

Our Trigonal® machines

Tanks, silos



Pumps



Drives



seals



Loading and Unloading Arms



Solutions for pump systems,
loading arms, shut-off
valves, electric drives, tanks

- Always up to date
- Standard or ATEX
- Checked and certified
- applicable in many areas



Equipment for the
Petrochemical and Refining Industry

MIAT Technology

Equipment for the Petrochemical and Refining Industry



MIAT-Trading GmbH

Is a distribution partner of a leading manufacturer of high-tech equipment for the production and storage of bitumen and other viscous products in Europe.

MIAT-Trading GmbH works closely with several companies in the EU and worldwide. This allows us to offer our customers not only a flexible ordering process with various delivery options, but also fair prices, as well as technical support and expert advice on the procurement of industrial machinery and spare components.

We develop infrastructure projects in the bitumen and road construction sectors and support our customers in achieving their goals and increasing business efficiency.



Equipment

MIAT equipment in ErichHahn technology

ErichHahn History

GERMANY

Headquarters

OFFICES IN 5 COUNTRIES

Germany, Estonia, Türkiye, Russia, Kazakhstan

2 FACTORIES

Türkiye, Russia

30 YEARS

in the oil and energy sector

R&D DESIGN & ENGINEERING CENTER

Innovative Developments and Design Solutions





MIAT History

EXPERIENCE

8 years of successful operation

WHAT WE CAN ASK:

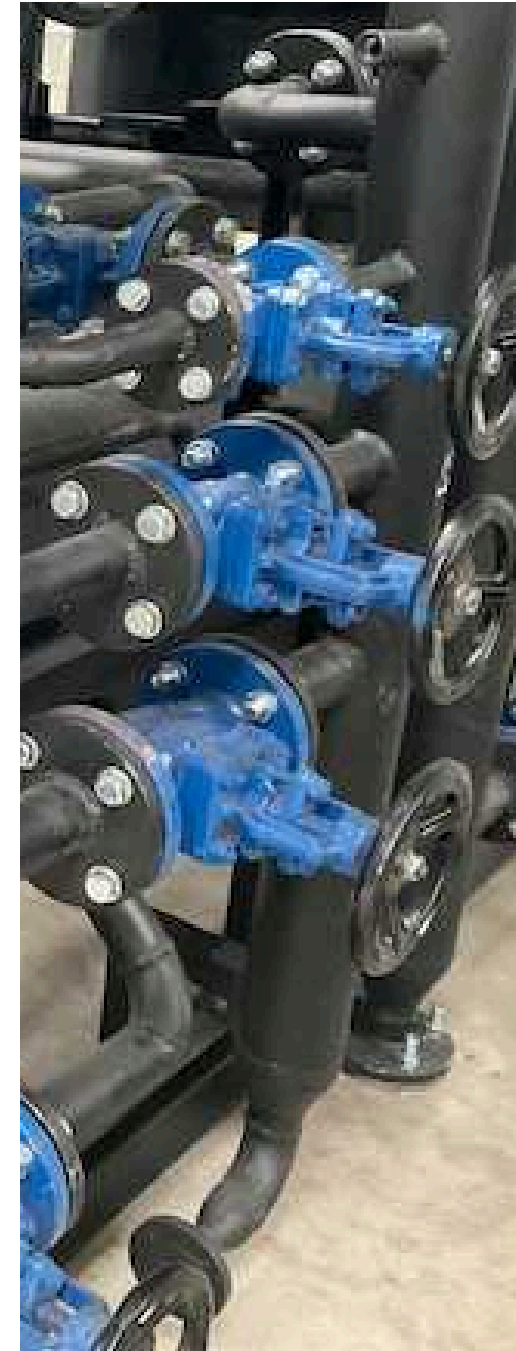
We provide engineering services for industry leaders

Made in Europe

We support you in the desired selection

Proficiency

We design and construct facilities and structures of any complexity.



