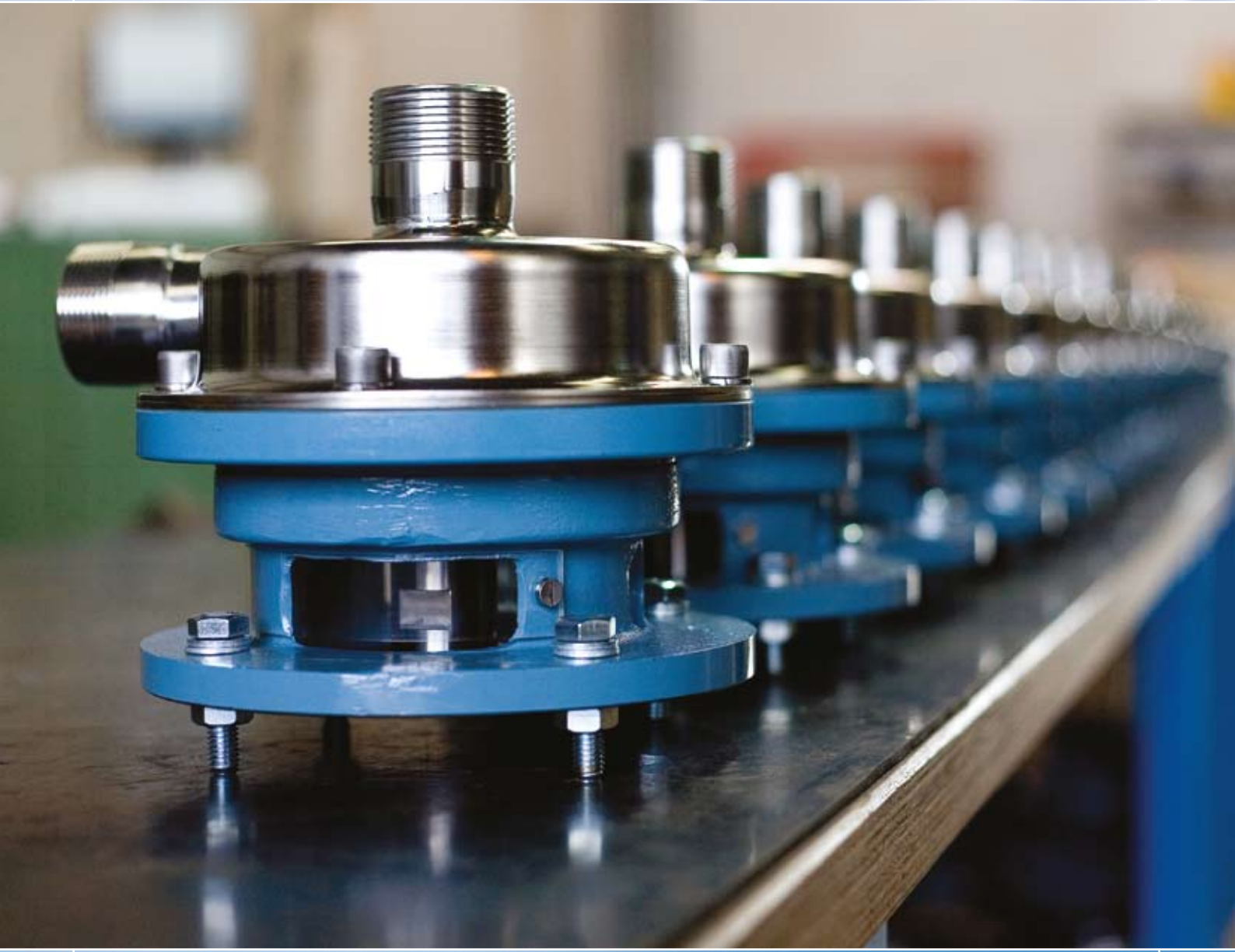
Tuma
PUMPEN mit SYSTEM

Industrial- and Vacuum Pumps

Best Leading Technology Pumps



since 1952

Mastercraftsmanship & Hightech

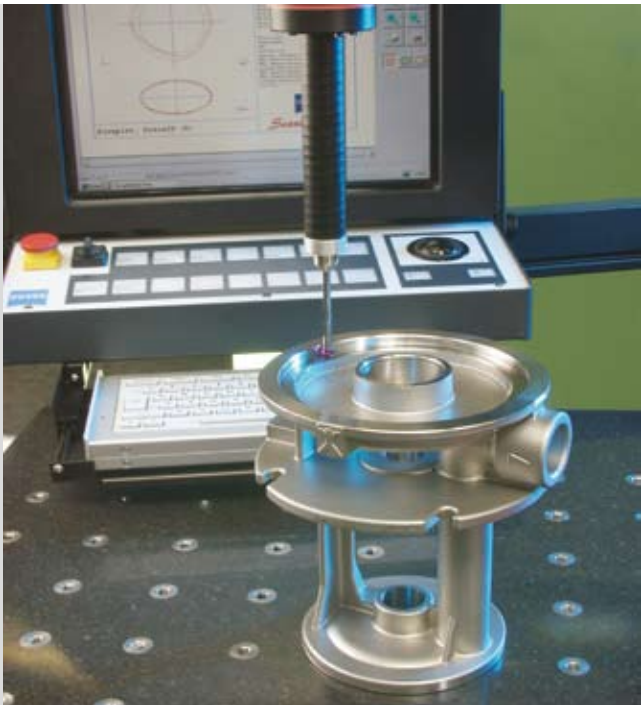
Why Tuma is the strongest partner for your pump systems

Traditional reliability.

Tuma epitomises a success story grown over decades of expertise. In the 1950s the company drew on the craftsmanship and patents of its founder Peter Tuma. Today we purchase internationally renowned components to manufacture and deliver state-of-the-art products.

Meeting people on a personal level.

We do not think of customers as clients - we think of them as partners. A personal approach has always been important to us. Our specialist staff is there for you with their advice to help with the realisation of your projects. With ongoing qualifications, enthusiastic attitudes and first class Equipment we can realise efficient solutions. Our partners and their needs are met on an individual level. Our philosophy is to offer a complete service: from the initial inquiry to professional advice, selection, engineering, production and testing to the on site training with your completed Tuma pumping system itself.



Quality not only on paper – but proven in action.

Our comprehensive quality control is most visible in our products, but is also documented. All Tuma components come from ISO-certified production facilities, so that our customers may be guaranteed the highest possible reliability for all system solutions.

The best service for every application

There is an ideal system solution for each application. Or we engineer it!

Having been pump specialists for decades we understand our business. And because it is a large part of our work to be multifaceted, working in the most diverse branches is a main part of our services. Cooperating with university research teams, but most of all gaining knowledge through our constant dialog with customers, we have achieved large improvements resolving specific applications for many difficult cases. Ranging from anything such as powdered milk to VE-water, Tuma's systems will pump whatever you need.

