



NH-3000A Series Heat Seal Bonding System CH (formerly known as MHSB)

Heat-Seal / ACF Final Bonding is the process of creating electrical conductive adhesive bonds between flexible and rigid circuit boards, glass panel displays and flex foils. This interconnection technique is mostly used for connecting displays to PCB's.

The Heat-Seal / ACF Final Bonding systems are an integral part of The Hot Bar Series using Constant Heat technology through the integrated system temperature controller, a pneumatic Bond Head and customized thermodes.

The product range includes various models with different product handling features such as linear slides and rotary tables. The systems are designed considering ergonomic standards offering maximized production output. All process parameters are embedded into the system ensuring consistent process quality and operator independence.

The systems enable full automatic process control with manual (un-)loading of parts. Each system can be adapted to suit the customers technical requirements through extension with optional plug & play modules. All modules are mounted on a robust frame construction. The system offers the best stability supporting applications down to the finest pitch.

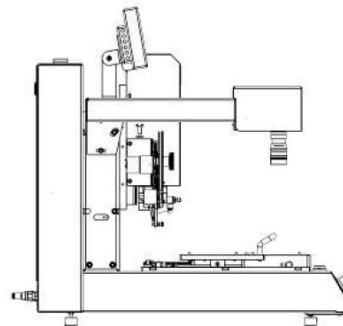
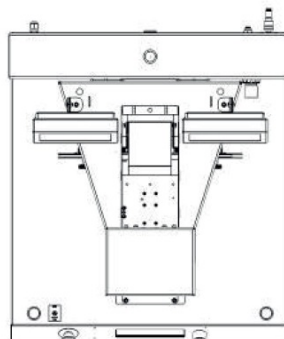
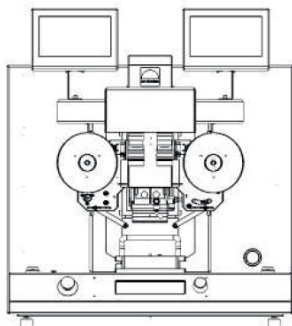
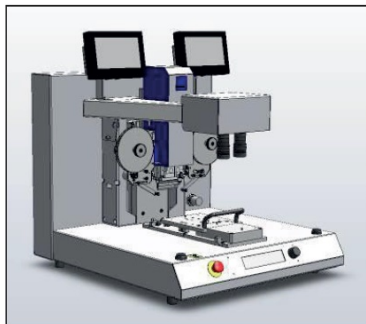
Key Features NH-3000A Series Heat Seal Bonding System CH

- > Compact and flexible systems for high quality connections
- > Connecting displays to PCB, bonding glass panel displays and flex foils
- > User friendly system configuration, including optional plug & play modules
- > Integrated Constant Heat process control based on proven technology
- > Ideal price-performance (throughput) ratio
- > CE approved
- > Pneumatic bond head, X-Y Hot Bar planarity adjustment and electronic system control included

Specifications NH-3000A Series Heat Seal Bonding System CH (formerly known as MHSB)

Power requirements	100-240 VAC / Single Phase / 50/60 Hz (16 Amps max)
Air supply	6 - 8 bar (87 - 116 psi), clean dry & filtered air
Fixture assembly baseplate dimensions	150 x 150 mm
Fixture weight	1.0 kg Max (per product fixture)
Constant heat thermode size (length x width)	Min 3 x 1 mm / Max 75 x 5 mm
Starting operation	Two hand control
Start-up time	
Operating temperature	15 - 40 °C
Operating humidity	Max 93% @ 40 °C
Certification	CE Approved
Bonding head & Temperature controller technical specifications	
Force range	60 - 750 N @ 6 Bar
Bond head stroke (max)	45 mm
Bond level height	40 mm
Free Z space for components	20 mm
Temperature range	50 - 300 °C Constant heat
Temperature control accuracy	+/- 2% of Full Scale
Bond time period	0,5 to 99,9 seconds
MODEL SPECIFICATIONS	
MHSB-3100 base	No movement
NH-3200 linear slide (manual 2-position front-rear slide)	Stroke between front and bonding position: 200 mm fixed
NH-3300 rotary table (manual 2-position)	Turntable diameter: 380 mm
NH-3400 automatic rotary table (pneumatic 2-position)	Turntable diameter: 380 mm. Turntable movement time:
Dimensions HxWxD (mm)	650 x 615 x 695
Weight	60 kg

Drawings NH-3000A Series Heat Seal Bonding System CH (formerly known as MHSB)



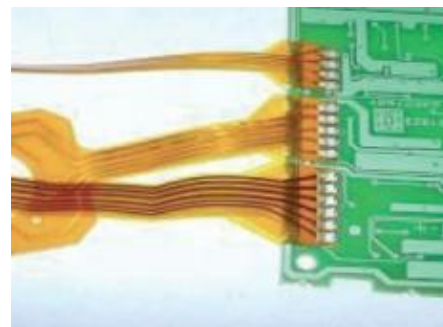
Product applications NH-3000A Series Heat Seal Bonding System CH (formerly known as MHSB)



CCD Camera



Multiple Flex



Flex - PCB

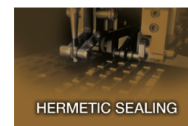


LCD Display

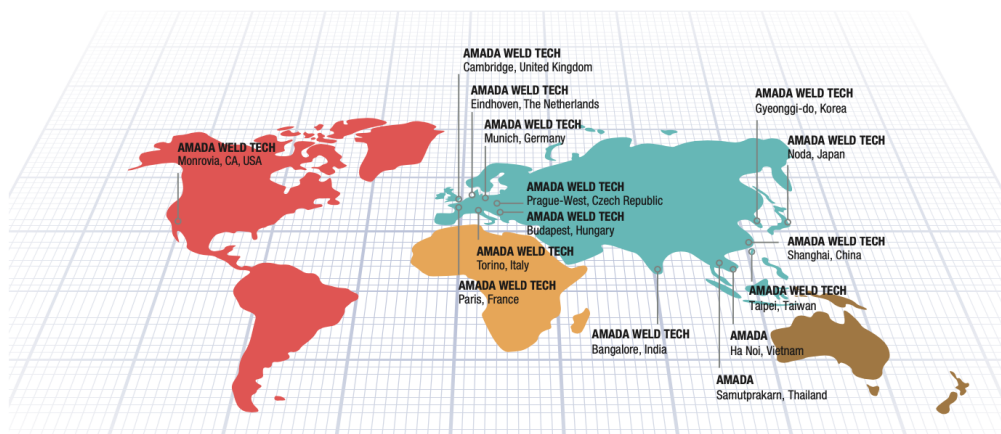
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