

High-efficiency and reliable Marine Pumps



DESMI pumps

integrate
integrate
knowledge & technology

DESMI A/S

Profile

DESMI A/S, formerly known as A/S De Smithske, has since its establishment in 1834 had the reputation of being an innovative and forward-looking company.

DESMI A/S is owned by a group of visionary investors, viz. pension funds administered by PKA A/S, Erhvervsinvest Nord A/S and a group of DESMI executives.

DESMI products are often safety components within different installations where quality and reliability are the keywords, and in this respect our ISO 9001:2000 certified quality system helps to ensure DESMI's high quality level.

DESMI marine pumps

The natural choice for high-quality pumps

Thousands of DESMI marine pumps at work on the seven seas have proved our customers' satisfaction with the performance of our pumps. Having supplied marine pumps for decades we know the owners' demands for many years of trouble-free operation.

We offer more than 100 different types and designs which ensure the right pump for the job.

Via more than 50 distributors all over the world our service is global, and spare parts are available from stock at reasonable costs.

We offer complete pump packages

Newly developed pumps and acquisitions have made our product range more comprehensive. To supplement our product range we co-operate with other manufacturers of high-quality pumps and accessories.

Classification

DESMI pumps conform to the requirements of all classification societies. Test certificates from own test bed and any classification society are available on request.

Materials

Our pumps are available in cast iron, various bronze alloys and many other different materials suited to individual applications.

Applications

- Seawater cooling
- Fresh water cooling
- Bilge/Ballast
- General service
- Fire-fighting
- Sanitary
- Boiler water
- HFO/MDO/DO Transfer
- HFO/MDO/DO Supply
- Main Lube Oil Pumps
- Sludge



Vertical pumps

DESMI centrifugal pumps are used as cooling, ballast, fire, and bilge pumps for fresh as well as seawater. The pumps are available with capacities up to 4000 m³/h and delivery heads up to 220 mWC.

Our product range is based on the modular principle which gives interchangeability of the most commonly used items and consequently a quick and safe supply of spare parts.

DESMI pumps are also installed in many naval vessels where special requirements as to materials, shock resistance etc. apply.

Single pumps or complete packages, DESMI's staff will always find the correct solution. Our world-wide network of subsidiaries and distributors ensures prompt spare parts supply and first-class after-sales-service.

Vertical in-line centrifugal pumps, type DSL

In compact design and with spacer coupling.

Capacity range: Up to 4000 m³/h

Pressure range: 3-40 mWC



Vertical in-line centrifugal pumps, type NSL

Available in spacer as well as monobloc design with or without bearings.

Capacity range: 2-1800 m³/h

Pressure range: 5-220 mWC



As a special feature the spacer model is equipped with a coupling which is a combined distance and flexible coupling making it possible to remove the complete bearing housing with shaft, bearings, shaft seal, and impeller without dismantling or loosening the motor or piping.



Horizontal pumps

A DESMI speciality is horizontal, self-priming pumps where suction is based on the diffuser principle and the pump itself is able to evacuate the suction line at suction lifts up to 8.5 m. Non-selfpriming DESMI pumps are available with built-on priming devices which ensure the evacuation of the suction line.



MODULAR S pumps

A complete family of self-priming pumps built to fulfil the various needs of our customers. Long, tall or compact with electric or hydraulic motor, petrol or diesel engine or V-belt drive.

Capacity range: 1-400 m³/h

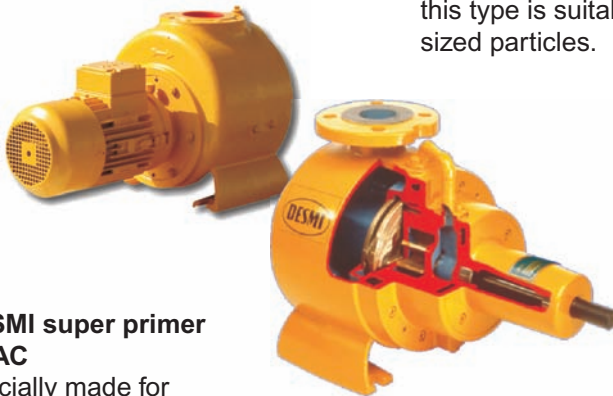
Pressure range: 1-150 mWC

SA & SAEN pumps

Capacity range: 1-650 m³/h

Pressure range: 1-110 mWC

With the open impeller design this type is suitable for medium-sized particles.