Our warehouse has everything that you could possibly need.

If there is a lack of stock for what you need it would cause problems which will make prices rise for both you and us, so we make sure that we always have everything that is important on stock. You may reckon with a fast and efficient response and a smooth transaction.

Industry sectors, we know who have chosen to rely on us that know us and we them.

Ranging from the Viennese underground train system to major sport stadium, alternative energies to CD production: Tuma equips customers world wide with precise pump solutions.

- **Waste water & sewerage**
- **Engineering**
- **Construction industry**
- **Biodiesel/Bioethanol-plants**
- **Chemical industry**
- **Building services**
- **Power plants**
- **Plastics industry**
- **Agriculture**
- **Food industry**
- **OEM machine manufacturers**
- **Medical engineering**
- **Paper Mills**
- **Oil & Gas industry**
- **Pharmaceutical industry**
- **Rail car manufacturers**
- **Car wash manufacturers**
- **Sugar mills**

What we can offer

Complete solutions

Our special strengths are system solutions: no detail is left to chance. We combine our top products, pump components as well as motors, to tailor made pumping solutions for the industrial, trade and communal sector. Terms like ATEX and TA-air are our daily business. Energy efficiency is a top priority with us.

Some examples:

Boiler feed unit with thermosysphon cooling

Gear pump unit

Vacuumsystem for methyldrying

Roots blower – compressor unit

Booster system for sterilisation plant

CIP clean in place unit

From analyses of your requirement to servicing the finishes system

Service

Individual customer service and the preparation of in all aspects optimal solutions are our strength. From the first consultation until the maintenance training on site we are there with you and your competent TUMA technician knows and advises you personally.
With a worldwide network of service agents we put qualified contact people at your side to look after you, should the need ever arise.

