



Flow solutions built around you

Complete range of energy-efficient pumps
and systems for your critical processes

Industry/Utility

DESMI
Make life flow

DESMI keeps your critical processes flowing

Energy-efficient pumps and systems for small to large-scale industry and utility sites.

From everyday operation to peak demand, you need dependable flow - often in complex applications with challenging media and demanding compliance requirements. DESMI helps you maintain performance, reduce downtime, and support your growth ambitions while lowering energy use and climate impact.

Designed for efficient operation

We pioneer the development and optimization of critical flow technologies for industry and utilities - and we build reliability and efficiency into every product. Designed for round-the-clock performance, our solutions help you boost process stability, cut energy consumption, drive down operating costs, and reduce emissions.

A wide range of products

From internal gear pumps and self-priming pumps to vertical and horizontal centrifugal pumps, we deliver high performance across a wide range of applications. We also provide engineered solutions tailored to your exact requirements - including high temperatures and higher pressure ratings - and for demanding applications such as chocolate, asphalt/bitumen, oils, isocyanates, paint, pulp and paper, soap and detergents, sugar, and molasses.

Helping you optimize your processes

Our pumps and flow solutions are designed to be maintenance-friendly, helping you minimize unplanned downtime and protect uptime-critical operations. We supply spare parts kits and provide installation, repair, maintenance, commissioning, and service support - so you can get more value from your assets, year after year.



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Powering district heating with proven, efficient flow

District Heating

With decades of district heating experience from Denmark and other northern markets, DESMI delivers energy-efficient pump solutions for both heat production and the transmission and distribution network.

District heating distributes hot water from a central energy source - such as CHP plants, waste-to-energy, industrial surplus heat, or renewables - through a network to residential and commercial buildings, before returning the cooled water for re-heating. The result is a flexible, scalable way to supply heat efficiently while supporting the transition to lower-carbon energy sources.

Because heat is the world's largest energy end-use - around half of global final energy consumption - improving heat efficiency is one of the strongest levers for cutting emissions at scale.



Where DESMI adds value

Efficient pumping for heat production, transmission, distribution, and substations - built on decades of district heating experience from Denmark and northern Europe.



From plant to network

Pumping solutions for heat production plants, transmission pipelines, distribution loops, and substations.



Configured to your needs

Flexible motor specifications and accessories (e.g., frequency converters) to match actual operating conditions.



Built for efficiency

High hydraulic efficiency and low NPSH to support stable operation and lower energy consumption.



For demanding conditions

Solutions for higher pressure ratings (e.g., up to 25 bar) and elevated temperatures (e.g., up to 150°C / 302°F), depending on configuration.



Designed for uptime

Long life cycle, robust construction, and maintenance-friendly design to reduce downtime.

Proven in Denmark - and beyond

Denmark is one of the most mature district heating markets in the world, with around two-thirds of households supplied by district heating - a track record that has shaped strong standards for efficiency and reliability.

DESMI has supplied district heating pump solutions for almost **90 years**, bringing proven technology and practical know-how to help utilities and contractors build reliable networks with lower operating costs.

Suitable products



NSL

Vertical in-line /
Horizontal end-suction centrifugal
pump

Up to 2,400 m³/h
(10,566 US gpm)



DSL

Vertical in-line
centrifugal pump
Up to 7,400 m³/h
(32,581 US gpm)

District Cooling

District cooling supplies chilled water from a centralized plant - or via “free cooling” using naturally cold seawater - through an insulated pipe network to multiple residential, commercial, and industrial buildings for air-conditioning and process cooling.

By producing cooling at scale, district cooling can significantly cut electricity use versus stand-alone building chillers - often cited in the ~35-60% range depending on system design, climate, and baseline.

It can also reduce the total amount of refrigerant in the built environment by centralizing it at the plant and enabling lower-GWP choices - helping lower leakage risk and environmental impact.



Built for efficiency - designed for uptime

High hydraulic efficiency and **low NPSH** to support stable operation and reduced energy consumption.

