



SONNEK:

Your professional partner in liquid technology

Founded in 1930, the internationally operating company SONNEK Engineering GmbH delivers pumps for all kinds of applications. A true expert in liquid technology, the company develops and creates - at two production sites, in Ternitz (Austria) and Sibiu (Romania) - customized plug and pump solutions to meet a wide range of requirements in the field of the pump and application technologies.

As the largest manufacturer-independent company in Austria specialized in pumps, we deliver pumps and filters made by leading international manufacturers as well as complete pump systems from our own production. Our technicians take care of the assembly, servicing and repair for challenging applications.

A significant proportion of the company turnover comes from the project business. We develop, with our specialized team of engineers and based on the specific requirements of our customers, turnkey liquid technology installations for the heavy, the chemical and the pharmaceutical industries, for the food manufacturing industry, as well as wastewater treatment systems for commercial and industrial wastewater, fully automated water retention systems for the tunnelling and much more. A key emphasis is placed on modular plug and pump systems designed for oil and gas fields. As early as the late 90s, the company began developing special modules for the reinjection of reservoir water for the enhanced oil production on existing onshore oil fields. Today, the company delivers its own complete modular solutions for all reservoir water applications in the international oil business.

Our team, consisting of around 70 outstandingly trained and experienced engineers, as well as assembly and service technicians, stands for customized and well-considered engineering for the implementation of solutions for a broad range of tasks, even under the most difficult operating conditions. Our family-run medium-sized company offers planning, design, manufacturing, assembly, commissioning and servicing – all from one source. Our globally active clientele includes local and international industrial customers from all sectors, especially from the oil, chemical, metal, construction, pharmaceutical and food manufacturing industries, as well as from the entire energy sector, such as hydropower, mineral and biogenic fuels.





SONNEK-Group

The SONNEK Group consists of SONNEK Engineering GmbH, with its headquarters in Vienna and its production facility in Ternitz, and the two subsidiaries abroad, one in Sibiu (Romania) and the other one in Prague (Czech Republic). In 2015, SONNEK Engineering GmbH entered an important partnership with the financial investor STERLING GRACE, in order to solidly secure its planned strong expansion. With the acquisition of SWS Engineering (water treatment systems) in 2017, the company has been able to considerably consolidate its professional positioning in the field of water treatment.

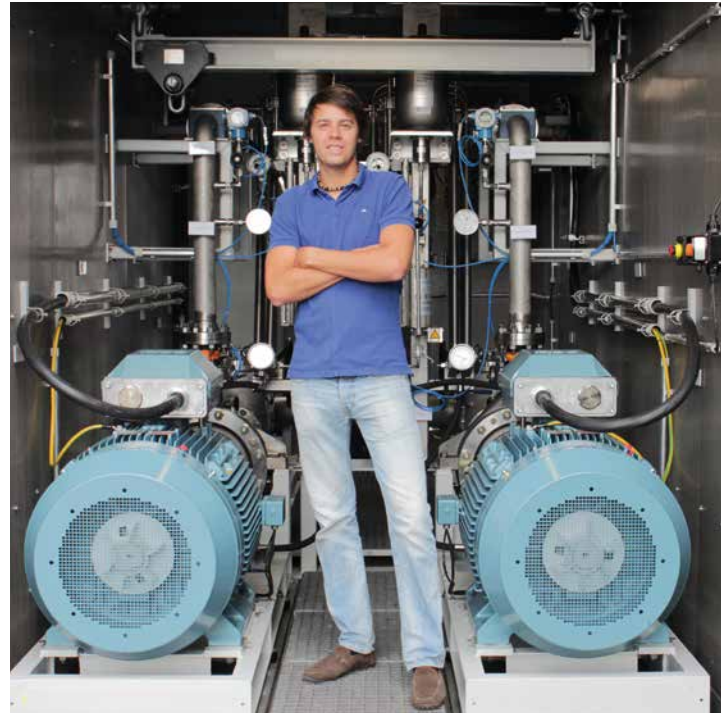


Highest Quality

SONNEK Engineering stands for highest quality. And for this reason, we invest a lot of time in the optimization of our processes, in the selection of our delivery partners, in the training of our employees as well as in the optimal processing of the products in our liquid technologies systems. An obvious proof of our quality-driven company philosophy is represented by our certifications. SONNEK is ISO 9001 and OHSAS 18001 (Occupational Health and Safety Assessment Series) certified. In addition to this, the production site in Ternitz obtained the ISO 3834-3 (Welding Quality) and EN 1090 (Steel Construction) certifications.

Business Segment Pump Technology

Submersible pumps, centrifugal pumps, displacement pumps, seal-less pumps, high-density solids pumps, process pumps, plastic pumps, high-pressure pumps, dosing pumps: SONNEK delivers high quality high performance pumps from renowned manufactures for all operational purposes and all media, of all delivery heights and pressures. The range of performance is nearly unlimited, ranging from microliter dispensing to pumping thousands of cubic meters per hour. The most difficult and dangerous tasks are solved by using the most modern materials.



Business Segment Oil and Gas Field Solutions

SONNEK develops and produces turnkey solutions for water treatment and high-pressure injection systems for produced water on oil and gas fields. These plug and pump systems, operating under the most adverse environmental conditions, are ready for use immediately after installation, being designed to ensure a maximum operational safety and a minimum amount of maintenance and equipped with an intelligent control with remote access, guaranteeing a 24/7 continuous operation.



