



TN PUMPS SOLUTION LIMITED

Engineered & Tailored to your
process fully Industry 4.0 enabled

speck



FLUX

OUR PARTNERS

Made in Germany



INFORMATION

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Engineered & Tailored to your process fully
Industry 4.0 enabled

Our goal with our partners Speck & Flux made in Germany to create tailor made engineered liquid & vacuum pump solutions to reduce operating cost, increase reliability and assure connectivity to Industry 4.0 with our self-learning optimized solutions to constantly improve your processes.

TN Pumps Solution is a relatively young company established by product experts with a long history in the pump industry putting their experience to work for you.

TN Pumps Solution is a joint venture between Speck and Flux in Germany and TN Group and associates in Thailand. This gives the company access to top quality products made in Germany combined with the local expertise and great setup and footprint of the TN group combined with a broad knowledge of applications and products which we build with years of experience.

Our company is actively involved in contributing to the circular economy and it is committed to knowledge based artificial intelligent systems combined with process and rotating equipment to reduce cost and empower operators as well as contribute to a cleaner environment with zero waste.





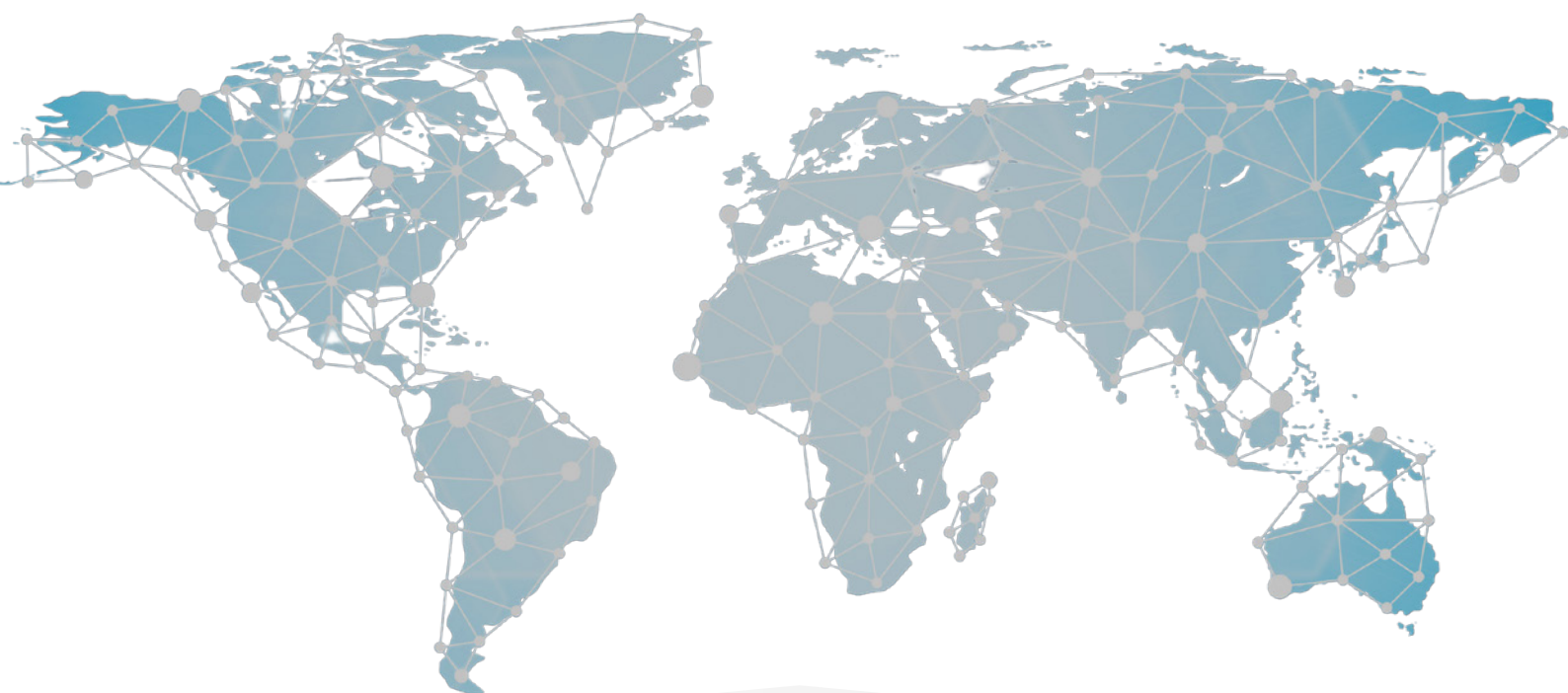
OUR PARTNERS

MADE IN GERMANY

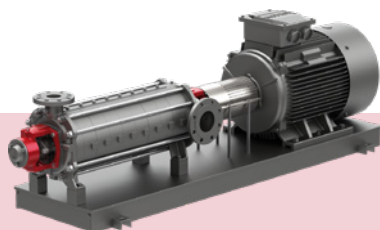
Our Partner Speck Pumpen Walter Speck GmbH & Co. KG **Pumps and drivers for the highest demands**

The Speck Group, with its headquarters in Roth in Germany, is a family-run enterprise in the mechanical engineering sector that manufactures high-quality liquid, vacuum pumps and compressors for industrial applications.