DESMI super primer & VAC

Specially made for guaranteed, fast priming, the standard pumps have been equipped with a priming impeller.



ROTAN marine pumps

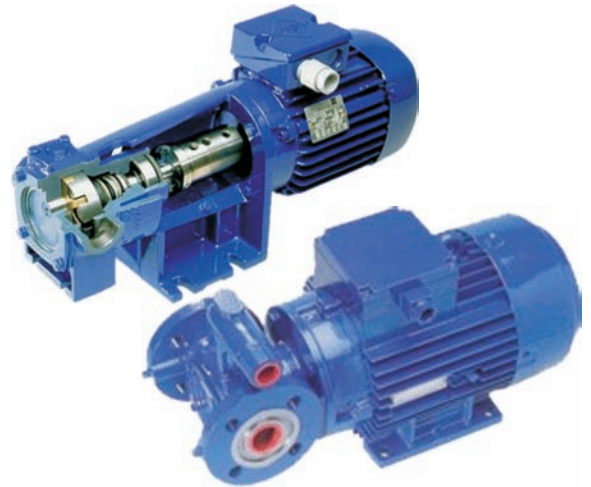
For the pumping of viscous liquids such as lubricating and fuel oil, ROTAN gear pumps are the right choice.

DESMI ROTAN GP

General purpose pumps in cast iron for clean, non-abrasive liquids

GP monobloc pumps are typically used for handling clean oils. The simple and compact construction makes it a low-cost pump, often used in modified versions by OEM customers. A close-coupled model is also available (see photo).

GP pumps are designed for use with IEC-flange motors.



Capacity range:	Up to 50 m ³ /h
Speed:	Up to 1750 rpm
Differential pressure:	Up to 16 bar
Suction lift:	Up to 0.5 bar vacuum while priming Up to 0.8 bar vacuum while pumping
Viscosity range:	Up to 7,500 cSt
Temperature:	Up to 150°C



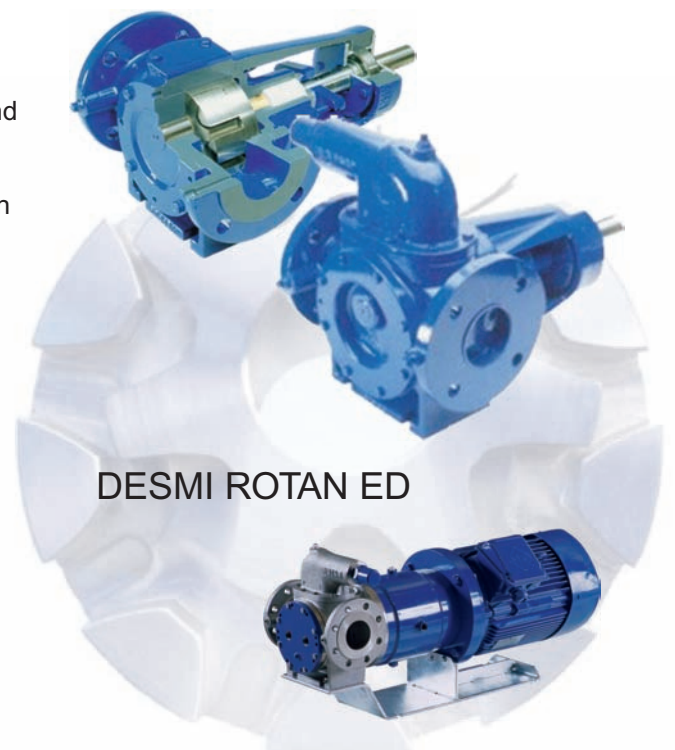
DESMI ROTAN HD

Heavy duty pumps in cast iron for a wide range of viscous, non-corrosive liquids

HD pumps are specially designed for difficult applications and those involving high viscosity oils.

HD pumps are known by their sturdy and simple construction and are also available in carbon steel/stainless steel.

Capacity range:	Up to 170 m ³ /h
Speed:	Up to 1750 rpm
Differential pressure:	Up to 16 bar
Suction lift:	Up to 0.5 bar vacuum while priming Up to 0.8 bar vacuum while pumping
Viscosity range:	Up to 250,000 cSt
Temperature:	Up to 250°C



DESMI ROTAN ED

As a special feature, the ED range has a totally enclosed magnetic drive making the pump guaranteed leak free in operation.

