

# Steel tanks

for the industry



- Storage or Process tanks
- Single or Double wall tanks
- Underground or Aboveground installation
- Atmospheric or Pressure tanks
- Capacities from 5 m<sup>3</sup> to 600 m<sup>3</sup>
- Tanks for Bitumen
- Tanks for Process chemicals
- Tanks for Gases
- Tanks for corrosive and/or toxic liquids





# Tanks for a wide range of industrial applications

CGH Group has many years of experience in the design and production of tanks for industrial applications. We deliver our tanks to markets worldwide. Our production centers are located in Poland and South Africa.

## Our Commitment to Quality and Innovation

*Our strength lies in the delivery of the highest quality product, made possible through state-of-the-art technology:*

- Heinrichglück's automated production line ensures impeccable assembly.
- CGH Group employ submerged arc welding with premium welding materials for both internal and external welds.
- Surface cleaning is carried out to achieve Sa 2.5 cleanliness standards according to ISO 8501-1.
- The external Endoprene PUR coating is applied automatically.
- Stringent quality control includes non-destructive testing of welded joints and the integrity of the outer coating, with testing conducted at a 10 kV voltage.

**These steps guarantee a product of the utmost excellence, reflecting our commitment to quality and innovation**



## **Vertical CO<sub>2</sub> tanks**

- Aboveground, vertical, single wall tanks in P355NL steel
- Capacity: 80 m<sup>3</sup>, diameter: 2900 mm
- Medium: gas and liquid CO<sub>2</sub>
- Norm: EN 13445
- Operating pressure: -1 to +50 bar
- Design and working temperature: -40 °C / +50 °C
- Prepared for 200 mm PUR isolation



## **Hydrogen tanks**

- Aboveground, vertical, single-walled tanks, made of AISI 316L stainless steel
- Capacity: 10 m<sup>3</sup>, diameter: 1600 mm
- Medium: hydrogen
- Norm: AD 2000 with TÜV approval
- Operating pressure: 30 bar
- Design temperature: -20 °C / +50 °C



## **Hot water storage tanks**

- Aboveground, vertical, flat bottom tanks, made of S235 steel
- Capacity: 28 m<sup>3</sup>, diameter: 3200 mm
- Medium: hot water
- Norm: AD 2000
- Working pressure: atmospheric
- Design temperature: -29 °C / +90 °C
- Tank equipped with heating cables or piping and insulated with a 100 mm thick thermal insulation, covered with aluminium sheets
- Corrosion resistance class C4M
- Tanks can be equipped with ladder and platform



## **Tanks to store produced water from oil and gas wells**

- Aboveground, horizontal, double-wall tanks, made of P355NH steel
- Capacity: 50 m<sup>3</sup>, diameter: 2500 mm
- Medium: reservoir produced water from oil and gas wells, saline water with hydrocarbons
- Norm: EN 13445
- Working pressure: up to 0,5 bar
- Design temperature: -29 °C / +50 °C
- Tank equipped with pressure heating steam coils in AISI 304L steel and insulated with a 100 mm thick thermal insulation, covered with aluminium sheets



## **Tanks for corrosive and toxic liquids**

- Underground, horizontal, double-wall tanks
- Inner wall AISI 304L stainless steel, outer wall S235 steel
- Capacity: 108 m<sup>3</sup>, diameter: 2900 mm
- Medium: corrosive and toxic liquids
- Norm: EN 12285-1
- Working pressure: atmospheric
- Design temperature: -20 °C / +50 °C
- The external walls are coated with polyurethane, the inner walls are pickled and passivated



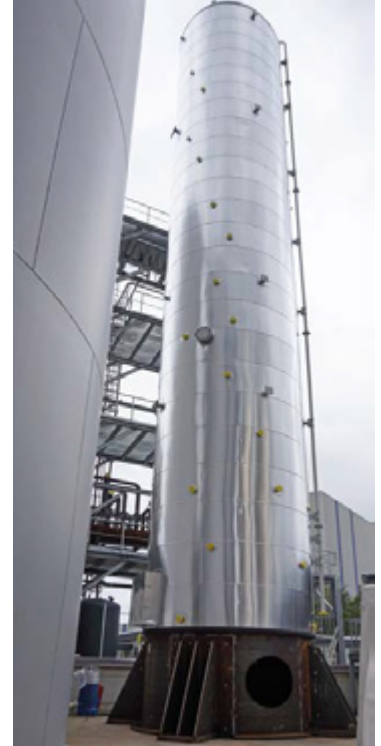
## **Phenol storage tanks**

- Aboveground, vertical, single-wall tanks, made of AISI 304L stainless steel
- Capacity: 65 m<sup>3</sup>, diameter: 3200 mm
- Medium: phenol
- Norm: EN 13445
- Working pressure: 0,15 bar
- Design temperature: -20 °C / +60 °C
- Working temperature: +50 °C / +60 °C
- Tanks equipped with heating coils and insulation
- Tanks can be equipped with ladder and platform



