and easy to operate
- _____ Easy to install, with relatively low davit weight and low deck forces
- _____ Standardized and proven design
- _____ Compact footprint, perfect for limited deck space
- _____ Low cost of ownership
- _____ Quick Return Unit for launching multiple rafts

OPTIONS

- _____ Shock absorber
- _____ Supports
- _____ Converter
- _____ Ex-proof
- _____ Heating system
- _____ Other options available on request

SERIES / TYPES

PRH-AP SERIES

- _____ Hydraulic pivoting A-frame davit with anti-pendulum docking head (AP)
- _____ Winch equipped with fully hydraulic constant tensioning system
- _____ Hydraulically operated anti-pendulum docking head
- _____ Proportional controlled davit, for easy and safe maneuverability

PFH-CT SERIES

- _____ Hydraulic pivoting dual point davit
- _____ Two independently operated constant tensioning winches
- _____ Hydro-pneumatic shock absorber
- _____ Stainless steel operating console

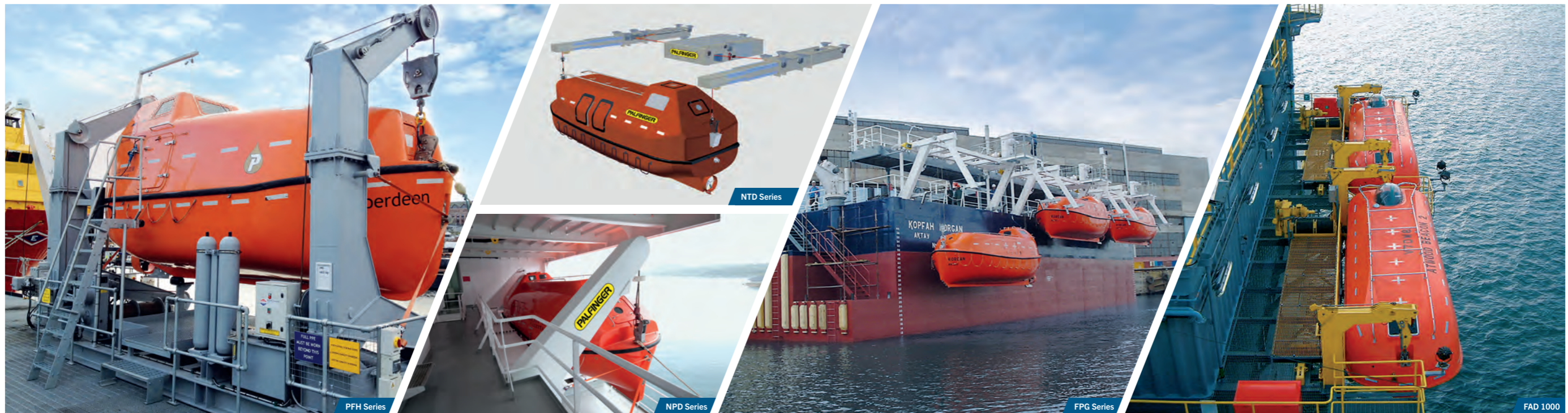
OPTIONS

- _____ Ex-proof
- _____ Heating system
- _____ Other options available on request



DAVITS

LIFEBOAT AND TENDER BOAT DAVITS



PALFINGER's lifeboat davits are suitable for any type of lifeboat and rescue boat with a full complement of people and equipment. These davits can be supplied in modular sections or as one completely assembled unit, depending on the available deck space. Since its SWL and outreach are usually determined by the size of the lifeboat, PALFINGER offers a range of standard designs that are adaptable to some extent in order to meet individual and specific needs.

SERIES / TYPES

PFH SERIES
 Hydraulic pivoting davit provided with self-contained HPU
 Ideal for situations where height restrictions apply
 Modular built system, easy to install
 Foldable davit arms for easy transportation
 Main components installed on the davit foundation frames

NTD SERIES
 Telescopic roof mounted totally enclosed davit
 Hydraulic hoisting
 Easy to install
 All components protected from wear and tear

NPD SERIES
 Hydraulic pivoting and hydraulic hoisting/lowering
 Easy to install (plug and play)
 Fitted with several inspection/maintenance hatches for easy access to all equipment built inside
 Totally enclosed davit system, components protected from all weather conditions

OPTIONS (PFH SERIES)

Converter
 Life-/rescue execution*
 Ex-proof
 Skid mounted
 Other options available on request

OPTIONS (NPD / NTD SERIES)