In cooperation with



PROVIDED SERVICES



- Preliminary design
- Project assessment and proposals
- Engineering design
- Preparation of work plans and schedules
- Construction management
- Quality assurance and control
- Construction works
- Occupational health and safety, environmental protection
- Pre-commissioning / Commissioning / Start-up
- Supply
- Facility management



INDUSTRIES

- Design and construction of industrial facilities and terminals
- Manufacturing of equipment for the oil & gas and petrochemical industries
- Storage solutions for petroleum products and chemical substances
- Automated pumping systems
- Storage tanks, pipelines, and engineering networks
- Modernization and reconstruction of existing facilities
- IT solutions and industrial process automation

■ ■ ■ We are distributor for Europe





SPECIAL ORDERS

In addition to the standard equipment of the ErichHahn line, ErichHahn technical experts develop technological solutions for individual orders



QUALITY ASSURANCE

QA ISO 9001 :2015 (QUALITY MANAGEMENT SYSTEM)
QA ISO 14001:2015 (ENVIRONMENTAL MANAGEMENT SYSTEM)
QA ISO 45001:2018 (OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM)



ENSURING THE QUALITY OF CONSUMABLES

ISO 9001:2015

TSE (Türk Standardları Enstitüsü)

Declaration of Conformity

TYPICAL GUIDES FOR EQUIPMENT TESTING

examining and testing of equipment during manufacturing

CERTIFICATION OF MANUFACTURED EQUIPMENT

certificate of equipment
ensuring quality assurance and compliance
with standards



50 AND 100 TON
VOLUME VERTICAL BITUMEN TANKS



AUTOMATIC POINTS
FOR TANKER
TRUCKS LOADING



BITUMEN PUMPING STATIONS



AUTOMATIC INSTALLATIONS FOR
UNLOADING RAILWAY TANK CARS



FOR 2 POINT INSTALLATION



AUTOMATIC TANKER TRUCK UNLOADING POINTS
FOR 6 POINT INSTALLATION





MMT – MOBILE MINI
TERMINALS



ATU BITUMEN DISCHARGE
UNITS



ATL & ATLU VEHICLE
LOADING / UNLOADING
UNITS



OIL PUMPING UNITS
OPS-50 / OPS-65 /
OPS-100 / OPS 150



MB25 AND MB50
MODIFIED BITUMEN
PREPARATION UNITS



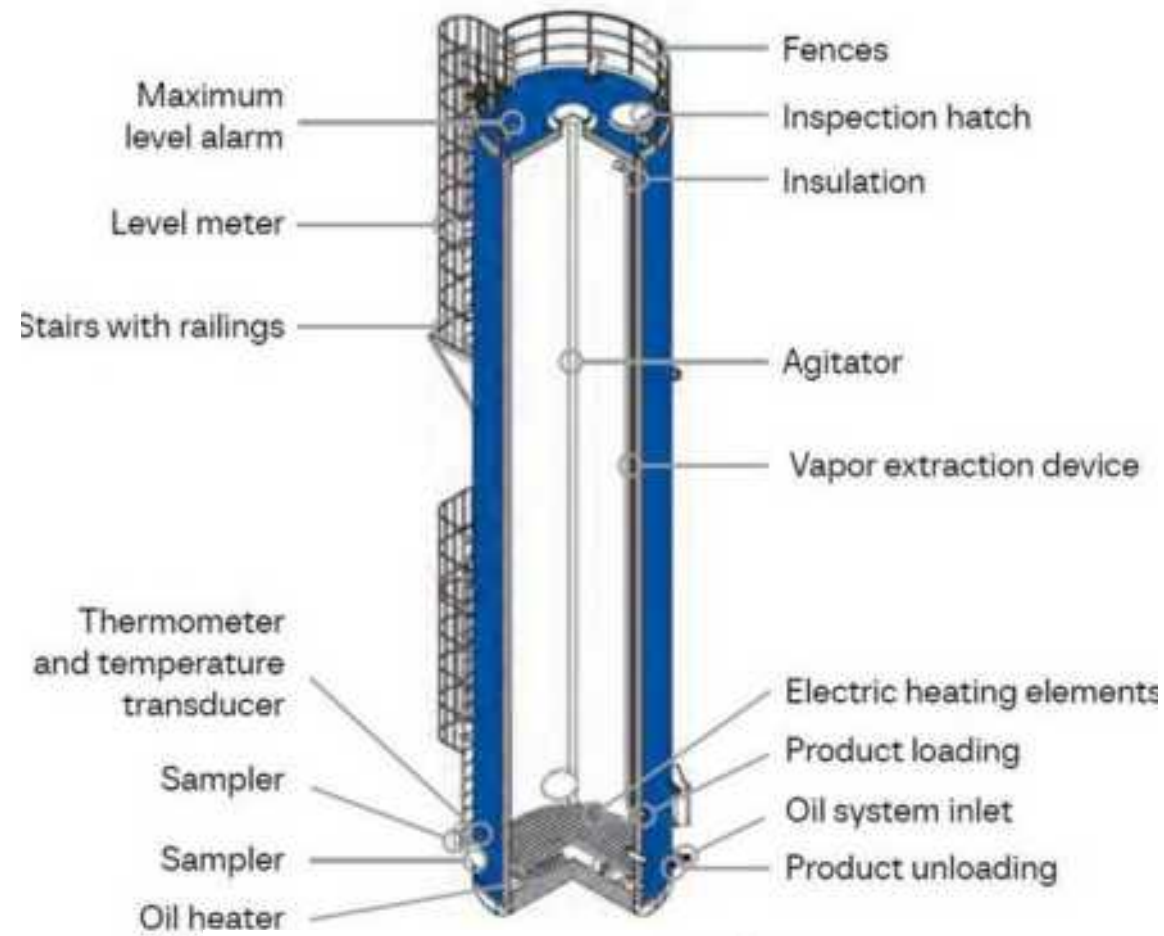
PUMPING UNITS
HPS-30 / HPS-55 / HPS-90 / HPS-120
/ HPS-200