Business Segment System Construction/ Special Machines

SONNEK offers planning, design, manufacturing, assembly, commissioning and service in system construction and for special machines – all from a one source. We create complete solutions, including the control technology, for all important industry sectors; these solutions are used, for instance, for the loading and unloading of tanks, in the production of food and in the chemical dosing, for the filtration of paints and lacquers or for disposal purposes and much more.



Business Segment Metal Construction

SONNEK carries out various metal working activities. The range of services offered includes forming machining operations such as cutting, turning, drilling and milling, as well as structural steelwork, ventilation and high-pressure pipeline construction. Our in-house construction department, modern welding technology and high-quality materials are used to develop and implement our turnkey solutions.



Business Segment Water Treatment/ Filter Technology

SONNEK develops and delivers ready-to-use systems for the treatment of liquids from a one source. The bandwidth of our customized, unique concepts, that can be applied across many sectors, extends from mechanical pre-filtering and physical separation over biological and chemical treatment steps, all the way to ultrafiltration and reverse osmosis. In sludge thickening and drainage systems the remaining residues are reduced to a minimum.



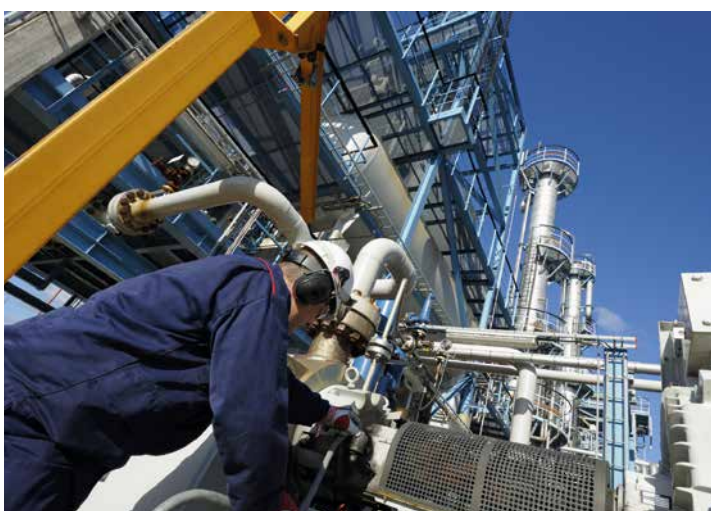
Business Segment Railway Technology

Using the most modern pumping technology, SONNEK plans, develops and installs turnkey solutions designed for the fully automatic operation of stationary or mobile suction and supply systems for trains. These provide a smooth operation of the train toilets and the water supply systems, ensuring the highest passenger comfort around the clock. Important information, such as flow rate, pressure and power consumption, can be measured in real time, monitored and billed on an individual basis.



Business Segment Servicing and Maintenance

SONNEK offers comprehensive servicing, repair and maintenance services for the entire lifespan of the products and installations delivered or existing at the customers. This is not only ensuring a smooth operation, but also securing a sustainable reduction of the operating costs, by the optimization of life-cycle costs such as energy consumption. The servicing work includes, a. o., preventive maintenance, repairs, commissioning and training.



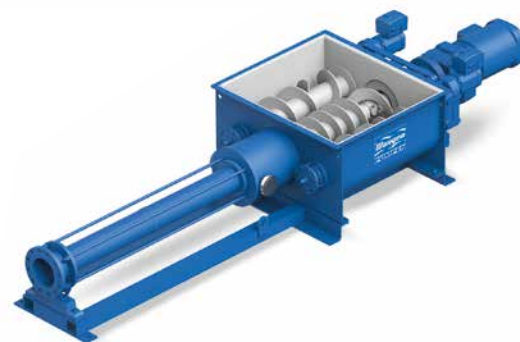
Wangen



Progressive Cavity Pump

- Up to 259 m³/h and 48 bar
- Viscosities up to 200,000 mPas
- Maintenance-friendly
- Gentle product delivery
- Excellent dosing accuracy
- High suction capacity (self-priming)
- Low dead space construction
- Optional heating or cooling jacket

Ideal for: Slurries of all kinds in sewage treatment plants, chemical processes, energy production or food technology. Conveyance of liquid products such as concentrates, dough, confectioneries, dairy products, paper and pulp, crude oil, animal nutrition ...



Wangen



Screw Conveyors

- Single or double spindle versions
- Secure feeding of highly viscous slurries into the feed pump inlet
- Dry matter content of up to 45 %

Ideal for: Dehydrated sewage sludges as well as organic or chemical sludge.



Special development – Vario Twin:

- With a “coreless” screw for gentle feeding
- Drive controllable independently of the pump speed

Ideal for: High-viscosity food products up to 3,000,000 mPas such as doughs, cheeses, raw meat mixtures, cosme ...

