



# AquaCulture

Vessels & Land-based Fish Farming

PROVEN TECHNOLOGY

**DESMI**

# AQUA CULTURE

The growing world population is increasing the demand for fish, which is influencing the rapid development of land-based aquaculture systems and on board AquaCulture Vessels.

DESMI is keen about advising and finding value-added solutions together with our customers and neither compromises on quality nor reliability in regard to our products.

To support the fish farmers in achieving this goal, DESMI offers energy efficient and reliable pumps and pumping solutions for both the land-based fish farming market and on board AquaCulture Vessels.



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# PUMPS FOR AQUACULTURE

The ongoing rapid development in the AquaCulture industry is continuously affected by the population growth, which is increasing the demand for farmed fish and wild catch. The market demand for AquaCulture products forces vessels to have the right equipment on board their ships and fish farms around the globe to improve their existing production sites and develop new ones.

This does not only affect fishowners and fish farms but all stakeholders within the AquaCulture industry, including manufacturers of fish oil, fish meal, and fish feed. It increases the requirements for efficient

production equipment. This means both minimizing the water emission and better utilization of by-products from processing to production of fish meal and fish feed.

At DESMI, we are experienced in manufacturing and supplying pumps and pumping systems for various applications within AquaCulture.

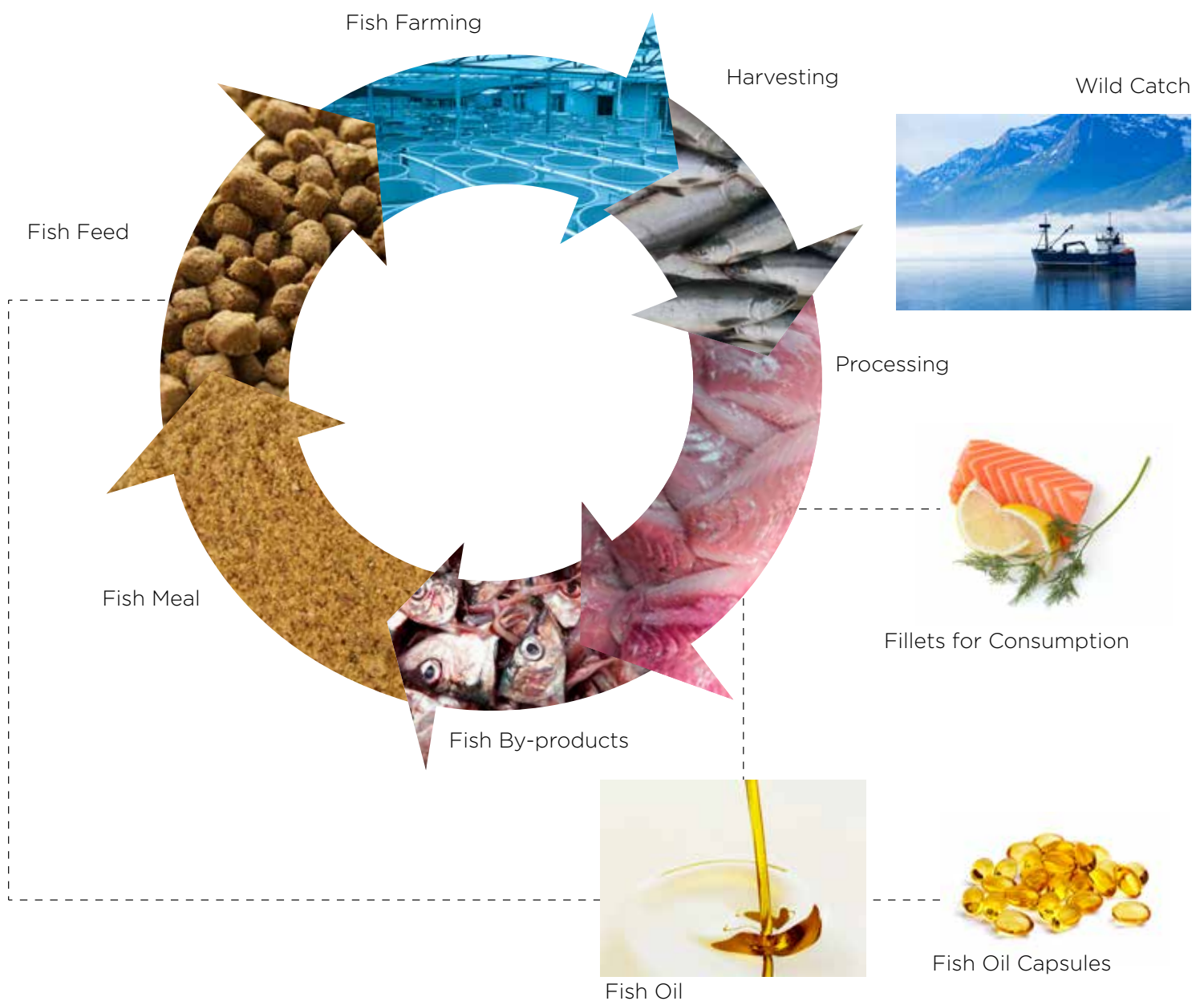
To supplement our product range for AquaCulture we co-operate with other manufacturers of high quality pumps and accessories.