Training

Tuma conducts regularly practical and informative in-house training for staff and customers, in an effort to make the latest developments available.

Technical Design

Whatever you need to know with regards to your pump requirement: Our experts have the solution and love to reveal it to you. Implementing your pumping system with TUMA means that we carry out meticulous investigations and calculations about your new TUMA pump unit at no extra cost.

Engineering

Our components we source from top suppliers worldwide, their quality is controlled by us on a regular basis. With engineering we don't just trust the visual inspection, every unit is tested vigorously before leaving our factory.

Our engineering workshop is equipped with an excellent pump test bay for liquids and gases. Functional testing of the pump units assures freedom from defects and that specified parameters are kept.

During this test parameters like pressure, flow rate, temperature, noise level and speed as well as all relevant electrical values can be monitored and optimised.

Maintenance and Repair

Inspection and if required overhaul of pumps and systems, not only the ones we have delivered, are normally carried out in our workshop. The pump test bay in our workshop allows us to locate and remedy defects and weaknesses quickly. But we also come to you, if necessary in an emergency call out.

Product overview

1.Small centrifugal-, Sidechannel-, Magnetic Drive Pumps

1.1 Small Centrifugal Pumps

Characteristics
Capacity: 0,06 — 24 m³/h
Head: max. 160 m
Temperature: max. 0 °C
Shaft Seal: uncooled mech.seal

Materials of construction
Shaft: 1.4122 / 1.4571 / Ceramic
Casing: Brass/Bronze/Stainless Steel/Ryton/ Cast Iron
Impeller: Brass/Stainless Steel/Peek/Ceramic
EU directive 94/9/EG (ATEX 95): Ex II 2G

Applications
Rail Cars, Medical Appliances
Inert Gas Welding Equipment
Spraying Systems for Agriculture
Cooling of Machine Tools
Softdrink Dispensers
Water Purification Systems (Reverse-Osmosis)
Cooling Tasks in Telecommunication
Boiler Feed Pumps (condensate pumps)
Dosing, Sampling
Cooling Aggregates for Semi-Conductor Industry
Booster Pumps
Temperature Controllers - Plastic Production Industry

1.2 Side Channel Pumps

Characteristics
Capacity: max. 35 m³/h
Head: max. 350 m
Speed: 1450 rpm
Rated Pressure: PN 25 / PN 40
Temperature: max. 180 °C
Shaft Seal: Mech.seal / magentic drive

Materials of construction
Shaft: 1.4122/ 1.4571
Casing: GG25/ GGG40/ Bronze/ 1.4581
Impeller: Brass/ 1.4408
EU directive 94/9/EG (ATEX 95): Ex II 2G

Applications
Rail Cars
Medical Appliances
Inert Gas Welding Equipment
Spraying Systems for Agriculture
Cooling of Machine Tools
Softdrink Dispensers
Water Purification Systems (Reverse-Osmosis)
Cooling Tasks in Telecommunication
Boiler Feed Pumps (condensate pumps)
Dosing
Sampling
Cooling Aggregates for Semi-Conductor Industry
Booster Pumps

1.3 Magnet Drive Pumps

Characteristics
Capacity: max. 150 m³/h
Head: max. 300 m
Speed: 1450 UpM
Rated Pressure: PN 40
Temperature: max. 350 °C
Shaft Seal: Magnetic Drive

Materials of construction
Shaft: 1.4122/1.4571/Ceramic
Casing: Messing/Bronze/Stainless Steel/ Ryton/Cast Iron
Impeller: Brass/Stainless Steel/Peek/Ceramic
EU directive 94/9/EG (ATEX 95): Ex II 2G

Applications
Rail Cars
Medical Appliances, Inert Gas Welding Equipment
Spraying Systems for Agriculture
Cooling of Machine Tools
Softdrink Dispensers
Water Purification Systems (Reverse-Osmosis)
Cooling Tasks in Telecommunication
Boiler Feed Pumps (Condensate Pumps)
Dosing
Sampling
Cooling Aggregates for Semi-Conductor Industry
Booster Pumps
Temperature Controllers - Plastic Production Industry