Maintenance-friendly design and long service life to minimize unplanned downtime.

Configured to your project: motors, controls, and accessories (e.g., frequency converters) to match real operating profiles.

Typical chilled-water temperatures vary by design, but many systems deliver supply water around ~4–6°C (~39–43°F).

Suitable products



NSL & NSLH



DSL

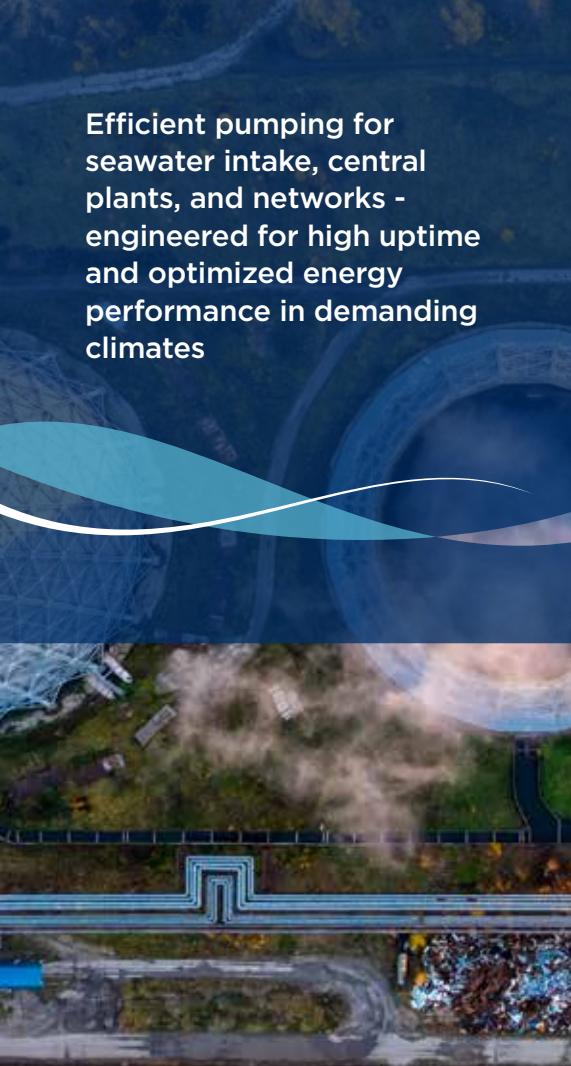
Vertical in-line /
Horizontal end-suction
centrifugal pump

Up to 2,400 m³/h
(10,566 US gpm)

Vertical in-line
centrifugal pump

Up to 7,400 m³/h
(32,581 US gpm)

Efficient pumping for seawater intake, central plants, and networks - engineered for high uptime and optimized energy performance in demanding climates



Strong fit for the Middle East

District cooling is expanding rapidly in hot-climate cities - especially in the Middle East where energy efficiency initiatives and net-zero strategies are accelerating upgrades and optimization of cooling infrastructure.

Where DESMI adds value

DESMI provides energy-efficient pumping solutions across the district cooling value chain - built for continuous operation, high uptime, and low lifecycle cost.



Water intake and free cooling

Raw water abstraction, seawater systems, and free cooling duties.



Cooling tower applications

Circulation and related services.



