

A red fireboat is shown from a rear perspective, moving across a body of water. Three firefighters in yellow gear are visible on the deck. A large plume of white water is being sprayed from a nozzle at the back of the boat. The boat has 'PALFINGER' and 'Ray' branding. The background shows a distant shoreline under a cloudy sky.

**PALFINGER**

# **PALFINGER ACCEPTED THE CHALLENGES TO PROVIDE GOVERNMENTAL SOLUTIONS**

Arnoud Straakenbroek  
Governmental and Professional Boat solutions

DOWNLOADED FROM [PALFINGERMARINE.COM](https://www.palfingermarine.com)



# TOPIC OVERVIEW

**PALFINGER**



**01**

**BOATS SEGMENTS**



**02**

**PALFINGER ENGINEERING  
PROCESS** → new design



**03**

**PALFINGER ACCEPTED  
GOV. CHALLENGES**

- a. Spanish Red Cross
- b. Pilot Boats for Coast Guard
- c. German Rescue Organization
- d. Middle-East Border Guard
- e. Asian Marine Police
- f. Asian Rescue & Fire-Fighting



**04**

**SUMMARY**



**05**

**QUESTIONS**





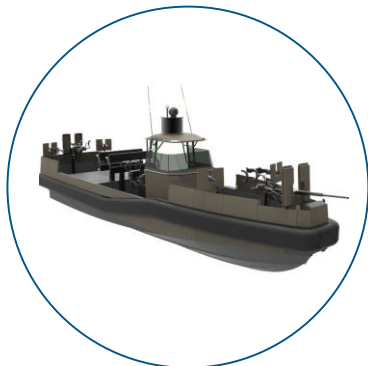
**01**

# BOATS SEGMENTS



# SERVING VARIOUS GOVERNMENTAL SEGMENTS

**PALFINGER**



**ARMY**



**NAVY**



**SPECIAL  
FORCES**



**COAST GUARD**



**POLICE**



**FIRE-FIGHTING**

DOWNLOADED FROM [PALFINGERMARINE.COM](http://PALFINGERMARINE.COM)





