

MARINE SOLUTIONS

LIFTING THE OIL AND GAS INDUSTRY

LIFETIME EXCELLENCE



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.

SOLUTIONS FOR OIL AND GAS APPLICATIONS

PALFINGER supplies equipment for all types of fixed and floating installations related to the extraction of oil and gas at sea. All equipment is delivered according to requirements from class societies, national and international regulations and standards like NORSOK, SOLAS, USCG, ISO EN 13852, API 2C, IEC Ex, the ATEX directive, and NEC in addition to customers' own company standards. If third-party certification is needed, PALFINGER takes care of the total process of calculations, verification, testing and documentation.

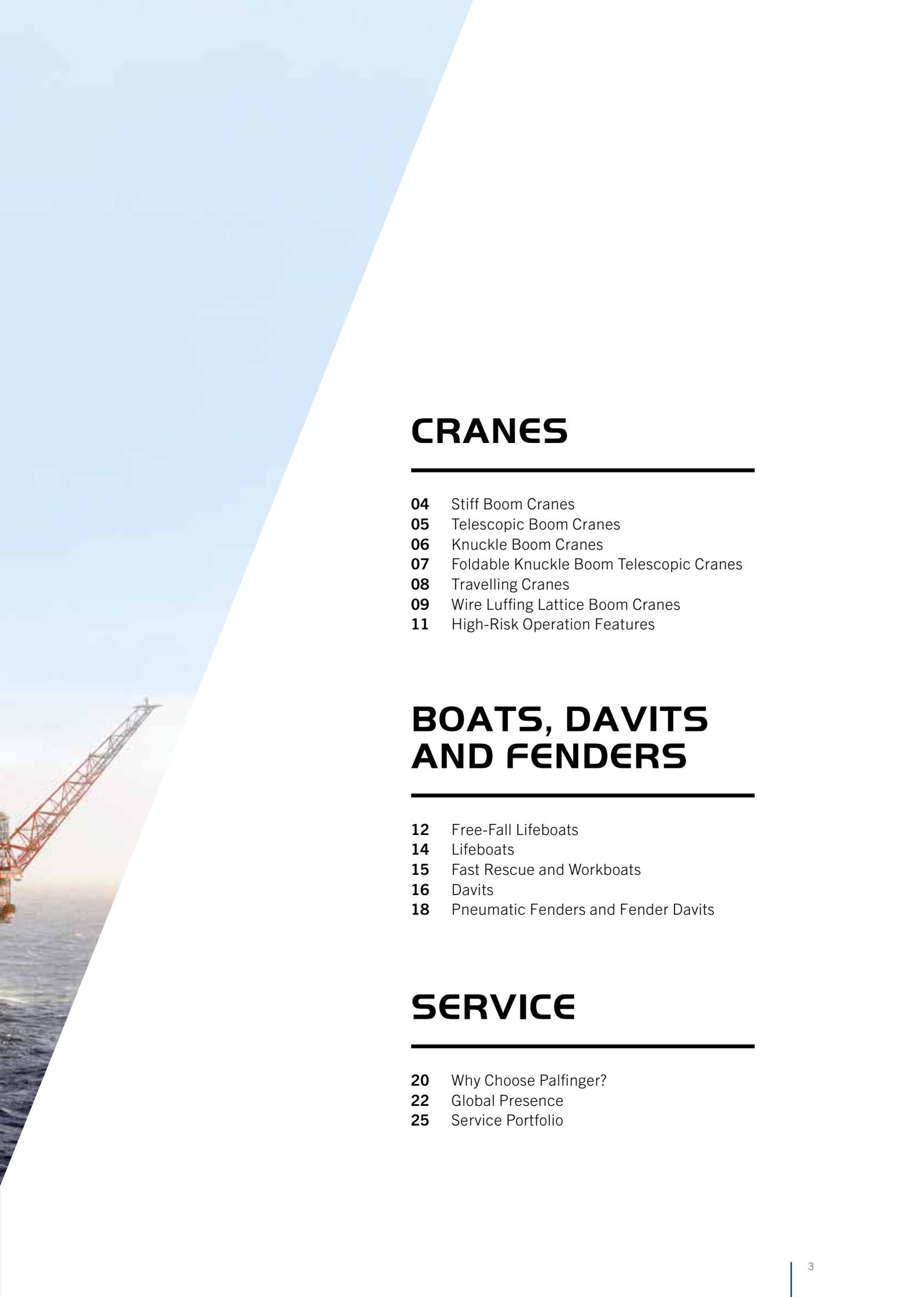
REFERENCE PROJECTS

- Gina Krogh
- Ivar Aasen
- Johan Castberg FPSO
- Johan Sverdrup
- Martin Linge
- Valhall

TYPICAL APPLICATIONS

- Fixed platforms
- Semi-submersible rigs
- Drill ships
- Jack-ups
- Floating production storage and offloading unit (FPSO)





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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. In the oil and gas industry, stiff boom cranes are typically used on fixed installations.

