# BONDING THE STARS



Working area 100 x 115 mm

Specifications Mechanics X. Y table

Z-axis Speed Bond head Resolution 0,25 µm, repeatability < 2 µm 60 mm *up to* ≤20 wires/min. Wedge-Wedge Alu- Heavy Ribbon Axis of rotation ± 360° 90° quick-change wire guide and cutter Bondforce programmable up to 3500cN increased mechanical Bondforce

Ultrasonic system57 KHzRibbonsizefrom 500µm X 75µm up to 2000µm X 300µmCopper wire from 300...500µmLoop FormsTriangular, rectangular, reverse, stitch bond<br/>programmable

#### Controls

ComputerSMonitorTOperation systemWPrinterFWork holderZ

Single-Board PC, 600 MHz Pentium processor, 256 MB RAM, Ethernet, USB 4x + 4x frontside TFT flat screen Windows 7 All Windows-compatible printers can be installed All bonding parameters can be printed 2x2" standard with mechancal clamping 4x4" optional, as well with vacuum



## **5650 HR** Semi-automatic Heavy Ribbon-

Wedge-Bonder

Thesemi-automaticWedge-WedgeBonder 5650HR fills the gapbetweenthemanualWedge-Bondersseries54xxto the automatic bonder.

On basis of the 5600-series the bonder is fully PC controlled and allows any number of bonds to be programmed.

Pre-programmed adjust points targeted through the are cross hair camera's targeting and the system programmed bonds are executed automatically.

Two operating modes are available: Single bond for repair of various samples in order to perform a single bond.(manualautomatic) Multi wire for teaching and bonding of single chips or various samples (semi and fully automatic).

The 5650 can also be used as a Au Wire or AL Thin Wire Bonder as well as pull-/shear tester by simply replacing the bond head and loading the appropriate software.

change over time: approx. 3 minutes. Ask us for more information !

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## Other features *Programming:*

Automatic bonding of hybrids, power modules or others with programmable X/Y table

### Work holders



For components up to 4 x 4" Vacuum and mechanical clamping



Vacuum and mechanical clamping

Customised work holders are available on request.



For components up to 4 x 4" Vacuum and mechanical clamping



Vacuum and mechanical clamping

Head Parking System	For storing of temporary not required bondheads (5610/30/32/50) or pull- and shear-heads.	
	Can be mounted on the left or right side of the machine	
General		
Camera	With cross hair targeting for positioning of bonds	
Microscope	Stereoskop Standard 40x, other	
	Microscopes optional	
Lighting	20 W halogen spot light, optional LED direct light	
	Incident light optional, ringlight, spotlight	
	programmable	
Dimensions	Height 70 cm, width 70 cm, depth 65 cm; approx. 70	
	kg	
Supplies	100240 VAC, single-phase, 50/60 Hz, max.500VA	
Connections	Air 6 bar, vacuum - 0,7 bar 🏾 ø 6 mm	
Optional	DLC DeformationLimitControl	
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