Speck has been active in this market for over 100 years and supplies its products to original equipment manufacturers and systems manufacturers in over 80 countries. Manufacturing is usually order-based.



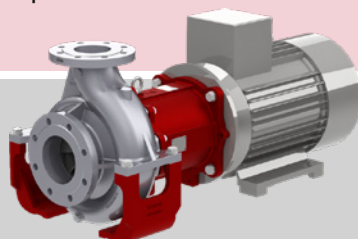
A broad range of pumps including Regenerative turbine, Centrifugal, Multistage, Side Channel, Displacement, Liquid Ring Vacuum and many more...



ES Multistage Pumps

Horizontal pumps with modular design, with mechanical seal or stuffing box packing.

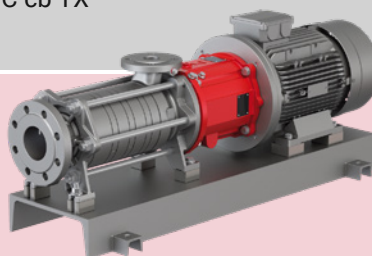
- Grey cast iron or spheroidal graphite cast iron designs
- Max. 630 m / 110 m³/h
- PN 40 and PN 63
- Tmax Water up to 120 °C / Oil up to 120 °C



Heat Transfer Pumps

Pumps with mechanical seal or magnetic coupling, with a volute casing or inline casing, with a base plate or bracket

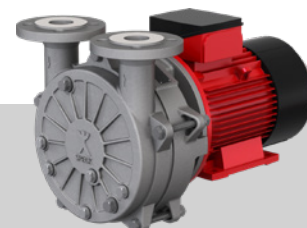
- Pumps with centerline mounting and/or double volutes
- Spheroidal graphite cast iron and stainless-steel designs
- Max. 100 m / 540 m³/h
- Hot water up to 160 °C, up to 180 °C upon request
- Heat transfer oils from -100 °C to 350 °C, up to 400 °C upon request ATEX II 2GD IIC cb TX



Side Channel Pumps

Self-priming side channel pump capable of handling gas along with the medium and operates at a low noise level. They are also very suitable for positive suction heads below 0.5m

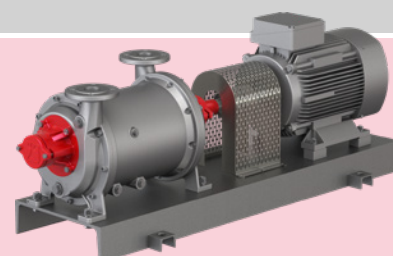
- Capacity from 0,4 up to 35 m³/h
- Delivery head from 10 up to 400 m
- PN 40 / Tmax up to 180 °C
- ATEX II 2GD IIC cb TX



Close Coupled Liquid Ring Vacuum Pumps

Close coupled compact designed for continuous operation with a constant suction capacity for various applications.

- Delivering liquid shares at a constant vacuum
- Delivering explosive gases, e.g. hydrogen, inflammable or toxic media
- Oil-free compression, i.e. no oil in the medium nor in the exhaust air
- Minimum suction pressures up to 33 mbar abs., with gas ejectors up to 5 mbar abs.



Long Coupled Liquid Ring Vacuum Pumps

Long coupled one and two stage liquid ring vacuum pumps designed for continuous operation with a constant suction capacity for various applications.

- Delivering liquid shares at a constant vacuum
- Delivering explosive gases, e.g. hydrogen, inflammable or toxic media
- Oil-free compression, i.e. no oil in the medium nor in the exhaust air
- Minimum suction pressures up to 33 mbar abs., with gas ejectors up to 5 mbar abs.



