



ZEILFELDER
PUMPEN

english



made in Germany

stronger

up to:

120 bar

up to:

450 °C

up to:

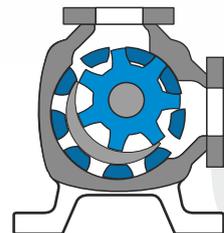
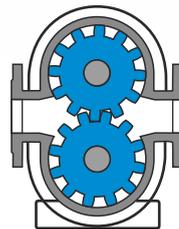
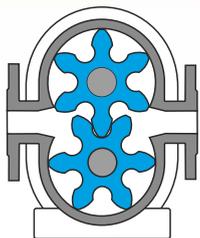
1.400 Pas

up to:

$\eta = 92\%$

explosion proof
self priming
running dry capability
wear-resistant

API
ATEX
TA-Luft
FDA
GOST-R



ROTARY LOBE PUMPS

GEAR PUMPS

ZEILFELDER

HIGH PERFORMANCE

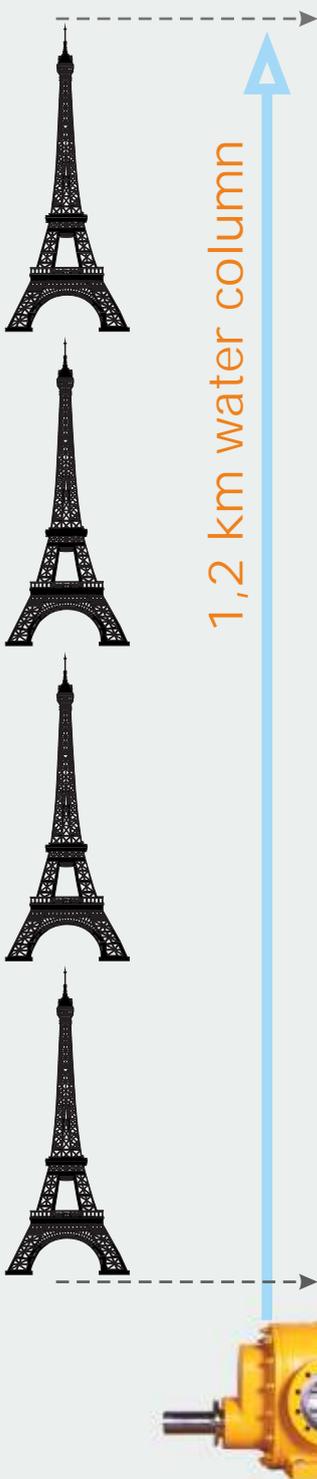
PUMPS

a trademark of



www.zeilfelder-pumpen.com

up to
120 bar



A trademark of
 **ASM
DIMATEC**

made in Germany

ZEILFELDER HIGH PERFORMANCE PUMPS

ADVANTAGES & HIGHLIGHTS

With our diverse standard and high performance pumps we are able to serve all your needs and response to any challenge.

Our displacement pumps are robust, self-priming and have running dry capability.

API, ATEX, FDA, GOST-R and TA-Luft compliant

Zeilfelder pumps are specially designed for*:

- complex and difficult challenges
- dosing (repeat accuracy > 99 %)
- pressure up to 120 bar
- suction heights up to 8 m
- flow rates from 0,03 to 28.500 l/min, 0,03 m³/h to 1713 m³/h.
- viscosity from 0,3 to 1.400.000 mPas
- temperature from -60°C to 450°C
- dosing (repeat accuracy > 99 %)
- explosive und toxic substance
- liquids containing solids (up to 90%)
- liquids containing shear sensitive materials (for example fruits)
- polymerizing or coagulating liquids
- liquids containing cristals or fibers

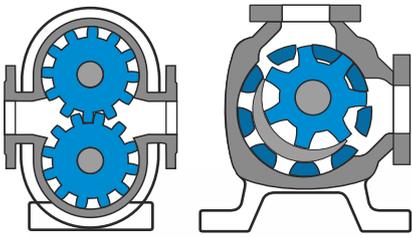
Advantages*:

