

Company Portrait

WITTE Pumps and Technology GmbH was founded in 1984 at Uetersen near Hamburg, Germany. The aim of the company was to give its customers the maximum of process safety by providing tailor made solutions for gear pumps.

Customers for high-quality WITTE precision gear pumps come from the Plastics, Chemical, Cosmetic and Foodstuffs industries.

Today, WITTE Pumps and Technology not only produces special solutions for industry but also offers a standard range of pumps. The latest technical innovations are incorporated into the model range, thus ensuring a very high standard of technology. In addition to providing services and spare parts for its own pumps, WITTE also provides comprehensive service packages for gear pumps produced by other manufacturers.

WITTE Pumps and Technology is renowned for its innovative drive, which makes it one of the world-leaders in this market.

The WITTE Philosophy

Through its worldwide presence, WITTE strives to maintain an extraordinarily high standard of customer service. Flexibility in solving technical problems and in handling projects are of the utmost significance. The extremely high level of technology and quality of our pumps ensures the trouble-free operation of processing plants.

WITTE also boosts the motivation of its employees and cultivates their working environment Responsible employees are an important part of the company The health and safety of its employees is very close to WITTE's heart.

WITTE's Quality Policy

Our quality policy is supported by ISO 9001. The quality policy at WITTE is borne by the following aims:

Increasing the satisfaction of all WITTE customers.

The customer specifies the quality and chooses out products to fulfil his guidelines.

WITTE do their utmost to further the continual process of product and process improvement. A constantly high standard of pumps and spare parts and of the acquisition process is ensured by carefully selecting our suppliers and subjecting them to a continual assessment procedure.

The sustained development of improved products is thus supported. It goes without saying that we fulfil all official and legal requirements.











POLY

DISCHARGE PUMPS



BOOSTER

BOOSTER PUMPS



EXTRU

EXTRUSION PUMPS



METERING SYSTEMS



SPECIAL PUMPS



SPARE PARTS/SERVICE

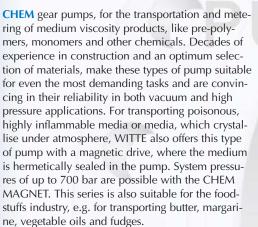




WITTE PUMPS & TECHNOLOGY Supply precision gear pumps that conform to the r

WITTE's comprehensive experience in dimensioning gear pumps to match the most diverse challenges of the requirements. State of the art production processes and stringent quality assurance using 3D co-ordinate-me





Technical Features

Housing

Stainless steel \cdot Hastelloy \cdot Tantalum \cdot Titanium \cdot and Ceramics

Gearwheels

All workable metals and ceramics · Spur toothed

Friction bearing

 ${\it Carbon} \cdot {\it NiAg} \cdot {\it silicon} \; {\it carbide} \cdot \\ {\it zirconium} \; {\it oxide} \; {\it tool} \; {\it steel} \cdot {\it special} \; {\it materials}$

Shaft seals

Single- or double-action mechanical seal \cdot stuffing box \cdot Viscoseal \cdot magnetic couplings

Standard applications

Viscosity

0.5 to 10,000,000 Pas

Temperature

up to 450° C

Inlet pressure

Vacuum to max. 15 bar

Outlet pressure

up to 200 bar

Pump sizes

From 22/6 (1.28 ccm/rev – 20 l/h) to 280/280, intermediate sizes with narrower gearwheels for high-pressure applications are available as standard, e.g. 140/90 (693 ccm/rev).



POLY high-pressure gear pump for the discharge of medium to high viscosity media from the reactor. The extra large inlet opening guarantees an even flow of product to the gearwheels even under vacuum or extremely low NPSH conditions and flow rates. Offered with either a round inlet port, by means of which the suction flange of the pump is directly connected to the outlet flange of the reactor or as a low NPSH version, where the pump is connected between the pump and reactor flanges, in order to achieve an even larger and shorter inlet port. Typical applications are the transportation of PET, PS, PC, ABS, etc.