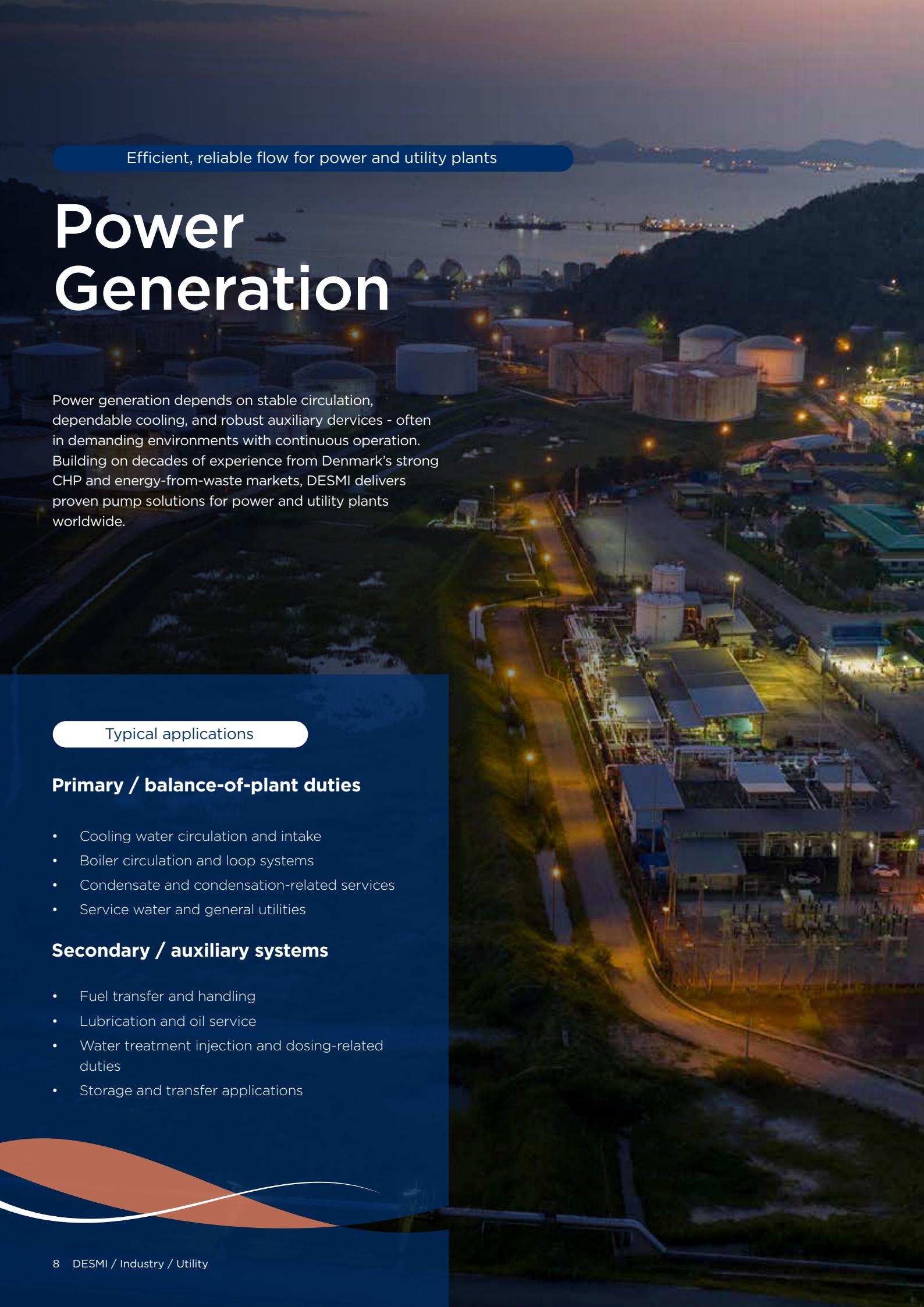
Central plant circulation

Condenser water, chilled water, and auxiliary duties.



Network circulation

Solutions for higher pressure ratings (e.g., for transmission and distribution).



Efficient, reliable flow for power and utility plants

Power Generation

Power generation depends on stable circulation, dependable cooling, and robust auxiliary services - often in demanding environments with continuous operation. Building on decades of experience from Denmark's strong CHP and energy-from-waste markets, DESMI delivers proven pump solutions for power and utility plants worldwide.