- pumps made off all suitable materials
- high durability through high-end bearings and special coatings
- low energy consumption and high efficiency up to 92% through:
 - lowest manufacturing tolerance
 - special design
- interchangeable thrust segments (axial bearings)
- dry running capability
- self priming
- nearly pulsation free at different viscosities
- revolution speed adapted to medium
- non-destructive pumping holding clipping under 5%
- dual rotation direction
- no valves

Optional:

- packing glands
- simple acting mechanical seal
- double acting mechanical seal
- hermetic capsuled with Magnetic drive (direct or indirect)
- explosion proof
- heating jacket (for water, steam or heating oil)
- minimal surface roughness down to 4 μ through electropolishing

**depending on the pump type and serie*

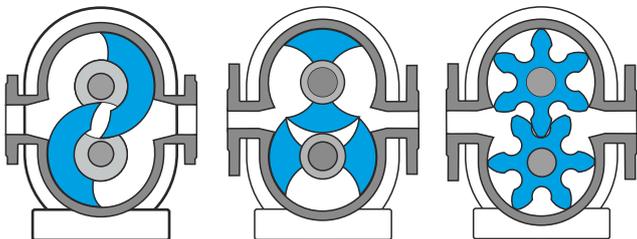


ZEILFELDER
HIGH PERFORMANCE
GEAR PUMPS

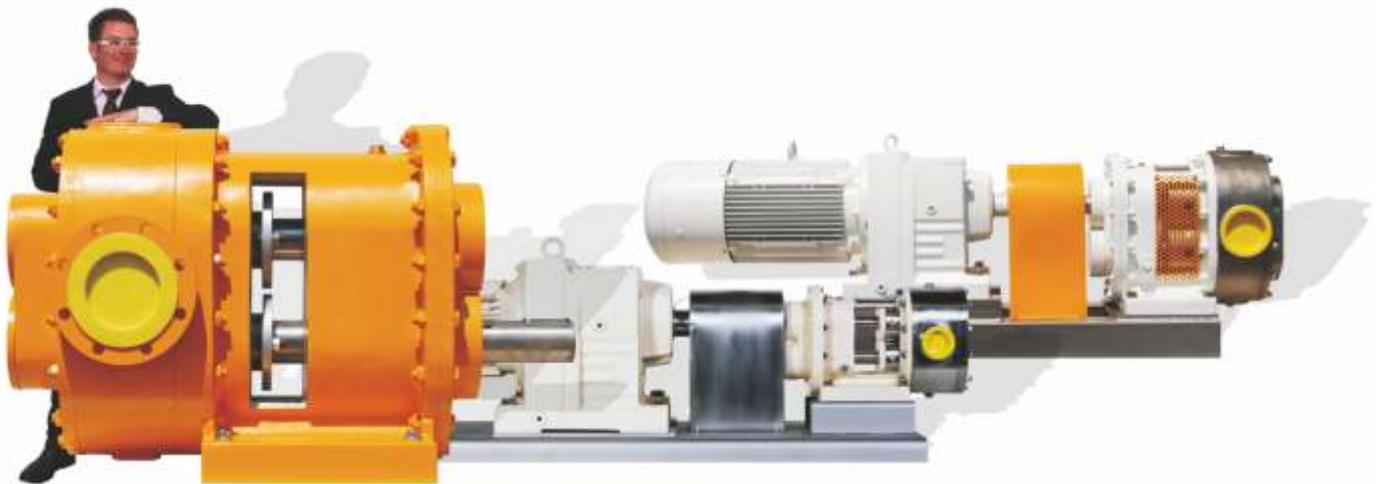


- pressure up to 120 bar
- flow rates from 0,005 to 15.000 l/min
- flow rates from 0,0003 to 900 m³/h

- suction heights up to 8 m
- viscosity from 0,6 to 260.000 mPas
- temperature from -60°C to 320°C



ZEILFELDER
HIGH PERFORMANCE
ROTARY LOBE PUMPS



- pressure up to 64 bar
- flow rates from 0,023 to 28.548 l/min
- flow rates from 0,0014 to 1.713 m³/h

