

GOVERNMENTAL AND PROFESSIONAL BOATS

Arnoud Straakenbroek HSBO 2021

TOPIC OVERVIEW

PALFINGER

- 1. Palfinger history
- 2. Marine segments
- 3. PALFINGER boats production locations
- 4. Boats segments
- 5. PALFINGER engineering process new design
- 6. Palfinger latest Governmental boats developments
- 7. Questions & Answers

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1. PALFINGER HISTORY

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The international mechanical engineering company PALFINGER is the world's leading provider of innovative crane and lifting solutions.



LIFTING SOLUTIONS FOR EVERY CHALLENGE









TIMBER/RECYCLING



HOOKLIFTS & SKIPLOADERS



TAIL LIFTS



PASSENGER SYSTEMS



ACCESS **PLATFORMS**



MOUNTED **FORKLIFTS**



RAILWAY SYSTEMS



BRIDGE INSPECTION & MAINTENANCE



TURNKEY SOLUTIONS



MARINE **CRANES**



WIND **CRANES**



DAVITS



WINCHES



BOATS

5

GLOBAL PLAYER WITH LOCAL FOOTPRINT



FACTS AND FIGURES



>11,000

WORKFORCE IN 2019

In 2019 the company had 11,126 employees.



>80

MANUFACTURING AND ASSEMBLY, SALES AND SERVICE LOCATIONS

The PALFINGER Group is active in 31 countries and has 36 manufacturing and assembly locations in Europe, the CIS, North and South America and Asia.

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>5,000

SERVICE POINTS

A worldwide sales and service network with more than 5,000 service points in over 130 countries on all continents ensures optimum customer proximity.

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YEARS OF EXPERIENCE

Established in 1932 and headquartered in Bergheim (Austria) the company has for many years been among the leading international manufacturers of hydraulic lifting solutions.

LIFETIME SERVICE AS KEY FOR TCO AND RELIABILITY



GLOBAL NETWORK

High quality of our network through Trainings & Standards.



SERVICE & REPAIR

Maintenance and regular service extend the life of the product and ensure maximum safety.

SPARE PARTS

High availability in original spare parts with high quality standards make the difference for a high product life cycle.



SERVICES & PRODUCTS

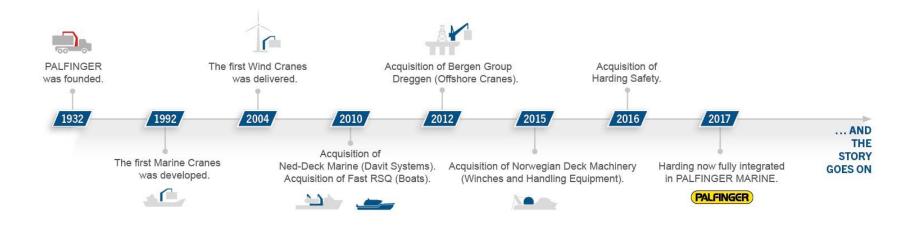
A wide range of specially developed services as well as innovative software and hardware solutions (e.g. PALFINGER Smart Eye) to ensure maximum uptime.



2. MARINE BUSINESS

MILESTONES





SALES AND SERVICE NETWORK



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



SERVING ALL MAJOR MARITIME SEGMENTS















PALFINGER MARINE PRODUCTS

















STERN ENTRY SYSTEMS

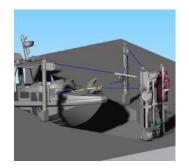
















3. BOAT PRODUCTION PLANTS

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PALFINGER BOATS VIETNAM



- Plot 6,500 m², office and workshop 2,500 m²
- Over 150 employees
- GRP boats production
- From Q2 2016 start producing aluminium boats
- Extension of workshop from 2,500m² to 6,000m² to be realized before Q3 2016







PALFINGER BOATS THE NETHERLANDS



- Plot 2,500 m², office and workshop 2 x 1,100m²
- 80 employees
- 150 boats sold in 2015
- Mainly aluminum boat production up to 15 m
- 1600 m² land purchased to expand in future