Typical applications

Primary / balance-of-plant duties

- Cooling water circulation and intake
- Boiler circulation and loop systems
- Condensate and condensation-related services
- Service water and general utilities

Secondary / auxiliary systems

- Fuel transfer and handling
- Lubrication and oil service
- Water treatment injection and dosing-related duties
- Storage and transfer applications



Suitable products



NSL & NSLH



DSL

Vertical in-line /
Horizontal end-suction
centrifugal pump

Up to 2,400 m³/h
(10,566 US gpm)

Vertical in-line
centrifugal pump

Up to 7,400 m³/h
(32,581 US gpm)

Where DESMI adds value

We provide energy-efficient pumping solutions for many hot water and cooling duties in conventional and renewable-based plants (typically outside the steam cycle), helping you improve operating stability, reduce energy use, and protect uptime.



High efficiency + low NPSH

For stable, energy-optimized operation.



The right technology for the media

Centrifugal pumps for hot water/cooling duties and ROTAN® internal gear pumps for fuels, lubricants, and other higher-viscosity liquids.



Maintenance-friendly designs

To minimize downtime and lifecycle cost.



Configured for your project

Motors, controls, and accessories matched to your operating profile and site standards.

Reliable flow for high-efficiency energy production

Combined Heat and Power Plants

Combined heat and power (CHP) plants generate electricity and capture surplus heat for district heating or industrial use - maximizing fuel utilization and supporting lower overall emissions.

DESMI supplies energy-efficient pump solutions for critical plant duties such as circulation, boiler and auxiliary services, condensate and cooling applications - engineered for continuous operation, stable performance, and maintenance-friendly uptime. We tailor pump and system configurations to your plant layout, operating profile, and project requirements.

Suitable products



NSL & NSLH

Vertical in-line /
Horizontal end-suction
centrifugal pump

Up to 2,400 m³/h
(10,566 US gpm)



DSL

Vertical in-line
centrifugal pump

Up to 7,400 m³/h
(32,581 US gpm)



Robust pumping for demanding, continuous operation

Waste-to-Energy Plants

Waste-to-energy (WtE) plants turn non-recyclable waste into usable energy-supplying electricity and heat while reducing landfill volumes. These plants run around the clock in harsh environments where reliability is essential.

DESMI provides durable, high-efficiency pumping solutions for key plant processes - supporting stable operation, lower lifecycle cost, and reduced downtime. Our maintenance-friendly designs and service support help protect availability across critical duties in energy recovery, cooling, and auxiliary systems.



Efficient pumping for comfort and critical cooling

Large HVAC plants

Large HVAC systems depend on stable, energy-optimized circulation - day in, day out.

DESMI supplies energy-efficient pumps and pump solutions for medium and larger HVAC installations, helping owners, consultants, and contractors achieve reliable performance, lower operating costs, and reduced climate impact.

From high-rise buildings and campuses to airports, hotels, shopping malls, and industrial cooling systems with cooling towers, we support the circulating flows that keep indoor climates comfortable and processes running smoothly.

A natural overlap with district cooling and energy infrastructure

Large HVAC plants and chilled-water loops often connect to - or resemble - district cooling and district energy philosophies. With decades of experience supporting district energy applications, DESMI brings proven know-how to HVAC projects where efficiency, reliability, and lifecycle cost matter most.

Suitable products



NSL & NSLH

Vertical in-line /
Horizontal end-suction
centrifugal pump

Up to 2,400 m³/h
(10,566 US gpm)



MAG-DRIVE PUMPS

Vertical in-line /
Horizontal end-suction
centrifugal pumps with
magnetic coupling

Up to 385 m³/h
(1,700 gpm)



DSL

Vertical in-line
centrifugal pump

Up to 7,400 m³/h
(32,581 US gpm)



Where DESMI adds value

High-performance pumping solutions for chilled and heating water systems - designed for efficiency, uptime, and ease of installation.



Medium to larger pump sizes

Engineered for continuous operation.



Open and closed systems

Solutions for chilled water and heating water circulation.



Project flexibility

Motors, controls, and accessories (e.g., frequency converters) matched to system design and operating profile.



Lower installed cost

Factory-aligned vertical pumps simplify installation, reduce alignment work on site, and help shorten commissioning time.



High efficiency + low NPSH

For stable performance and reduced energy consumption.



Maintenance-friendly designs

To reduce downtime and simplify service access.