PUMPING & DISTRIBUTION
UNITS
HPDU-90 / HPDU-120 /
HPDU 200



OIL PUMPING &
DISTRIBUTION UNITS
OSM-PS-6 / OSM-PS-12



POCKET TANKS

INTENSIVELY HEATED TANKS



HT-50 D=2,49M H=13,6M
HT-100 D=3,43M H=16,6M



HT-400
D=8,5M H=10M



HT-700
D=10,5M H=10M



HT-1000
D=10,5M H=12M

2000 T

3000 T

4900 T

9000 T



ST-2000
D=15M H=12M



ST-3000
D=15M H=18M



ST-4900
D=19M H=18M



ST-9000
D=26M H=18M



ROOMCONTROL



OPERATIONAL
LOADING

80 tankers or up to 2000 tons
of products per day

ATLU-2
VEHICLE AUTOMATIC LOADING-
UNLOADING STATION

Name Parameter	Index
Capacity range	30-130 m ³ /hour
Diameter of the nominal passage of the filler pipe	150 mm
Product temperature	max. 180°C
Installed power	7,07 kW
Supply voltage <ul style="list-style-type: none"> • Control circuits (built-in transducer) • Power circuits (from an external source) 	24 V 220 V
Number of points	1 – 2
Dimensions (LxWxH)	20x12x7,9 m



Model: **ErichHahn MB-25**
Performance: **25 ton/hour**

Model: **ErichHahn MB-50**
Performance: **50 ton/hour**



Our pumps, drives and shut-off valves



ARU



Heating and discharging time of viscous (dark) oil products from 4-axle tanks:

- at a temperature of +25 °C **7-17 hour**
- at a temperature of -40 °C **10-24 hour**



LABORATORY

All ErichHahn terminal facilities have certified laboratories with world-class modern equipment



AUTOMATION

Automation and software allows you to optimize processes and improve the quality of work at sites



3D MODELLING

creation a digital representation of objects
Design-model

LASER SCANNING

creation a digital representation of objects
As-built Model

DIMENSIONAL COMPLIANCE CONTROL

accurate geometric data of object parts

2D DRAWINGS WITH ACTUAL DIMENSIONS

linkage with other design and construction tools



ADDITIONAL EQUIPMENT

robotic welding complex new production lines

EXPANDING AN EXISTING MANUFACTURING FACILITY

the increasing production volume

SCIENCE-BASED PRODUCTION

provide solutions for new applications

CUSTOMIZATION

provision of custom design solutions



A photograph of an architectural workspace, including a laptop displaying a wireframe model, a desk with blueprints, a pen, and a 3D architectural model of a building. The entire image is overlaid with a semi-transparent blue filter. The text "EXAMPLES OF OUR PROJECTS" is centered in white, bold, uppercase letters.

