

## STEINECKER Containers and tanks

Planning and manufacturing from a single source



 **KRONES**

# No production without containers and tanks

STEINECKER Containers and tanks

Containers and tanks play a central role in every production process. No matter which processes and applications are involved: containers and tanks are always on your planning and procurement list.

Highest quality and precise production technologies is what you can always expect from KRONES: You can get precision performance also when it comes to containers and tanks. KRONES supplies storage and production tanks that are individually designed for your processes. All specifications in our container programme are designed for the tasks in a variety of sectors:

- Breweries
- Beverage production
- Dairy industry
- Wine production
- Food production
- Chemical and petrochemical industry
- Organic fuel production



# Product range

The application determines the conceptual design of the containers. So it is obvious that, first of all, we need an explicit specification of the application for which the container is intended.

- Storage applications
- Mixing
- Fermentation
- Heating and cooling
- Homogenisation
- Dissolving solid, liquid or gaseous ingredients
- Compounding
- Cleaning

However, KRONES does not only manufacture containers. Our engineers with their sound technological understanding of processes and take care that the containers will be perfectly integrated into your production process, and they design the tanks to optimally suit the conditions of your systems.



## Tank and container features

No container is like the other. A vital criterion for container design are the process steps for which the tank is to be applied during the production process. Pressure in the tank, vacuum situation, heating and cooling requirements of the stored product, viscosity and solids content, the particle size for design of the agitator or mixer, and, of course, also the volume, are data we need for designing the tank.

Moreover, the connection of the tanks to the peripheral pipe system equipment and the installation of monitoring and measuring devices are also very important. The cover and base construction and the integration of the required connecting pieces and manhole installations are completely tailored to your process sequence.

	Assembly in the factory	On-site assembly
Size	Standard: up to 300 hl, with max. $\phi$ 3.5 m, max. height: 6 m On request also containers over $\phi$ 3.5 m, incl. insulation, up to 9.5 m high (overall height)	Max. $\phi$ 8 m; on request: up to $\phi$ 12 m Any height
Construction/shape	Round (vertical and horizontal), other constructions on request	Round (vertical and horizontal), other constructions on request
Process tanks	Heating, cooling, mixing	Heating, cooling
Type of content	Gaseous, liquid, paste-like, granular, powder	Liquid, paste-like, granular
Material	Stainless steels (1.4301, 1.4307 and 1.4404), On request: all common austenitic or duplex steels	Stainless steels (1.4301, 1.4307 and 1.4404), On request: all common austenitic or duplex steels
Wall thickness	2 mm to 10 mm	4 mm to 8 mm; other wall thicknesses on request
Surface	Weld seams inside: polished; inside and outside: pickled (standard), outside: ceramic blasted, on request for non-standard size	Polishing, chemical treatment
Pressure vessels/ system of rules/certifications	All systems of rules applied in the company (ASME, RTN, Gost-R, ML China, DIN EN ISO 3834-2 in line with PED 97/23/EU)	All systems of rules applied in the company (ASME, RTN, Gost-R, ML China, DIN EN ISO 3834-2 in line with PED 97/23/EU)
Fixtures/equipment	All fixtures (agitators, guide plates, spraying devices)	All fixtures (agitators, guide plates, spraying devices)
Peripheral equipment	Platforms, substructures	Stairwells and scaffolds of any type and of any material
Pipe system	Pressurised and pressureless pipe systems	Pressurised and pressureless pipe systems
Coatings	Primary coat; coat of paint on request	On request
Insulation/housing	Insulation (PIR and PU foam, mineral wool) and housing (gas-tight or riveted on request)	Insulation (PIR and PU foam, mineral wool) and housing (sheet with trapezoidal corrugations and smooth sheet, gas-tight)
Special designs	On request	On request

# Production and assembly

Our production that is harmonised in detail takes place in a manufacturing hall specially designed for tank construction in the Freising plant, where automated manufacturing methods for cover and wall production are used. Step by step, the unmachined and semi-finished parts pass the individual workstations where qualified welders perform their particular machining step.

The complete production in the plant comprises all processing steps including surface treatment by means of polishing or pickling, as well as ceramic blasting of external surfaces.



# Highest level of quality

STEINECKER Containers and tanks

The high precision of manufacturing is based on the qualification of our staff on one hand, as well as on the powerful production automats on the other hand. The necessary cutting, drawing and welding work for large container parts, such as welding on calorifiers or cooling spirals, are programme-controlled.

For the production of our tanks, we apply the globally standardised testing and welding procedures, thus meeting our demands for maximum tank machining quality.



## ■ A new tank in no time

We do not hand over your container to others. Therefore, our manufacturing time budget allows for tight scheduling of construction and expansion measures for your production plant.

## ■ The quality is right

Our manufacturing and surface treatment precision is visible. This is proven by certificates when the mere eye can no longer see.

## ■ The welding seam prevention programme

Large machines for container parts production bring about a benefit to you: The processing steps for each container are planned in a way to minimise the number of weld seams.

## ■ Experienced production teams

Our qualified skilled metal workers and welders know what they are doing. This is expressed in the high quality of their products.

## ■ Production and service from a single source

We are close to you. A performing customer service is our mark of distinction: After delivery and assembly of our container, the KRONES Lifecycle Service provides support at any time.

## ■ Process technology experience

Thanks to our profound technological and process-related knowledge, we are very well aware of your demands placed on containers, and we can provide optimal support in selecting the appropriate materials, geometries and designs.

