

STORAGE TANKS

for viscous and solidifying
fluids



Since 2014, ErichHahn has been designing and supplying equipment for the production, storage, and transportation of viscous and solidifying fluids. Our cumulative knowledge and experience allow us to be a provider of advanced industrial solutions on both regional and global levels. We deliver pumping equipment to the suppliers of bitumen for road construction, including terminals for storage and transportation of viscous and solidifying fluids, mobile and stationary modular plants, and units designed in accordance with individual customer requirements.

Storage tanks for viscous and solidifying fluids manufactured by ErichHahn are parts of advanced equipment designed for product receiving, metering, storing in a liquid state and dispensing to consumers. Storage facilities for liquid products can be used as process equipment in various climatic conditions. Areas of application include the oil refining, petrochemical, chemical, food and road construction industries. ErichHahn's wide range of vertical cylindrical tanks allows us to offer products and solutions that optimally meet the requirements of customers from different industries.

ErichHahn's mission is to apply our technology and engineering expertise to improve our customers' production processes.

We strive to be a driving force behind our customers' process improvements, business development and production culture, following the principles of innovation, customer focus, reliability, safety and competence.



ErichHahn MT 4

MOBILE HEATING TANK

- Easy Road Transport
- Quick on-site installation
- Turnkey solution for receiving, metering and storing products

ErichHahn HT 6

HEATING TANK

- Tank volumes from 400 to 950 m³
- Maintaining homogeneity of viscous and solidifying fluids during storage
- Faster heating and storage of products without loss of quality

ErichHahn ST 8

STORAGE TANK

- Tank capacity from 4900 to 10,000 m³
- Minimal loss of the product thermal energy during storage
- The tanks can be combined into a tank farm

ErichHahn Tank Equipment 10

ErichHahn Facilities 12

ErichHahn Facilities 13

ErichHahn MT

MOBILE HEATING TANK

Application Area

ErichHahn MT tank is designed for receiving, metering, storing, maintaining physical and chemical properties and dispensing of viscous and solidifying fluids. Mobile tanks have a small footprint and are easily transported by road. The equipment is used in the oil refining, chemical, road construction, food, and other industries.

Specifications

- Storage capacity: 30 / 50 / 80 / 100 m³
- Heating system: thermal oil heating system
- Max. process temperature: 180°C
- Dimensions (diameter x height):
 - 30 m³ (2.5 m x 6.7 m)
 - 50 m³ (2.5 m x 13.6 m)
 - 80 m³ (2.7 m x 15.6 m)
 - 100 m³ (3.4 m x 17 m)

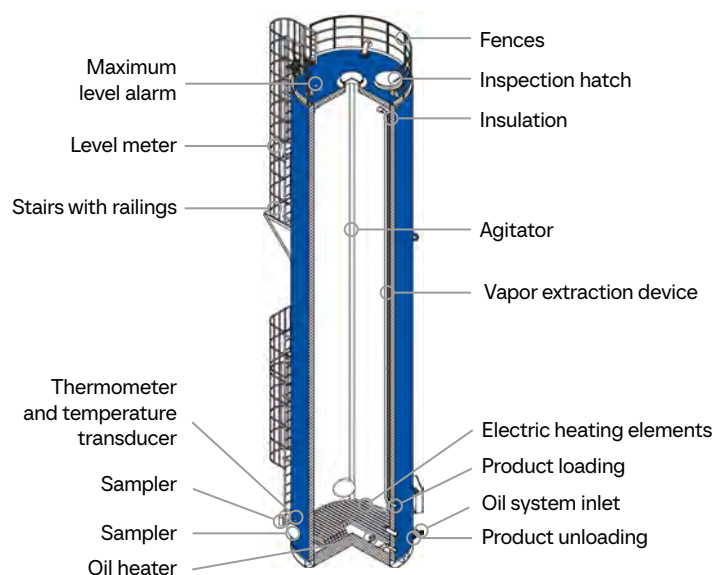
Scope of Delivery

- Product storage tank
- Thermal oil heating system
- Thermal insulation of walls, roof and bottom of the tank
- Control and fire safety system
- Product temperature monitoring system
- Overflow prevention system
- Vapor extraction system
- Stairs with railings

Why choose ErichHahn MT?