EXAMPLES OF OUR PROJECTS

PORT OF SILLAMÄE

Customer: EuroChem Terminal Sillamäe AS

Year: 2019

Location: Sillamäe, Estonia

Fabrication and erection of two double shell tanks for the storing of liquid ammonia - each V-30000 tons (\varnothing 52m; H=26m), service metal structures with anticorrosive protection and insulation work



URAL BITUMEN TERMINAL

Construction of an Automated Bitumen Plant-Terminal

- **Location:** Yekaterinburg
- **Site Area:** 8.3 hectares
- **Construction Period:** 3 years
- **Construction Phases:** 4
- **Terminal Capacity:** 50,000 tons

Completed Works:

- Design
- Construction
- Supply and installation of equipment
- Terminal automation



The design takes into account the Client's request to build a terminal with a storage area for 50,000 tons, with the possibility of expanding to 100,000 tons.



ERICH Hahn and MIAT equipment



TURUKHTANNYE ISLANDS MARINE FUEL TERMINAL

Development and construction of a unique marine fuel terminal. The fuel terminal is undergoing full automation of technological processes.

Design capacity: 42,000 tons
Construction period: 3 years
Construction in 2 phases

Work completed on the project:

- design
- construction
- supply and installation of equipment
- terminal automation with the implementation of control



For which areas do we offer our pumps

Liquid and viscous media

Animal feed
Bentonite
Clean or dirty solvents
Cooling milk
Diesel
Fertilizer
Firefighting water
Flood drainage
Gasoline

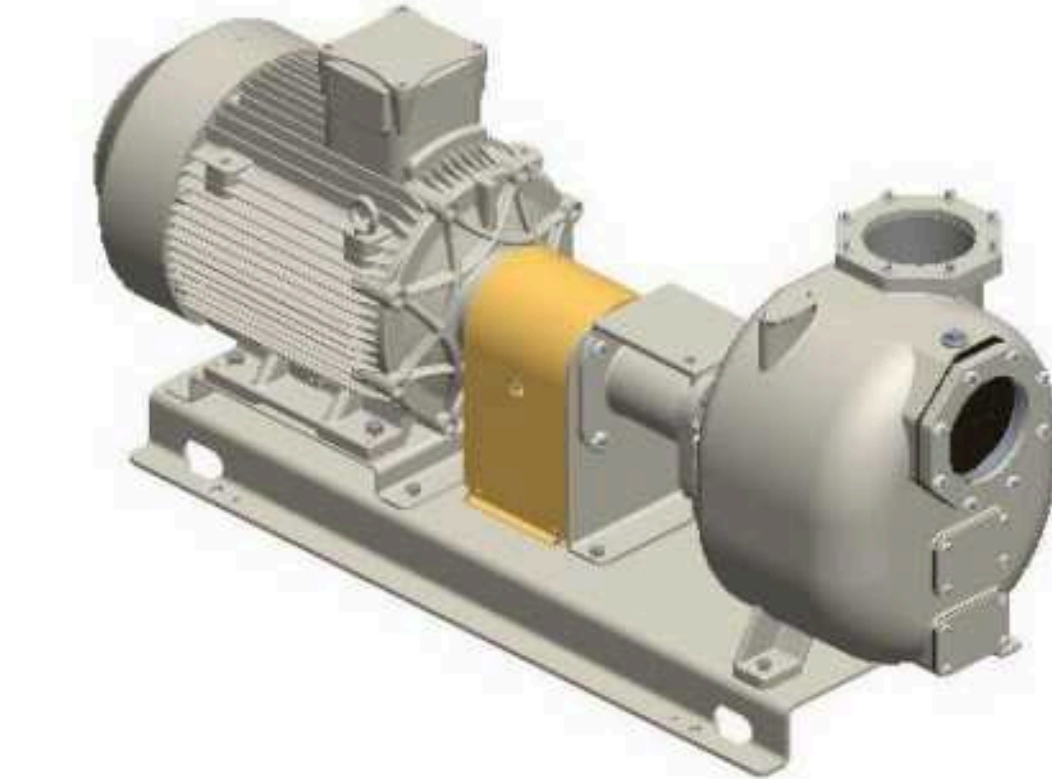
Transformation oil
Washing fluids
Wastewater
Water with cutting sand
Water with sludge
Water with sand
Water with solids
...and many more.

Light oil
Lime milk
Slurry
Mustard
Petroleum products
Rainwater
River water
Soda
Swamp water
bitumen
Fuel oil
Tar...