Cargo pumps

DESMI deepwell cargo pumps for LPG/LEG, chemical, and product carriers

DESMI develops and manufactures cargo pumps of the following types:

- DESWELL deepwell submerged multistage centrifugal pumps
- DESBOOST single-stage centrifugal pumps
- DESCARGO multistage booster pumps

Capacity range: Up to 1,000 m³/h
Pressure range: Up to 20 bar
Temperature range: -104°C - +180°C

DESBOOST single and DESCARGO multistage booster centrifugal pumps

Booster pumps are normally placed on the deck and used in series with the DESWELL submerged cargo pumps in order to obtain an increased total pressure of the cargo in the ship's manifold.

This pump is available in vertical as well as horizontal versions. The horizontal version is mounted on a base plate with flexible coupling.



DESWELL deepwell submerged centrifugal pumps

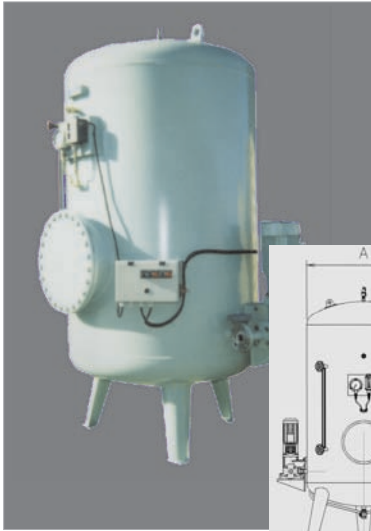
This pump consists of three main components:

The **multistage pump cylinder** which is placed at the bottom of the cargo tank and connected to the **pipe stack** with the driving shaft through which the media is pumped to the **base arrangement**. This consists of the discharge socket, the shaft sealing arrangement, the main bearing arrangement, and the motor bracket. ▶

Normally the pump is driven by an EEx explosion proof electric motor which can be controlled by a frequency converter. Also hydraulic drive is possible.



Other DESMI products



DESMI hydrophore unit

DESMI hydrophore sets are complete, pre-mounted units, designed to ensure automatic water supply on board vessels.

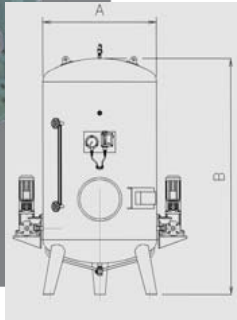
The units include pressure tank, pumps, pressure switch, motor starter, and all necessary connections.

By using the air charging valve the pressure in the tank is preset. The pressure switch will start and stop the pumps automatically.

The DESMI hydrophore units are available in different sizes from 35 to 5000 litres and from 4 to 15 bar working pressure.

The hydrophore can be delivered with one or two pumps in vertical or horizontal design; with capacities to customers' requirements.

The pumps and pressure tanks are available in different materials to avoid corrosion.



DESMI vertical multistage in-line centrifugal pumps

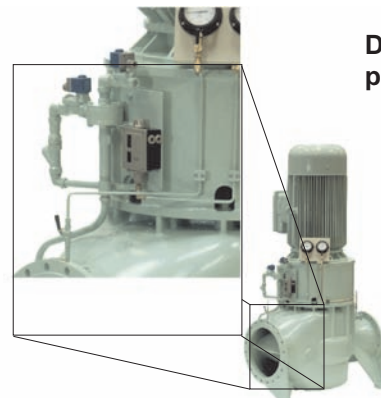
DESMI vertical multistage centrifugal pumps type DPV are developed for the specific demands of our customers. The hydraulic parts of the DPV pumps are manufactured from high-grade polished stainless steel 304, assuring optimum performance, high corrosion resistance, low power consumption and long life.

- High-grade vertical in-line multistage centrifugal pump
- All wetted parts in stainless steel 304 or 316
- High efficiency and long working life
- Low maintenance
- Low noise level
- Small floor space required



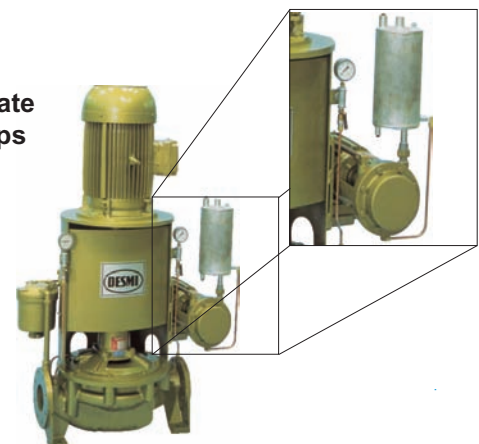
DESMI ejector priming unit or separate priming pumps

The DESMI air priming ejector is designed for mounting on non-selfpriming centrifugal pumps thus making the pump unit self-priming.