- The complete set of a tanks meets the requirements of asphalt plants and polymer-bitumen binder production facilities
- Easy operation and minimal maintenance of the tank
- Combined tank heating system based on thermal oil and heating elements
- The tank is supplied with a control cabinet.
- High mobility, easy road transportation
- Scalable architecture allows you to build a tank farm depending on the needs of an enterprise

Tank Specification



Key Specifications

Model	MT-30	MT-50	MT-80	MT-100
Application	Viscous and solidifying fluid			
Max. process temperature [°C]	200			
Tank capacity [m³]	30	50	80	100
Inner diameter [mm]	2150		3000	
Height [mm]	8200	13700		16410
Weight [kg]	7000	8500	12000	13000
Tank equipment				
Tank loading type	Top			
Tank discharge type	Bottom			
Overfill protection device	Provided			
Sampler	Provided			
Ventilation pipe	Provided			
Bimetallic thermometer	Provided			
Catwalk	Option			
Control cabinet	Provided			
Vertical agitator (M)	Option			
Electric heating system. Flush heaters (E)	Option			
Steelwork parameters				
Number of tank courses	6	9	11	
Course 1-2 thickness [mm]	8			
Course 3-4 thickness [mm]	6			
Other courses [mm]	5			
Thickness of roof sheathing [mm]	5			
Bottom thickness [mm]	10			
Insulation				
Wall insulation thickness [mm]	150		200	
Roof insulation thickness [mm]	200			
Sheathing material	Polymer coated steel sheet			
Tank heating system				
Oil heaters	Provided			
Heat transfer fluid	Thermal oil			
Oil pipeline connection [mm]	50			
Maximum oil temperature at 0.6 MPa, [°C]	200			
Instrumentation				
Level meter	Provided			
Maximum level alarm	Provided			
Temperature transducer (for high viscous fluid)	Provided			
Gate valve with electrical actuator. DN [mm]	100 (optional)		150 (optional)	

Note: *Specifications are subject to change without notice.



ErichHahn HT

HEATING TANK

Application Area

ErichHahn HT tank is designed for receiving, metering, long-term storing, maintaining physical and chemical properties, and dispensing viscous and solidifying fluids to consumers. Tank equipment can be applied as process reservoirs in the oil refining, chemical, road construction, food, and other industries. The tanks can be combined into a tank farm.

Specifications

- Storage capacity: 400 / 700 / 950 m³
- Heating system: thermal oil heating system
- Max. process temperature: 160°C
- Dimensions (diameter x height):
 - 400 m³ (8.5 m x 9 m)
 - 700 m³ (10.4 m x 9 m)
 - 950 m³ (10.4 m x 12 m)

Scope of Delivery

- Product storage tank
- Thermal oil heating system
- Product loading system
- Control and fire safety system
- Product temperature monitoring system
- Overflow prevention system
- Vapor extraction system
- Service platforms & fencing
- Stairs with railings

Why choose ErichHahn HT?

- Easy operation and minimal maintenance of the tank
- Functional reliability ensures the highest product quality
- High level of automation and safety in the storage, receipt, and dispensing of the product
- Scalable architecture allows you to build a tank farm depending on the needs of an enterprise

Tank Specification



Key Specifications

Model	HT-400	HT-700	HT-950
Climate conditions	Temperate climate		
Ambient temperature [°C]	-40 to +40		
Application	Viscous and solidifying fluid		
Max. process temperature [°C]	160		
Nominal capacity [m³]	400	700	950
Inner diameter [mm]	8500	10430	
Height [mm]	9000		12000
Weight [kg]	20000	27530	31830
Tank equipment			
Tank loading type	Provided		
Tank discharge type	Provided		
Side agitator, 2 pcs.	Option		
Stairs with railings	Hoop ladder		
Inspection hatches	Provided		
Vapor extraction device	Provided		
Emergency overfill protection	Provided		
Control cabinet	Provided		
Steelwork parameters			
Number of tank courses	6		8
Course 1-2 thickness [mm]	4	5	
Course 3-4 thickness [mm]	4	5	
Course 5-11 thickness [mm]	4	5	
Thickness of roof sheathing [mm]	4		
Bottom thickness [mm]	4	5	
Wall construction	Rolled		
Bottom construction	Rolled		
Roof construction	Framed, conical		
Insulation			
Wall insulation thickness [mm]	200		
Roof insulation thickness [mm]	200		
Sheathing material	Polymer coated steel sheet		
Loading system			
Tank loading type	Top		
Gate valve with electrical actuator	Provided		
Connection flange, DN [mm]	150		
Discharge system			
Tank discharge type	Bottom		
Gate valve with electrical actuator	Provided		
Connection flange, DN [mm]	150		
Tank heating system			
Number of oil heater sections	4	6	
Heat transfer fluid	Thermal oil		
Maximum oil temperature at 0.6 MPa, [°C]	200		
Oil manifold			
Pressure sensor	Provided		
Temperature sensor	Provided		
Gate valve with electrical actuator	Provided		
Connection flange, DN [mm]	100		
Instrumentation			
Radar level transmitter	Provided		
Maximum level alarm	Provided		
Temperature transducer	Provided		
Gate valve with electrical actuator	Provided		

Note: *Specifications are subject to change without notice.



