

process systems

WALDNER

returnable container systems
right from the start



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English

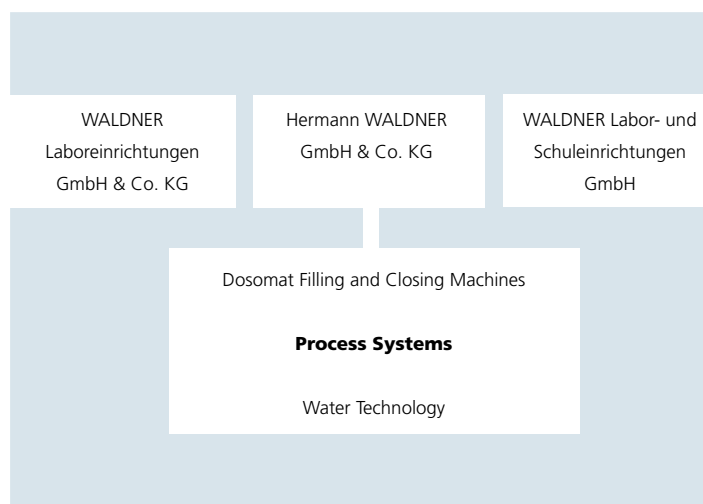


The WALDNER Group – a strong trio

The WALDNER Corporate Group consists of three companies:

- Hermann WALDNER GmbH & Co. KG
- WALDNER Laboreinrichtungen GmbH & Co. KG
- WALDNER Labor- und Schuleinrichtungen GmbH

For more than one century WALDNER has been setting standards. For the benefit of our customers our business divisions take advantage of our cross-border capabilities. With their size and their involvement in the Corporate Group the three WALDNER companies represent stability, expertise and continuity.



WALDNER

Process Systems

From the single unit up to complete systems the business unit Process Systems offers you customized procedural solutions for the pharmaceutical, chemical and food industry.

- **Isolators and containments**

Full containment systems for the contamination-free handling of highly active and toxic substances (API) and isolators for sterile applications.

- **Drying technology**

Mobile vacuum contact dryers for dust-free powder handling, vacuum tray dryers conform to GMP standards, intermittent and circulating air tray dryers.

- **Vessels, skids and units**

Vessel technology, ranging from single preparation, pressure and reaction vessels to complete units and single-layer pressure filters.

- **Cooking systems**

Batch cooking lines for the food industry, amongst others for the production of aseptic fruit preparations, jam and many more.

- **Container systems**

Round and cubic returnable container systems in stainless steel.

Including the process measuring and control equipment, our products can be combined on the basis of the modular design principle. From competent advisory service on the process development and planning to the realisation of turn-key projects, we provide you with an individual service package that is consequently based on your needs. In short – you obtain what we expect from ourselves everyday: first-class solutions.





Returnable container systems **right from the start**

Safety you can rely on

WALDNER has been operating in the tank and apparatus construction for more than 80 years. Cubic and round returnable container systems complement our product range for more than three decades. Optimum and low cost quality, project-related technology as well as delivery reliability guarantee that your success is ensured in the future as well.

You have the possibility to choose from our large range of standard products with a variety of different models. If the standard program does not offer you the container version you desire, we quickly realise special solutions for you, so that your special operating requirements are met definitely.

We are a recognized welding specialist company for the production of pressure vessels according to HPO/DIN EN ISO 3834-2 as well as recognized specialist company in accordance with section § 19I, WHG. Also we have certifications according to all current

national regulations like "TÜV" (Technical Inspection Authority) and "AD system of rules" as well as important international authorizations like "ASME U-Stamp" and "Manufacture License of Special Equipment People's Republic of China".

In order to obtain a chemically neutral overall surface the containers are subjected to a standard immersion pickling bath. For quality reasons the container tank bodies are exclusively made of stainless nickel chromium steel. The frames and underframes are optionally made of stainless steel, special aluminium alloy and galvanized steel.

A team of specialists with technical competence proven in practice is available for all your questions. Please contact us, we would be glad to advise you.



Variety of container types



Round container series AT-W, 500 litres, with special equipment



Round container series AT-W/S, 900 litres, standard construction



Round container series B, 600 litres



Cubic tank container for liquids, 1.000 litres, with underframe



Cubic tank container for viscous media, 2.500 litres



Cubic tank container for liquids, 800 litres, special dimensions

Round containers series AT-W and AT-W/S

In the standard dimensions the top end and the lower plate are deep-drawn and very torsion-proof. The top end is constructed in torospherical form, the lower plate in symmetrical conical form with approx. 30° inclination to the horizontal. Through an all-side incline a residuary discharge is guaranteed. The pipe connection for the discharge is provided horizontally. Further discharge options as well as an inclination of the lower plate of approx. 45° are also possible without any problems.