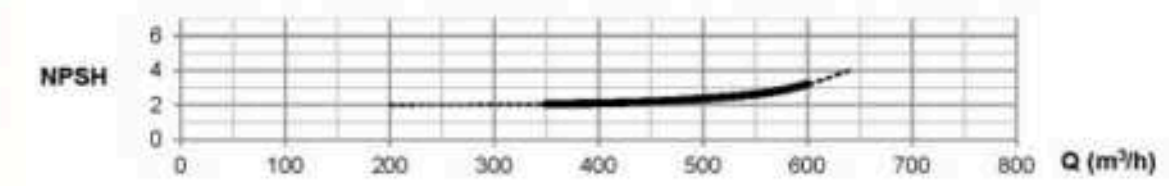
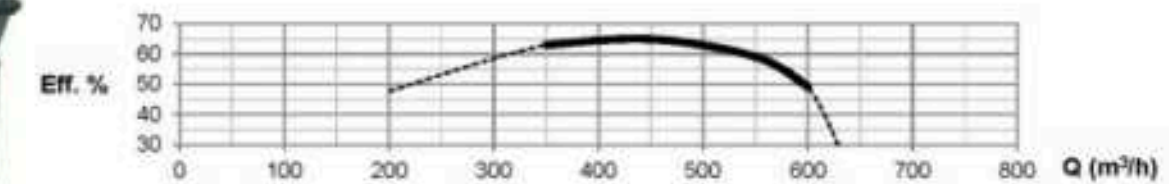
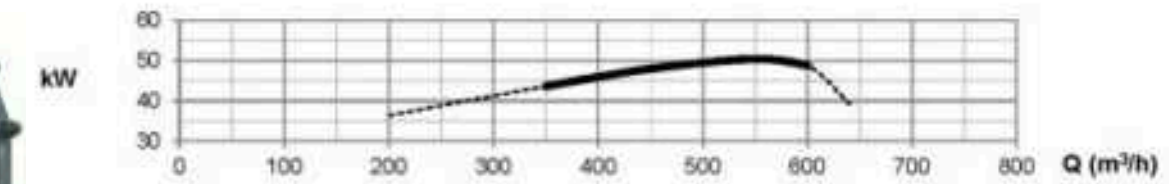
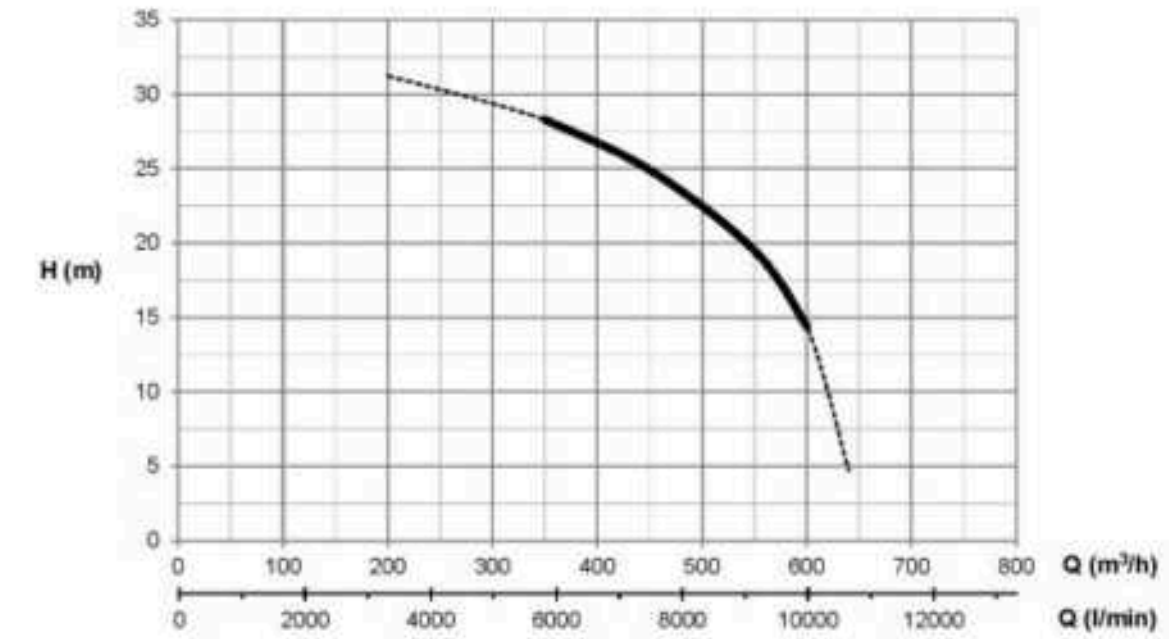
Pump flow rate S