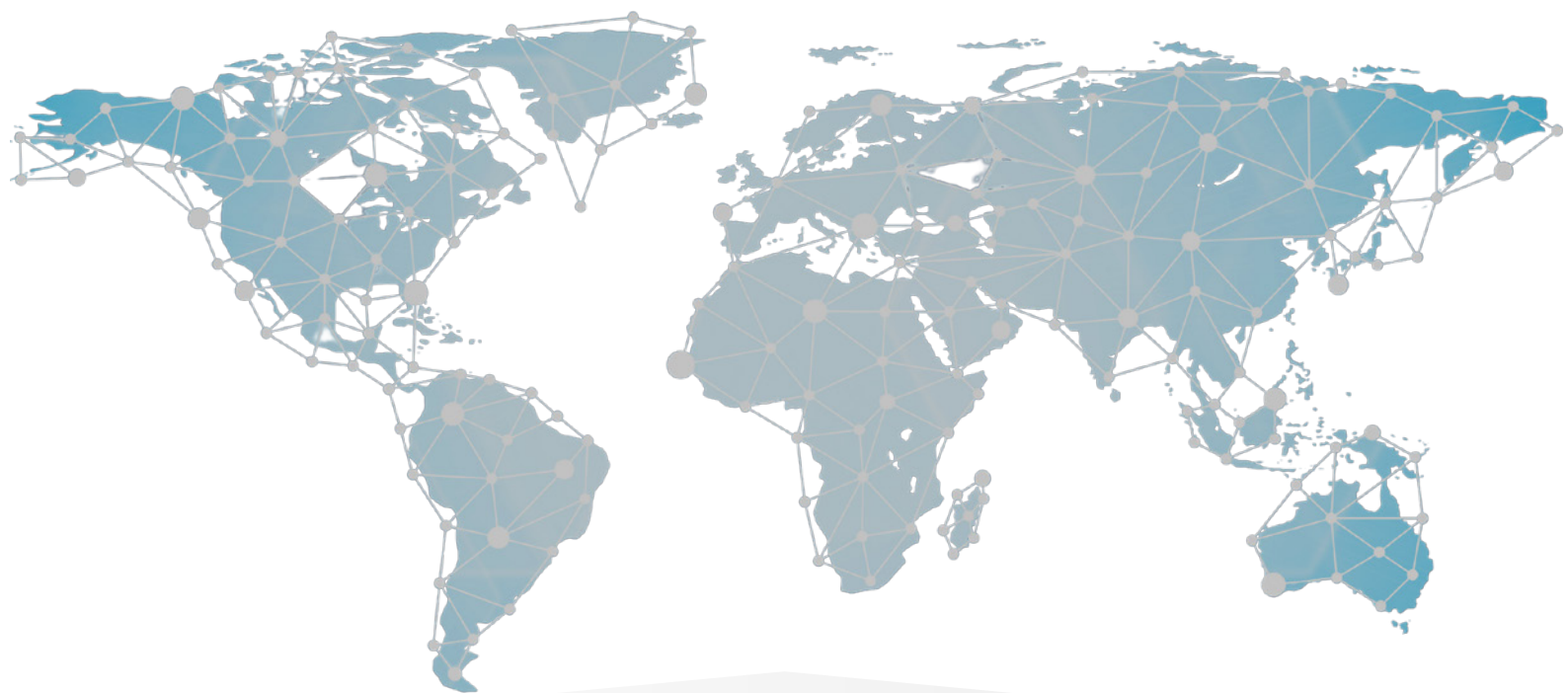
OUR PARTNERS

MADE IN GERMANY

Our Partner FLUX-GERÄTE GMBH **FLUX More than just Pumps...**

Pumping, emptying, mixing, filling and metering - when liquids are set in motion the requirements are very diverse. In any case the process must run smoothly. This is what the FLUX brand name stands for. It is recognized across the globe as a byword for quality, for safety and for solutions which can fulfill every single demand on a long-term basis.

To ensure that the tasks are solved in the best possible way for the customer FLUX has a huge range of expertise to offer.
In other words, a lot more than just pumps.





More than just pumps

PRODUCTS



A broad range of pumps including Drum, Barrel, Eccentric worm-drive, Drum emptying systems Centrifugal immersion, Air-operated diaphragm and many more...

Drum pumps and barrel pumps for pumping low viscosity fluids out of various containers

FLUX drum pumps, barrel pumps and container pumps are suitable for pumping various low-viscosity and also especially aggressive and highly-flammable fluids. The easy handling of motor and pump keeps changeover times short.

FLUX drum, barrel and container pumps are available in versions with explosion protection, with 3A certification as well as FLUX FOOD pumps (Directive (EC) 1935/2004 and FDA CFR 21 compliant).

We also offer a large selection of suitable electric and pneumatic operated drum pump and barrel pump motors.



Drum Pumps & Barrel Pumps



Eccentric Worm-Drive Pumps

For pumping low to high-viscosity Media

FLUX eccentric worm-drive pumps are suitable for pumping thin to high-viscosity fluids. The displacement pumps work with low turbulence at a constant pressure and provide for a gentle and pulsation-free operation. Whereas the series 550 pumps are used in the industrial sector the series 560 is especially configured for the pharmaceutical, food and cosmetics industries. All pumps can be used mobile and stationary, are made of only a few components and easy to disassemble.

There is a choice of versions for immersing in the material and for installing outside the container; versions with explosion protection, 3A certification and FLUX FOOD pumps (Directive (EC) 1935/2004 and FDA CFR 21 compliant).