ErichHahn ST

STORAGE TANK

Application Area

ErichHahn ST tank is designed for receiving, metering, storing, maintaining physical and chemical properties, and dispensing viscous and solidifying fluids to consumers. Tank equipment can be applied as process reservoirs in the oil refining, chemical, road construction, food, and other industries. Tanks can be used for the building of storage tank farms.

Specifications

- Storage capacity: 4900 / 9000 / 10000 m³
- Heating system: thermal oil heating system
- Max. process temperature: 160°C
- Dimensions (diameter x height):
 - 4900 m³ (19 m x 18 m)
 - 9000 m³ (26 m x 18 m)
 - 1000 m³ (26 m x 20 m)

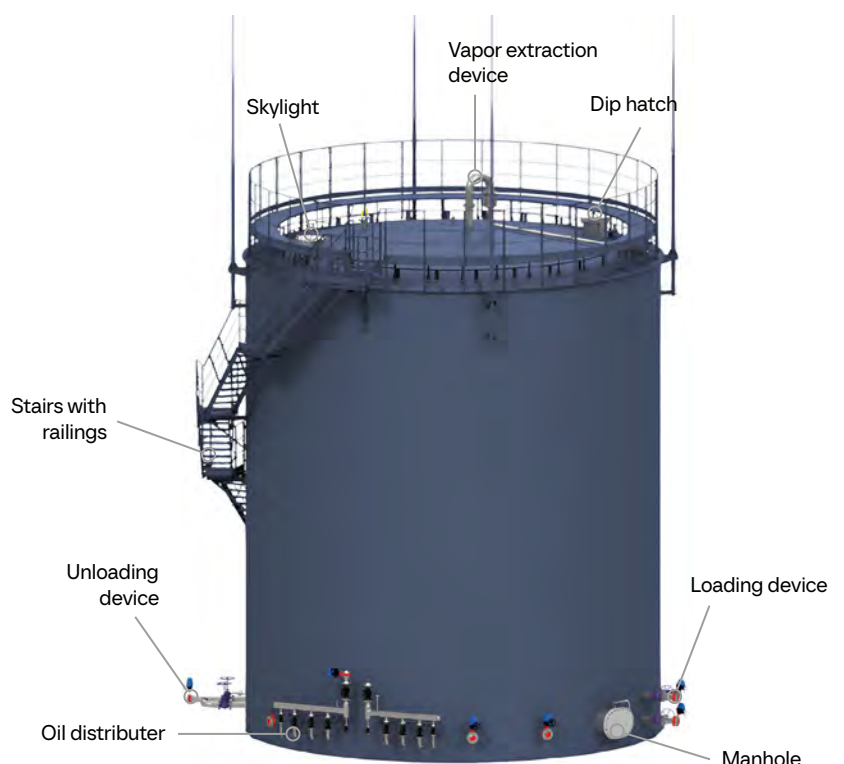
Scope of Delivery

- Product storage tank
- Thermal oil heating system
- Product loading system
- Control and fire safety system
- Product temperature monitoring system
- Overflow prevention system
- Vapor extraction system
- Service platforms & fencing
- Stairs with railings

Tank Specification

Why choose ErichHahn ST?

- Easy operation and minimal maintenance of the tank
- Functional reliability ensures the highest product quality
- High level of automation and safety in the storage, receipt, and dispensing of the product
- Scalable architecture allows you to build a tank farm depending on the needs of an enterprise
- Tanks are manufactured as per standard design or based on custom requirements