Our pumps are available in cast iron, various bronze alloys, stainless steel, and many other different materials suitable for the AquaCulture industry.





DESMI pumps are installed through the entire cycle of the AquaCulture value chain from land-based fish farms to wellboats, fish oil, fish meal, and fish feed factories.



# CENTRIFUGAL PUMPS

DESMI in-line and end-suction pumps can be found on a variety of different land-based fish farms/hatcheries and on board wellboats.

The pumps are applied in multiple applications such as water intake, heating, recirculation, glycol, lifting pump and seawater circulation for degassing, protein skimmers, oxygen cones, etc.

The DESMI centrifugal pumps are designed to meet the different requirements for operation in land-based fish farming, where reliability and energy

efficiency are key in order to run the production in a smooth and sustainable way and to keep the salmon alive during transportation to and from the cages.

The pumps are available with capacities from 2 to 6,000 m<sup>3</sup>/h / 26417 gpm and delivery heads from 2 up to 220 mLC / 8.8 to 17,611 gal (US)/min and are available in bronze cast iron and Stainless Steel/ Super Duplex.





ESLH



NSL



DSL



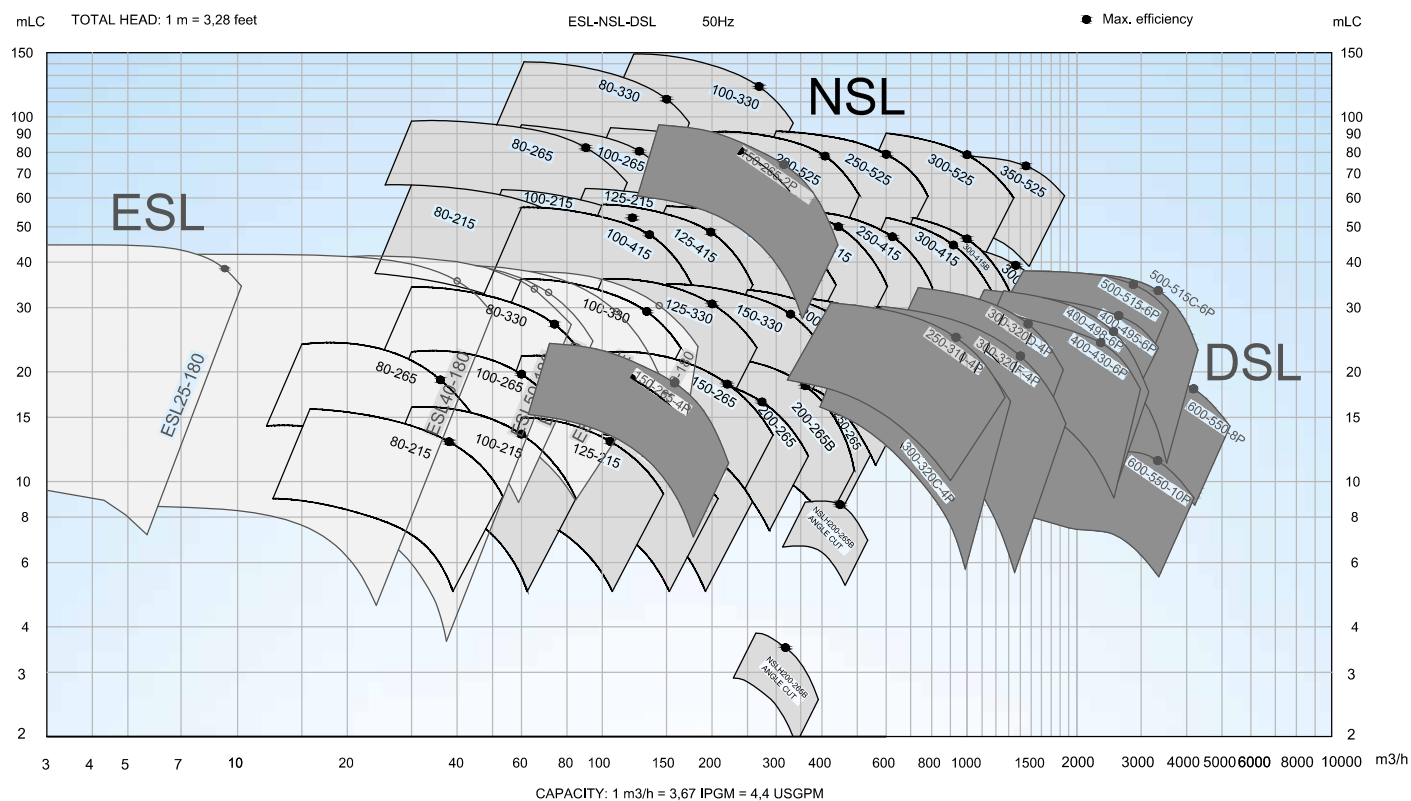
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NSLV



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# PROCESS PUMPS