Datacenters

Maximise uptime and efficiency in critical digital infrastructure

As demand grows for AI, high-performance computing, and always-on digital services, data centers must meet increasingly strict requirements for reliability, resiliency, and energy efficiency. Cooling performance is central to this - because stable, efficient flow is what protects IT equipment, safeguards uptime, and helps keep operating costs under control.

DESMI supports operators, designers, and contractors with dependable, energy-efficient flow solutions for critical data center systems. From direct liquid cooling and immersion cooling to facility water systems - including water intake, heat reuse, and backup power - our pump portfolio and engineering expertise help you solve today's toughest cooling challenges.

Cooling you can rely on - under continuous load

Data center cooling must deliver consistent thermal performance 24/7. Whether your setup is air-assisted, liquid cooled, or immersion based, stable coolant circulation is essential to maintain target temperatures and prevent hotspots. DESMI solutions are designed for efficient operation and maximum uptime - helping you improve system performance and support better overall energy metrics.

Flexible solutions for modern cooling architectures

Data centers are evolving fast, and so are their cooling concepts. DESMI provides centrifugal pump solutions configured to suit your system design - supporting high efficiency, low NPSH requirements, and robust operation.

Options such as magnetic coupling are available where it supports reliability, safety, or maintenance strategy.

Secure intake and facility water performance

Where water-based cooling depends on external sources - lakes, fjords, seawater, or other intakes - flow stability and material durability become critical. With decades of experience from marine and utility applications, DESMI intake solutions are built to handle demanding conditions while maintaining dependable supply and energy-efficient control.

Turning waste into warmth

The cooling process generates valuable excess heat. By capturing and redirecting it - often to local district heating networks - data centers can transform a byproduct into a resource, reduce waste, and strengthen sustainability performance.

Suitable products

NSL / DSL / ESLH



Vertical in-line / Horizontal end-suction centrifugal pump

Up to 7400 m³/h
(32,581 US gpm)



MAG-DRIVE PUMPS



Vertical in-line / Horizontal end-suction centrifugal pumps with magnetic coupling

Up to 385 m³/h
(1,700 gpm)

Fuel Pumps Engineered for Mission-Critical Data Centers

When uptime is non-negotiable, every component of your backup power system must perform flawlessly. Our fuel pumps are specifically engineered to support backup generators in data centers, delivering reliable fuel flow when it matters most.

Designed for continuous readiness and instant response, our pumps ensure stable fuel supply during grid failures, enabling generators to start quickly, run smoothly, and sustain full load without interruption. With robust construction and precision engineering, they perform reliably under extreme conditions and extended runtimes.

Fuel polishing - proven performance where we deliver most value

In many data centers, fuel polishing is a critical priority to keep stored diesel clean, stable, and ready for use. Our gear pumps are ideally suited to polishing loops, built to operate continuously and reliably - helping maintain fuel quality and protect generator availability.

Why data centers choose DESMI fuel pumps

From Tier II facilities to Tier IV hyperscale data centers, our fuel pumps are trusted components in resilient power infrastructures worldwide. When the grid fails, your generators must not - and neither should your fuel system.



High reliability

For mission-critical backup power.



Consistent fuel delivery

For fast generator startup.



Heavy-duty design

Suitable for 24/7 standby systems.



Low maintenance

And long service life.



Tested for redundancy

And emergency operation.



Compatible with leading diesel generator brands

Designed to perform reliably in multi-pump configuration.

Suitable products



ROTAN® GP and PD gear pumps

All the ROTAN® models have a differential pressure up to 16 bar / 232 psi and a suction lift up to 0.8 bar / 11.6 psi vacuum while pumping



Proven flow for challenging media

Process Industries and ROTAN®

Across process industries, pumping is rarely “just pumping.” Media can be viscous, temperature-sensitive, abrasive, sticky, crystallizing, shear-sensitive - or all of the above.

That's where ROTAN® internal gear pumps excel.

