



# ENGINEERING SERVICES

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Your one stop Engineering Solution provider

Retrofit Services

Replacement

Reverse Engineering

Genuine Spares parts

Service & Overhaul



# RETROFIT SERVICES

## Guaranteed fitment, Enhanced Efficiency & Optimum Performance

FPX offers retrofit and modernization of large engineered pumps for various applications. We deliver performance upgrades, re-rates, efficiency improvements backed by CFD-based design optimization. With track record of numerous one-to-one retrofit of critical pumps and fluid systems in the European markets, we provide solutions that extend product life, boost reliability, maximize value and lifetime availability of spare parts & services.



Retrofitting and Upgrading a 50 years old Axial Flow, Vertical Turbine Pump in the UK for sea water application. Scope of supply: Pump assembly to fit with existing discharge head.

## Key Features of Retrofitting

- » Precise adjustments to Current products, Discontinued product lines.
- » Brand agnostic
- » Advanced and Suitable materials for enhanced life
- » Possible Protective coatings to ensure the durability of pump components under tough operating conditions as well as economical optimization.
- » Mechanical enhancements that is designed to improve performance, reduce vibrations and noise.
- » CFD techniques to test the pump under various simulated conditions.
- » Technical support throughout the installation and commissioning process to ensure a smooth transition.

# REPLACEMENT OF STANDARD OR ENGINEERED PUMPS

## Engineered for Compatibility, Built for Reliability

- » One-to-One replacement, Zero Hassle
- » Direct replacements for standard or engineered pumps.
- » Perfect fit with your existing footprint & flanges.
- » No costly modifications or downtime.
- » Vertical turbine replacements program is designed to match foundations, sump openings, submergence levels, and existing motors.
- » FPX makes replacement simple, fast, and cost-effective.



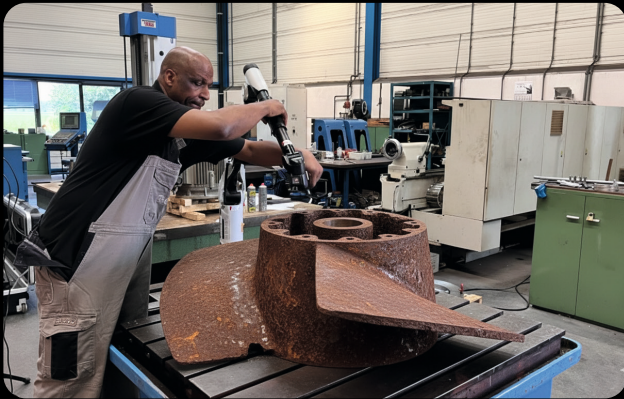
Old existing competitor pump replaced on the existing foundation without any modification and using the existing motor.

Application: Sea water.

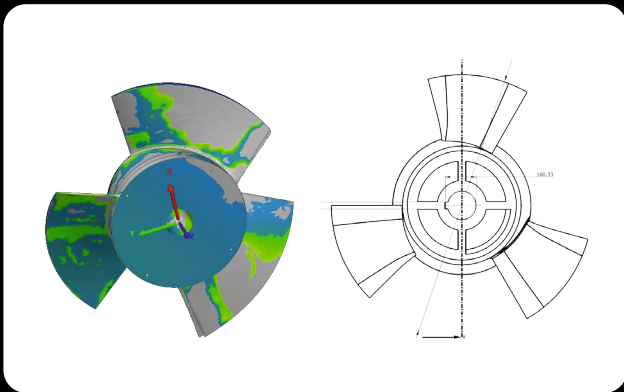
Location: Chemical Plant in Netherlands.

# REVERSE ENGINEERING

**Obsolete Products & spares parts, not a problem anymore**



3D Scanning of the components



Hydraulic design & 3D Modelling



Melting & pouring of castings

- » FPX's re-engineering services give you a reliable alternative for sourcing pump parts and components. Whether you need upgraded designs, faster delivery, or critical replacements, our solutions keep your equipment operating at peak efficiency — while aligning with your business goals.
- » Quick delivery to keep your pumps running.
- » Guaranteed spare parts availability for pump lifetime.
- » Higher efficiency hydraulics to cut CO<sub>2</sub> and costs.
- » Fully compliant with today's machinery standards.



