

Tanks for the industry



CGH has many years of experience in the design and production of tanks for industrial applications. Not only the tanks but also complete installations are offered, conceived in house or produced to customer's specifications.

Tanks for a wide range of industrial applications

- Storage or Process tanks
- Single or Double wall tanks
- Underground or Aboveground installation
- Atmospheric or Pressure tanks
- Capacities ranging from 5 m³ to 200 m³
- For the storage of flammable liquids such as:
- Tanks for Fuels and fuel additives
- Tanks for Crude oil
- Tanks for Solvents
- Tanks for Bitumen
- Tanks for Process chemicals
- Tanks for Gases

To store corrosive and/or toxic liquids such as:

- Tanks for Sulfuric acid
- Tanks for Hydrochloric acid
- Tanks for Sodium methoxide
- Tanks for Methanol and ethanol
- Tanks for Polyol and isocyanate
- Tanks for TDI
- Tanks for Reservoir water

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Hot water storage tank

- Aboveground, vertical, flat bottom tank, made of S235 steel
- Capacity: 28 m³, diameter: 3200 mm
- Medium: hot water
- Norm: AD2000
- Working pressure: atmospheric
- Operating temperature: -29°C / +90°C
- The tank is equipped with heating cables and insulated with a 100 mm thick wool layer.
 It is equipped with a ladder and platform.
 The tank is protected with an anti-corrosion paint of class C4M.



Tank to store reservoir water

- Aboveground, horizontal, double-wall tank, made of P355NH steel
- Volume 50 m³, diameter 2500 mm
- Medium: reservoir water from oil and gas wells, saline water with hydrocarbons
- Norm: WUDT / EN13445
- Working pressure: up to 0.5 bar
- Operating temperature: -29°C / +50°C
- The tank is equipped with pressure steam coils in 304L steel, a heat insulation composed of a 100 mm wool (60 kg/m³) layer covered with an aluminum sheet



Tanks for corrosive and toxic liquids

- Underground, horizontal, double-wall tanks. The tank's inner wall is made of 304L stainless steel and the outer wall is made of S235 steel
- Capacity 108 m³, diameter 2900 mm
- Medium: corrosive and toxic liquids
- Norm: EN12285-1
- Working pressure: atmospheric
- Operating temperature: -20°C / +50°C
- The tanks are equipped with to a dry leakage detection system. The external tank is coated with polyurethane, the inner tank shell is pickled and passivated.



Realized projects

Phenol storage tanks

- Aboveground, vertical, single-wall tanks, made of 304L stainless steel
- Volume 65 m³, diameter 3200 mm
- Medium: phenol
- Norm: EN13445
- Working pressure: 0.15 bar;
- Operating temperature: +50 / +60°C.
- The tanks are equipped with heating coils and insulation. They have platforms, ladders and bridges linking them.





Tanks for industrial and automotive lubricants

- Aboveground, vertical, single-wall tanks, made of P355 steel
- Capacity: 200 m³ and diameter: 3400 mm
- Medium: flammable liquids
- Norm: AD2000
- Working pressure: 0.55 bar
- Operating 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 304 stainless steel
- Capacity 30 m³, diameter 3000 mm
- Medium: process water
- Norm: EN13445, in accordance with PED 97/23 / EU
- Working pressure: 11 bar
- Operating 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 supplying power generators

- Aboveground, horizontal, double-wall tanks,
- made of S235 steel - Capacity 2x80 m³, 1 x 5 m³
- Capacity 2x80 m³, T
- Medium: diesel
- Norm: EN12285-2
- Working pressure: atmospheric
- Operating temperature: -20°C / +50°C
- The tanks are equipped with a pump system to transfer fuel to the generator's 5 m³ day tanks. The tanks are skid mounted allowing easy relocation.



Tanks to store polyols and isocyanates

- Aboveground, vertical, with single-wall tanks, made of S235 steel
- Capacity: 50 m³, diameter: 3300 mm
- Medium: polyols, isocyanates, TDI, MDI
- Norm: AD2000
- 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
- Volume 60 m³, diameter 2900 mm
- Medium: asphalt / bitumen
- Norm: DIN6618
- Working pressure: atmospheric
- Operating temperature: 0°C / +180°C
- The tanks are fully prepared for a heating system. The all-around insulation is on the top covered with a second dished end.



Ethyl acetate tank

- Aboveground, vertical, single-wall tank, made of 304L stainless steel
- Capacity 15.4 m³, diameter 2500 mm
- Medium: ethyl acetate
- Norm: AD2000
- Working pressure: atmospheric
- Operating temperature: 0°C / +40°C
- The tank is equipped with Weights & Measure approved liquid level indicators for operation in a customs warehouse.



Urea tanks

- Aboveground, single-wall tanks, made of stainless steel 1.4404
- Capacity: 129 m³, diameter 3400 mm, length 15.000 mm - Medium: urea
- Norm: EN13445
- Working pressure: atmospheric
- Operating temperature: -20°C / +50°C
- To maintain the min. required medium temperature during cold periods the tanks are equipped with internal heating pipes
- They are installed in the very beautiful Faroe Islands in the middle of the North Atlantic Ocean.





Aviation fuel tanks

- Aboveground, horizontal, double-wall tanks, made of S235 steel
- Volume: 100 m³, diameter: 2900 mm
- Medium: JET A1 aviation fuel
- Norm: EN12285-2
- Working pressure: low pressure (up to 0.5 bar)
- Operating temperature: -20°C / +50°C
- The tank's piping are made of 304 stainless steel. They are equipped with ladders and platforms painted with class C4M paint. The insulation thickness is 100 mm.