4. GOVERNMENTAL AND PROFESSIONAL BOATS SEGMENTS

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SERVING VARIOUS SEGMENTS



Fire-Fighting Police Navy







Coast Guard



Army



Special Forces





5. PALFINGER NEW DESIGN PROCES

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ENGINEERING PROCESS













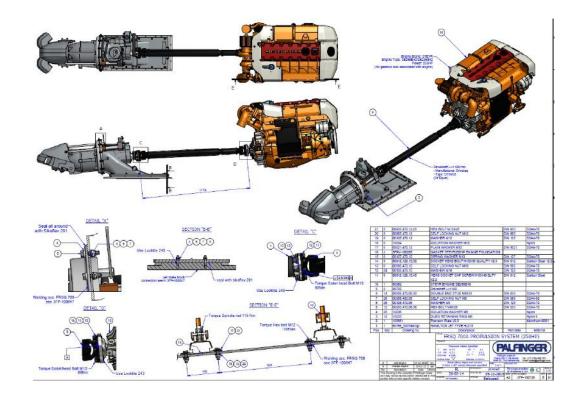


ENGINEERING PROCES





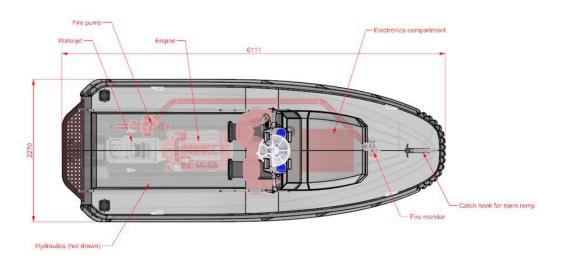




SPECIALIZED BOATS







PB 750 G WATER JET VERSION



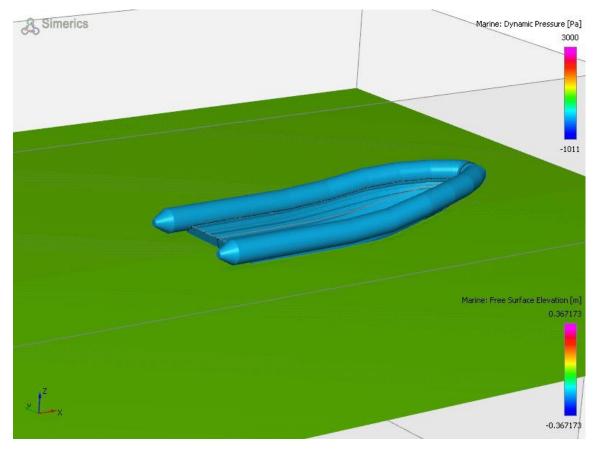




COMPUTATIONAL FLUID DYNAMICS I

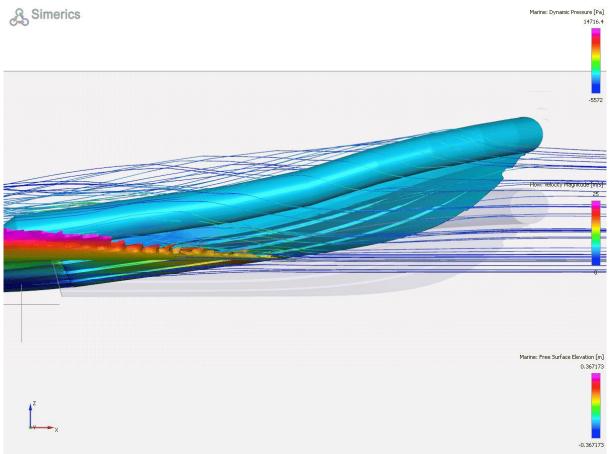


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COMPUTATIONAL FLUID DYNAMICS II





COMPUTATIONAL FLUID DYNAMICS III

(PALFINGER)

- Hydrodynamic resistance prediction
- Aerodynamic prediction
- Dynamic stability assessment spray rail
- Prediction of flow, trim and resistance under water
- Discover potentially costly design errors
- Saves time and costs



6. LATEST GOVERNMENTAL DEVELOPMENTS

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PB 700 G RIB



- 7.0M SAR RIB
- Single inboard diesel water-jet / Stern Drive / Twin Outboard
- 2 pcs. Diving doors
- Speed 30 knots with 3 persons



PB 750 G RIB OUTBOARD / WATER-JET / STERNDRIVE



- PB 750 G RIB SAR
- 7.5M RIB
- Twin outboard or water-jet
- 35 Knots with 4 pers.



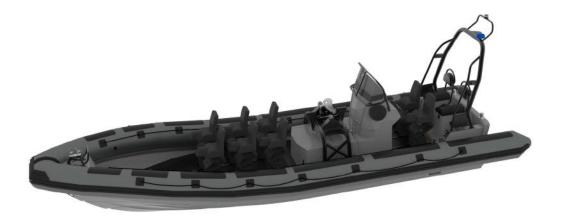




PB 900 G RIB OUTBOARD / WATERJET / STERNDRIVE



- PB 900 G RIB SAR
- 9M RIB
- Single quick release hook with AP head
- 10 persons on mitigation jockey seats
- 40 knots with 10 persons



FRSQ 850 A FIFI TWIN INBOARD DIESEL



- Based on our existing & proven model PB 850 ALU TID DEF 10 pcs. SG Navy
- Twin inboard diesel waterjet
- Speed with 3 pers. 40 knots
- Self-Righting
- FIFI by use of extra PTO & Waterpump on engine & hydraulic pump. Full deck space available and most reliable system
- Emergency situation, 21 persons in the boat (SOLAS), and additional 28 pcs. divided over the 3 life-rafts











FRSQ 850 A FIFI TWIN INBOARD DIESEL - IMPROVEMENTS







PB 850 A LAW ENFORCEMENT



- Twin inboard diesel water-jet
- 8.46M Defence execution
- DNV Drawing Hull approval
- 40 knots with 3 pers.



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PB 850 A TID LAW ENFORCEMENT

PALFINGER
GOVERNMENTAL &
PROFESSIONAL
BOATS

LIFETIME EXCELLENCE

PB 850 A AMBULANCE / PILOT BOAT



8.5M Ambulance multi purpose boat

- Self-Righting
- Twin inboard
- Speed with 3 pers. up to approx. >35Kn





7. QUESTIONS & ANSWERS

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THANK YOU FOR YOUR ATTENTION!

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