The base frame and the stacking ring are directly welded to the tank body and designed in self-supporting construction. The jacket frame is provided with a standard beading reinforcement for reasons of strength or is optionally available as straight surface. The container type 200 is equipped with a standard hand-hole DN100 in the top end, the types 300 up to 1000 with a manhole DN 400.



type	approx. total capacity litres	approx. total height (mm)	diameter (mm)
200	204	1370	550
300	310	1090	800
400	410	1320	800
500	504	1480	800
600	610	1690	800
800	804	1590	1000
950	976	1750	1000
1000	1040	1850	1000
1200	1210	2120	1000
special sizes on request			



Round containers series A



The tank body is installed into a torsion-proof frame. The container can be handled by a crane and stacked up to three units high when filled.

In the standard dimensions the top end and the lower plate are deep-drawn and very torsion-proof. The top end is in

symmetrical conical form with approx. 10° inclination, the lower plate with approx. 30° inclination to the horizontal. Through an all-side incline a residuary discharge is guaranteed. The pipe connection for the discharge is provided horizontally. Further discharge options are also possible without any problems.

nominal capacity (litres)	basic size (mm)	outside dimension (mm)	approx. total height (mm)	diameter (mm)
500	1060 x 1060	1089 x 1089	1370	1000
600	1060 x 1060	1089 x 1089	1500	1000
800	1060 x 1060	1089 x 1089	1750	1000
1000	1060 x 1060	1089 x 1089	1950	1000
special sizes on request				

Round containers series B

The base frame and the stacking ring are directly welded to the tank body and designed in self-supporting construction. The container can be handled by a crane and stacked up to three units high when filled.

In the standard dimensions the top end and the lower plate are

deep-drawn and very torsion-proof. The top end is in symmetrical conical form with approx. 10° inclination, the lower plate with approx. 30° inclination to the horizontal. Through an all-side incline a residuary discharge is guaranteed. The pipe connection for the discharge is provided horizontally. Further discharge options are also possible without any problems.

nominal capacity (litres)	approx. total height (mm)	diameter (mm)
150	1100	550
200	1300	550
300	1750	550
500	1350	1000
600	1430	1000
800	1670	1000
1000	1930	1000
special sizes on request		



Special containers



With double jacket for hot water heating and insulation jacket



The tank body is tiltable in the rack



With tempered jacket and piping for hot water or steam



Mixing and turning cubic tank container, for asymmetric moved mixer



Mobile container, with agitator, electric heating mats with temperature control and insulation



Buffer storage container with flat cover

Cubic containers for bulk material

nominal capacity (litres)	approx. basic size (mm)	approx. outside dimension (mm)	approx. total height (mm)
500	800 x 1000	825 x 1025	1400 / 1450 for aluminium
800	1000 x 1200	1025 x 1225	1550
1000	1000 x 1200	1025 x 1225	1750
1250	1000 x 1200	1025 x 1225	1950
1500	1200 x 1600	1225 x 1625	1850
2000	1200 x 1600	1225 x 1625	2000
special sizes on request			

The tank body is installed into a torsion-proof frame. The container can be handled by a crane and stacked up to three units high when filled.

In the standard dimensions the top end is deep-drawn, the lower plate is designed in symmetrical conical form with approx.

45° / 52° or respectively 30° / 36° to the horizontal and therefore very torsion-proof. Through an all-side incline a residuary discharge in case of free-flowing granulate is guaranteed. The discharge is provided vertically with flange DN 250. Further discharge options and inclinations of the lower plate are also possible without any problems.



Cubic containers for liquids

nominal capacity (litres)	approx. basic size (mm)	approx. outside dimension (mm)	approx. total height (mm)
500	800 x 1000	825 x 1025	1300 / 1350 for aluminium
800	1000 x 1200	1025 x 1225	1370
1000	1000 x 1200	1025 x 1225	1570
1250	1000 x 1200	1025 x 1225	1820
1500	1200 x 1600	1225 x 1625	1550
2000	1200 x 1600	1225 x 1625	1900
special sizes on request			

The tank body is installed into a torsion-proof frame. The container can be handled by a crane and stacked up to three units high when filled.

In the standard dimensions the top end and the lower plate are deep-drawn and therefore very torsion-proof. The lower plate inclination to the central discharge is approx. 4°. Through an all-side incline towards the centre a residuary discharge is guaranteed.

The pipe connection for the discharge is effected with a 90° bend, alternatively via an integrated discharge calotte. Further discharge options are also possible without any problems.



Cubic containers for viscous media

nominal capacity (litres)	approx. basic size (mm)	approx. outside dimension (mm)	approx. total height (mm)
500	800 x 1000	825 x 1025	1380 / 1430 for aluminium
800	1000 x 1200	1025 x 1225	1540
1000	1000 x 1200	1025 x 1225	1690
1250	1000 x 1200	1025 x 1225	1885
1500	1200 x 1600	1225 x 1625	1600
2000	1200 x 1600	1225 x 1625	1900
special sizes on request			

The tank body is installed into a torsion-proof frame. The container can be handled by a crane and stacked up to three units high when filled.

In the standard dimensions the top end is deep-drawn, the lower plate is designed in asymmetric conical form with approx. 20°/30°/40° to the horizontal and therefore very torsion-proof. Through an all-side incline a residuary discharge is guaranteed also in case of higher viscosity. The pipe connection for the discharge is effected horizontally. Further discharge options and inclinations of the lower plate are also possible without any problems.





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