BLACKMER

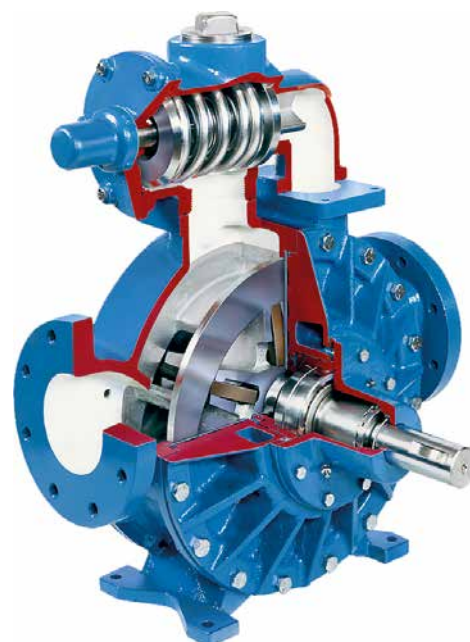


Rotary Vane Pump

- Up to 500 m³/h and 12 bar
- Temperatures up to 250 °C
- Dry self-priming
- Self-adjusting, consistent feed delivery even after wear
- Low-viscosity to highly viscous liquids
- In stainless steel, cast iron or grey cast iron
- Optional integrated overflow valve and heating jacket



Ideal for: Loading and unloading mineral oils, fuels, crude oils, waste oils, solvents, biodiesel, bioethanol, liquid gas, concentrates, bitumen, molasses, fats, lubricants ...



VOGELSANG



VOGELSANG



Rotary pump

- Up to 1,000 m³/h and 16 bar
- For liquid media up to high-viscosity sludges
- Wear-resistant for solid particle laden media
- Excellent suction performance up to 7 m
- Safe to run dry and dry self-priming
- Gentle product delivery
- Low pulsation
- In stainless steel or grey cast iron

Ideal for: Loading and unloading of bio-diesel and refined products, biogas plants, wastewater sludges, sewage wastewater disposal, feeding oil separators, paper sludges, chemical sludges, slurries ...



RotaCut

- Up to 1,200 m³/h
- Reliable macerating of coarse and fibrous materials
- Homogenization of media flows
- Separation of solids
- Effective protection for downstream pumps and system components
- Preventing blockages by means of the auto-reverse function (reversing of the rotation direction of the blade rotor)
- Automatic re-sharpening of the cutting edges

Ideal for: Food maceration processes, waste material disposal, charging of small-scale sewage treatment plants, protection of mobile pumping systems ...

Leistritz

Leistritz



Screw Pump

- Up to 5,000 m³/h and 100 bar
- Temperatures up to 300 °C
- For low-viscosity and high-viscosity media
- Short-term delivery of gas contents of up to 100%
- Outstanding suction capacity, low NPSHr-value
- Safe to run dry
- Steel, stainless steel or duplex version
- Pulsation-free – constant operation API 676-compliant

Ideal for: Crude oil, heavy oil, slop oils, refinery products, large volume loading and unloading, multi-phase pumping, oil emulsions, process chemistry, bitumen, lubricating oil ...

Wangen



Hygienic Twin Screw Pump

- Up to 100 m³/h and 25 bar
- Temperatures up to 130 °C
- Viscosities from 0.8 mPas to 100,000 mPas
- Pulsation-free pumping
- Excellent suction capacity
- Ideal for gentle delivery of large items
- Pumping and cleaning (CIP-Cleaning in Place) by using only one pump eliminates the need for an additional CIP-centrifugal pump
- Dry-run safe

Ideal for: Dairy products, butter, baby food, processed cheese, cheese curd, cocoa mass, tomato paste, raw mixture, dough, spreads, syrup, malt extract, cosmetics, pharmaceutical products, paints, varnishes ...



MOUVEX C



Seal-less Eccentric Piston Pump

- Up to 36 m³/h and 9 bar
- Seal-less – zero emissions according to TA Luft
- Thin to viscous fluids
- Dry-run safe and dry self-priming
- Extremely gentle product delivery
- Pulsation-free
- Hygienic design – CIP version
- Temperatures up to 170 °C

Ideal for: Dairy products, sugary solutions, egg mass, chocolate, sauces, syrups, flavourings, essences, additives, pharmaceutical products. A variety of chemical applications for paints and varnishes, toxic liquids, as well as highly abrasive and corrosive materials ...



ALMATEC BIOCOR



Aseptic Pumps

- Up to 17 m³/h and 7 bar
- Temperatures up to 300 °C
- Compliance with the most important hygiene standards
- CIP compatible
- Surface roughness of < 0.4 μm
- Seal chamber system for diaphragm monitoring
- Gentle delivery, continuously adjustable
- Dry-run safe – dry self-priming
- Seal-less – emission-free.

Ideal for: Pharmaceutical industry, bio- and food product industries, as well as for other applications with high hygiene requirements ...



JEC PUMPS JEC



Hygienic Rotary Lobe Pump

- Up to 100 m³/h and 30 bar
- Temperatures up to 250 °C
- For high viscosities
- Dry-run safe – no contact with metal
- Unique sealing concept
- High-quality 0.6-Ra-surface finish
- Reversible operation
- Optional alloy 88- rotors (no galling)

Ideal for: Dairy products, ice cream, syrups, soups, sausage products, chocolate, beer mash, fruit concentrates, animal and vegetable fats, enzymes, pharmaceuticals, cell suspensions, chemical applications ...

Sawa PUMPE SAWA



Hygienic Centrifugal Pumps

- Up to 240 m³/h and 10 bar
- Temperatures up to 145 °C
- Dead-space-free design in accordance with EHEDG
- AISI 316L-material – electropolished
- Abrasion-resistant versions
- Self-priming, even with gaseous media
- Highly innovative, Swiss quality product

Ideal for: Dairy products, sugar solutions, sauces, fruit juices, beer, alcohol, pharmaceuticals, biotechnology, infusion solutions, ultrapure water, herbal extracts, perfumes, colorants, chemical applications ...