2. Centrifugal-, Process-, Heat Transfer Pumps, Split Case Pumps

2.1 Centrifugal Pumps EN 733

Characteristics
Capacity: 5 - 800 m³/h
Head: 4 - 150 m Rated
Pressure: PN 16
Temperature: max. 150 °C
Shaft Seal: uncooled mech.seal(DIN24960)

Materials of construction
Shaft: Steel/ Stainless Steel
Casing: GG25/ Bronze/Stainless Steel
Impeller : GG25/ Bronze/Stainless Steel

Applications
Water Supply
Irrigation
Potable Water
Heating
Hot Water
Air Conditioning
Cooling Water
Condensate
Oils
Cleaning Liquids

Benefits
Various Material Combinations and Mech. Seal Options
Baseplate and Close Coupled Construction

2.2 Process Pumps DIN EN 22858

Characteristics
Capacity: max. 300 m³/h
Head: max. 150 m
Rated Pressure: PN 25
Temperature: max. 300 °C
Shaft Seal: single or double Mech. Seal (DIN24960),
Special seals API/ISO, gland packing

Materials of construction
Shaft: ChromeSteel/ Stainless Steel
Casing: GG25/ GGG40/ Bronze/ Stainless Steel
Impeller: GG25/ GGG40/ Bronze/ Stainless Steel
EU directive 94/9/EG (ATEX 95): Ex II 2G

Applications
Chemical Industry
Food Industry
Paper- and Pulp Industry
Sea Water Desalination
Refineries

Benefits
Many Mech. Seal Options
Optimized Hydraulics
Heavy Duty Construction
High Pressure Class

2.3 Magnet Drive Process Pumps DIN EN 22858

Characteristics
Capacity: max. 600 m³/h
Head: max. 110 m
Rated Pressure: PN 16
Temperature: -100° C bis +350°C
Shaft Seal: magentic drive
Solids: up to 0,5mm max. 30%

Materials of construction
Shaft: Cr Steel/ Stainless Steel
Casing/Impeller: Stainless Steel, Uranus,Titanium, Hastelloy, PFA
EU directive 94/9/EG (ATEX 95): Ex II 2G
EU directive: TA Air

Applications
Chemical Industry
Pharmazeutical Industry
Petrochemical Industry
Sea Water Desalination

Benefits
Simple, Modular Construction
Solid Content up to 30%
Optimized Hydraulics
Heatable Design
Eddy-Current-Free Shroud
Vacuumproof PFA Construction Available

Product overview

2.4 Heat Transfer Pumps

Characteristics
Capacity: 2 - 220 m³/h
Head: max. 110 m
Rated Pressure: PN 16
Temperature: Heat Transfer Oil max. 350 °C
Hot Water max. 185 °C
Shaft Seal: Uncooled Mech. Seal or
Magnetic Drive
Materials of construction
Shaft: 1.4122/ 1.4571/ Ceramic
Casing: EN-GJS-400-15/Stainless Steel
Impeller: EN-GJS-400-15/ Stainless Steel
EU directive 94/9/EG (ATEX 95): Ex II 2G

Applications
Cooling and Heat Transfer Agents, Hot Water

Benefits of the new series TOE-GN
- Special construction - no need for bearing support foot
- Unique insulation pockets to reduce heat loss effectively
- Standard dimensions according to EN733
- Quench for seal housing fitted as standard
- Standard cooling fan on shaft to provide additional cooling to seal and bearing
- Axial thrust dampener ribs on back of Impeller

Series TOE-MK with Magnetic Coupling
provides maintenance and safety benefits of a sealless pump

2.5 Split Case Pumps

Characteristics
Capacity: 100 - 18000 m³/h
Head: max. 150 m
Rated Pressure: PN16
Connections: DN100 - DN1200
Temperature: max. 104 °C
Shaft Seal: Gland packing or
Mech. Seal

Materials of construction
Shaft: GG/Stainless Steel/
Duplex/SEBF Coating

Applications
Water Treatment
Paper Mills
Power Plants
Steel Plants
Irrigation
Chemical Industry