Technical Features

Housing

Stainless steel · Hastelloy · cast steel

Gearwheels

Nitrated steel, tool steel · special steel · helical gearing · herringbone gearing

Friction bearing

NiAg · AlBz (aluminium-bronze) · tool steel · special materials

Shaft seals

Single and vacuum viscoseal \cdot mechanical seal \cdot stuffing box \cdot magnetic coupling

Standard applications

Viscosity

up to 40,000 Pas

Temperature

up to 350° C

Inlet pressure

Vacuum to max. 40 bar

Outlet pressure

up to 290 bar with helical gearing

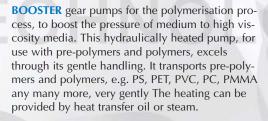
Pump sizes

From 22/22 (4.7 ccm/rev – 10 kg/h) to 280/280 (12,999 ccm/rev – 30,000 kg/h, intermediate sizes with wider gearwheels are available as standard, e.g. 189/270 (4,800 ccm/rev).

most stringent industrial requirements.

ne Chemical, Plastics and Foodstuffs industries ensures optimised pumps and fulfil the highest of quality easuring instruments form the backbone of the WITTE range of gear pumps.





Technical Features

Housing

Stainless steel · Hastelloy · cast steel

Gearwheels

Nitrated steel \cdot tool steel \cdot special steel \cdot helical gearing \cdot herringbone gearing

Friction bearing

NiAg \cdot AlBz (aluminium-bronze) \cdot tool steel \cdot special materials

Shaft seals

Viscoseal · stuffing box

Standard applications

Viscosity

up to 40,000 Pas

Temperature

up to 350° C

Inlet pressure

Vacuum to max. 100 bar

Outlet pressure

up to 350 bar with helical gearing

Pump sizes

From 22/22 (4.7 ccm/rev - 10kg/h) to 280/280.



EXTRU

EXTRU gear pump for the extrusion and pressure boosting of medium to high viscosity media. These hydraulically or electrically heated pumps are used in processes with high suction pressures, in which an increase in pressure is desirable, because of the loss of pressure in follow-on filters and melting pipes. Suitable for polymers like PS, PET, PVC, PC, PMMA etc.

The WITTE EXTRU gear pump is also suitable for foodstuff applications, e.g. liquorice or chewing gum.

Technical Features

Housing

Steel · stainless steel for PVC applications

Gearwheels

Nitrated steel \cdot spur gearing \cdot helical gearing \cdot herringbone gearing

Friction bearing

NiAg \cdot tool steel \cdot ceramic \cdot AlBz (aluminiumbronze) \cdot special materials

Shaft seals

Viscoseal · stuffing boxes

Standard applications

Viscosity

From 1 to 40,000 Pas

Temperature

up to 450° C

Inlet pressure

Vacuum to max. 200 bar

Outlet pressure

up to 700 bar

Pump sizes

From 22/22 (4.7 ccm/rev -5 kg/h) to 280/280, intermediate sizes with narrower gearwheels for high-pressure applications are available as standard, e.g. 140/90 (693 ccm/rev).

Metering Systems

The WITTE metering system (WDS) enable precise volumetric metering of low to high viscosity media with gear pumps, even at high temperatures and pressures. Two series connected gear pumps and one measuring and pressure boosting pump are precisely controlled by a PLC control system, such that a precision of better than 0.01% is achieved, depending upon the medium.



Special Pumps

In addition to our standard range of pumps, we offer a range of special pumps, e.g. made of ceramic, tantalum, titanium or immersion pumps. Many of these pumps are custom built to suit the application in question and its specific operating parameters. WITTE for example produced one such pump, made completely of ceramic, for transporting a highly corrosive medium at temperature 55° C.



Ceramic pumps

Tantalum pump

Gear pumps Spare parts, repairs and optimisation

WITTE spare parts are available world-wide. Extensive storage facilities in Europe, USA and China guarantee the quickest possible delivery of spare parts.

WITTE also supplies spare parts for other brands of gear pump. The range of sizes varies between 22/6 and 280/280 (and for larger pumps upon request).

Send your gear pump to WITTE for refurbishment or repair. Your pump is in the very best of hands, with our highly qualified service engineers. We will make you an attractive offer for the repair, based on a precise itemisation and analysis of the damage It goes without saying that the stringent quality criteria which apply for our pumps also apply for our spare parts.

You can profit from our comprehensive specialist knowledge in the field of gear pumps not only through repair work. In addition to repair work, we can also help you to optimise your existing gear pump. Our experts will gladly discuss the options open for optimising your pump, starting with the WITTE viscoseal technology, which has proven itself over two

decades, up to small but extremely effective detailed solutions on the pump itself.

Simply give us a call and we will make you a non-binding offer. Either we personally or one of our countless local representatives, will be pleased to discuss your problems in person.







WITTE Presence World-Wide

Visit us at: www.witte-pumps.com





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