DESMI delivers reliable, efficient pump solutions that support your ambitions for performance, compliance, and growth - while helping reduce energy use, product loss, housekeeping, and unplanned downtime. From hygienic food applications to demanding chemical and heavy-media duties, our proven designs are built for stability, accuracy, and long service life.

Chocolate

Gentle, reliable pumping for chocolate production

Chocolate demands stable flow, careful temperature control, and a pump design that protects product quality while keeping uptime high. With decades of experience in close collaboration with plant builders and producers, DESMI ROTAN® chocolate pumps are trusted worldwide for key chocolate-processing duties - from cocoa mass and cocoa butter handling to the transfer and circulation of liquid chocolate in production systems.



WHERE WE FIT

Feeding tempering machines, coaters/enrobers, supply tanks, ring mains, conches, and bulk transfer.



WHY ROTAN® FOR CHOCOLATE

Chocolate-specific tolerances (T2), dedicated sealing concept, and maintenance-friendly back pull-out design - helping extend time between service and reduce housekeeping.

Suitable products



ROTAN® HD, GP, and CD gear pumps

A speciality within the ROTAN® range is the ROTAN® chocolate pump for pumping cocoa mass and chocolate.

Casing available as inline (standard) or 90° angular configuration (BCHD). Specially designed externally lubricated main bearing.

Oil Blending

Accurate, repeatable flow for blending and batching

Oil blending and additive mixing rely on steady, predictable flow to protect batch quality—whether in fully automated lines or multi-product facilities. ROTAN® GP and HD series pumps are widely used for blending, additive mixing, and filling of finished lubricants.

DESMI helps you maintain accurate transfer and consistent process performance.

Suitable products



ROTAN® HD and GP Pumps

Pumps in cast iron, for clean, non-abrasive liquids. The simple and compact construction makes it a low-cost pump, often used in modified versions by OEM customers.

HD and GP pumps are designed for use with IEC or NEMA flange motors. Available with 90° angular configuration.



Supporting efficient batching, reduced rework risk, and reliable operation across continuous production schedules.



Sugar and Molasses

Stable transfer of sugar products - up to heavy molasses

From cane and beet juice to syrup, molasses, and finished sugar solutions, ROTAN® pumps deliver smooth, consistent transfer - especially where viscosity changes with temperature and concentration.

Where sugar products contain additives (e.g., acids used to prevent fermentation in transport), material selection becomes essential. DESMI supports the right pump configuration and material choice to match your product and protect reliability

Helping you maintain steady flow, minimize maintenance, and reduce lifecycle cost.

Suitable products



ROTAN® CD and HD

Both the CD and HD pumps are designed for handling corrosive liquids, primarily found in the chemical processing, food and pharmaceutical industries.

Available with 90° angular configuration.

Helping you maintain steady flow, minimize maintenance, and reduce lifecycle cost.





Isocyanate

Designed for reactive media and dependable dosing

With robust designs and configuration options that support safe, stable handling, DESMI helps you maintain accurate transfer and reliable operation - while reducing the risk of downtime caused by media-related wear.

Isocyanates are critical components in polyurethane production - and they demand respect. Many isocyanates react with humidity and can form hard crystals that accelerate wear and challenge sealing arrangements.

Our magnetically ROTAN® internal gear pumps are widely used in PU foam production for isocyanate and related media such as polyol and additives.



Paint and Ink

Consistent flow for coatings, resins, and printing systems

Paints, coatings, and inks demand controlled, repeatable flow - often with viscous or sensitive products where consistency affects final quality. ROTAN® gear pumps are commonly used for paints, resins, and coatings, and for ink manufacturing and printing press duties.

Where leakage control and reliability are key, DESMI offers magnetically coupled (magdrive) options that eliminate rotating seals - supporting lower housekeeping, reduced downtime, and stable long-term operation.

Suitable products



ROTAN® ED - Environmental Duty Pumps

Often these applications are very different, resulting in the seals and support system requiring regular attention and/or replacement.

Available with 90° angular configuration.