- 600 m³/h (10000 l/min)
- max 40 m³/h (655 l/min)
- max 45 m³/h (750 l/min)
- max 55 m³/h (900 l/min)
- max 75 m³/h (1250 l/min)
- max 85 m³/h (1400 l/min)
- max 95 m³/h (1580 l/min)
- max 110 m³/h (1800 l/min)
- max 140 m³/h (2333 l/min)
- max 150 m³/h (2500 l/min)
- max 180 m³/h (3000 l/min)
- max 22 m³/h (360 l/min)
- max 260 m³/h (4300 l/min)
- max 340 m³/h (5667 l/min)
- max 350 m³/h (5.500 l/min)
- max 83 m³/h (1383 l/min)



S230+50 - 50 Hz

„aufrad:		Feststoffe bis:		Umdrehung:	
mpeller:	Ø 352 mm	Solids up to:	72 mm Ø	Speed:	1450 min-1
Girante:		Solids fino a:		Velocità:	



Variants - S

Stationary



Our pumps are suitable for shipbuilding, oil terminals, agriculture, chemical plants and more...



Variants - S

Mobile diversity



Water with sand...



Rainwater...



Variants - R

Internal gear pumps

For liquids of any viscosity and temperature, which can be corrosive, abrasive and dangerous for the environment. Non pulsating constant flow, therefore no vibrations on fittings, valves or couplings. Full performances are available in either direction of rotation. It can also be requested with heating jackets, with ports at 90° or 180°.

Heavy-duty construction optimized for rare maintenance. Produced in different versions depending on the specific application. Used by transfer, dosage, processing, load and unload.

In chemical, ink, paint, construction, chocolate and oil-industry, in refineries and storage facilities. Also with ATEX Certificate.

Typical Applications

- Additives
- Adhesive
- Asphalt
- Bitumen
- Chemicals
- Chocolate
- Coal Tar
- Coatings
- Colours
- Cream
- Creosote
- Diesel Fuel
- Emulsions
- Epoxyresins
- Fats
- Foams
- Fuel oil
- Gasoline
- Gelatine
- Glucose
- Glue
- Glycerine
- Glycol
- Grease
- Heat transfer oil
- Hot melt
- Ink
- Isocyanate
- Kerosene
- Lacquer
- Lube oil
- Mineral oil
- Molasses
- Naphtha
- Oil
- Paint
- Paraffin
- Petrol
- Pitch
- Polymer
- Polyol
- Printing ink
- Resin
- Soap
- Starch
- Tar
- Varnish
- Viscose
- Wax
- ...and many more.



Variants - R



R250

KHDIII+Y/305RN92+191T754-K
 → 8" cast iron internal gear pump, with packing, heating jacket around the casing and integrated safety relief valve; pump painted black paint for high temperature.
 For pitch.
 Capacity 230 m³/h;
 Pressure 4 bar



R 50

G26EM+Y+2A/88RN172+369De16-K
 → 2" internal gear cast iron pump, with integrated safety relief valve, magnetic coupling, with ATEX certificate. For isocyanate.
 Capacity 5 m³/h;
 Pressure 2 bar



R105

G47B+Y+2A/152RN872+461De154
 → 4" cast iron internal gear Atex pump, with mechanical seal and secondary lip-seal, integrated safety relief valve and 15 kW geared motor on base plate.
 For vegetable oil (4-40 cPs).
 Capacity 60 m³/h;
 Pressure 4,5 bar



Packing gland: available in GFO© Graphite filled PTFE or White Lubricated PTFE (Food grade).



Mechanical seal available in different materials.



Cartridge mechanical seal available in different materials.



Seal-less with heavy-duty magnetic coupling.



R 35

HRV1BF6+Y+FS+FRS6RN01+150T06-K
 → 1¼" Cast iron internal gear pump, with heating jacket around the casing with counter-flanges to weld; painted black paint for high temperature. For wax. Capacity 0,5-1,4 m³/h; Pressure ~5 bar.