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
- Electro hydraulic drive
- Continuous slewing
- Low/high-temperature operations
- Anti-collision system

OPTIONS

- Constant tensioning
- Remote control / operator's cabin
- Overload protection: MOPS, AOPS
- Lifting of personnel – man-riding
- External hydraulic power packs
- Active Heave Compensation (AHC)
- ATEX Zone 1 and 2 execution
- Tugger winches

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
Electro hydraulic drive
Continuous slewing
Low/high-temperature operations
Anti-collision system

OPTIONS

Constant tensioning
Remote control / operator's cabin
Overload protection: MOPS, AOPS
Lifting of personnel – man-riding
External hydraulic power packs
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
- Electro hydraulic drive
- Continuous slewing
- Low/high-temperature operations
- Anti-collision system

OPTIONS

- Constant tensioning
- Remote control / operator's cabin
- Overload protection: MOPS, AOPS
- Lifting of personnel – man-riding
- External hydraulic power packs
- Active Heave Compensation (AHC)
- ATEX Zone 1 and 2 execution
- Tugger winches

FOLDABLE KNUCKLE BOOM TELESCOPIC CRANES



PALFINGER offers a wide range of foldable knuckle boom telescopic models, which can be configured to suite demanding offshore applications as well as relevant rules and regulations. They are typically used as service- or provision cranes and man basket (or access basket) cranes installed in derrick-, moon pool or other drilling areas.

FEATURES

- _____ Lifting capacity up to 32 metric tons
- _____ Outreach up to 22 meters
- _____ Surface treatment / corrosion protection according to offshore standards
- _____ Rack & pinion single and double slewing cylinders as well as continuous slewing system
- _____ Power link system

OPTIONS

- _____ Constant tension winches
- _____ Radio and cable remote control
- _____ Standing operator platform
- _____ Operator cabin
- _____ Overload protection: MOPS, AOPS
- _____ Lifting of personnel – man-riding
- _____ Workman basket
- _____ Mounting pedestal integrated and external hydraulic power pack
- _____ ATEX Zone 1 and 2 execution
- _____ Central greasing system
- _____ Special skid base for temporary installations

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 of 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 tailor-made according to project-specific requirements.

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
- Offshore Control System (OCS)
- External hydraulic power packs
- Anti-collision system

WIRE LUFFING LATTICE BOOM CRANES



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.

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

CRANES

WIRE LUFFING LATTICE BOOM CRANES – FULLY ELECTRIC



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 cut down on total lifetime costs.

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 a significant wave height up to 6 m
- Optimized load charts to ensure flexibility in operation
- Designed for easy maintenance
- Access to all areas of the crane
- Remote access to crane for quick support and fault detection
- Off-the-shelf components to ensure easy maintenance and quick supply of spare parts

ADVANTAGES

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

HIGH-RISK OPERATION FEATURES



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.

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.

LIFEBOATS AND RESCUE BOATS

FREE-FALL LIFEBOATS | FF1200



PALFINGER's FF1200 free-fall lifeboat is designed, tested and approved in accordance with the latest regulations of the Norwegian Continental Shelf (DNVGL-ST-E406), superseding SOLAS/LSA. The design has incorporated more than 30 years of experience from free-fall production and provides a swift and safe evacuation in harsh weather conditions. Typical applications include platforms of any type, drill ships, FPSOs, car carriers, any large complement ship and many more.

FEATURES

Designed and approved according to DNVGL-ST-E406/
NORSOK R-002 & SOLAS standards

Capacity for 70 people based on an average weight of 100 kg
per person

Free-fall height: 46 meters

Superior space and comfort for people with an average size
from 1.4 m to 2.1 m and weight from 50 kg to 150 kg

Seats with 5-point seat belts for safety and comfort

Twin steering position

Designed for free fall into waves – verification of project-
specific weather data by CFD simulations

Structural design for maximum strength and safety and
minimum deflection

Unique combination of excellent positive headway and low
g-forces

High-power engine (280 hp), high speed and high bollard pull

Winterization package available

FREE-FALL LIFEBOATS | FF1000



PALFINGER's FF1000 is a free-fall system specifically designed for offshore applications and merchant vessels. This free-fall lifeboat is built according to IMO International Life-Saving Appliance (LSA) Code Resolution MSC.48(66) and tested successfully according to IMO Resolution MSC.81(70).

FEATURES

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

OPTIONS

Boat heater
Simulated-release testing kit
Engine heater
Hydraulic starter
SART (Search and Rescue Transponder)
EPIRB (Emergency Position Indication Radio Beacon)

LIFEBOATS AND RESCUE BOATS

LIFEBOATS



PALFINGER's totally enclosed lifeboats are designed and tested in accordance with the latest IMO/SOLAS regulations. All lifeboats are available in two versions: Tanker and Dry Cargo.