- suction heights up to 8 m
- viscosity from 0,3 to 1.400.000 mPas
- temperature from -60°C to 450°C

INDUSTRIES

Our products portfolio offer pumps for most application. We offer explosion proof and seal-less pumps for the petrochemical industry, pumps with minimal surface roughness for the pharmaceutical and food industry and high pressure pumps for dynamic applications etc. Our pumps have proven their quality and efficiency for over 80 years in the following industries:

Chemical industry



To meet the needs of the chemical industry we offer in addition to our conventional pump range, special and custom pumps built out of special materials with high performance coating, heating and cooling jacket, magnet coupling as well as clean room grade.

Petrochemistry



We offer self-priming gear pumps with heating or cooling jacket and seals such as **ATEX**, **"TA-Luft"**, **GOST-R** or **API compliant** to deliver crude oil, additives, fuel or bitumen.

Pharmaceutical industry



To respond to the requirements of the pharmaceutical industry we have designed pumps with reduced surface roughness down to 4μ , CIP cleaning connections and aseptic connections.

Bitumen industry



We offer special low-speed gear pumps with heating jacket to deliver partical free bitumen under working temperatures up to 320°C . Those pumps operate with low-wear and are long lasting due to low revolution speed and special covering.

Automotive industry



We build pumps to deliver wax, glue and paintings in accordance with the requirements of the automotive industry.

Regenerative energy & Biogas



Our T-Rex pump range is designed to meet the requirements of the regenerative energy sector. They deliver biomass, liquid manure, silage in biogas plants. Their design makes them highly durable. Our pumps are used in nuclear plants to deliver highly concentrated acids.

Solutions for all industries

in all requested certifications

Shipping and offshore industry



We offer maritime-grade rotary lobe pumps for offshore applications to deliver heavy oil and machine lube oil. We offer rotary lobe pumps to load and unload liquid chemicals, oil and bitumen filled with solids.

Building industry



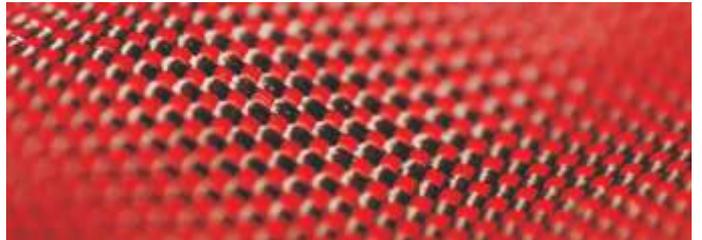
Our pumps deliver primary materials, protective agents, white cement, glue, silicone, waste water and filled bitumen for the building industry. We offer pumps for high temperature applications with heating jackets.

Food and candies industry



Our stainless steel CIP rotary lobe pump range is [FDA compliant](#) and particularly suitable for the meat and animal feed industry. We offer special pistons avoiding caramelization for sugar based products as chocolate. Our high volume pumps with low-revolution speed can pump liquids with shear sensitive solids as strawberries and nuts while holding clipping under 5%.

Fiber industry



We offer pumps with high systemic pressure and high dosing precision (optional with heating jacket) to deliver synthetic fibers, finishing agent, pigments loaded paints and dyestuffs.

Delivering solids



Our rotary lobe pumps are specially designed to pump liquids with high concentration of solid particles or abrasive products as well as cuttings with cooling lubricant.

Metallurgy



Rotary lobe pumps with heating jacket dispatch furan resins and refractory finishings in foundries, mercury, gallium, zinc alloy and stibium alloy up to 450°C.



High performance pumps over 80 years

The Uniqueness of Zeilfelder - Pumps

Customers worldwide trust the exceptional reliability of our Products „Made in Germany“.

Our quality standards have been shaped by over 80 years of experience in pump manufacturing and engine and plant engineering.

High durability, solid and innovative construction and quality control are the outstanding traits of our pumps. All components of the pumps are manufactured in Germany. Third party components are manufactured by major German firms.

