



Bonding Heads

AMADA WELD TECH offers a full range of bonding heads which are available for the Hot Bar product line.

The bonding heads can be used for Hot Bar reflow soldering, ACF-Laminating, Heat Seal Bonding and Heat Staking. The bonding heads offer maximum productivity and consistent process control. The designs are modular, compact, rigid and easily adjustable.

This modular approach enables easy upgrade or system reconfiguration when needed. The compact unit minimises space requirements. The robust bonding heads offer the highest connection accuracy for fine-pitch applications and long thermode lengths at the highest bonding forces.

To achieve optimum force accuracy and consistency, the bonding heads are available in both pneumatic and motorized types and offer a complete bonding force range from 8 to 2500 N.

Key features Bonding Heads

- Force-fired sensor for accurate force control and consistent process stability
- Optional integrated force load cell and displacement sensor for additional control and process data traceability
- Integrated mechanical module for planarity adjustment
- Rigid design for maximum productivity and highest possible connection accuracy
- Modular design for optimum system integration

Specifications Bonding Heads 1/3

.	Force Min (N)	Force Max (N)	Stroke (mm)
SH80 (pneumatic)	8	80	50
SH500 (pneumatic)	30	500	50
SH1250 (pneumatic)	250	1250	50
BH2500 (pneumatic)	20	2500	50
PH80 (stepper motor)	8	80	25
PH500 (stepper motor)	30	500	25
PH1250 (stepper motor)	250	1250	25
PH2500 (stepper motor)	250	2500	50
BONDING HEAD CONFIGURATION OPTIONS			
.	SH80	PH80	SH500
Desktop series	X	X	X
Stand-alone series	X	X	X
Emerald series	-	-	X
Customised systems	X	X	X
Pneumatic force control mode	-	-	X
Ready for MG3HB	X	1	X
Integrated displacement sensor	X	1	X
Integrated force sensor	X	1	X
THERMODE-QCB CONFIGURATIONS 7 WEIGHT*):			
Thermode	SH80	PH80	SH500
3-D thermode <50 mm length / < 4 mm width	69Q0015 (0,15 kg)	69Q0001 (0,6 kg)	69Q0001 (0,6 kg)
3-D thermode <100 mm length / < 4 mm width	69Q0002 (0,9 kg)	69Q0002 (0,9 kg)	69Q0002 (0,9 kg)
3-D thermode <150 mm length / < 4 mm width	69Q0003 (1,3 kg)	69Q0003 (1,3 kg)	69Q0003 (1,3 kg)
2-D thermode <50 mm length / < 3 mm width	69Q0016 (0,6 kg)	69Q0016 (0,6 kg)	69Q0016 (0,6 kg)
Heatstake thermode Single-tip	69Q0023 (0,6 kg)	69Q0023 (0,6 kg)	69Q0023 (0,6 kg)
*)	Custom Hot Bar sizes available upon request. Note 1; bonding head with MG3 Hot Bar, upon request - = not available x = available		