POMPE E MACCHINE ENOLOGICHE LIVERANI



Impeller pumps

- Up to 40 m³/h and 3 bar
- For low to high viscosities
- Dry self-priming
- Food-compatible design
- Reversible operation
- Insensitive to solids
- Mobile version
- Simple to use and service

Ideal for: Wine, beer, fruit juices, fruit pulp, syrup, oils, emulsions, starch, liquid soap, cream, solids-laden wastewater, light chemicals ...

GRACO



Hygienic Drum Unloader Systems

- Up to 34 m³/h and 83 bar
- For very high viscosities up to 500,000 mPas
- Evacuation efficiency of up to 99% for the residue-free emptying of containers
- Self-adjusting follower plate for different barrel sizes up to 1,135 L in capacity
- Solutions with piston or diaphragm pumps

Ideal for: Tomato paste, butter, cheese, concentrates, jams and jellies, cosmetics, oils, fats, liquid sugar, cremes, sugar, syrup, toothpaste, chemicals, emulsions ...



BLAGDON



Air Operated Diaphragm Pumps

- Up to 53 m³/h and 16 bar
- Dry run safe and dry self-priming
- For low to high viscosities
- Seal-less – emission-free
- Insensitive to solids
- Mobile and continuously adjustable
- Metal or plastic execution
- Hygienic version for food products

Ideal for: Solvents, paints, varnishes, resins, latex, emulsions, ceramic slurry, chamber filter press loading, chemicals, pharmaceuticals, cosmetics, food products ...



ALMATEC



Air Operated Diaphragm Pumps

Solid plastic construction made of PP or PTFE with metal-free and lubricant-free control valve

- Delivery rate up to 48 m³/h
- Delivery pressure up to 16 bar
- Highly wear-resistant design
- Corrosion-resistant high precision execution
- Diaphragm-burst monitoring
- Backflush system for drainage
- Active pulsation damper

Ideal for: Clean room applications in the semiconductor industry, process chemicals, solvents, paints, varnishes, resins, powders, cosmetics, water treatment, filter press feeding ...



maag
Part of Pumo Solutions Group

MAAG



High-performance Gear Pumps

- Pumping capacity up to 150 m³/h
- Delivery pressure up to 200 bar
- Liquid to highly viscous media
- Precise displacement volume
- Highly safe and leak-proof
- Self-priming
- Heating and cooling jackets
- Highly innovative Swiss quality product

Ideal for: Process chemicals, solvents, paints, varnishes, resins, additives, silicones, waxes and paraffins, liquid sulphur, fibrous materials, fats, liquid-solid mixtures, aqueous solutions, suspensions, dispersions ...

ABAQUE
PERISTALTIC HOSE PUMP

ABAQUE



Peristaltic Pumps

- Up to 77 m³/h and 15 bar
- Extremely abrasion-resistant
- Self-priming up to 9 m
- Seal-less and dry-run safe
- Thin to extreme viscous fluids
- Extremely gentle product delivery
- Precision dosing

Ideal for: Abrasive sludges, lead sulphate, ceramic slurry, liquid gypsum, lightweight concrete, acids, alkalis, flocculant dispersions, latex, adhesive, liquid salts, concentrates, fibrous materials, acrylic paints ...

Steimel

STEIMEL



Gear pumps

- Up to 90 m³/h and 25 bar
- Temperatures up to 300 °C
- Viscosities up to 80,000 mPas
- Low pulsation
- Integrated overflow valve
- Heating jacket
- Reversible operation

Ideal for: Lubricants, paints, varnishes, resins, glue, binding agents, thermal oils, biofuels, chocolate mass, concentrates, bitumen, tar, molasses, plastics, waste oil ...

M-Pumps Metall



Magnetic Coupled Seal-less Centrifugal Pump

- Up to 4,000 m³/h and 80 bar
- System pressure up to 1,500 bar
- AISI 316, Duplex; Hastelloy a. o.
- Temperatures ranging from -150 °C to +400 °C
- Hybrid shroud for optimum efficiency
- Peripheral impeller-type and rotary vane pumps for small flow rates
- ISO 2858 or API 685 standard



Ideal for: Refinery and petrochemicals, process chemicals, LPG, solvents, salt water, toxic and explosive liquids, boiler feed water, cryogenic technology, thermal oil ...

M-Pumps Plastic



Magnetic Coupled Seal-less Centrifugal Pump

- Up to 140 m³/h and 6 bar
- Sophisticated seal-less magnetic-coupling using rare earth magnets
- Temperatures up to 90 °C
- PFA lining or PP, respectively PVDF solid
- Self-priming execution
- Peripheral impeller for small flow rates



Ideal for: Chemical applications, acids and alkalis, tank storage, electroplating, ultra-pure liquids, toxic media, crystallizing liquids ...

BUNGARTZ BUNGARTZ

Special Centrifugal Pumps

- Up to 1,600 m³/h and 14 bar
- Dry-run safe and cavitation-free
- Special version for NPSHr < 0.01 m
- Self-regulating vertical pumps
- Contactless hydrodynamic sealing
- Seal-less magnetic-coupling
- Ex-versions for Zone-0
- Temperatures up to 300 °C



Ideal for: Emptying of tank trucks, container emptying, boiling and highly gassing liquids, molten salt, fertilizer production, chemical and pharmaceutical industry, power plant technology, refineries ...