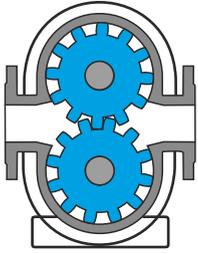
Besides, we guarantee a quick and efficient service. Service plans can be adapted to the customers' requirements at any time.

Zeilfelder - Pumps: Over 80 years of commitment to innovation and development

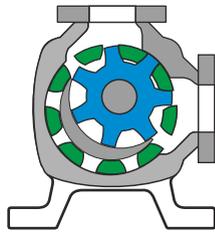
- 1924 Development and distribution of the first foam-free conveying rotary piston pump for the soap industry
- 1932 Patent for screw spindles and pumps
- 1936 Development of first gear pump with special gears for high viscosity fluids
- 1939 Delivery of first rotary piston pump for foam-free recirculation for multi-stage carbody paint immersion
- 1940 First rotary piston pump worldwide for non-greasing mediums with high viscosity, heatable to 450°C
- 1946 Production of externally mountable electric oil-heating jackets
- 1964 Development of first heatable pump station with upstream grinder and feed screw for non-flowing, lumpy mediums
- 1979 Delivery of first mobile coating plants for offshore pipe installation
- 1980 Production of gear pumps with magnetic drive for system pressure up to 100 bar for the petrochemistry
- 1984 First operation of Zeilfelder pumps on frozen, lumpy mediums
- 1985 Patent for a multi-phase mixer for the food and chemicals industry
- 1986 Delivery of spinning pumps with special gear tooth systems for synthetic fiber production
- 1986 Rotary piston counter for volume flow measurement of low and highly viscous mediums
- 1987 Delivery of tantalum and iridium special gear pumps for the pharmacological and oil industry
- 1990 Extension of gear pump to nominal widths of DN 400 und DN 500
- 1992 Construction of the largest gear pump worldwide for the production of heavy oil (5.000 m³/h. at 300rpm)
- 1996 Rotary piston pumps with special designs for specialized application in the food industry
- 2000 Development of world's first mobile bottling plant for liquid detergents in supermarkets
- 2003 Production of heatable filters for the pharmacological industry
- 2005 Manufacturing of automated compact frying-oil cleaning device with specialized pump
- 2008 Marketing of Zeilfelder-Pumps by ASM-Dimatec; usage of ASM-Group services worldwide
- 2011 Launch of the new T-Rex heavy-duty pump series
- 2012 Opening of the new factory in Wolfsburg
- 2012 ZEILFELDER Pumpen achieves API and GOST-R certification
- 2012 Launch of the new ZH-i inner gear pump series

HIGH PERFORMANCE PUMP RANGE

GEAR PUMP



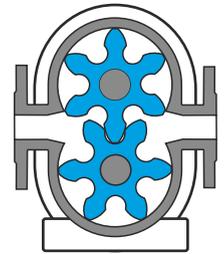
INNER GEAR PUMP



ROTARY LOB PUMP



ROTARY WING PUMP



SPECIAL PUMPS Information to our special pumps can be found under www.zeilfelder-pumpen.com

ZeilfelderGazelle

Your Strawberries stay intact with us



Food industry

ZeilfelderViper

Pumping and gaging explosion proof



Chemical Industry

ZeilfelderPanther

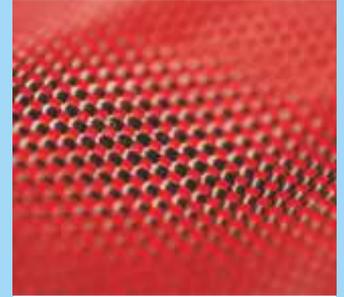
All steps of Cracking-Processes



Petrochemical Industry

ZeilfelderDragon

For fiber and synthetic fiber



Plastic Industry

ZeilfelderTiger

Pumps liquids with solids



Heavy-duty applications

ZeilfelderOrca

High pressure for the shipping industry



Shipping industry

ZeilfelderRaptor

Crushing and pumping from cold storage to can



Animal feed industry

ZeilfelderT-Rex

Pumps biomass in biogas plants



Renewable energy



www.zeilfelder-pumpen.com



ASM DIMATEC reserves itself the right to make changes at any time, without prior notification

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