Key Specifications

Model	ST-4900	ST-9000	ST-10000
Climate conditions	Temperate climate		
Ambient temperature [°C]	-40 to +40		
Application	Viscous and solidifying fluid		
Max. process temperature [°C]	160		
Nominal capacity [m³]	4900	9000	10000
Tank capacity [m³]	4848	8200	9000
Inner diameter [mm]	19000	26000	
Height [mm]	18000		
Weight [kg]	144030	178160	197950
Tank equipment			
Sampler	Provided		
Bimetallic thermometer	Provided		
Side agitator, 3 pcs.	Option		
Stairs with railings	Hoop ladder		
Inspection hatches	Provided		
Vapor extraction device	Provided		
Emergency overfill protection	Provided		
Control cabinet	Provided		
Steelwork parameters			
Number of tank courses	12	9	
Course thickness [mm]	12 to 6	14 to 6	
Thickness of roof sheathing [mm]	4		
Bottom thickness [mm]	4	6	
Wall construction	Rolled		
Bottom construction	Rolled		
Roof construction	Framed, conical		
Insulation			
Wall insulation thickness [mm]	200		
Roof insulation thickness [mm]	200		
Sheathing material	Polymer coated steel sheet		
Loading system			
Tank loading type	Top		
Gate valve with electrical actuator	Provided		
Connection flange, DN [mm]	150		
Discharge system			
Tank discharge type	Bottom		
Gate valve with electrical actuator	Provided		
Connection flange, DN [mm]	150		
Tank heating system			
Number of oil heater sections	4	6	
Heat transfer fluid	Thermal oil		
Maximum oil temperature at 0.6 MPa, [°C]	200		
Oil manifold			
Pressure sensor	Provided		
Temperature sensor	Provided		
Gate valve with electrical actuator	Provided		
Connection flange, DN [mm]	100		
Instrumentation			
Radar level transmitter	Provided		
Maximum level alarm	Provided		
Temperature transducer	Provided		
Gate valve with electrical actuator	Provided		

Note: *Specifications are subject to change without notice.



ErichHahn Tank Equipment



UNLOADING DEVICE

The unloading device is designed to unload tanks and release product from the bottom residue. It comprises a pipeline and shut-off valves.



TANK HEATING SYSTEM

Designed to heat the product to the required temperature. Heaters are located at the bottom of the tank.



SIDE MIXING DEVICE

Designed for homogenising high viscous fluids stored in tanks. The agitator is mounted on the side of the tank, at an angle of 90° to the vertical.



OIL MANIFOLD

The oil distributor is designed for uniform distribution of the heat transfer fluid to the tank heaters. The oil manifold is located next to the tank.



LOADING DEVICE

It enables top loading and prevents splashing of the poured product during loading. The inlet is brought above the maximum level. The whole system is mounted to the inner part of the tank.



VERTICAL AGITATOR

Designed for mixing viscous solidifying fluids and giving them a homogeneous consistency. The agitator is mounted on top of the tank along its vertical axis or with a slight eccentric displacement of the shaft.

APPLICATION OF ERICHHAHN SOLUTIONS

Industry	Process	Fluid
Oil refining	Pumping, storage and transportation of high-viscous fluids	Bitumen
		Vacuum distillate
		Tar
		Half-tar
		Half-tar
Building and road construction	Production of construction materials, pumping, and storage of raw materials	Asphalt concrete and bitumen-mineral mixtures
		Silicate adhesive (liquid glass)
		Plastisol
		Liquid pitch
		Pyrolysis fuel
Energy	Heating. Circulation of heat transfer fluid	Thermal oil
Pulp and paper	Pumping and storage of raw materials	Starch glue
		Phenol-formaldehyde resin
		Sodium sulfide solution
Chemistry	Production of paints and varnishes, plastics, adhesives, synthetic dyes, synthetic rubber, detergents, and cosmetics. Pumping and storage	Phenol-formaldehyde resin
		Acrylic dispersion
		Furan acid
		PVA glue
		Sodium lauryl ether sulfate
		Paints and varnishes
		Polyol
		Silicone
		Soap stock
		Oleum
		Petrolatum
		Pyrolysis fuel
Petrochemicals	Manufacturing of products and raw materials. Pumping and storage	Thermal oil
		Oxyethylidene diphosphonic acid OEDPA
		Paraffin
		Dielectric oil
		Petroleum softener PN-6
		Cylinder oil 38
		Match wax
		Engine oil
		Aviation oil
Pharmaceuticals	Manufacturing of products. Pumping and storage of raw materials	Fish oil
		Glycerin
		Plastisol
		Carbolic acid
		Furan acid
Food production	Manufacturing of products. Pumping and storage of raw materials	Animal and vegetable fat
		Olive oil
		Coconut oil
		Fish oil
		Glycerin
		Hydro processed oil sludge
		Caramel
		Molasses
		Vegetable and fruit puree
		Suspensions and syrups of various viscosities
		Chocolate mass
		Syrup

Note: For information on each solution, please contact ErichHahn.

Bitumen terminal, Yekaterinburg
Mobile heating tanks ErichHahn MT



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Mobile heating tanks ErichHahn MT



ОБЪЕКТЫ ERICHHAHN

Bitumen terminal, Yekaterinburg
Heating tanks ErichHahn HT



Bitumen terminal, Salsk
Heating tanks ErichHahn HT





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