FINDER



FINDER

Centrifugal Process Pumps

- Up to 4,000 m³/h and 200 bar
- Cast iron AISI 316, Duplex; Hastelloy a. o.
- Temperatures ranging from -100 °C to +400 °C
- Multiple seals with pressurized buffer systems
- Inducers for the lowest NPSH values
- API 610-or ISO versions
- Engineered pumps for process applications

Ideal for: Upstream, midstream and downstream oil and gas applications, crude oil and refinery products, biofuels, process chemicals, liquid gas, solvents, salt water, toxic and explosive liquids, boiler feed water, cooling circuits, pharmaceuticals ...

FINDER



FINDER

Vertical Process Pumps

- Up to 3,500 m³/h and 80 bar
- Up to 10 m lineshaft length
- Single or multi-stage version
- Product or externally lubricated bearings
- Cast steel AISI 316, Duplex, Hastelloy a. o.
- Vertical barrel-type pumps for lowest NPSH values
- API 610 in the VS1-, VS4- or VS6 configuration

Ideal for: Oil pipelines, petrochemicals, molten salt, fertilizer production, lubricating oil supply for compressors and gas turbines, tank storage, industrial wastewater and slop, salt water, underground drainage ...

FINDER



FINDER

Liquid Ring Vacuum Pumps

- Suction capacity up to 1,800 m³/h
- Suction pressure up to 33 mbar
- Multiple versions for highest vacuum
- Driving power up to 160 kW
- Monoblock versions for OEMs
- Complete skid-mounted vacuum pump systems with sensors, valves, separators, coolers, etc.

Ideal for: Drying systems, degassing, vacuum distillation and crystallization, sterilization, power plants, plastic production, food industry, central vacuum systems ...

TSURUMI



Submersible Drainage Pumps

- Up to 800 m³/h and 120 m delivery head
- 100% dry-run safe
- Double mechanical seal with patented oil lifter system
- In aluminium, grey cast iron or highly wear-resistant chromium casting
- chromium casting
- Unrivalled long service life
- Simplest maintenance
- Optional integrated level probe

Ideal for: Tunneling, underground engineering, civil and industrial drainage, shaft pump, flood protection, mobile universal pumps, bentonite suspension, sand sludges ...



FAGGIOLATI



Submersible Waste Water Pumps

- Up to 2,000 m³/h and 70 m delivery head
- Driving power up to 350 kW
- Double mechanical seal
- In bronze, stainless steel, Duplex, or Hastelloy
- Polyurethane coating against abrasion
- Highly efficient hydraulic system
- Large free passage for solids

Ideal for: Salt water, industrial wastewater, chemical applications, sludges, ceramic slurry, cutting equipment for paper and textile wastewater, special submersible pumps ...



VARISCO



Self-priming Centrifugal Pumps

- Up to 1,200 m³/h and 100 m delivery head
- Extremely quick priming and venting
- Sealing system with dry-run capability
- Vacuum system for dry suction
- Grey cast iron, bronze, or stainless steel
- Large free passage for solids
- Electric or diesel engine drive

Ideal for: Water table drawdown, drainage, emergency pumps in case of flooding, water supply, abrasive sludges, salt water, industrial wastewater, chemistry applications, tanker emptying, bentonite, drilling muds, low-viscosity sewage sludges ...



ANDRITZ ANDRITZ



Centrifugal Pumps

- Up to 6,000 m³/h and 16 bar
- High-grade wear protection
- Efficiency over 90%
- Free-flow pumps for solids up to 140 mm
- Extremely low-vibration design
- Optimal partial-load behavior
- Lowest possible life cycle costs

Ideal for: Chemical industry, paper and pulp industry, alkalis, water supply, cooling circuits, fibrous materials, abrasive sludges, wastewater treatment and transport, sugar industry, power plant technology ...

EDUR EDUR



Special Centrifugal Pumps

- Multiphase pumps
- Free-flow pumps for media with a high solids content of up to 80 mm in grain size
- Space-saving in-line block pump
- NPSHR up to 0.5 m for cavitation-free feeding
- Self-priming construction
- Vertical submerged pumps without shaft seal for aggressive liquids

Ideal for: Coolants used in refrigeration and air-conditioning systems, flotation units, water treatment, delivery of lubricating oil with high cutting content, surface technology, filtration, apparatus engineering, plant engineering with special pump series ...



DP-Pumps



Vertical Stainless Steel Centrifugal Pumps

- Up to 110 m³/h and 40 bar
- Temperatures up to 140 °C
- Modular hydraulic design with high-quality components made of stamped stainless steel
- Pump foot made of cast stainless steel
- Vertical multi-stage inline pump
- Complete pressure boosting units with control system

Ideal for: Pressure boosting, water supply, car washes, boiler feed water, cooling and hot water, water treatment systems, drinking water supply, process industry, fire-fighting systems ...

CAPRARI

caprari

Wastewater Pumps

- Up to 2,400 m³/h and 70 m delivery head
- Nominal size up to DN350
- Free-flow-, single-channel or double-channel impellers
- Solids up to 164 mm
- Cutter for fibrous solids
- Submersible and dry-installed pumps
- Double mechanical seal with sensor monitoring
- Integrated temperature monitoring



Ideal for: Communal and industrial wastewater, low-viscosity sludge, power plants, sewage treatment plants, wastewater pump stations, drainage, cooling systems ...