Benefits
- High fficiency
- Easy dis-assembly
- Even loading on shaft

3. Vertical, Multistage - Inline Pumps

3.1 Vertical Inline Pumps

Characteristics
Capacity: max. 72 m³/h
Head: max. 395 m
Speed: 1450 / 2900 rpm
Rated Pressure: PN 16
Temperature: max. 120 °C
Shaft Seal: Mech. Seal

Materials of construction
Shaft: 1.4305/ 1.4401
Casing: 1.4305/ 1.4401/ GG25
Impeller: 1.4301/ 1.4404

Applications
Booster Systems
Boiler Feed
Water Treatment
Substrat Systems
Irrigation
Air Conditioning
Sprinkler Systems
Automatic Booster Units

4. Sanitary Centrifugal, - Positiv Displacement Pumps

4.1 Sanitary Centrifugal Pumps

Characteristics
Capacity: max. 1000 m³/h
Head: max. 100 m
Temperature: max. 130 °C
Speed: 1500/2900 rpm
Shaft Seal: Uncooled Mech. Seal
(DIN24960 L,K)
One size for all models!

Materials of construction
Casing, Impeller, Shaft: 1.4404, 1.4408,
EPDM, Viton (FDA)
Surface: 0,8 Ra, e-polished

Applications
Filtration
Bottling
Dairy Products
Pharma
Beer
Juice
Leach
Brine

Benefits
- Quick connections for casing
- Open Impeller
- Low NPSH
- Hygiene Standard 3A, EHEDG, FDA, CETIM
- CIP clean in place

4.2 Helical Rotor Pumps

Characteristics
Capacity: max. 120 m³/h
Head: max. 12 bar
Temperature: max. 90 °C
Connections: DIN, SMS, RJT, Clamp, etc.
Sizes: max DN100

Materials of construction
Stainless Steel 304L, 316L, NBR,EPDM (FDA)
Shaft Seal: Mech. Seal
Surface: 0,8 Ra, e-polished

Options:
Bare Shaft, Baseplate Unit or Blockpump,
Hopper Inlet, Bypass and much more

Applications
Filtration, Bottling,
Dairy Products, Pharma, Beer,
Vegetable Oils, Juice, Leach,
Brine, Syrup, Viscos Products with
Soft Particles

Benefits
- Pulsationsfree pumping
- High pressure with low flowrate
- Gentle pumping action
- Hygiene Standard 3A,
EHEDG, FDA, CETIM
- Selfpriming
- No emulsifying of pumped product

Product overview

5. Lobe Pumps

5.1 Sanitary Lobe Pump

Characteristics
Capacity: max. 150 m³/h
Head: max. 22 bar
Temperature: max. 180 °C
Solids: max. 15mm

Materials of construction
Casing, Impeller, Shaft: 1.44404, 1.4408, EPDM, NBR, PTFE
Shaft Seal: Mechanical Seal Optionally Heated
Surface: 0,8 Ra, e-polished

Construction
Bare Shaft, Baseplate Unit or Blockpump, CIP/MIP
Optional: Casing Cover Heating, Bypass Valve,
Rotor: Trilob or Scimitar
Connections: DIN, SMS, RJT, Clamp, etc.

Applications
Filtration, Bottling, Dairy products, Pharma, Beer, Candy, Vegetable Oils, Juice, Beer, Leach, Brine Detergents, Syrup, Viscos Products with Soft Particles, Meat Pastes

Benefits
- Contact free rotation in pump housing
- Extremely long pump life
- High pressure with low flowrate
- Gentle pumping action
- Hygiene Standard 3A, EHEDG, FDA, CETIM
- Selfpriming
- Pulsationsfree pumping

6. Internal Gear Pumps

6.1 Internal Gear Pump

Characteristics
Capacity: min. 60 l/h
to max. 220 m³/h
Head: max. 20 bar
Temperature: max. 300 °C
Viscosity: max. 60000 cSt

Materials of construction
Casing: GG25 / Steel / Stainless Steel
Shaft Seal: Mech. Seal, Gland Packing or Magnetic Drive

Construction
Bare Shaft, Baseplate Mounted
Options: Heating Jacket, Bypass-Valve
Optional:
EU directive 94/9/EG (ATEX 95): Ex II 2G

Applications
Chocolate, Bitumen, Dispersion also with Fillers, Creme, Paint, Glue, Synthetic Resin, Fat, Heating, Molasses, Syrup, Solvents, Soap, Tar, Glucose, Mineral Oil, Crude Oil, Silicon Oil, Vegetable Oil, Brine, Caustic, Viscose, Starch, Yeast, etc.