Specifications

Features

Type of pump	Internal gear pumps
Pumped product	Vegetable Oil, Fuel oil, Coconut oil, Linseed oil, Mineral oil

WE CARE FOR ACTUATION



Linear Actuators PSF-EX / PSF-M-EX
Explosion-proof linear actuators with mechanical failsafe function or manual override



Ex-Proof Actuators



Smart Quarter-turn Actuators PS-AMS PSQ
Smart actuator solution for Quarter-turn Actuators up to 3000 NM



PS-AMS PSQ-S
Intelligent quarter-turn actuator with a new compact actuator housing and Wi-Fi Access Point for easy and wireless parameterisation and operation



Drive bush is used for mechanical connection between a quarter-turn actuator and a valve shaft. There are various machinings available such as square, double d, keyway.

TAILOR-MADE SOLUTIONS FOR FLUID TRANSFER SYSTEMS

We design and produce systems for fluid transfer, including pumping and metering skids, loading and unloading arms for tankers, floating suction units for tanks, tanker access platforms, folding stairs with safety cages.

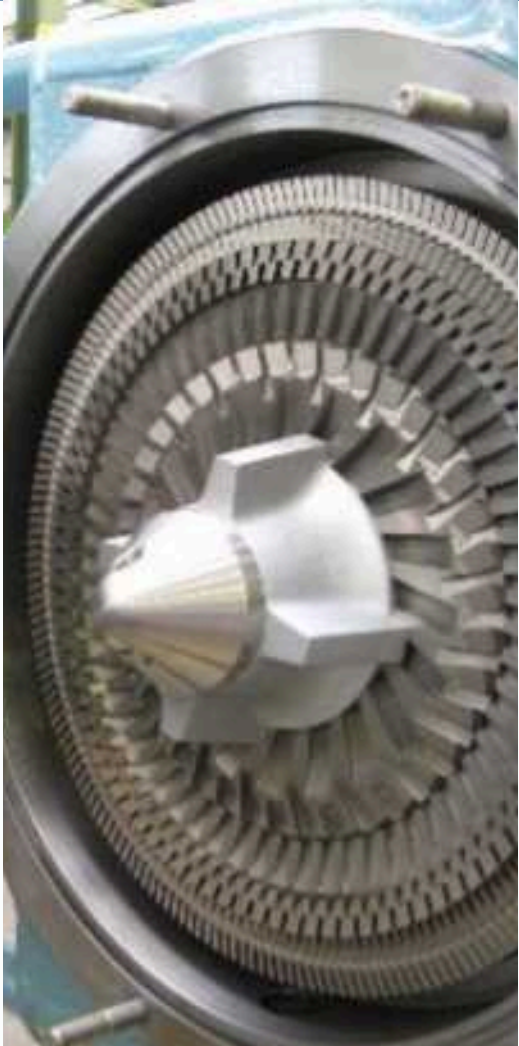


SIEFER TRIGONAL® machines and MIAT Trading GmbH as trading partner

Type SM-D3 and SM-D3/HK (heating/cooling jacket)



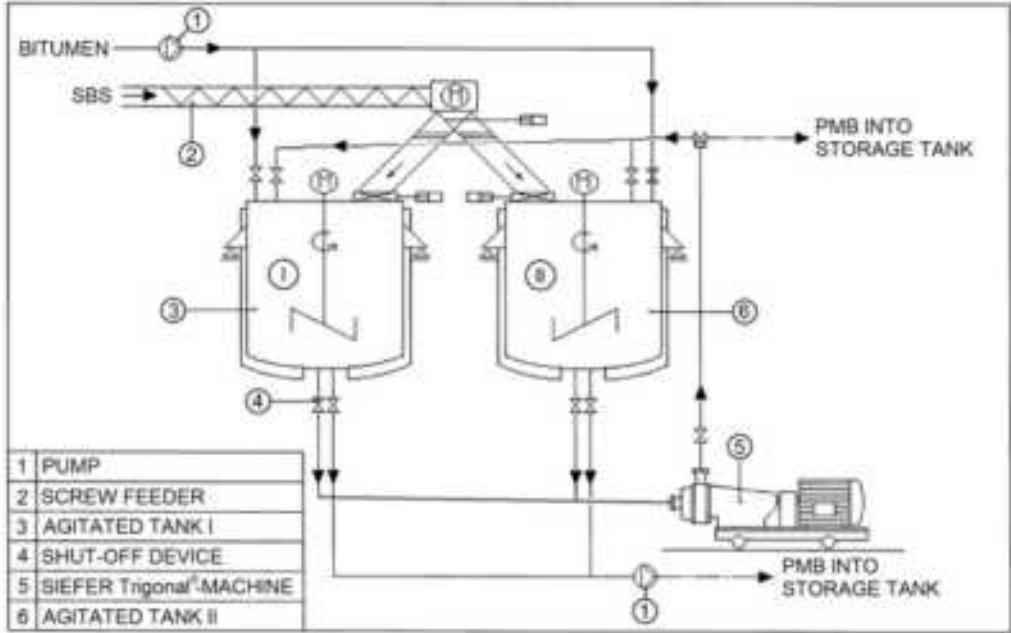
Our most powerful and high-performance machine! With the SM-D3, you'll always have plenty of power. Despite its low speeds, the SM-D3 impresses with unique performance features: a maximum drive power of 250 kW, a discharge pressure of 8 bar, and a throughput of up to 250 cubic meters per hour (based on water). Ideal for industries where power and high production volumes are important.



