

Печи с выдвижным подом и проволочным нагревом до 1400 °C W

Технические характеристики

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Bogie Hearth Furnaces with Wire Heating up to 1400 °C

Bogie hearth furnaces offer many advantages in production. Outside the furnace, the bogie can be accessed from three sides and can be easily loaded using a crane or forklift truck. If several bogies are used, one can be charged while the other is positioned in the furnace. By adding additional equipment, e.g. multi-zone control for optimization of temperature uniformity or controlled cooling systems to shorten cycle times, these furnaces can be optimally tailored to the respective production process. The upscale into fully automatic systems is also possible, using motor-driven bogies and a rail system for bogie exchange. With their sturdy construction and very good temperature uniformity, these models are ideal for cooling and relieving stress in glass, for burning in coatings and for tempering quartz glass.



Bogie hearth furnace W 8250/S for tempering quartz glass

Standard Equipment

- Tmax 1280 °C, 1340 °C or 1400 °C
- Dual shell housing with rear ventilation, provides for low shell temperatures
- Swing door hinged on the right side
- Heating from five sides (four sides and bogie) provides for a very good temperature uniformity
- Heating elements mounted on support tubes provide for free radiation and long service life
- Bottom heating protected by SiC tiles on the bogie providing level stacking surface
- Self-supporting and long-life ceiling construction with bricks laid in arched construction
- Freely moveable bogie with rubber wheels up to model W 3300. Larger models have flange wheels and run on rails.
- Adjustable air inlet damper
- Motorized exhaust air flap on the furnace roof
- Inlets in the front corners of the bogie 2 x D = 40 mm for the customer's thermocouples
- Over-temperature limiter with adjustable cutout temperature as temperature limiter to protect the furnace and load
- Controller with touch operation P570 (50 programs with each 40 segments), controls description see page 86



Bogie hearth furnace W 7500

Additional Equipment

- Multi-zone control to optimize the temperature uniformity
- Cooling system to speed up furnace cooling with a fan and specified temperature gradients or a fixed volume of fresh air
- Bogies with flanged wheels running on rails for easy and precise movement of high loads or complex kiln furniture
- Electric chain-driven bogie in combination with rail operation for smooth movement of heavy loads
- Different possibilities for an extension to a bogie hearth furnace system:
 - More bogies
 - Bogie transfer system with parking rails to exchange bogies running on rails or to connect multiples furnaces
 - Fully automatic control of the bogie exchange
- Electro-hydraulic lift door
- Alternating use of two bogies with lift doors in front of and behind the furnace
- Facilities to hold charging trolley/furniture
- Fiber insulation for short process times
- Safety concepts for debinding
- Thermal or catalytic post combustion systems



Combi furnace system consisting of two bogie hearth furnaces W 5000/H and two additional bogies incl. bogie transfer system and incl. necessary park rails



Bogie-hearth furnace W 2394/S with heat shields

Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions ² in mm			Heating power in kW ¹	Electrical connection*	Weight in kg
		w	d	h		W	D	H			
W 1000	1280	800	1600	800	1000	1470	2390	1920	57	3-phase	3000
W 1500	1280	900	1900	900	1500	1570	2690	2020	75	3-phase	3500
W 2200	1280	1000	2200	1000	2200	1670	2990	2120	110	3-phase	4500
W 3300	1280	1000	2800	1200	3300	1670	3590	2320	140	3-phase	5300
W 5000	1280	1000	3600	1400	5000	1670	4390	2520	185	3-phase	7300
W 7500	1280	1000	5400	1400	7500	1670	6190	2520	235	3-phase	10300
W 1000/H	1340	800	1600	800	1000	1470	2390	1920	75	3-phase	3000
W 1500/H	1340	900	1900	900	1500	1570	2690	2020	110	3-phase	3500
W 2200/H	1340	1000	2200	1000	2200	1670	2990	2120	140	3-phase	4500
W 3300/H	1340	1000	2800	1200	3300	1670	3590	2320	185	3-phase	5300
W 5000/H	1340	1000	3600	1400	5000	1670	4390	2520	235	3-phase	7300
W 7500/H	1340	1000	5400	1400	7500	1670	6190	2520	370	3-phase	10300
W 1000/14	1400	800	1600	800	1000	1470	2390	1920	75	3-phase	3000
W 1500/14	1400	900	1900	900	1500	1570	2690	2020	110	3-phase	3500
W 2200/14	1400	1000	2200	1000	2200	1670	2990	2120	140	3-phase	4500
W 3300/14	1400	1000	2800	1200	3300	1670	3590	2320	185	3-phase	5300
W 5000/14	1400	1000	3600	1400	5000	1670	4390	2520	235	3-phase	7300
W 7500/14	1400	1000	5400	1400	7500	1670	6190	2520	370	3-phase	10300

¹Depending on furnace design connected load might be higher

²External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.

*Please see page 86 for more information about supply voltage



Thermocouple inlets (Ø 40 mm) in the front corners of the bogie



Bogie hearth furnace for tempering quartz rods



Electro-hydraulic lift door



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