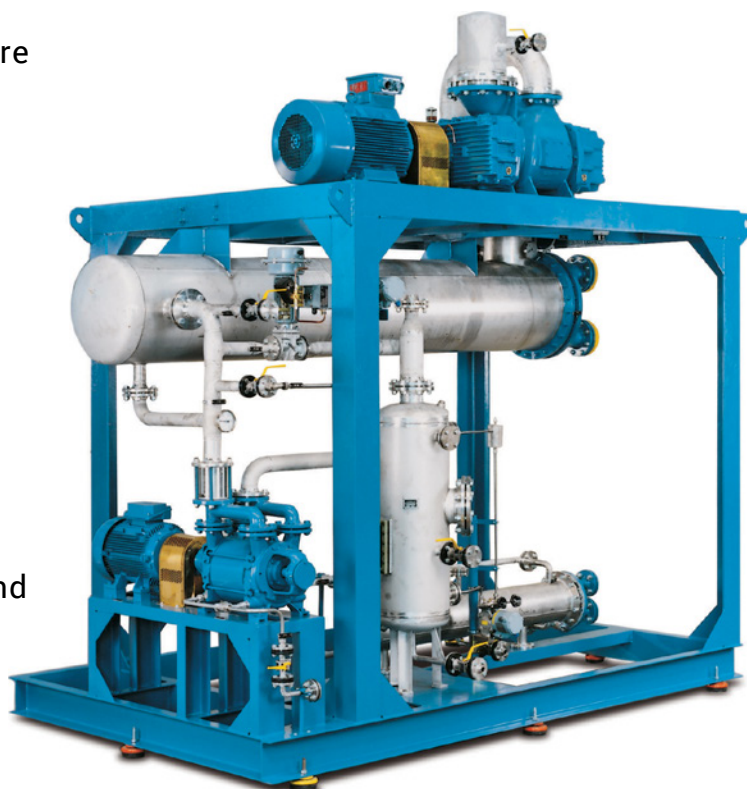
Process Vacuum Systems

Powered by Speck Pumps
Custom Engineered to your Process
Pre-Engineered Standard Systems

Our expertise in the design and manufacture of systems engineered to meet specific process needs is based upon years of experience. TN Pumps Solution provides pre-engineered, configurable, and custom-engineered vacuum systems to serve processes specific to industry and application requirements.

The system can include heat exchanger (plate / tube), Gas/Liquid Separator, Gas Ejector, Blower, Condensor, Instruments and IoT connection to DCS or Cloud. We have pre-engineered packages for food, beverages and other industries.

Whatever your process requires we build and test it **in Thailand**.



Chemical Process Pumps

- Single-stage volute casing pumps to ISO 5199/ EN 25199 and ISO 2858/ EN 22858



Industrial Pumps

- Single-stage volute casing pumps to DIN24255 / DIN24256



Technical Data

- Flow: max. 650 m³/h
- Head: max. 150 m

Technical Data

- Flow: max. 1800 m³/h
- Head: max. 140 m

OUR SERVICE

TN Pumps Solution is one of the leading companies in Thailand for rotating equipment related services which includes energy efficiency audit for pumping systems, diagnostics and consultancy services, installation and commissioning, in-house repair of any pump brand, vibration analyses and alignment as well as cloud monitoring and learning artificial intelligence systems to support the operators save process and energy cost and make more balanced decisions.



OUR SPECIALIZATION

TN Pumps Solution has a large team of mechanical, electrical and software engineers and service staff to assure the best MTBF (Mean Time Between Failures) in the Industry as well as further operational cost savings with our broad variety of services case to case, on contract or subscription basis.



In House Pump Repair

- Pump Repair any Brand
- Coating
- Static Pressure Test
- Performance Test
- Failure Analysis Report
- In-house training
- Consignment stock



- IoT (Internet of Things) based Remote Monitoring of Pumping System



On Site Services

- Pump Installation/ Removal
- Pump Alignment Pump
- Commissioning
- Supply System and Piping
- Overhaul at site
- Site Performance Test
- Pump Inspection & MTBF
- Supervision Site training
- Technical Support



Sales Service

- Spare Parts
- Refurbishment
- Retrofit
- Replacement Pumps
- Service Contracts
- Energy Audits
- Industry 4.0

Start Saving Energy & Improve MTBF

- Predictive maintenance alerts
- Live status, Historical Data and Trend monitoring through Web and/or interactive Mobile App.
- Alerts / Alarms through Push Notifications, SMS & Emails
- Spares management – Notification, Request for Quote
- Pump diagnostics and assistance
- Storage of data in event of communication failure
- Reduces unplanned breakdown, improves process / plant safety & reliability
- Increases equipment life & less down time
- Improves equipment efficiency as your pump always run at the optimum level



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