CAPRARI

caprari

Electric Submersible Pumps

- Up to 1,300 m³/h and 600 m delivery head
- Submersible motor power of up to 400 kW
- High overall efficiency
- Reliable operation under challenging running conditions
- Abrasion-resistant versions
- Grey cast iron, stainless steel, or bronze
- World's leading manufacturer in water supply

Ideal for: Drinking water supply and irrigation from deep wells, water distribution systems, cooling water, water treatment, power plants, lowering of groundwater table, salt water industrial water supply ...



CAPRARI

caprari

Dry-installed Centrifugal Water Pumps

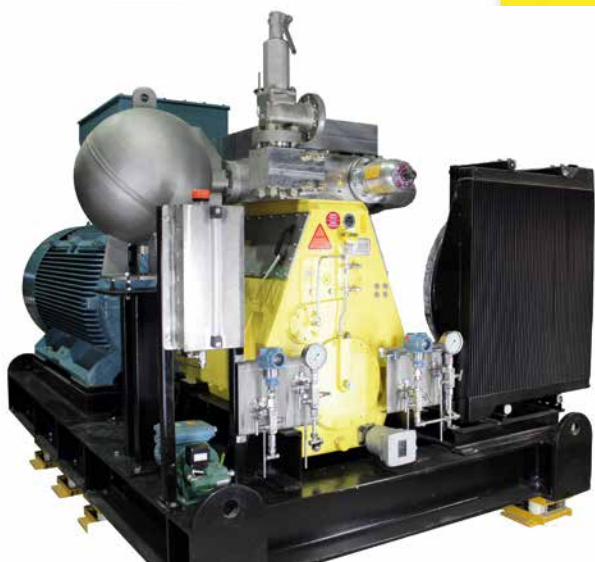
- Up to 2,800 m³/h and 1,000 m delivery head
- Driving power up to 650 kW
- Horizontal or vertical versions
- Grey cast iron, spheroidal graphite iron or stainless steel
- Extremely high efficiency
- Coupled electric motor or free shaft end for internal combustion engine or other drives

Ideal for: Drinking water supply, irrigation, snow-making facilities, water distribution systems, cooling water, water treatment, power plants, fire extinguishing systems, gravel plants, pressure boosting, industrial water supply ...



HAMMELMANN®

HAMMELMANN



Process Plunger Pump

- Up to 115 m³/h and 3,000 bar
- Shaft power up to more than 1 MW
- Hydraulic efficiency between 93 % and 98 %
- Temperatures up to 200 °C
- Ceramic or tungsten-carbide plunger
- Housing made of stainless steel or special alloys
- For pure and particle loaded liquids
- Long service life for continuous operation
- Optional leakage-free version with pressurized sealing system

Ideal for: Salt water injection on oil fields, process pumps for chemical plants, dosing applications, petrochemistry, refineries, methanol, fatty acids, steel plant descaling, high-pressure descaling, acrylates ...



PRATISSOLI



High-pressure Water Plunger Pump

- Up to 54 m³/h and 1,500 bar
- Driving power up to 330 kW
- Triplex plunger pump for high pressures
- Spheroidal graphite iron, bronze and stainless steel
- Extremely high efficiency
- Extensive range of accessories such as nozzles, pulsation dampers, pressure regulation, cleaning lances, etc.
- Optional: complete systems in a mobile container construction

Ideal for: High-pressure cleaning systems, disposal technology, pressure testing systems, water-jet technology, reverse osmosis desalination, screen cleaning, atomized spray, salt water ...



HNP Mikrosysteme



Micro Annular Gear Pumps for Precise Dosing of Lowest Volumes

- Pumping capacity of 1 µL/h to 1.1 L/min
- Dosage volumes starting from 0.25 µL
- Dosing accuracy better than 1%
- Max. delivery pressure 150 bar
- Extremely low levels of pulsation
- Valve-free pump with low dead volume
- Self-priming
- Thin to viscous fluids

Ideal for: Analytical technology, biotechnology, drug filling, pharmaceuticals, fine chemicals, chemical mini-plants, dosage of adhesives, minimal quantity lubrication, component mixing, ink-jet printing technology, fuel cells ...



HIFLUX



Self-cleaning Filtration Technology

- Filtration capacity up to 150 m³/h
- Filtration pressure up to 16 or 25 bar
- Filtration fineness from 30 µm to 2,000 µm
- Edge-gap type filter or laser-drilled filter elements
- Self-cleaning with minimal product loss
- Fully automatic controls
- Geared motor or pneumatic drive



Ideal for: Paints, varnishes, resins, adhesives, oils, lubricants, gasoline, biodiesel, pharmaceuticals, cosmetics, food products, toothpaste, syrup, process water, cooling water ...



SUPRATEC



Ultra-filtration with Polymer Membranes

- Nominal pore size 0.03 µm
- Retention of the smallest particles, including bacteria and most viruses
- High flow rates versus other polymer membranes
- Immersed flat or hollow fiber membrane modules
- Modular filter cartridge arrangement with high packing density
- Membrane material: either PVDF or PES

Ideal for: Water treatment plants (final stage), wastewater treatment, industrial water and greywater treatment, drinking water treatment, groundwater, surface water ...



