

HCZ 1000 - 1600

The horizontal scraper centrifuges of the type HCZ work discontinuously, the solids are discharged through a chute or screw conveyor. This very robust centrifuge is designed for high throughput and permanent operation under toughest conditions in the chemical as well as the fine chemical industry. In addition to the basic equipment, different optional equipment can be provided.

Design features

- Designed for permanent operation under toughest conditions
- High throughput, low residual moisture
- Optimally designed functional devices for efficient and reliable process cycles with low vibrations
- Effective residual heel removal
- Cleaning system
- Easy maintenance thanks to modular design
- Suitable for Zone 1 (according to RL 94/9/EG)



HCZ	1000/500	1250/630	1250/800	1600/800	1600/1000	
Basket diameter	1'000	1'250	1'250	1'600	1'600	[mm]
Basket opening	750	950	950	1'210	1'210	[mm]
Basket depth	500	630	800	800	1'000	[mm]
Filter surface	1.57	2.47	3.14	4.02	5.03	[m ²]
Useful volume (100%)	172	326	414	688	860	[dm ³]
Max. load (100%, ρ 1'250 kg/m ³)	215	408	518	860	1075	[kg]
Max. rotor speed	1500	1200	1200	950	950	[min ⁻¹]
Max. G force	1258	1006	1006	807	807	[g]
Centrifuge weight (without load)	7'900	13'000	13'500	26'000	28'500	[kg]
Basket weight (1.4404)	495	650	710	1'680	1'780	[kg]
Motor power for main drive	37	55	55	75	75	[kW]

Basic equipment

Rubber buffers for use with concrete counterweight (concrete counterweight delivered by client). Hydraulic unit with electrical or pneumatically actuated valves. Bearing (temperature monitored). Drive with frequency controlled three-phase asynchronous motor. Welded housing. Basket. Scraper unit. Discharge chute. Feed pipe with deflector. Wash pipe.

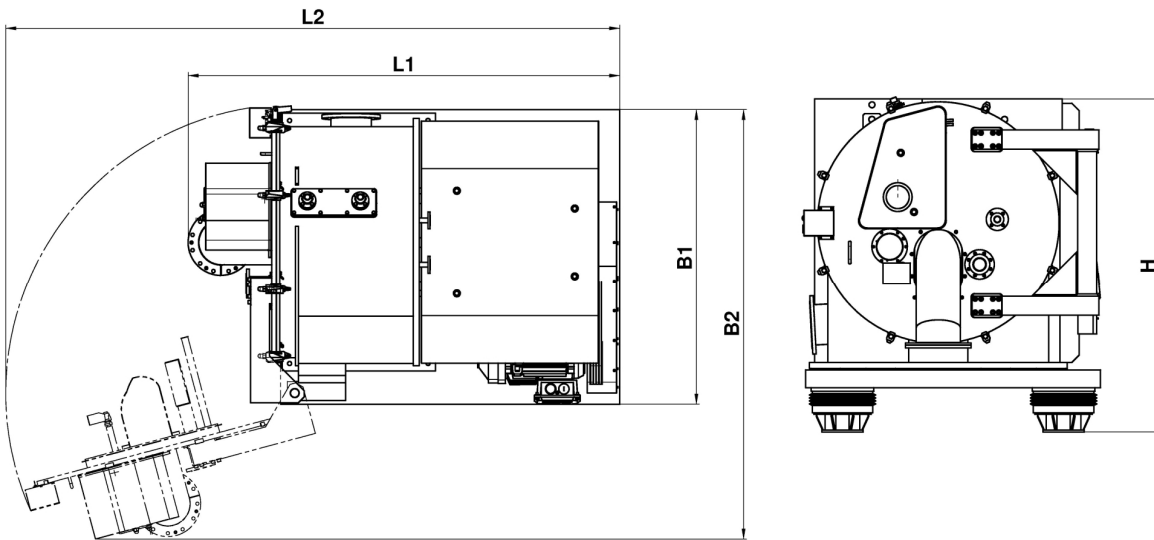
Optional equipment

Swing plate with vibration dampers. Discharge screw conveyor. Residual heel removal Resomat (from outside), 1 or 3 rows. Cleaning system. Inertisation system InertoSafe[®] (Basic, ATEX or SIL 2). Oxygen analysers. Pressure relief valve and siphon. Manually or pneumatically actuated valves. Lifting device (basket).

Automation

See separate data sheets

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HCZ	1000/500	1250/630	1250/800	1600/800	1600/1000	
L1	2'300	2'930	3'100	3'585	3'785	[mm]
L2	3'300	4'165	4'335	5'060	5'260	[mm]
B1	1'750	2'000	2'000	2'600	2'600	[mm]
B2	2'530	2'915	2'915	3'600	3'600	[mm]
H	1'900	2'260	2'260	2'850	2'850	[mm]
Design pressure			300 ¹			[mbarg]
Operating pressure			4 – 20			[mbarg]
Gas tightness		40 mbarg according to DIN 24400				[mbarg]
Product temperature range			0 - 80			[°C]
Max. allowable bearing temperature			95			[°C]
Ambient temperature			0 - 40 ²			[°C]

¹ Other pressure ranges upon request

² Other temperature ranges upon request