Performance reserves

The SM-D3 is a giant. It processes particle sizes up to 50 mm in diameter. The suction and discharge connections are 150 mm (DIN) and 6 inches (ANSI) for large-scale applications. Weighing in at 960 kg and 980 kg (including heating/cooling jacket), it's certainly not a lightweight—it's more like a rock in the surf. The dimensions are 1,450 x 800 x 835 mm and 1,450 x 900 x 835 mm (L x W x H in mm). With this machine, you'll always have plenty of power in reserve.

Are you interested in the SM-D3 / SM-D3 HK?



SIEFER TRIGONAL® machines and MIAT Trading GmbH as trading partner

Type SM290/HK (heating/cooling jacket)



The SM 290 is versatile and suitable for use in numerous industries – from agrochemicals, food, paper and recycling to paints, pet food, and cosmetics. The machine weighs 265 kg or 275 kg (with heating/cooling jacket) and is characterized by its extremely compact design (1,000 x 500 x 500 mm and 1,000 x 580 x 580 mm with heating/cooling jacket), which is comparable to its performance.

Lower speed, powerful drive power

Compared to the SM 180, the SM 290 impresses with its more powerful drive: With comparatively low speeds between 1,500 and 3,600 revolutions per minute, the machine generates an impressive 110 kW of drive power. This translates to a truly high throughput: 120 cubic meters per hour (based on water) are possible. Particle sizes of up to 30 mm in diameter are no problem. This offers considerable performance potential that future-proofs your production.

Are you interested in the SM 290 / SM 290 HK?



SM180/ HK



SM290/ HK



EUROCHEM AMMONIA TERMINAL

Customer: EuroChem Terminal Sillamäe AS

Year: 2017-2020

Location: Sillamäe, Estonia



Two double wall tanks 47,200 m³

Product pipelines delivery and erection (tank farm and export pipelines), construction of foundations, flare stack supports and service metal structures, including corrosive protection and insulation.



PALDISKI TERMINAL



Kohimo specializes in the fabrication and installation of steel tanks, pipes, pipelines, and railway loading/discharging stations, and has the capability to design tanks of various volumes.



OILTANKING TERMINAL

Port of Muuga, Estonia



EURODEK TERMINAL

Port of Muuga, Estonia



PUMA ENERGY BALTICS AS

The terminal in **Sillamäe, Estonia**, has a park of approximately **300,000 m³**



BITUMEN TERMINAL "BITPOLYMER"

Construction period: 3 years
Facility area: 3.17 hectares

Terminal capacity:

- unloading of railway tankers: 80,000 tons/year
- unloading of road transport: 40,000 tons/year
- loading of road transport: 120,000 tons/year
- storage of viscous petroleum products (tank farm volume: 41,200 m³)
- production of modified bitumens: 50,000 tons/year

Design work duration: 18 months



The constructed boiler installations are designed as a unified energy complex capable of supplying the entire technological process at the facility.

In the first phase, a tank farm of 20,000 tons has been installed with a heating system for the tanks.

OUR PARTNERS





Germany

**WE INVITE YOU
TO COLLABORATE**



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