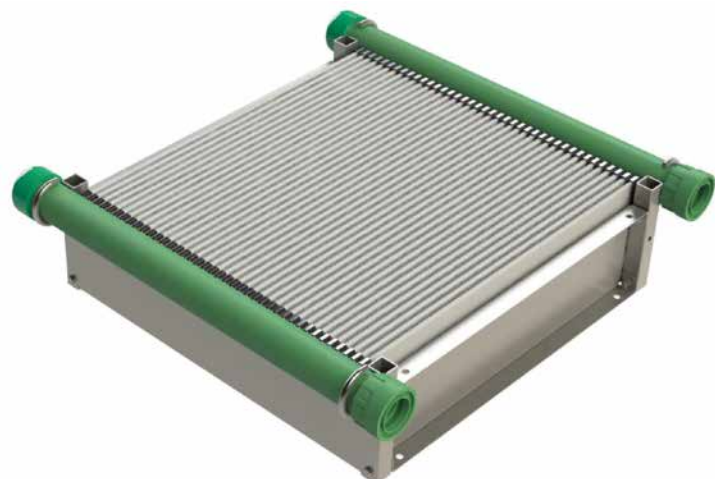
CEMBRANE



Micro-filtration with Ceramic Membranes

- Nominal pore size 0.1 µm
- Retention of the smallest particles, including bacteria
- Unprecedentedly high flow rates for high filtration capacities
- Immersed flat membrane modules
- Unlimited filtration area by combining preassembled 6 m² modules
- High resistance SiC filter material for any number of filtration cycles

Ideal for: Drinking water treatment from ground and surface water, produced water filtration on oil and gas fields, landfill leachate, prefiltration for reverse osmosis, thickening of backwash water, industrial wastewater ...



Metal Works

SONNEK has a fully equipped metal construction site in Ternitz. Based on the in-house calculations and CAD planning, the manufacturer carries out a vast range of mechanical and hot forming processing steps on steel and stainless steel. A special focus lies on welding constructions, using state-of-the-art welding procedures in the factory and on-site. When it comes to plastics, the manufacturer primarily works with PVC, PP and PE. SONNEK also offers various further metal processing procedures, such as sandblasting, powder coating, hot-dip galvanizing, galvanic zinc coating, passivating, pickling, etc.

Main Areas of Metal Works:

- Ventilation systems in normal and explosion-proof designs
- Air purification and dust removal systems
- Steel support structures
- Industrial platforms, stairs and railings
- Sound insulation systems
- System cladding and system cabinets
- Industrial ovens
- Metal constructions in wastewater treatment plants
- Special container construction
- Tank construction

Our Certifications :

- EN ISO 9001
- OHSAS 18001
- EN 1090-1, Support structures and components of steel up to EXC2 according to EN 1090-2
- EN ISO 3834-3, Welding procedures 135, 141
- EN ISO 9606-1, Qualification testing for all welders and welding procedures
- Procedure tests for materials and welding procedures according to DIN and ASME, as required
- Complete static testing, as required





Oil and Gas Field Solutions – Upstream

The existing oil fields produce, in the course of time, in addition to oil considerable quantities of reservoir water that can be several times the volume of the extracted oil. The high-pressure reinjection of reservoir water can, however, multiply the total oil production of an oil field (EOR – enhanced oil recovery). Since the beginning of the year 2000, SONNEK has been developing and manufacturing turnkey systems to treat, boost and finally pump the reservoir water under high pressure into the reservoir through flood wells. The plug-and-pump systems are prefabricated and tested as container or skid constructions, being, after a simple installation on-site, ready for operation. Since the operating locations are often in hard-to-reach and inhospitable areas, such as deserts, rainforests or cold regions, the systems are designed for maximum operational availability and minimum maintenance requirements. The systems are equipped with an intelligent control with remote access, thus allowing for an unmanned, 24/7 continuous operation. To the present day, SONNEK has built over 100 turnkey systems that are operating smoothly all around the world. In the event of changed requirements in the oil field, individual modules can be replaced quickly and easily.

SONNEK provides the complete engineering and system design, manufactures the modules, runs the factory acceptance testing, as well as the on-site commissioning and carries out the scheduled service and maintenance work.





SONNEK WATER TREATMENT MODULES

Technical specifications:

- Flow rate: Up to 265 m³/h (40,000 bpd) per line
- Multi-stage treatment process depending on the requirements (see the SONNEK water treatment solutions)

SONNEK INJECTION MODULES

Technical specifications:

- Flow rate: Up to 150 m³/h (22,500 bpd) per module
- Outlet pressure: Up to 700 bar
- Driving power: Up to 1,100 kW (electric motor or combustion engine)

SONNEK BOOSTER MODULES

Technical specifications:

- Flow rate: Up to 1,000 m³/h (150,000 bpd) per module
- Outlet pressure: Up to 40 bar

SONNEK OIL LOADING MODULES

Technical specifications:

- Flow rate: Up to 500 m³/h (75,000 bpd) per module
- Outlet pressure: Up to 60 bar





Water treatment

Wastewater treatment

SONNEK develops and operates turnkey integrated solutions for the treatment of water, wastewater and other liquids. SONNEK has been planning and implementing sustainable treatment systems for over 20 years, with the goal of fulfilling customer-specific requests. The range of solutions extends from mechanical prefiltration and physical separation over chemical treatment stages to ultra-filtration and sludge dewatering. Here too, the general planning, production and responsibility come from one source.