Manufacturing and assembly

# GENUINE SPARE PARTS

## Perfect Fit. Fast Track spares management program



- » Ensure maximum performance and reliability with original FPX spare parts. Precision-machined to the correct tolerances, our parts guarantee a perfect fit the first time, every time.
- » Through continuous improvement, we often enhance features to boost efficiency, extend equipment life, and reduce maintenance costs. Investing in genuine components is not only reliable, but also the most cost-effective way to minimize total cost of ownership and maximize your return on investment.
- » Fast Track Program: To make maintenance easier, we also offer spare parts kits that include all essential consumables—such as O-rings, gaskets, and oil seals—ensuring you have everything you need in one package. All parts are supported by our warranty and maintenance plans, giving you confidence and peace of mind.
- » Reliability and safety: FPX spare parts are specifically designed and engineered to fit your equipment.



Save time and eliminate ordering errors! Our **Spare Parts Kit** includes everything you need — **gaskets, oil seals, O-rings, bearings, mechanical seals, and bushes** — in one easy-to-order package. **One kit. One order. Total convenience.**

# SERVICE & OVERHAUL

## Expect Your Machine to Perform at Its Best

- » Maintenance & Support services
- » Pump repair & Overhaul
- » Diagnostic & Consultancy Services



### Comprehensive Support

New installations, replacements, and high-quality maintenance or repair services delivered to global standards — fast and efficient, anywhere in the world.



### Process Expertise

Extensive application knowledge ensures the best solutions to optimize performance and reliability.



### Rapid Response

Dependable support whenever you need it, minimizing downtime.



### Spare Parts Availability

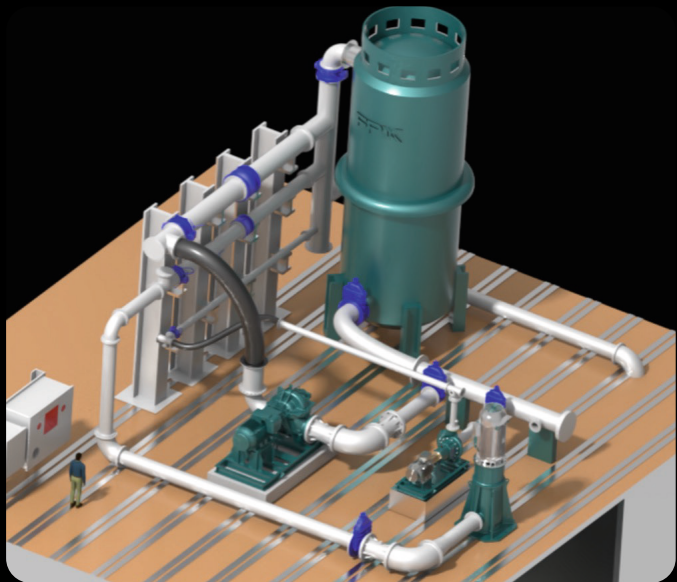
High availability of genuine spare parts for all product types to keep your systems running at peak performance.



# PUMP PERFORMANCE TEST BED

## Accuracy, compliance, and confidence—every test, every pump

We offer state-of-the-art hydraulic pump testing facilities designed to validate performance, reliability, and compliance across a wide range of pump types. Our fully engineered test beds support accurate & reliable testing in accordance with ISO 9906, ensuring confidence from prototype validation to final acceptance testing. We offer Closed-loop pump test bed for high-precision NPSHR testing