**02**

# **PALFINGER ENGINEERING PROCESS**

New design



# PALFINGER IN-HOUSE ENGINEERING PROCESS

**PALFINGER**



**01**

First 3D modeling



**02**

3D modeling  
ready for further  
technical  
discussion



**03**

Wooden mock-up  
of wheelhouse



**04**

System  
integrating  
wooden mock-up  
for final approval



**05**

Boat ready for  
testing: drop test,  
side impact test,  
self-righting test

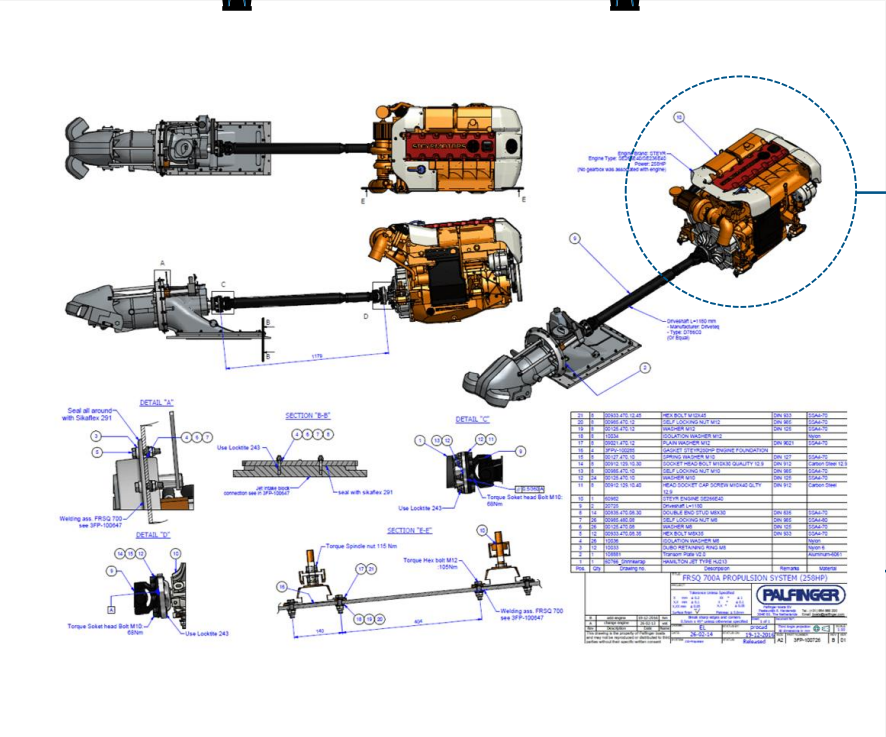


**06**

Factory  
acceptance test  
(FAT) with client &  
handover



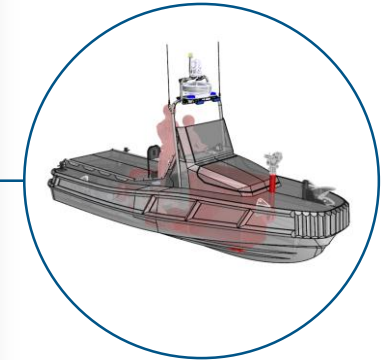
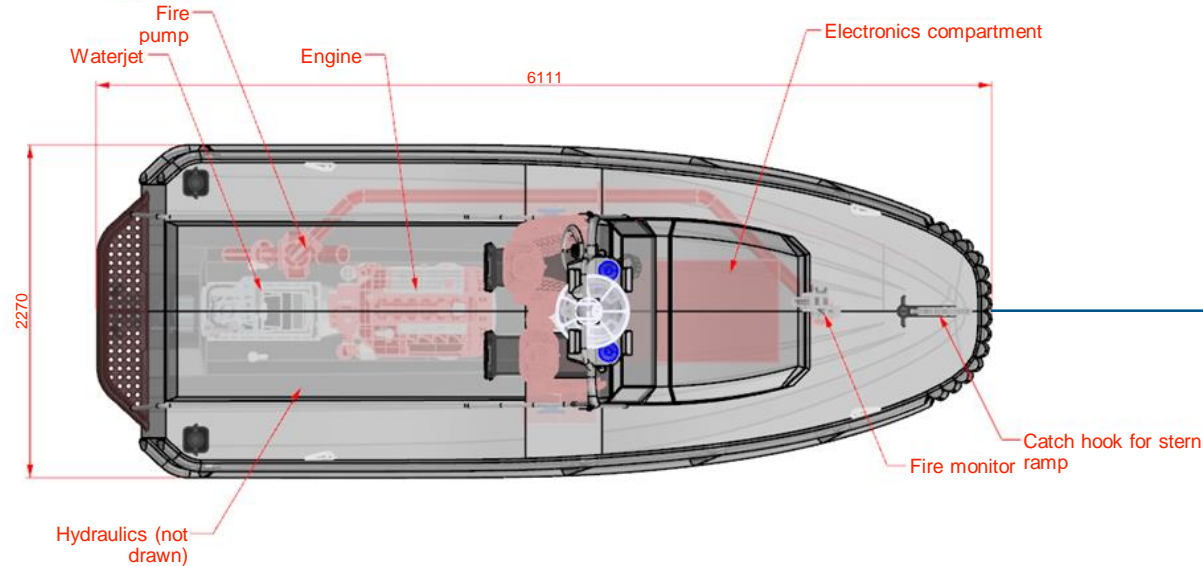
# 3D PROPULSION ENGINEERING PROCESS