DESMI manufactures the Internal Gear Pump, ROTAN®. The pump series is recognized within the feed industry and is used for fish oil, fish meal, and fish feed plants around the world, pumping fish oil and other liquids required in these industries.

We focus on finding the optimum solution that can meet our customers' requirements and needs. Our knowledge, understanding the process of manufacturing fish oil, fish meal, and fish feed

combined with our application expertise enables us to identify the optimum solution and advise the customers about the best choice for the purpose.

The ROTAN® pump series is known for high quality and reliability, providing low life cycle costs and are typically sold to OEM equipment manufacturers for wellboats and aquaculture vessels where the process pumps are built into their systems.



Field of Application is one of the Focus Areas for  
DESMI ROTAN® Pumps around the Globe.



Regardless of the thickness of the liquid, we manufacture customized pumps and pumping solutions that can handle any type of liquid within the manufacture of fish oil, fishmeal and fish feed.



**ROTAN® CD (Chemical Duty)**  
Capacity Range: Up to 170 m<sup>3</sup>/h / 748 gpm  
Viscosity Range: Up to 250,000 cSt  
Temperature: Up to 250°C / 482°F



**ROTAN® ED (Environmental Duty)**  
Capacity Range: Up to 90 m<sup>3</sup>/h / 396 gpm  
Viscosity Range: Up to 10,000 cSt  
Temperature: Up to 250°C / 482°F



**ROTAN® GP (General Purpose)**  
Capacity Range: Up to 50 m<sup>3</sup>/h / 220 gpm  
Viscosity Range: Up to 7500 cSt  
Temperature: Up to 150°C / 302°F