Ex-proof
 Heating system
 Other options available on request

*if applicable

SERIES / TYPES

FPG SERIES
 Fixed outrigger platform davit for lifeboats
 Solid and proven design
 Easy to operate
 For life- and/or rescue boat handling

FAD 1000
 Independent integrated hydraulic system
 Gravity lowering/electrical hoisting
 Light weight, with adjustable hook distance
 Easy to install and maintain

NRDS SERIES
 Easy to install (plug and play)
 Totally enclosed system
 All components protected from wear and tear
 Innovative design and hydraulic hoisting/lowering

OPTIONS

Ex-proof
 Heating system
 Other options available on request

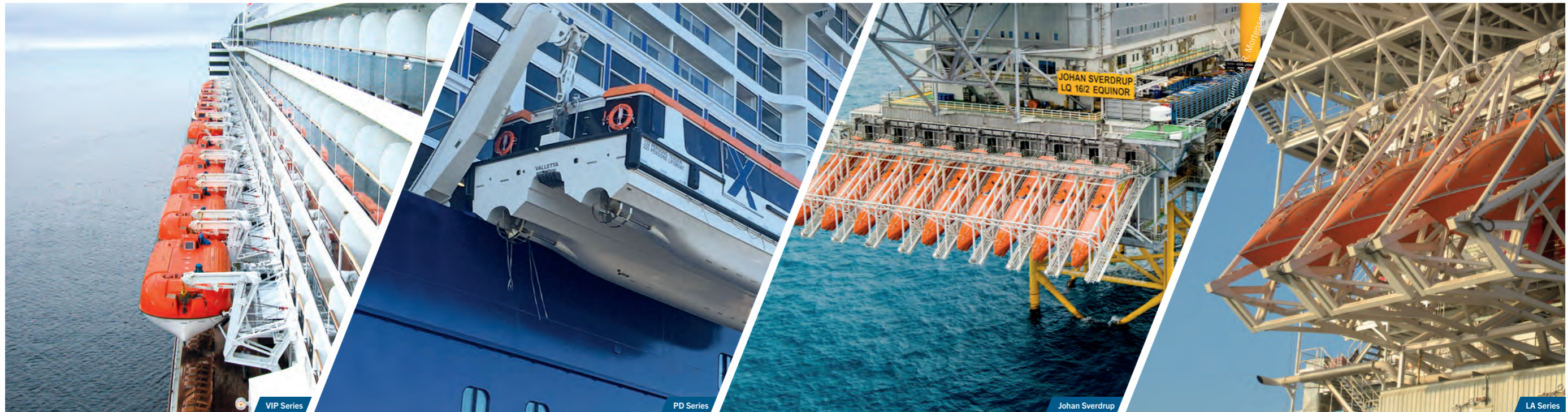


BOATS AND DAVITS

DAVITS

LIFEBOAT AND TENDER BOAT DAVITS

FREE-FALL LIFEBOAT DAVITS



PALFINGER offers a range of innovative, compact and well-designed davits for the cruise market which maximize the available deck space on board while at the same time offering an extremely efficient installation process and minimal lifetime maintenance.

PALFINGER's free-fall lifeboat davits are designed for long time operations under extreme circumstances in a highly corrosive marine environment. They are suitable for safe and efficient launching of a fully manned free-fall lifeboat against unfavorable conditions of trim of up to 10 degrees and a list of up to 20 degrees either way.

SERIES / TYPES

VIP SERIES

- Gravity based davits
- Different winches configurations available
- Low cost of ownership
- Easy to operate
- Complies with SOLAS, MED and USCG requirements

PD SERIES

- Innovative design
- Semi-gravity based, hydraulic assisted
- Easy to install (plug and play)
- A good solution if limited space

OPTIONS

- Converter
- Painter line boom
- Heating system
- Other options available on request

SERIES / TYPES

LA SERIES

- Complies to IMO / SOLAS regulations
- Safe working load from 50 kN to 313 kN
- Corrosion resistant
- Designed according to NORSOK standard

OPTIONS

- Ex-Proof
- Other options available on request



FENDERS

FENDERS

FENDER DAVITS



PALFINGER offers a competitive package of fenders and fender davits. The fenders are designed for heavy duty marine and offshore use and protect ships and quays from the forces involved when mooring.

PALFINGER's fender davits save time in preparing the vessel for ship-to-ship operations. They have an integrated control station, reduce operating time and costs and create a safer working environment for the crew. In short, the unique davit design is the best solution for the safe, efficient and cost-efficient handling of fenders.