# SAFER SOLUTIONS FOR THE FUTURE – PALFINGER UNMANNED BOATS

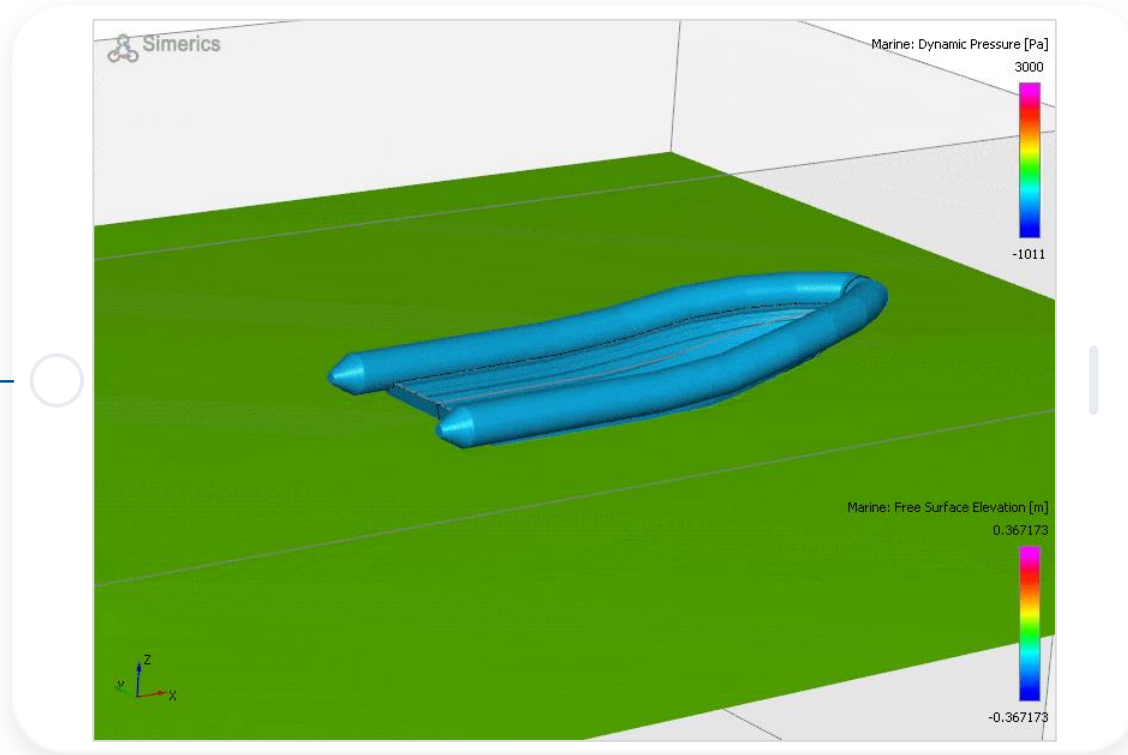
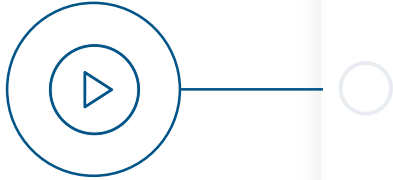
**PALFINGER**





# COMPUTATIONAL FLUID DYNAMICS – HULL SIMULATION PROGRAM

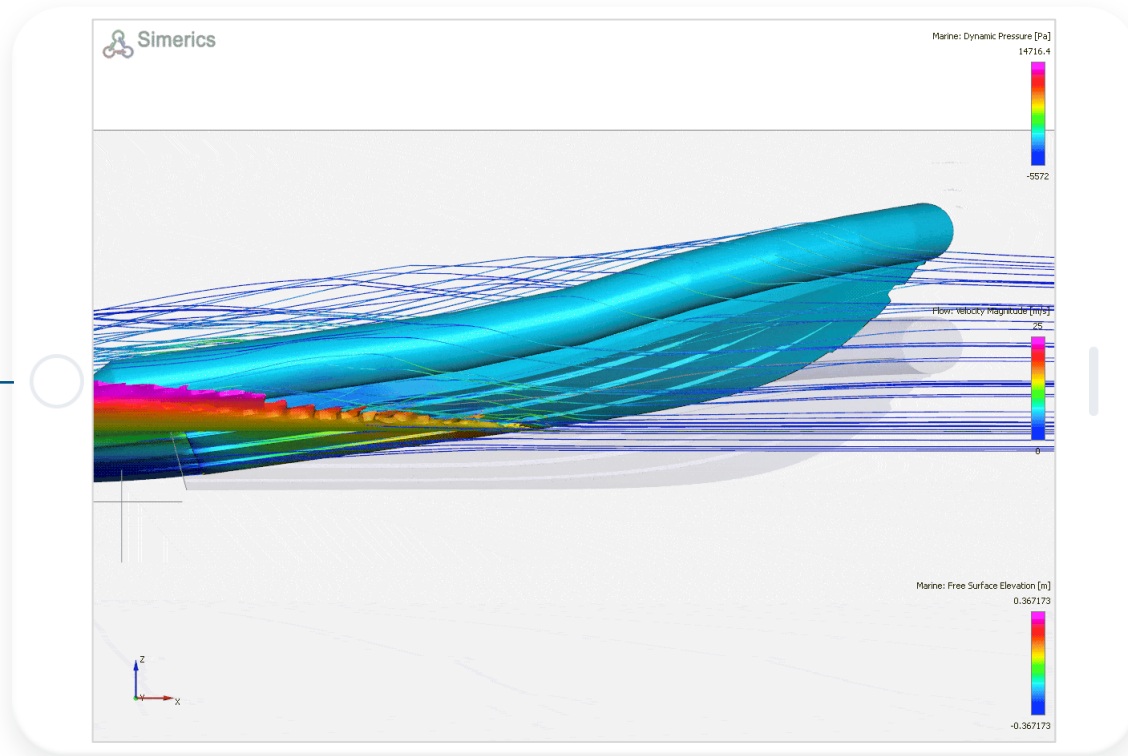
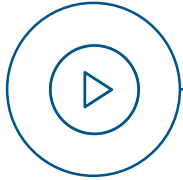
**PALFINGER**





