



Stainless Steel Tanks and Storage Systems for Industry

HydroSystemTanks® (HST)



HydroSystemTank® is a registered trademark of Hydro-Elektrik GmbH

Storage tanks • Process-water tanks • Water storage tanks • Large-capacity tanks

HydroSystemTanks® - pure innovation

- Advantages**
- Highest quality due to uncompromising use of high-grade stainless steel (for example 304, 316Ti, S32101, ...)
 - High degree of safety and hygiene due to hermetic encapsulation and gapless design
 - Long service life and high economic efficiency
 - Open-air installation possible – with or without insulation
 - Wide variety of inexpensive building designs
 - Minimal incursion into ground, ideal with rocky conditions
 - Installation in buildings:
A constant room temperature, therefore no condensation and an automatic high-pressure cleaning system are possible
 - Problem-free construction in situ – possible virtually everywhere

- Technology**
- Tank made completely of stainless steel, jacket welded using the winding method (Pat)



- Non-corrugated stainless-steel bottom with slope down to draw-off connection
- Conical roof with domed cover
- Siphoned overflow system
- Aeration and venting via replaceable heavy-duty filter elements
- Automatic cleaning system (Pat) for high-pressure interior cleaning (optional)
- Operator platforms with access via curved stairway or ladder

- Versions** Our special manufacturing method means that tanks can be built with diameters from 2.8 to 20 m and heights up to 15 m. This makes capacities of as much as 4500 m³ possible for individual tanks (special sizes on request).

- Applications**
- Pure water and storage tanks for industry
 - Storage tanks for wine and beer
 - Storage and mixing tanks for the foodstuffs industry
 - Process-water tanks for the biochemical industry
 - Reaction tanks
 - Storm-water and sewage tanks in sewage treatment
 - Special tanks (e.g. for palm oil)



Storage tanks

Storage tanks

The problem In the industrial sector, and particularly in the beverages industry, tanks of the most varied sizes are required for storing liquids, both in the long term and as temporary storage.

Due to the restrictions imposed by transportation possibilities, there is a limit to the volume of tanks which can be built in the factory.

The HydroSystemTanks open up a new range of possibilities here.

On-the-spot manufacture of this extremely flexible system means that tank capacities up to 4,500 m³ can be built quickly and economically.

Necessary fittings, openings and connections, as well as in-tank equipment such as heating systems, can be positioned and installed to meet requirements.

The same applies to operator platforms, ladders, stairs and railings.

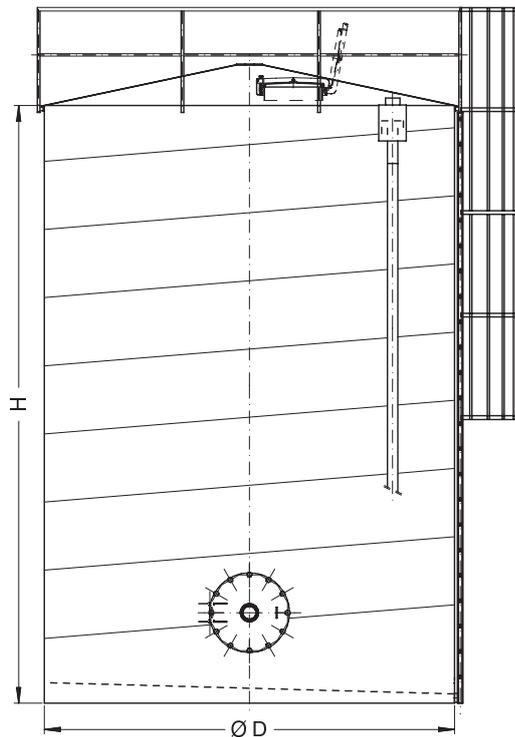
- Advantages**
- Short construction time - even in the case of in situ construction
 - Long service life, a high degree of hygiene
 - Your choice of stainless steel quality
 - Conical roof with domed cover D600
 - Sloped bottom with a gradient of approximately 1.5% for emptying residue, lean-mixed concrete on the underside for an even load distribution
 - Manhole DN 800 - optionally with sight glass
 - Siphoned overflow system with connection for aeration and venting
 - Tapping and filling connection as required
 - Corner plates and eyes as per static calculations



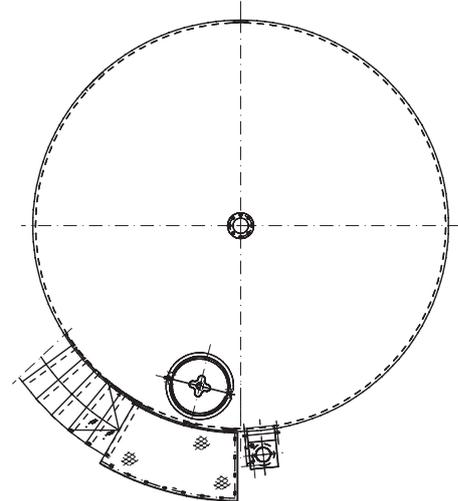
- Optional**
- Automatic high-pressure cleaning system (Pat)
 - Insulation, lighting
 - Platforms, ladders, steps, roof railings
 - Conical floor
 - Air filter system
 - External pipes
 - Tank lighting
 - Pressure doors



Basic structure



Design (side view)
with ladder, safety cage and roof railings.



Design (top view)
with steps, railings and platform.

Achievable useful volume The table below provides details of all achievable useful volumes.
Special sizes on request.

Diameter	Height H [m]											
	4	5	6	7	8	9	10	11	12	13	14	15
2.8	23	30	36	42	48							
3	27	34	41	48	55	62						
3.2	31	39	47	55	63	71	79					
3.5	37	46	56	65	75	85	94	104				
4	48	60	73	85	98	111	123	136	148			
4.25	54	68	82	96	111	125	139	153	167	181		
5	75	94	114	133	153	173	192	212	232	251	271	
5.5	90	114	138	161	185	209	233	256	280	304	328	351
6	107	136	164	192	220	249	277	305	333	362	390	418
7	146	185	223	262	300	338	377	415	454	492	531	569
8	191	241	291	342	392	442	492	513	593	643	693	744
9	242	305	369	432	496	560	623	687	750	814	877	941
10	298	377	455	534	612	691	769	848	926	1005	1083	1162
11	361	456	551	646	741	836	931	1026	1121	1216	1311	1406
12	430	543	656	769	882	995	1108	1221	1334	1447	1560	1673
13	504	637	769	902	1035	1167	1300	1433	1565	1698	1831	1963
14	585	739	892	1046	1200	1354	1508	1662	1816	1969	2123	2277
15	671	848	1024	1201	1378	1554	1731	1908	2084	2261	2437	2614
16	764	965	1166	1367	1567	1768	1969	2170	2371	2572	2773	2974
17	862	1089	1316	1543	1770	1996	2223	2450	2677	2904	3131	3358
18	966	1221	1475	1730	1984	2238	2493	2747	3001	3256	3510	3764
19	1077	1360	1644	1927	2210	2494	2777	3061	3344	3627	3911	4194
20	1193	1507	1821	2135	2449	2763	3077	3391	3705	4019	4333	4647

Diameter D to 4.25 m manufactured at the works, from 5 m in the case of in situ construction