DESMI air ejector priming unit

DESMI separate priming pumps



In addition to use as marine pumps, DESMI supplies gear pumps for many different applications to onshore industries and centrifugal pumps for public utilities such as district heating, water supply, and sewage systems.

The DESMI Group

DESMI A/S

Address: Tagholm 1
DK-9400 Nørresundby
Denmark
Phone: +45 96 32 81 11
Fax: +45 98 17 54 99



Subsidiaries

Denmark

DESMI Danmark A/S
Tlf. +45 72 44 02 50
Fax: +45 98 17 54 99
Web: www.desmi.dk /
Web: www.pumpeservice.dk
E-mail: desmidanmark@desmi.com

DESMI Contracting A/S
Tlf. +45 96 32 81 11
Fax: +45 98 17 54 99
Web: www.desmi.com
E-mail: desmiccontracting@desmi.com

RO-CLEAN DESMI A/S
Tlf. +45 65 91 02 01
Fax: +45 65 90 88 77
Web: www.ro-cleandesmi.com
E-mail: Denmark.ro-clean@desmi.com

England

DESMI Ltd.
Tlf.: +44 1782 566900
Fax: +44 1782 563666
Web: www.desmi.com/ltd
E-mail: desmi_ltd@desmi.com

DESMI FHS Ltd.
Tlf.: +44 1782 566900
Fax: +44 1782 563666
Web: www.desmi.com/ltd
E-mail: desmi_ltd@desmi.com

RO-CLEAN DESMI Ltd.
Tlf.: +44 2380 829751
Fax: +44 2380 339190
Web: www.ro-cleandesmi.com
E-mail: uk_ro-clean@desmi.com

Ecuador

RO-CLEAN DESMI LATINOAMERICA S.A.
Tel.: +593 2 326 1939
Fax: +593 2 326 4844
Web: www.ro-cleandesmi.com
E-mail: Latinoamerica.ro-clean@desmi.com

Holland

DESMI K&R Pompen B.V.
Tlf. +31 30 261 00 24
Fax: +31 30 262 33 14
Web: www.desmi.com/krpompen
E-mail: desmi_kr@desmi.com

Kina

DESMI Pumping Technology (Suzhou) Co., Ltd.
Tlf.: +86 512 6274 0400
Fax: +86 512 6274 0418
Web: www.desmi.com
E-mail: desmi_suzhou@desmi.com

Korea

DESMI Korea
Tlf.: +82 31 931 5701
Fax: +82 31 931 5702
Web: www.desmi.com
E-mail: desmikorea@desmi.com

Norge

DESMI Norge AS
Tlf. +47 38 12 21 80
Fax: +47 38 12 21 81
Web: www.desmi.com/norge
E-mail: desminorge@desmi.com

Tyskland

DESMI GmbH Rotan Pumpengesellschaft
Tlf. +49 407 519847
Fax: +49 407 522040
Web: www.desmi.com/gmbh
E-mail: desmi_gmbh@desmi.com

USA (North America)

DESMI Inc.
Tlf. +1 757 857 7041
Fax: +1 757 857 6989
Web: www.desmi.com/inc
E-mail: info@desmiusa.com

Applied Fabric Technologies, Inc.
Tel.: +1 716 662 0632
Fax: +1 716 662 0636
Web: www.afti.com
E-mail: BestBoom@afti.com

Further information:

- Contact us regarding specific product brochures or visit our web site: www.desmi.com

DESMI is a dynamic company with many years of experience and a product range, recognized by businesses all over the world. DESMI has subsidiaries in a number of countries and a world wide distributor network. DESMI develops, manufactures and sells centrifugal pumps, internal gear pumps, sewage pumps, and environmental equipment for the recovery of oil spills. Our customers rely on the quality of our products, and our quality system is in accordance with the requirements of ISO 9001:2000.

DESMI A/S
Tagholm 1
DK-9400 Nørresundby
Denmark

Phone: + 45 96 32 81 11
Fax: + 45 98 17 54 99
Internet: www.desmi.com
E-mail: desmi@desmi.com

DESMI

