



## Reflow ovens in the HS series

- The HS series enables a stable and reproducible reflow process.
- The modular design allows rapid and simple access to the system, which reduces operating costs.
- HB Automation reflow ovens meet the more stringent requirements of a lead-free process.

### Perfect partners: HB Automation and **INVENTEC**

INVENTEC offers a full line of technologically advanced solder pastes developed to provide high throughput and yield, for a wide range of applications. The range includes leading lead-free, no-clean, halogen-free solder paste technologies for applications such as fine feature printing, low temperature processing, and many others.

Alpha solde paste delivers:

- Excellent print definition and consistent volumetric performance
- Outstanding reflow process window
- High compatibility
- Long tack and stencil life



**INVENTEC**  
PERFORMANCE CHEMICALS

Model	HS-0601	HS-0802	HS-1002	HS-1202
Dimensions in mm [L x W x H]	3,600x1,383x1,490	5,310x1,353x1,490	6,100x1,353x1,496	6,915x1,353x1,496
Weight [approx.]	1,325 kg	2,200 kg	2,400 kg	2,600 kg
Number of heat zones	Top 6 + bottom 6	Top 8 + bottom 8	Top 10 + bottom 10	Top 12 + bottom 12
Length of heat zones	2,359 mm	3,121 mm	3,891 mm	4,706 mm
Nozzle plates	Aluminum plates [8 mm]			
Number of cooling zones	Top 1	Top 2		
Length of cooling zones	500 mm	900 mm		
Cooling process	Forced-air cooling [optional: water cooling]			
Extraction volume	2 x 10 m <sup>3</sup> /min			
Control system				
Electrical connection	Three-phase, 380V 50/60Hz			
Start-up/warm-up power	26 kW	28 kW	34 kW	38 kW
Normal power consumption	7 kW	9 kW	10 kW	11 kW
Warm-up time	30 minutes [approx.]			
Temperature range	Ambient temperature up to 300° C			
Temperature control	+/- 1.0° C			
Temperature deviation on the PCB	+/- 1.5° C [HB test standard]			
Transport system				
Max. PCB width	400 mm [optional: 610 mm]			
Transport width	50 - 400 mm [single track, optional: 50-610 mm]			
Max. component height	Top/bottom: 25 mm			
Conveyor method	Chain and mesh [optional: chain and centre support]			
Speed/direction	300-2,000 mm/min/L to R [optional: R to L]			
Transport height	900 mm [+/- 20 mm]			
Chain lubrication	Automatic [standard]			

All machine types are CE-certified

## Features

- Up to 12 heat zones
- Forced air cooling with two cooling zones [optional: cooling zone at the bottom]
- Motor-driven adjustment of transport width
- Energy-efficient overall design
- Automatic transport lubrication
- Waste air system with quick-change filters
- SMEMA interface

## Optional:

- Nitrogen preparation
- Full nitrogen system
- Water cooling
- Centre support
- Automatic adjustment of transport width
- Double-track transport