Benefits
- Dry selfpriming
- Ideal for flow control due to positive displacement
- Many options
- Heavy duty construction

7. Self-priming Centrifugal Pumps

7.1 Self-priming Centrifugal Pumps

Characteristics
Capacity: max. 1200 m³/h
Head: max. 68 m
Temperature: max. 100°C
Solid size: max. 76mm
Solid content: max. 10%
Viscosity: max. 50 cSt

Materials of construction
Casing: GG25 / Bronze / Stainless Steel
Shaft Seal: Single or Double Mech. Seal or Magnetic Drive

Construction
Bare Shaft, Baseplate Unit, Blockpump or Trailer Mounted
Options: Electric Motor, Diesel or Petrol Engine Drive, Mobile, Vacuum Assisted

Applications
Communal Waste Water (Dry Mount)
Ground Water Control, Dewatering
Garden Ponds
Industrial Waste Water
Quarry, Sandmine, Gravel Pit
Irrigation
Emergency Pump
Industrial Cooling, Washing, Scrubbing

Benefits
- Built for mud and solids in suspension
- Selfpriming

8. Rotary Vane Pumps

8.1 Rotary Vane Pumps up to 2000 lit/h

Characteristics
Capacity: max. 2400 liter/h
Head: max. 16 bar
Temperature: max. 90 °C
Speed: 1450/2900 rpm

Materials of construction
Rotor/Shaft: 316 Stainless Steel
Casing: Brass/Stainless Steel, NBR/EPDM/Viton
Shaft Seal: Mech. Seal / Magentic Drive
Optional:
EU directive 94/9/EG (ATEX 95): Ex II 2G

Applications
Medical Systems
Spraying System for Agriculure
Post Mix Systems
Coffee Machines
Reverse Osmoses Water Treatment
Boiler Feed
Dosing
Condensates
Biodiesel Production

Benefits
- Dry self priming
- Ideal for flow control due to positive displacement
- Economical

8.2 Rotary Vane Pumps up to 100 m3/h

Characteristics
Capacity: max. 100 m³/h
Head: max. 7/10 bar
Temperature: max. 150/250 °C
Viscosity: max. 2000 cSt

Materials of construction
Rotor/Shaft: Steel/Stainless Steel
Casing: GG25
Shaft Seal: Mech. Seal Viton (Fuels)
PTFE (Solvents)
Optional:
EU directive 94/9/EG (ATEX 95): Ex II 2G

Applications
Tank Farms for Solvents and Fuels
Truck or Rail Car Unloading Transfer Pump
Loading Pump

Benefits
- Dry self priming
- Ideal for flow control due to positive displacement
- Heavy duty construction

Product overview

9. Submersible Pumps

9.1 Submersible Pumps

Characteristics
Capacity: max. 1400 m³/h
Head: max. 85 m
Speed: 2900 rpm
Rated Pressure: PN 25 / PN 40
Solids: max. 140 mm

Materials of construction
Casing: Alu/ Stainless Steel/ CI/Bronze
Impeller: Alu/ Stainless Steel/ CI/Bronze

Construction
Impeller: Single Channel, Multi Channel, Propeller, Vortex
Options:
Float Switch, Grinder, ATEX, Guide Rail Coupling System

Applications
Drainage of Clean or Polluted Rain- or Groundwater, Liquids with Hard or Fibrous Solid Content, Domestic or Animal Farm Waste Water, Communal Sewerage,..