## **Tanks for industrial and automotive lubricants**

- Aboveground, vertical, single-wall tanks, made of P355 steel
- Capacity: 200 m<sup>3</sup>, diameter: 3400 mm
- Medium: lubricants, flammable liquids
- Norm: AD 2000
- Working pressure: 0,55 bar
- Design temperature: -10 °C / +110 °C
- The tanks are heated using a clamp-on pillow plate heating system. Clamp-on pillow plates are stainless steel panels mounted on the tank's outer shell and filled with a heating medium.



## **Process water tanks**

- Aboveground, horizontal, single-wall tanks, made of AISI304L stainless steel
- Capacity: 30 m<sup>3</sup>, diameter: 3000 mm
- Medium: process water
- Norm: EN 13445, in acc. with PED 2014/68/EU
- Working pressure: 11 bar
- Design temperature: 0 °C / +130 °C
- The tanks are equipped with cradles made of carbon steel, protected with an anti-corrosion painting system in class C4M.



## **Tanks for CHP/power generators supply**

- Aboveground, horizontal, double-wall tanks, made of S235 steel
- Capacity: 2 x 80 m<sup>3</sup>, 1 x 5 m<sup>3</sup>
- Medium: diesel
- Norm: EN 12285-2
- Working pressure: atmospheric
- Design temperature: -20 °C / +50 °C
- Tank equipped with a pump system for unloading transport tankers and filling the 5 m<sup>3</sup> daily tank
- Tanks are mounted on skid to allow easy relocation.



## **Tanks to store polyols and isocyanates**

- Aboveground, vertical, with single-wall tanks, made of S235 steel
- Capacity: 50 m<sup>3</sup>, diameter: 3300 mm
- Medium: polyols, isocyanates, TDI, MDI
- Norm: AD 2000
- Working pressure: up to 0,5 bar
- Operating temperature: +5 °C / +40 °C
- The tanks are painted in different colours with C3M class corrosion protective paint. The colour depends of in which location of factory hall they are the installed. Internal corrosion protection is obtained with oil, also ensuring the cleanliness of the medium.



## **Tanks for asphalt and bitumen**

- Aboveground vertical, single-wall tanks, made of S235 steel
- Capacity: 60 m<sup>3</sup>, diameter: 2900 mm
- Medium: asphalt / bitumen
- Norm: DIN6618 or AD 2000
- Working pressure: atmospheric
- Operating temperature: 0 °C / +180 °C
- The tanks are fully prepared for a heating system.
- The all-around insulation is covered with a second dished end on the top.



## **Ethyl acetate tanks**

- Aboveground, vertical, single-wall tanks, made of AISI 304L stainless steel
- Capacity: 15,4 m<sup>3</sup>, diameter: 2500 mm
- Medium: ethyl acetate
- Norm: AD 2000
- Working pressure: atmospheric
- Operating temperature: 0 °C / +40 °C
- Measures & Weights approved liquid level probes for operation in a customs warehouse.



## **Urea tanks**

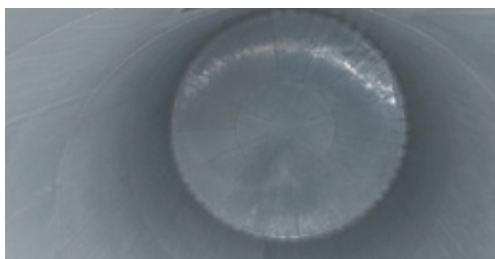
- Aboveground, single-wall tanks, made of AISI 316L stainless steel
- Capacity: 129 m<sup>3</sup>, diameter: 3400 mm,
- Medium: urea
- Norm: EN 13445
- Working pressure: atmospheric
- Design temperature: -20 °C / +50 °C
- To maintain the min. required medium temperature during cold periods the tanks are equipped with internal heating pipes





## PTFE-coated tanks – chemical waste storage

- Aboveground tank, vertical, single-skinned, made of P265GH steel
- Capacity: 16 m<sup>3</sup>, diameter: 2000 mm
- Medium: chemical sewage
- Norm: AD 2000
- Working pressure: 5 bar
- Operating temperature: +5 °C / +140 °C
- Tank is PTFE-coated inside (360°), a wide range of very aggressive media can be stored.