Scope of service:

- Custom-made concepts for each type of wastewater piloting
- Project execution from initial design through to commissioning
- System operation and maintenance
- Modernization of existing systems during operation

Areas of application:

- Oil and gas fields – reservoir water
- Hydrocarbon and oil containing wastewater – metal processing, refineries
- Treatment of industrial and municipal wastewater
- Desalination and drinking water treatment
- Washing water treatment
- Tunnel water treatment – tunneling
- Washing water for paints and varnishes
- Washing water for food products





SONNEK WATER TREATMENT SOLUTIONS INCLUDE A VARIETY OF TECHNOLOGIES, SUCH AS:

- Oil separation, using coalescing corrugated plate separators, hydro-cyclones, or a combination of both procedures
- Chemical cleaning stages, using flocculation and emulsion breakers
- Flotation systems for the increased removal of oil and solids
- Biological purification processes (MBR, MBBR, SBR, biofilters)
- Fine filtration via multilayer filters or mechanical self-cleaning filters
- Micro- and ultra-filtration, using polymer or SiC membranes
- Reverse osmosis (RO)
- Final filtration stages, using walnut shell filters or activated carbon adsorption filters
- Sludge thickening and dewatering using centrifuges, belt filters, bag filters or chamber filter presses
- Dosing systems for oxygen absorbers, biocides, corrosion inhibitors or polymers.

System Construction and Special Machines

The highly qualified SONNEK engineering team designs and completes turnkey systems and machines. Based on the 'one-stop-shop' principle, SONNEK provides the planning, design (3D CAD), assembly, commissioning and servicing from one source. This includes, inter alia, piping systems of all pressure levels, made of various materials, such as steel, stainless steel, duplex or plastic. The complete systems for liquids and gaseous materials comprise, in addition to the support structure, all essential elements, such as pumps, filters, fittings, tanks, pressure vessels, sensors, heating, ventilation, cooling, etc., as well as the complete appropriate control system. The execution of the systems is carried out in compliance with all current international standards. In the food and pharmaceutical industry and, increasingly, also in applications with high cleanliness standards, such as the production of paints and varnishes, the execution takes place according to the latest hygiene standards. The company's customer base includes all major industrial sectors, such as the oil, chemical, construction, food, pharmaceutical, paper and metal industries, as well as utilities and infrastructure companies.

Based on the application requirements of its customers, SONNEK designs and manufactures completed systems which include but are not limited to the following components:

- Pumps, screw conveyors, agitators, fans, compressors
- Self-cleaning filters suitable for anything from coarse separation to micro-filtration
- Sensors for pressure, flow, temperature, level, etc.
- Pipelines, special fittings, standard connections
- Integrated tanks with heating and cooling jacket
- Electric, hydraulic or combustion motors
- Electric control, including data transmission and remote control

Our custom-made complete solutions have a wide range of applications, including:

- Tank depot management
- Drainage technology in underground mining
- Food transport and chemical dosing
- Paint and varnish filtration
- Disposal technology
- Pressure boosting and pressure testing
- Cleaning technology
- Emergency systems





Special System Construction Railway and Construction

SONNEK systems are turnkey solutions designed for a fully automated, continuous operation under the toughest operating conditions. SONNEK employs the optimum pump technology that has proven itself in railway applications and on construction sites worldwide. SONNEK plans and builds complete solu-

tions in close cooperation with operators and technical offices, in order to ensure a reliable and smooth operation under difficult environmental circumstances, given the fact, that the whole operating sequence and, ultimately, the security of persons depend on the proper operation of these systems.

Railway Applications:

- Stationary extraction and supply systems for trains
- Mobile extraction systems
- Specially developed VEBSYS control system:
Real-time centralized monitoring of the entire operation and of all relevant data, such as flow, pressure, power consumption, extraction times, fault messages, etc.
- Remote control of all systems
via VEBSYS central control system
- Camera surveillance

Civil Engineering Applications

- Tunnel drainage, using stationary or mobile pumping systems
- Systems for lowering groundwater tables
- Pressure-boosting systems
- High-pressure cleaning systems
- Wastewater disposal
- Media supply
- Dosing systems for construction chemicals



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... our business partners, service providers and suppliers for their professional, trusting and long-term cooperation. This is the foundation on which we build our success.

We are looking forward to continue our work with you that enables us to always offer our clients the perfect solution for their needs.



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a few product lines, making it possible to adapt to the respective operating conditions. The longstanding expertise in the delivery of various media enables the creation of designs that meet the modern requirements.

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Maintenance, Repair and Optimization of Pumps and Systems

SONNEK is a specialist in the industrial service field. SONNEK carries out the preventive maintenance, the servicing and repair for the pumps and systems from its own production, as well as for any third-party products supplied. Particular emphasis is placed on the „life-cycle costs“, i.e. the costs caused by a pump system, starting from its planning over its delivery, installation, operation and maintenance to its uninstallation and disposal. Modern measuring methods and professional evaluations allow the achievement of improvements that can reduce costs by up to 50%.

Business activities:

- Capturing of the most important data on site, such as: flow, pressure, temperature, electrical power, vibration, etc.
- System analysis and optimization concepts
- On-site repairs, including pipeline work
- Laser alignment of pumping units
- Repair of shafts, shaft sleeves and mechanical seals
- Spare parts procurement or production
- Coating of worn and corroded plant components with ceramic coating materials
- Electric motor inspection and repair
- Checking and rewinding of submersible motors
- Optimization of energy use
- Commissioning and training
- Performance testing on SONNEK's own pump test stand at a connected load up to 200 kW



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