FEATURES

- Capacity of 21–150 people
- Compliance with latest SOLAS/LSA regulations
- Compliance with IMO MODU Code
- Typical offshore documentation package available

OPTIONS

- VHF radio
- SART (Search and Rescue Transponder)
- EPIRB (Emergency Position Indicating Radio Beacon)
- Engine heater
- Boat heater
- Winterization/polar package
- Spring starter / hydraulic starter
- Project-specific requirements can be adopted

FAST RESCUE AND WORKBOATS



PALFINGER's fast rescue boats stand out with their excellent maneuverability and stability even in the most demanding sea conditions. They are particularly safe, quick and agile. For oil spill recovery-, hose and line handling- as well as safety standby operations, PALFINGER's workboats are the perfect choice. All boats are designed according to the latest regulations.

FEATURES

- Capacity for 15–20 people
- Compliance with LSA Code, IMO/SOLAS and USCG regulations
- Remote control offload release hook
- Hull and console made of seawater-resistant aluminum
- Excellent maneuverability and stability
- Customization possibilities for specific customer requirements/needs

OPTIONS

- Anti-Pendulum counter foundation
- Increased bollard pull for oil-spill recovery work
- Radar
- VHF radio
- AIS
- Rescue net
- GPS
- EPIRB (Emergency Position Indicating Radio Beacon)
- SART (Search and rescue transponder)
- Spare parts

DAVITS

DAVITS FOR OIL AND GAS APPLICATIONS



PALFINGER davits are innovative, user-friendly and intended for long-term, reliable operation in harsh and hazardous marine and offshore environments. For the oil and gas industry, PALFINGER delivers free-fall, lifeboat, (fast) rescue boat and life raft davits.

TYPES

FREE-FALL DAVITS

- Compliance with IMO / SOLAS regulations
- Selected models designed according to NORSOK standard
- Free-fall launching or hydraulic lowering
- Safe working load from 50 kN to 313 kN

LIFEBOAT DAVITS

- Compliance with LSA Code, IMO / SOLAS and USCG regulations
- Hydraulic pivoting and hydraulic hoisting / gravity lowering and electric hoisting
- Easy to install (plug and play)
- Safe working load from 50 kN to 230 kN





TYPES

(FAST) RESCUE BOAT DAVITS

Compliance with LSA Code, IMO / SOLAS and USCG regulations

Hydraulic or electric hoisting

Easy to install (plug and play)

Safe working load from 15 kN to 60 kN



LIFE RAFT DAVITS

Compliance with LSA Code, IMO / SOLAS and USCG regulations

Easy to install (plug and play)

Easy exchangeability of components

Safe working load from 10 kN to 36 kN



FENDERS

PNEUMATIC FENDERS



PALFINGER offers a competitive package of fenders and fender davits. In the oil and gas industry, PALFINGER's pneumatic fenders are the preferred choice. They are designed for heavy-duty marine and offshore use and protect ships and quays from the forces involved when mooring.

NPF SERIES

Fully compliant with ISO 17357:2014-1

Chain and tyre net type / sling type

Stock worldwide: Busan, Singapore, Dubai, Rotterdam, Haugesund

Global service network

FEATURES AND OPTIONS

High-protection netting with aircraft tyres

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

FENDER DAVITS



PALFINGER's fender davits save time in preparing the vessel for ship-to-ship operations. They 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.

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

FEATURES AND OPTIONS

Increased efficiency and safety
Operating time reduction
Integrated control station
Paint system for marine environment
Ex-proof
Skin-mounted
Other options available on request
Local control on each reel

SERVICE



WHY CHOOSE PALFINGER?

GLOBAL PRESENCE

- PALFINGER Group has 5,000 sales and service locations worldwide
- PALFINGER's marine business has more than 25 service locations of its own
- PALFINGER services 25+ brands

SERVICE ENGINEERS

- Skilled and experienced service engineers certified in compliance with MSC.402(96)
- Constant training on the latest rules and regulations
- Flexible and efficient service solutions
- Training school that provides customer training

SERVICE PORTFOLIO

- One-stop shop offering complete service solutions
- Recently expanded portfolio with a range of industrial services
- Reliable partner for lifetime extensions

SERVICE

GLOBAL PRESENCE

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



SERVICE STATIONS SPECIALIZED IN OIL AND GAS

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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



SERVICE

GLOBAL PRESENCE



PALFINGER has acquired and built up an impressive portfolio and counts more than 25 fully owned service stations and many reliable service partners, ensuring fast on-site support around the globe. The whole service portfolio is compliant with all necessary rules and regulations relevant to the respective segment. PALFINGER has been authorized by many flag administrations and class societies as an ASP 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

Harding

Norwegian Deck Machinery (NDM)

Bergen Group Dreggen

Ned-Deck Marine

Fast RSQ

Watercraft

Viking Marine

Waterman

Noreq

NoreqFender

NoreqActa

Fiskars

Bjorke Batbyggeri

Davit-Company

LAR

Georg Eide Sønner AS

MASECO

Edgewater Machine & Fabricators Inc

Watercraft America

William Mills Marine

Schat Davits Ltd

Schat-Davit Company

Schat Watercraft Group

Harding AS

Mulder & Rijke

Beiyang Boatbuilding Co.

Schat-Harding

Acta

Davit Systems Holland (DSH)

SEC

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 all brands serviced by PALFINGER



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/tailored 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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