**ROTAN® HD (Heavy Duty)**  
Capacity Range: Up to 250 m<sup>3</sup>/h / 1100 gpm  
Viscosity Range: Up to 250,000 cSt  
Temperature: Up to 250°C / 482°F



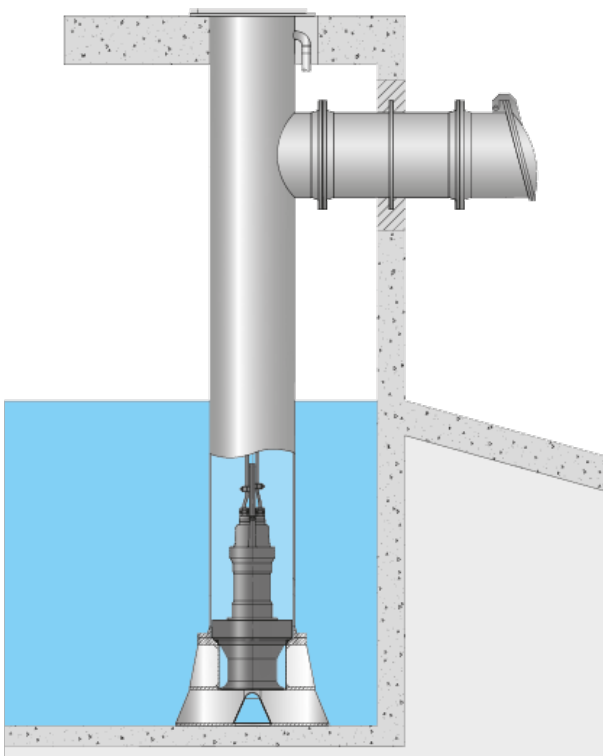
# PROPELLER PUMPS

As part of our product portfolio, we offer submerged and dry installed propeller pumps for RAS systems and land-based fish farming.

The pumps are customized based on our customers' requirements to reach the highest pump efficiencies possible and to keep energy consumption as low as possible. The DESMI propeller pumps are used in applications such as oxygen pumps, CO<sup>2</sup> degassing and biofilters etc.

## Submerged Pumps

The DESMI series of submerged propeller pumps offer good energy efficiencies and are tailored to operate from 1,800 - 7,500 m<sup>3</sup>/h / 7,925 to 33,021 gal (US)/min and delivery heads from 1 up to 6,5m.