Specifications Bonding Heads 2/3

.	Throat Depth / Weight (mm) / (kg)	Outer Dimensions HxDxW (mm)	
SH80 (pneumatic)	111 / 2,5	296 (490) x 114x57	
SH500 (pneumatic)	111 / 2.7	448 x 126 x 64 (83)	
SH1250 (pneumatic)	111 / 3,6	448 x 146 x 90	
BH2500 (pneumatic)	111 / 4,4	448 x 146 x133	
PH80 (stepper motor)	111 / 2,5	296 (490) x 114 x 57	
PH500 (stepper motor)	111 / 3,0	4448 x 126 x 64 (83)	
PH1250 (stepper motor)	111 / 3.6	448 x 146 x 90	
PH2500 (stepper motor)	111 / 4,4	448 x 146 x133	
BONDING HEAD CONFIGURATION OPTIONS			
.	PH500	SH1250	PH1250
Desktop series	X	-	-
Stand-alone series	X	X	X
Emerald series	X	X	X
Customised systems	X	X	X
Pneumatic force control mode	-	X	-
Ready for MG3HB	1	1	1
Integrated displacement sensor	1	1	1
Integrated force sensor	1	1	1
THERMODE-QCB CONFIGURATIONS 7 WEIGHT*):			
Thermode	PH500	SH1250	PH1250
3-D thermode <50 mm length / < 4 mm width	69Q0001 (0,6 kg)	69Q0001 (0,6 kg)	69Q0001 (0,6 kg)
3-D thermode <100 mm length / < 4 mm width	69Q0002 (0,9 kg)	69Q0002 (0,9 kg)	69Q0002 (0,9 kg)
3-D thermode <150 mm length / < 4 mm width	69Q0003 (1,3 kg)	69Q0003 (1,3 kg)	69Q0003 (1,3 kg)
2-D thermode <50 mm length / < 3 mm width	69Q0016 (0,6 kg)	69Q0016 (0,6 kg)	69Q0016 (0,6 kg)
Heatstake thermode Single-tip	69Q0023 (0,6 kg)	69Q0023 (0,6 kg)	69Q0023 (0,6 kg)
*)			

Specifications Bonding Heads 3/3

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SH80 (pneumatic)		
SH500 (pneumatic)		
SH1250 (pneumatic)		
BH2500 (pneumatic)		
PH80 (stepper motor)		
PH500 (stepper motor)		
PH1250 (stepper motor)		
PH2500 (stepper motor)		
BONDING HEAD CONFIGURATION OPTIONS		
.	BH2500	PH2500
Desktop series	-	-
Stand-alone series	X	X
Emerald series	X	X
Customised systems	X	X
Pneumatic force control mode	X	-
Ready for MG3HB	1	1
Integrated displacement sensor	1	1
Integrated force sensor	1	1
THERMODE-QCB CONFIGURATIONS 7 WEIGHT*):		
Thermode	BH2500	PH2500
3-D thermode <50 mm length / < 4 mm width	69Q0001 (0,6 kg)	69Q0001 (0,6 kg)
3-D thermode <100 mm length / < 4 mm width	69Q0002 (0,9 kg)	69Q0002 (0,9 kg)
3-D thermode <150 mm length / < 4 mm width	69Q0003 (1,3 kg)	69Q0003 (1,3 kg)
2-D thermode <50 mm length / < 3 mm width	69Q0016 (0,6 kg)	69Q0016 (0,6 kg)
Heatstake thermode Single-tip	69Q0023 (0,6 kg)	69Q0023 (0,6 kg)
*)		

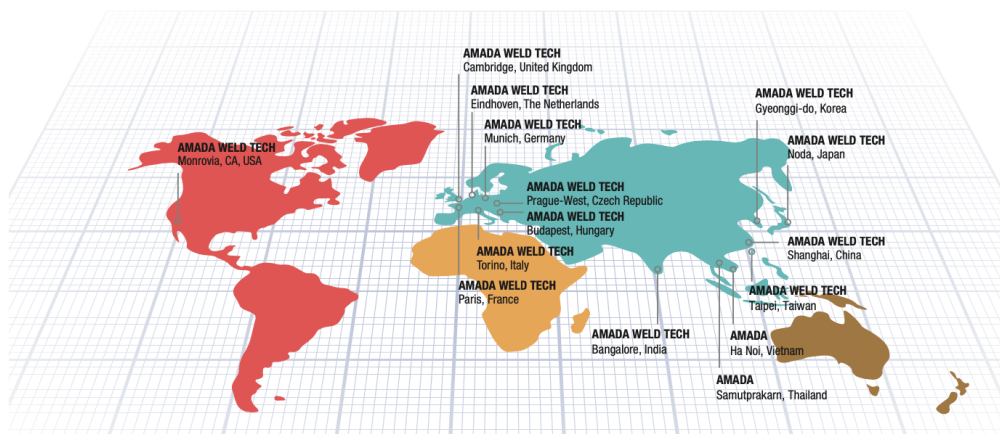
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