# COMPUTATIONAL FLUID DYNAMICS – MEASURING RESISTANCE UNDER WATER

**PALFINGER**





# OPTIMIZATION OF HULL PERFORMANCE WITH COMPUTATIONAL FLUID DYNAMICS

**PALFINGER**



**01**

Hydrodynamic **resistance prediction**



**02**

Aerodynamic **prediction**



**03**

Dynamic stability **assessment** – spray rail



**04**

Prediction of **flow, trim and resistance under water**



**05**

Discover **potentially costly design errors**



**06**

**Saves** time and costs





**03**

# **PALFINGER ACCEPTED GOV. CHALLENGES**






Governmental & Professional Boat solutions



# DEVELOPED WITH SPANISH RED CROSS



## RIB BOATS INFO

				
PB 750 G RIB SAR	7.5 M RIB	35 knots	4	Twin outboard or water-jet










# DEVELOPMENT OF A PILOT BOAT FOR ASIAN COAST GUARD



## CABIN BOATS

### INFO

				
FRSQ 850 A DC	8.5 M RIB	up to approx. >30 knots	3	multi purpose boat – self-righting SOLAS CERTIFIED Twin inboard










# DELIVERED TO GERMAN RESCUE ORGANIZATION



## CABIN BOATS INFO

				
PB 850 A	8.5 M RIB	up to approx. >35 knots	3	multi – purpose boat Self-righting Twin inboard










# DEVELOPED WITH MIDDLE-EAST BORDER GUARD



## RIGID CONSOLE BOATS

### INFO

				
PB 750 G - SAR	8.2 M SAR	35 knots	3	Single Inboard Diesel water-jet / Twin outboard










# ASIAN MARINE POLICE BOATS UNDER CONSTRUCTION



## RIGID CONSOLE BOATS

### INFO

				
PB 850 A DEFENCE	8.46 M*	40 knots	3	DNV Drawing Hull approval Twin inboard diesel water-jet

\*Defence execution










# DELIVERED BOATS TO ASIAN RESCUE & FIRE-FIGHTING ORGANIZATIONS

PALFINGER

## FIFI and SAR boats

### INFO

				
FRSQ 850 A FIFI	—	40 knots with 3 persons	21 + 28 Pcs.	Twin inboard diesel waterjet Self-Righting FIFI system with monitor 1800 l/pm







**04**

# SUMMARY



# SUMMARY

**PALFINGER**

- 01 PALFINGER quality boats**, off the shelf or custom built
- 02 Boats can be tested at our facility in the Netherlands**
- 03 Boats can be offered with a training program**
- 04 Communication & Navigation system** integration
- 05 Ballistic protection**
- 06 Weapon mounts**
- 07 Engines & propulsion** per requirements
- 08 Worldwide service** organization for aftersales with local people







**05**

**Q & A**



# CONTACT



## ARNOUD STRAAKENBROEK

Global Sales Director Governmental & Professional

Phone +31 611 986 710

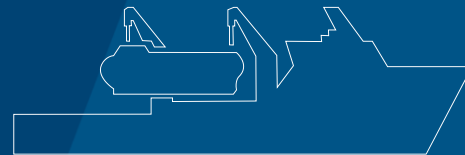
Email [a.straakenbroek@palfinger.com](mailto:a.straakenbroek@palfinger.com)

**PALFINGER**

## PALFINGER MARINE NETHERLANDS B.V.

Pasteurdijk 8 • 3846 BS Harderwijk •  
The Netherlands

[www.palfingermarine.com](http://www.palfingermarine.com)





**THANK YOU FOR  
YOUR ATTENTION!**