## JET A1 tanks

- Aboveground, horizontal, double-wall tanks, made of S235JR steel
- Capacity: 30 m<sup>3</sup>, diameter: 2500 mm, length: 6800 mm incl. cabinet for equipment and pumps.
- Medium: JET A-1 aviation fuel
- Norm: EN 12285-2 class A
- Working pressure: atmospheric
- Design temperature: -20 °C / +50 °C



## Crude oil tanks

- Aboveground, horizontal, double-wall tanks, made of steel S235 / P355NH, NACE
- Capacity: 100 m<sup>3</sup>, diameter: 2900 mm
- Medium: crude oil
- Norm: EN 13445
- Working pressure: 0,45 bar
- Design temperature: -29 °C / +50 °C
- Corrosion resistance class C4M
- Tanks can be equipped with a ladder and a service platform with handrails



## Tanks for aviation fuel

- Aboveground, double wall tanks, made of S235JR steel
- Capacity: 2x100 m<sup>3</sup>, diameter: 2900 mm, length approx. 16.000 mm.
- Medium: Aviation fuels
- Norm: EN 12285-2 class A
- Working pressure: atmospheric
- Design temperature: -20 °C / +50 °C
- Tanks made with a slope of 1%
- Combined working platform for both tanks with access stairs.
- Special double-shell construction of DN600 / DN800 manholes.
- Internally 100% epoxy coated, approved by MIL-RF-4556 F for aviation fuel



## Diesel tanks

- Underground, horizontal, double-wall, multi-compartment tanks, made of S235 steel
- Capacity: 60 m<sup>3</sup>, diameter: 2900 mm, compartments division 40 m<sup>3</sup> / 20 m<sup>3</sup>
- Medium: diesel
- Norm: EN 12285-1
- Working pressure: atmospheric
- Design temperature: -20 °C / +50 °C
- Tank is strapped on a „Speed Chassis” which increases the safety of handling during transport.



## Tanks for heavy oils

- Aboveground, vertical, double-wall tanks, made of S235 steel
- Capacity: 107 m<sup>3</sup>, diameter: 3400 mm
- Medium: heavy oil component
- Norm: AD 2000
- Working pressure: atmospheric
- Design temperature: -20 °C / +60 °C
- Tanks equipped with a AISI 304L pressure heating steam coil and a 7,5 kW EeX side mounted agitator.
- Tanks insulated with 100 mm thick thermal insulation, covered with aluminium sheets



## Heating oil tanks

- Aboveground, horizontal, double-wall tanks, made of S235 steel
- Capacity: 10 m<sup>3</sup>, diameter: 2000 mm
- Medium: heating oil
- Norm: EN 12285-2
- Working pressure: atmospheric
- Design temperature: -10 °C / +50 °C
- Tanks equipped with heating cables and a 100 mm thick thermal insulation, covered with aluminium sheets.



## Engine oil tanks

- Aboveground, single-wall vertical tanks, made of S235 steel
- Capacity: 80 m<sup>3</sup>, diameter: 2900 mm
- Medium: engine oils
- Norm: AD 2000, cert. GOST
- Working pressure: atmospheric
- Design temperature: -20 °C / +200 °C
- Tanks equipped with heating cables and a 100 mm thick thermal insulation, covered with aluminium sheets.



## Tanks for fuel additives

- Aboveground, horizontal, single-wall tanks, made of 304 stainless steel
- Capacity: 50 m<sup>3</sup>, diameter: 2500 mm, three chambers 16,88 m<sup>3</sup> each
- Medium: fuel additives
- Norm: EN 12285-2, class A
- Working pressure: atmospheric,
- Operating temperature: -20 °C / +50 °C
- The tank supports are made of S235 steel with corrosion protection class C5M.