SERIES / TYPES

PNEUMATIC FENDERS – NPF SERIES

- Fully ISO 17357:2014-1 compliant
- Chain & tire net type / sling type
- Stock worldwide: Busan, Singapore, Dubai, Rotterdam, Haugesund
- Global service network

FIXED FENDERS – SYSTEM FENDERS

- Rubber profiles for ships and quays
- System fenders for ports
- Wide range of sizes, configurations, applications

OPTIONS (PNEUMATIC FENDERS)

- High-protection netting with aircraft tires
- Complete STS mooring package – ropes, wires and hardware
- Two-year operational spare part package
- Class certification (ABS)
- Service agreement including safety valve testing and re-certification

FOAM FILLED FENDERS – NFF SERIES

- First class quality – closed cells with no absorption
- From 30 kg/m3 to 140 kg/m3 density
- Non marking
- Chain & tire net optional

SERIES / TYPES

NFD SERIES

- Totally enclosed plug & play system
- Easy to install and operate (remote control)
- Safe and efficient handling of heavy-duty fenders
- Reduced maintenance costs

SCM-F SERIES

- Slewing davit for smaller sized fenders
- Easy to install
- High reliability
- Easy to operate

OPTIONS

- Paint system for marine environment
- Ex-proof
- Skin mounted
- Other options available on request
- Local control on each reel

SFD SERIES

- Slewing davit for bigger sized fenders
- Provided with self-contained HPU
- Solid and proven design
- High reliability

SERVICE

GLOBAL PRESENCE | SERVICE HEADQUARTERS |
SERVICE PORTFOLIO



With more than 25 service stations worldwide, PALFINGER has direct access to most of the key ports in the world.



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If you are looking for another PALFINGER service hub near your location, check out our full global service network: www.palfingermarine.com/en/service/service-network



GLOBAL PARTNERSHIPS



PALFINGER has acquired and built up an impressive portfolio and counts more than 25 fully owned service stations and many reliable service partners who ensure fast on-site support around the globe. The whole service portfolio is compliant with all necessary rules and regulations relevant to the respective segments. PALFINGER is authorized by many Flag administrations, all major IACS Class societies and many other OEMs as an Authorized Service Provider in compliance with MSC.402(96). Specially trained and multi-brand-oriented engineers and experts with extensive expertise offer service to all 25+ brands owned by PALFINGER:

PALFINGER NEPTUNE	Georg Eide Sønner AS
Harding	MASECO
Norwegian Deck Machinery (NDM)	Edgewater Machine & Fabricators Inc
Bergen Group Dreggen	Watercraft America
Ned-Deck Marine	William Mills Marine
Fast RSQ	Schat Davits Ltd
Watercraft	Schat-Davit Company
Viking Marine	Schat Watercraft Group
Waterman	Harding AS
Noreq	Mulder & Rijke
NoreqFender	Beiyang Boatbuilding Co.
NoreqActa	Schat-Harding
Fiskars	Acta
Bjorke Batbyggeri	Davit Systems Holland (DSH)
Davit-Company	SEC
LAR	and many more

SERVICE PORTFOLIO



REFURBISHMENT AND UPGRADES

- Modifications and modernizations
- Refurbishment on-site or in the workshop
- GRP repair and re-painting
- Lifetime extensions
- SWL upgrades
- Davit conversions



SPARE PARTS AND REPAIR

- Global coverage
- Spare parts kits
- 20 years spare parts guarantee / availability
- Hook exchange
- Spare parts for PALFINGER and OEM equipment



INSPECTION AND MAINTENANCE

- Yearly and 5-yearly inspections
- Multi-brand service
- Preventive maintenance
- Pre-inspection
- Load testing



HOOK REPLACEMENT

- Hook replacement programs
- Compliance with the latest IMO regulations
- Minimum impact on daily operations



AGREEMENTS

- Global coverage
- Customized fleet (service) agreements including training, spare part kits, fixed prices, annual and 5-yearly inspections
- Multi-brand service



TRAINING

- Global coverage
- Operator and maintenance training
- In-house and on-site training
- DNV-GL certified training centers
- Hands-on coaching
- Customized training sessions
- Compliant with general requirements of ISO/PAS 23678



INDUSTRIAL SERVICES

- Blasting and painting
- Mechanical and electrical installation
- Non-destructive testing & inspection (NDT)
- Multi-disciplined rope access services
- Ultra high pressure (UHP) jetting

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