Installation

## Dry-installed Pumps

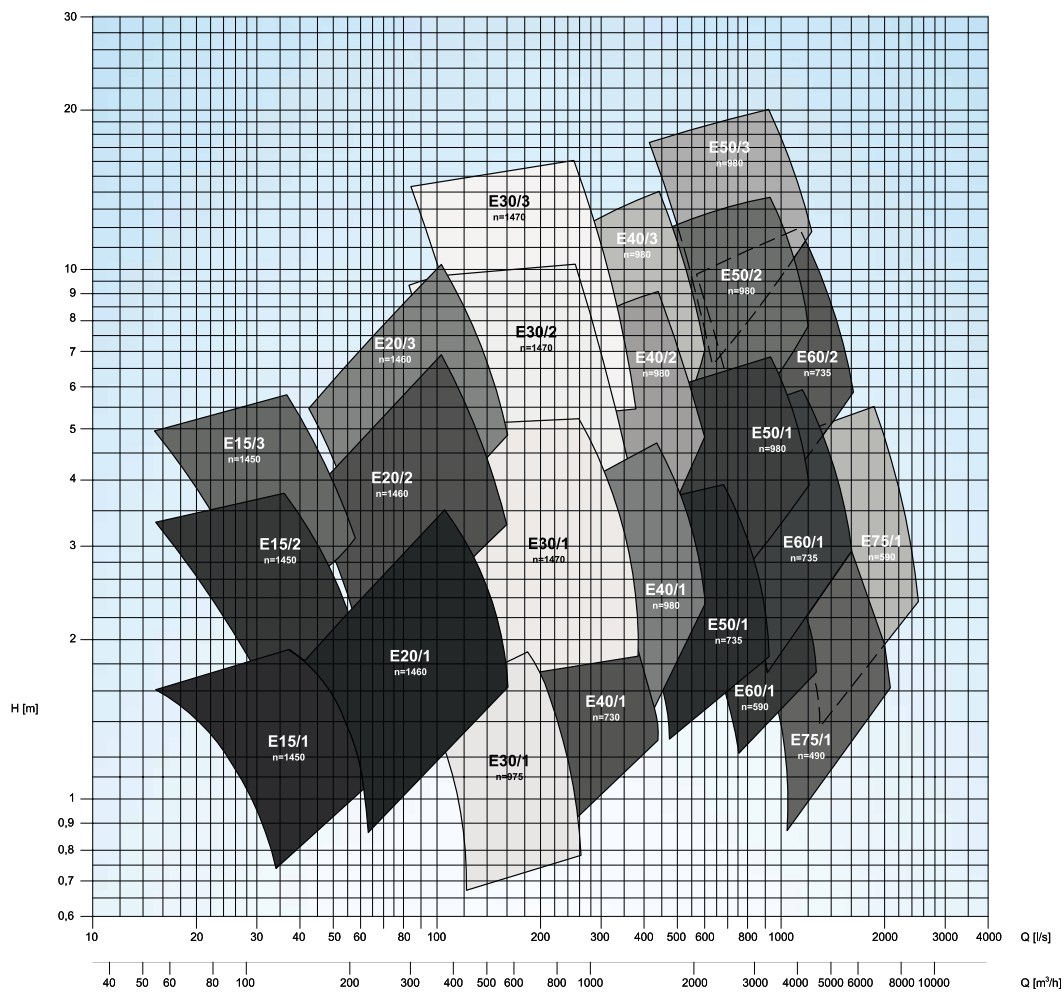
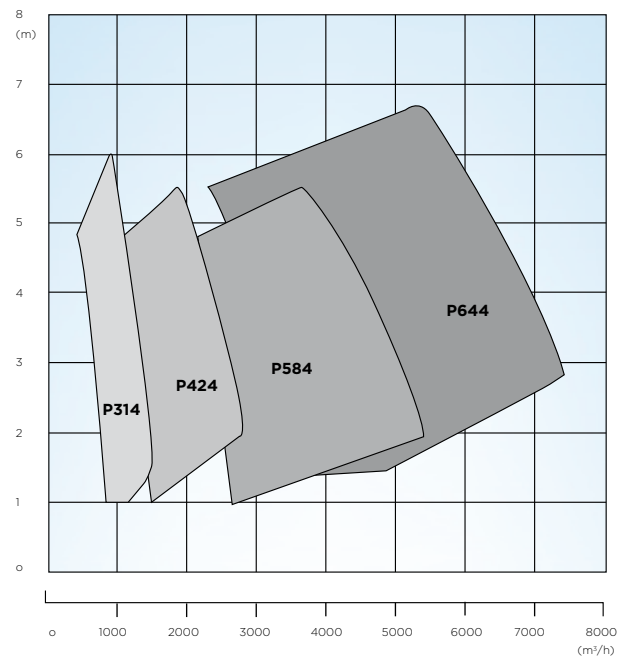
DESMI offers a dry-installed propeller pump, which comes in a vertical and horizontal version.

The pump offers good energy efficiency and is tailored to operate from 57 - 8,600 m<sup>3</sup>/h / 251 to 37,864 gal (US)/min and delivery heads from 0.7 up to 20m.

DESMI propeller pumps can be delivered in various materials for both sea and fresh water.



Each unit is tested in the modern test centre before delivery



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