JET A1 tank

- Aboveground, horizontal, double-wall tank, made of S235JR steel
- Capacity: 30 m³, diameter: 2500 mm, length: 6800 mm incl. cabinet for equipment and pumps.
- Medium: JET A-1 aviation fuel
- Norm: EN12285-2 class A
- Working pressure: atmospheric
- Operating temperature: -20°C / +50°C
- The tank is made with a 3% slope to lead the water to the lowest point. The tank is inside equipped with a floating suction pipe. 100% internal corrosion protection is achieved with epoxy paint suitable for aviation fuel. The large cabinet houses the pumping equipment



Tanks for aviation fuel

- Aboveground, double wall tanks, made of S235JR steel
- Capacity: 2x100 m³, diameter 2900 mm, length approx. 16,000 mm.
- Medium: Aviation fuels
- Norm: EN12285-2 class A
- Working pressure: atmospheric
- Operating 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



Crude oil tanks

- Aboveground, horizontal, double-wall tank, made of steel S235 / P355NH, NACE
- Volume 100 m³, diameter 2900 mm
- Medium: crude oil
- Norm: WUDT / EN13445
- Working pressure: 0.45 bar
- Operating temperature: -29°C / +50°C
- Tanks are made to corrosion resistance painting system in class C4M. The are equipped with a ladder and a service platform with handrails.



Diesel tank

- Underground, horizontal, double-wall, multi-compartment tank, made of S235 steel
- Capacity 90 m³, diameter 2900 mm, compartment division 68 m³ / 22 m³
- Medium: diesel
- Norm: EN12285-1
- Working pressure: atmospheric
- Operating temperature: -20°C / +50°C
- The tank is strapped on a "Speed Chassis" which increases the safety of handling during transport. The speed chassis serves as reinforcement of the anchoring slab in the excavation. Lifting slings and guiding ropes are provided so that the tanks can be installed in the excavation without that a person needs to access it.



Tank for heavy oils

- Aboveground, vertical, double-wall tank, made of S235 steel
- Capacity 107 m³, diameter 3400 mm
- Medium: heavy oil component
- Norm: AD2000
- Working pressure: atmospheric
- Operating temperature: -20°C / +60°C
- The tank is equipped with a 304L pressure steam coil and a 7.5kW EeX side mounted agitator. The tank is insulated with 100 mm wool (60 kg / m³) and covered with 0.7 mm Al-Zn sheets.







Heating Oil tanks

- Aboveground, horizontal, double-wall tanks, made of S235 steel
- Volume 10 m³, diameter 2000 mm
- Medium: heating oil
- Norm: EN12285-2
- Working pressure: atmospheric
- Operating temperature: -10°C / +50°C
- The tank is equipped with heating cables and a 100 mm thick thermal insulation, density 60 kg/m³, covered with aluminium sheets.



Engine oil tanks

- Aboveground, single-wall vertical tank, made of S235 steel
- Volume 80 m³, diameter 2900 mm
- Medium: engine oils
- Norm: DIN6618, cert. GOST
- Working pressure: atmospheric
- Operating temperature: -39°C / +18°C
- The tanks are equipped with heating cables and a 100 mm wool insulation (60 kg/m³) covered with aluminum sheets.



Tank for fuel additives

- Aboveground, horizontal, single-wall tank, made of 304 stainless steel
- Volume 50 m³, diameter 2500 mm, three chambers, each with a capacity of 16.88 m³
- Medium: fuel additives
- Norm: EN12285-2, class A
- Working pressure: atmospheric,
- Operating temperature: -20°C / +50°C
- The tank supports are made of S235 steel with corrosion protection class C5M.



Realized projects

Tanks for ethanol

- Underground, horizontal, double-wall tanks, made of S235 steel
- Capacity 200 m³, diameter 3400 mm
- Medium: ethanol
- Norm: AD2000
- Working pressure: atmospheric
- Operating temperature: -29°C / +50°C
- The tanks are equipped with two DN300 nozzles for the installation agitators. They have Weights & Measures approved liquid level probes for operation in a customs warehouse.





Tanks for ammonia water storage

- Aboveground, vertical, double-wall tank, made of stainless steel 1.4307
- Capacity: 37,7 m³, diameter: 2500 mm, height 9100 mm
- Medium: ammonia water
- Norm: EN13445 + EN12952
- Working pressure: atmospheric
- Operating temperature: -20°C / +50°C
- The tanks are installed at a customer's site in the Czech Republic





Tanks for flammable liquid waste

- Aboveground tanks, vertical, single-wall, made of S235 steel
- Volume 100 m³, diameter 2900 mm
- Medium: liquid flammable waste
- Norm: Customer's factory standard
- Working pressure: up to 0.5 bar
- Operating 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. Three tanks painted with a high reflectivity paint.





Tanks for glycerin

- Underground tanks, horizontal, double-wall, made of S235 steel
- Volume 30 m³, diameter 2200 mm
- Medium: glycerin and liquid substances with its composition
- Norm: DIN6608/2
- Working pressure: Ambient
- Operating temperature: -20°C / +50°C
- Tanks equipped with a quick speed chassis foundation. 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
- Volume 100 m³, diameter 2900 mm
- Medium: biofuel
- Norm: EN12285-2
- Working pressure: atmospheric
- Operating temperature: -20°C / +50°C
- The tanks are interconnected to achieve a total storage capacity of 1000 m³. They are used to store biofuels and heating oils obtained from a methyl ester synthesis process.







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