Car Wash
Airports
Camping Site
Agriculture
Textil Industry
Industrial Waste Water
Communal Waste Water
Roadhouse
Residential Areas
Sewerage Treatment Plants
Painting Systems
Breweries
Drainage

10. Pneumatic Diaphragm Pumps

10.1 Pneumatic Diaphragm Pumps

Characteristics
Capacity: 15 - 220 liter/min
Head: max. 7 bar

Materials of construction
Casing: Aluminium, Stainless Steel, PP, PVDF Kynar
Elastomers: Buna-N, Neoprene, Viton, EPDM, Santoprene
Shaft Seal: Sealless

Optional: EU directive 94/9/EG (ATEX 95): Ex II 2G

Applications
Chemichal- /Petrochemichal Industry
Waste Management Industry
Paints and Coatings Industry
Printing
Ceramic Production
Food Industry
Pharmaceutical Industry
Paper- /Fibre Industry
Mining
SAcids/Caustic/Solvents/Transfer
Loading/Unloading
Filterpress
Paint Mixing Plants
Wastewater

Benefits
- Dry self priming
- Ideal for flow control due to positive displacement
- Many options, no lubrication needed
- Robust, reliable, can handle solids

11. Liquid Ring Vacuum pumps

11.1 Vacuum Pumps & Compressors - Liquid Ring, Baseplate Pumps model VH-VU

Characteristics
Capacity: max. 31000 m³/h
Vacuum Pressure:
max. 33 mbar abs
(Service Liquid Water)
Temperature: max. 120 °C

Materials of construction
Casing: Bronze/ Stainless Steel / GG25/ SEBF Coating
Impeller: Bronze/ Stainless Steel/ Cr Steel / SEBF Coating
Shaft Seal: Mech. Seal, Packing

EU directive 94/9/EG (ATEX 95):
Baseplate Pumps VH, Ex II 1/2G
Compressors and Custom-Made Units at Request

Applications
Woodworking Industry
Drying
Impregnation
Plastics Recycling
Steam Sterilisers
Vacuum Suction Trucks
Steamturbines
Preservation of Food Products
Priming of Centrifugal Pumps
Extrution Degassing
Fish- and Poultry Processing
Solvent Recovery
Bottling Plants
Seawater Desalination
Meat Processing
Textile Industry
Groundwater Drainage
Tobacco Humidifying
Mineralwater Degassing
Mine Ventilation
Humidifying of Yarn
Vacuumfilters
Vacuum-Casting
Vacuum Chambers
Vacuum Motor Test Rigs
Compaction of Concrete
Compaction of Sandcasts
Glueing of Plastic Components
Brickyards
Sugar Mills

11.2 Vacuum Pumps - Liquid Ring, Blockpumps model V

Characteristics
Capacity: 6 - 450 m³/h
Vacuum Pressure: max. 33 mbar abs (Service Liquid Water)
Temperature: max. 120 °C

Materials of construction
Casing: Bronze/ Stainless Steel / GG25
Impeller: Bronze/ Stainless Steel/ Cr Steel
Shaft Seal: Mech. Seal

EU directive 94/9/EG (ATEX 95):
Blockpumps V, Ex II 2G
Custom-Made Units

Applications
(s. above, 11.1 Vacuum Pumps & Compressors - Liquid Ring, Baseplate Pumps model VH-VU)

11.3 Vacuum Pumps - Liquid Ring VALVELESS Blockpump model VG (New)

Characteristics
Capacity: 6 - 450 m³/h
Vacuum Pressure: max. 33 mbar abs
Temperature: max. 120 °C

Materials of construction
Casing: Bronze/ Stainless Steel / GG25
Impeller: Bronze/ Stainless Steel/ Cr Steel
Shaft Seal: Mech. Seal

EU directive 94/9/EG (ATEX 95):
Blockpumps VG, Ex II 2G
Custom-Made Units

Applications
Food Industry
Milk Collection Trucks
Biodiesel-,
Bio-Ethanol Production

Benefits
Easy to clean and excellent self cleaning properties due to elimination of dead space within pump casing

Product overview

11.4 Vacuum Pumps - Liquid Ring Blockpumps model VZ

Characteristics
Capacity: 6 - 450 m³/h
Vacuum Pressure: max. 33 mbar abs
Temperature: max. 120 °C

Materials of construction
Casing: Bronze/ Stainless Steel / GG25
Impeller: Bronze/ Stainless Steel/ Cr Steel
Shaft Seal: Mech. Seal, Magnetic Coupling

EU directive 94/9/EG (ATEX 95):
Block- and Base Plate Construction VZ, Ex II 2G
Custom-Made Units

Applications
Sterilisation, Drying, Distillation

Benefits
- All components are assembled via O-rings
- Simple construction, easy maintenance
- Runs extremely quiet