## **Tanks for ethanol**

- Underground, horizontal, double-wall tanks, made of S235 steel
- Capacity: 200 m<sup>3</sup>, diameter: 3400 mm
- Medium: ethanol
- Norm: AD 2000
- Working pressure: atmospheric
- Design temperature: -29 °C / +50 °C
- The tanks are equipped with two DN300 nozzles for the installation agitators.
- Measures & Weights approved liquid level probes for operation in a customs warehouse.



## **Tanks for ammonia water storage**

- Aboveground, vertical, double-wall tanks, made of AISI 304L stainless steel
- Capacity: 37,7 m<sup>3</sup>, diameter: 2500 mm, height 9100 mm
- Medium: ammonia water
- Norm: EN 13445 + EN 12952
- Working pressure: atmospheric
- Operating temperature: -20 °C / +50 °C



## **Tanks for flammable liquid waste**

- Aboveground, vertical, single-wall tanks, made of S235 steel
- Capacity: 100 m<sup>3</sup>, diameter: 2900 mm
- Medium: liquid flammable waste
- Norm: Customer's factory standard
- Working pressure: up to 0,5 bar
- Design temperature: -10 °C / +150 °C
- Tanks on six legs, equipped with DN400 stub pipes for agitator, 2x DN800 manholes and cathodic protection
- One of the tanks is heated with a heating cable and insulated
- Tanks painted with a high reflectivity paint.



## **Tanks for glycerin (insulated underground vessel)**

- Underground, horizontal, double-wall tanks, made of S235 steel
- Capacity: 30 m<sup>3</sup>, diameter: 2200 mm
- Medium: glycerin and liquid substances with its composition
- Norm: AD 2000
- Working pressure: Ambient
- Design temperature: -20 °C / +50 °C
- Tanks equipped with speed chassis for fast installation
- Tanks heated with heating cables and insulated with PUR spray foam with a minimum thickness of 100 mm.



## **Biofuel Tanks**

- Aboveground, horizontal, double-wall tanks, made of S235 steel
- Capacity: 100 m<sup>3</sup>, diameter: 2900 mm
- Medium: biofuel, RME
- Norm: EN 12285-2
- Working pressure: atmospheric
- Design temperature: -20 °C / +50 °C



## **Containerised diesel tanks**

- Aboveground, double-walled tank, made according to EN 12285-2 from S235 steel.
- Capacity: 40 m<sup>3</sup>, diameter: 2200 mm
- Medium: diesel fuel
- Design temperature: -20 °C / +50 °C
- Tank adapted in a marine container 40'HC and equipped in EX-rated immersion heater piping unauthorized access to the tank



## **Carbon disulfide tanks**

- Aboveground, single-skinned horizontal tanks
- The tank shell is made of P265GH steel
- Capacity: 53 m<sup>3</sup>, diameter: 2500 mm
- Medium: carbon disulfide (CS<sub>2</sub>)
- Execution standard: AD 2000
- Working pressure: 0,1 – 5 bar
- Working temperature: -20 °C / +30 °C
- The tank is equipped with external reinforcements, a sunshade and a sprinkler system to cool the tank.



## **Tanks for refrigerants R152a, R600**

- Aboveground, single-walled horizontal tanks, made of P355 steel
- Capacity: 25 m<sup>3</sup>, diameter: 2000 mm
- Medium: refrigerants (e.g. R152a, R600)
- Norm: AD 2000
- Working pressure: 15,6 bar
- Working temperature: -20 °C / +40 °C
- Tank can be equipped with a sun shield and sprinkler system to cool the tank. It is also possible to make an underground tank.



## **Pentane tanks**

- Underground, horizontal, double-walled tanks, made of S235 steel
- Capacity: 50 m<sup>3</sup>, diameter: 2500 mm
- Medium: pentane
- Norm: EN 12285-1, class C
- Operating pressure: up to 0,5 bar
- Working temperature: -20 °C / +35 °C



## **Methanol tanks**

- Aboveground, horizontal, double-walled tanks made of S235 steel
- Capacity: 100 m<sup>3</sup>, diameter: 2900 mm
- Medium: methanol
- Norm: AD 2000
- Working pressure: up to 0,5 bar
- Operating temperature: -20 °C / +50 °C
- Tanks are made to corrosion resistance painting system in class C3 in RAL 9010. Internal anticorrosive coating matched to the medium.
- The tank is equipped with a dedicated vent valve with an integrated flame arrestor





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