Soap and Detergents

Reliable pumping for mixing, transfer, and filling

Soap and detergent production often combines complex formulations with varying viscosity, additives, and temperature conditions. DESMI is a long-standing supplier to this industry, with many ROTAN® pumps operating in daily production environments.

Our solutions are selected to support consistent flow and dependable operation across mixing, circulation, transfer, and filling duties - helping manufacturers reduce downtime, improve process stability, and maintain efficient production with maintenance-friendly pump designs.

Suitable products



ROTAN® HD - Heavy Duty Pumps

Specifically designed for difficult applications and those involving high viscosity liquids. Known by their sturdy and simple construction.

Available with 90° angular configuration.

For these demanding duties, the ROTAN® HD heavy-duty series is a strong fit - engineered to deliver reliable displacement.



Pulp and Paper

Heavy-duty performance for demanding mill liquids

Pulp and paper processes involve a wide range of challenging liquids - often viscous, sticky, abrasive, or chemically aggressive. For decades, ROTAN® internal gear pumps have been used worldwide for media such as tall oil, pitch fuels, caustic liquids, lignin, turpentine, resin, starch, and slurries.

Asphalt and Bitumen

Built for hot, viscous, and demanding transfer

Bitumen and asphalt handling is defined by high viscosity, high temperatures, and often abrasive or polymer-modified formulations. DESMI provides flexible, proven pump solutions across multiple sizes and configurations - built to keep production moving with minimal downtime.



Fuel and Oil

Dependable transfer across terminals, storage, and additives

From base oils and refined fuels to lubricants, additives, markers, and biofuels, fuel and oil operations require robust pumps that handle viscosity variation, temperature changes, and continuous-duty operation.

DESMI ROTAN® solutions support key duties such as terminal loading/unloading, tank-to-tank transfer, truck loading, additive dosing/injection, and storage handling - configured to match your media, control strategy, and site requirements for safe, efficient, maintenance-friendly performance.



WHY ROTAN® FOR ASPHALT/BITUMEN

True back pull-out design for faster service, integrated self-draining relief valve options, and jacketing choices (hot oil, steam, or electric) to support temperature control. Bearing and sealing options can be selected for clean or more abrasive duties.

Suitable products



ROTAN® PD - Petrochemical Duty Pumps

PD pumps are designed for refinery and petrochemical applications, all pressure-containing components are in carbon steel. PD pumps meet API 676 standards with only a few exceptions.

Available with 90° angular configurations.

Aftermarket Support

Keep all systems running with DESMI global service

The DESMI Service after-sales organization, supported by our global network of authorized service partners offers tailor-made, global services to ensure optimization and long-term performance of your DESMI products.



Call the
DESMI Service
Hotline round
the clock at
+45 96 32 81 10



**When your job involves
important and potentially
hazardous flow processes, it's a
good idea to keep your process
equipment in top condition**

And to work with a supplier you can rely on when you urgently need spare parts, maintenance, or replacement products.

We focus on ensuring uptime and availability, and on high efficiency and safety. No matter where you and your plant are located, we will be ready at a moment's notice with the expertise, spares, and know-how to keep your processes running. Our teams are highly experienced, factory trained, and fully capable of meeting your demands.



Overhaul
Videos



We exist to keep your business flowing

DESMI works closely with design companies, EPCs, contractors, consultants, and OEMs to deliver critical flow processes that enable reliable and energy-efficient systems. Our pumps and supporting systems are trusted worldwide for dependability and the lowest total cost of ownership.

At DESMI, our focus has never been on discovering what we can do – it's about pushing the boundaries of what we can do for you. Our class-leading equipment, solutions, and services are designed specifically for your applications and help you contribute to a digital infrastructure that is available 24/7 whilst ensuring optimal use of the available energy.

Founded in Denmark in 1834, we have provided the expertise, solutions, and aftermarket support our customers need for nearly two centuries. We help you reduce your climate impact and keep servers running whilst realising your ambitions for reliable performance, compliance, and growth.

Together, we can make a difference, whatever the future holds. Because we, like you, are here to **make life flow**. For more information, visit desmi.com.

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