11.5 Vacuum Pumps - Liquid Ring Blockpumps model VN

Characteristics
Capacity: 6 - 450 m³/h
Vacuum Pressure: max. 33 mbar abs (Service Liquid Water)
Temperature: max. 120 °C

Materials of construction
Casing: Bronze/ Stainless Steel / GG25
Impeller: Brass/ Bronze/ Stainless Steel/ Cr Steel
Shaft Seal: Mech. Seal

EU directive 94/9/EG (ATEX 95): Blockpumpen VN, Ex II 2G
Custom-Made Units

Applications
Plastics Extrusion Industry
Vacuum Calibration Plasic Profiles

Benefits
- Centre hub technology - no adjustment of impeller needed
- Can transport large amounts of water with gas

12. Rotary Vane Vacuum pumps

12.1 Rotary Vane Vacuum Pumps, oil-lubricated & oilfree

Characteristics
Capacity: max. 1000 m³/h
Vacuum Pressure: max. 0,005 mbar abs

Description
Oil lubricated or oilfree Rotary Vane Vacuum-pumps are generally used whenever there are few or no condensable components, the suction air or low final Vacuum Pressure is needed or service liquid is not available or practical. Pumps are not suitable for continous operation with near atmospheric suction pressure.

Applications
Meat Packaging and Food Processing
Thermoformer, Plastics Industry
Boat Industry, Hospitals
Foundry, Vacuum Furnace
Printing Industry
Woodworking Industry
Glas Industry
Vacuum Transport and Handling
Pharmaceutical Industry

Benefits
- Versatile
- No service liquid required

13. Roots Blowers

13.1 Roots Blower

Characteristics
Capacity: 200 - 15590 m³/h
Differential Pressure: 130 - 40 mbar
Speed: 2900 rpm
Motor: 0.75 - 30 kW

Materials of construction
Casing: Cast Iron/ Steel/ Viton

Applications
Economical Pneumatic Transport of Gases, Bulk Solids (e.g. Cement,..)
Aeration and Filter Back Wash in Sewerage Treatment Plants,
Homogenise of Fluids, Coke Production From Coal,
Air Supply for Furnaces, etc.

Benefits
- Dry vacuum or compressed air - no cooling liquid, oil free
- Contact free rotation in pump housing - long pump life

14. Accessories Liquid Ring Vacuum Pumps, Engineering

14.1 Accessories Vacuum Pumps

Tanks, Top/Side Mount Separators,
Ball Type Non Return Valves
Anti-Cavitation Valves
Heat Exchangers Plate and Tube Type
Measuring and Control Equipment
Solenoid Valves
Gas Ejectors
Base Frames
Valves, Fittings
Electric Motors IEC, UL, NEMA CSA

14.2 Accessories Liquid Pumps

Membrane Tanks
Valves, Fittings
Measuring and Control Equipment
Solenoid Valves
Base Frames
Special Surface Treatment
Frequency Converters
Electric Motors IEC, UL, NEMA CSA
Custom Built Pump Units

Your enquiry should contain all or most of this information:

- Application
- Duty point = Flowrate (L/min oder m³/h) at head (m, bar)
- Medium
- Temperature of medium
- Viscosity (cSt, mm²/s) for viscous medium
- Preferred pump type
- Description of suction and discharge pipe (length/diameter/suction height/material)
- Preferred materials of construction
- Required motor voltage
- Other information e.g. explosion proof, ATEX

Tuma in the web

Visit us in the internet.
Our website **www.tumapumpen.at** is always updated with the latest information about the TUMA services and products and a few things more:

Downloads

With a few mouse clicks find datasheets for numerous products, operation manuals, newsletters and much more.

Order window

Our practical contact forms for enquiries, catalogue requests and spare part orders will take you to the right contact person in no time.

Free Online pressure loss calculator

Calculate your system – our practical pressure loss program will deliver precise figures in seconds.

The quality spirit of TUMA Pumpensysteme is to

- deliver competitive, reliable, safe products.
- have flexibility and resources, which enable us to respond to customer requests, even custom built units if required.
- professional consulting, carefully selected products and efficient service.
- experienced order processing and delivery on time as best as possible.

Robert MITTINGER, Manager engineering
Caroline TUMA, Manager administration

You find us here

You reach us for all pump related questions; we look forward to hear from you:

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