## Pump Types Supported

Vertical Turbine Pumps



Split Case Pumps



End Suction Pumps



Submersible Pumps



Vertical Sump Pumps



Vertical In-Line Pumps



## Test Facility Highlights

MAXIMUM FLOW RATE

up to 10,000 m<sup>3</sup>/h

MAXIMUM TEST PRESSURE

up to 250 bar

FULLY ENGINEERED HYDRAULIC LAYOUT FOR SAFE AND CONTROLLED TESTING

## Available Test Lines

2" – CLASS 900

0 – 50 m<sup>3</sup>/h

4" – CLASS 900

0 – 350 m<sup>3</sup>/h

8" – CLASS 900

up to 1,000 m<sup>3</sup>/h

14" – CLASS 900

> 1,000 m<sup>3</sup>/h



FOR MORE INFORMATION, PLEASE CONTACT

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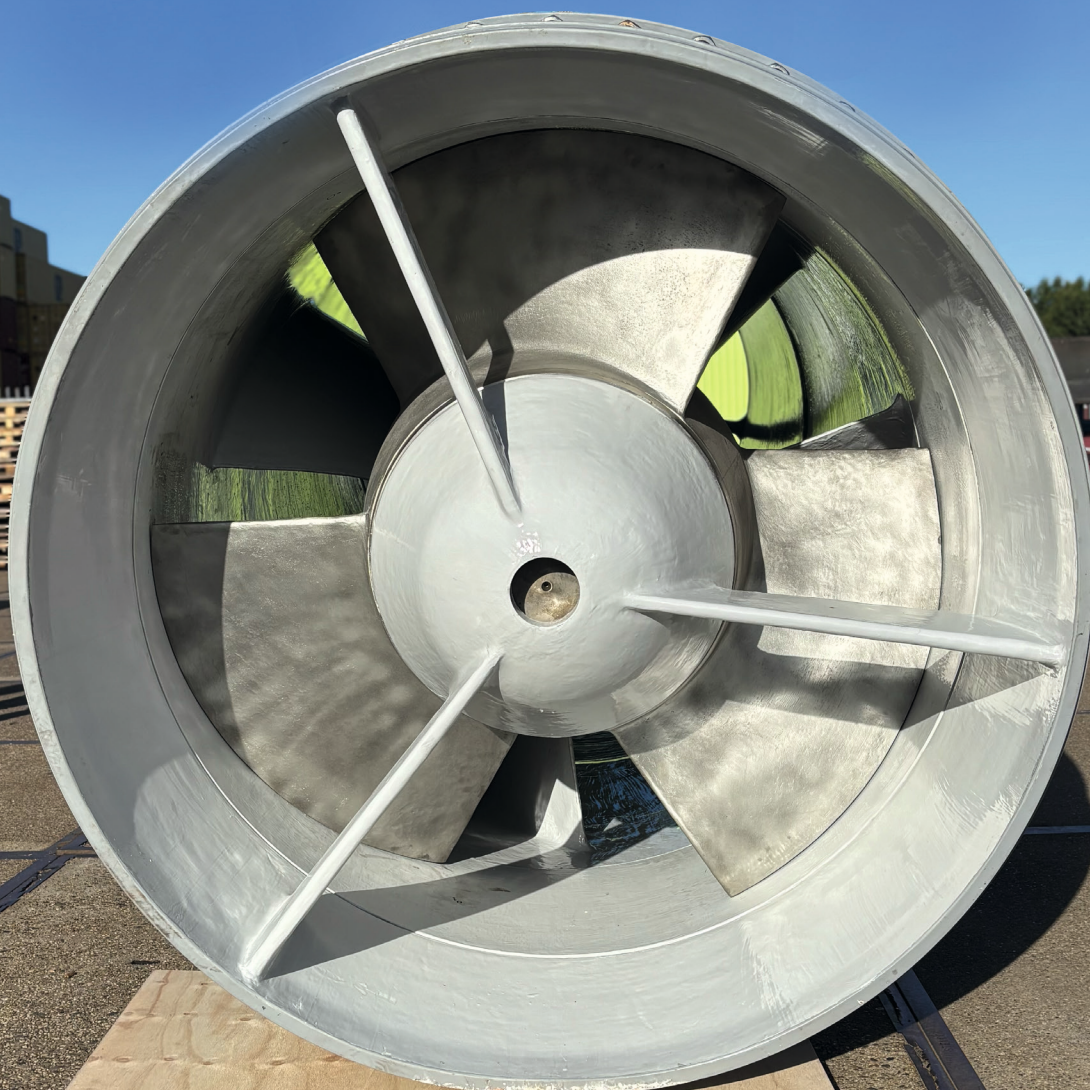
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