



5630

Semi-automatic Wedge-Wedge- Bonder

The semi-automatic Wedge-Wedge Bonder 5630 fills the gap between the manual Wedge-to the automatic-bonder. He is on basis 5600-series fully PC controlled and allows any number of bonds to be programmed.

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

Two operating modes are available: Single bond for repair of various bond samples and making single bonds (manual-automatic) and multi wire for teaching and bonding chips or various bond samples (semi and fully automatic).

The 5630 can also be used as Gold Wire or Alu Heavy Wire as well as pull-/shear tester by simply replacing the bond head and loading the appropriate software.

change over time: approx. 5 minutes.

Ask us for more information !

Specifications

Mechanics

<i>X, Y table</i>	Working area 100 x 115 mm Resolution 0.25 µm, repeatability < 2 µm
<i>Z-axis</i>	60 mm
<i>Speed</i>	up to ≤20 wires / min.
<i>Bond head</i>	Wedge-Wedge Thin-Wire (Au/Al) Axis of rotation ± 360°
<i>Ultrasonic system</i>	60KHz / 100kHz optional 140KHz
<i>Wire size</i>	17,5µm up to 75µm
Control	
<i>Heating-controller</i>	Integrated in machine 0 - 250°C
<i>Computer</i>	Dual Core PC, 1,6 GHz processor, 4 GB RAM, Ethernet, USB 4x + 4x frontside
<i>Monitor</i>	TFT flat screen
<i>Operation system</i>	Windows 7
<i>Printer</i>	All Windows-compatible printers can be installed All bonding parameters can be printed
<i>Work holder</i>	∅ 80mm or 4x4"
<i>Heated work holder</i>	∅ 80mm and optional 4x4" (mech. / vacuum) (Attention: 4x4" up to 200°C; 80 mm up to 250°C)

Other features

Programming: Automatic bonding of hybrids or COB with programmable X/Y table

Work holders



For components up to 4 x 4"
Vacuum and mech. clamping

Heated Substrather alter optional



For components up to 4 x 4"
Vacuum and mech. clamping
heated



for components up to \varnothing 80 mm
Vacuum and mech. clamping
heated

More Work holders available on request.

Head Parking System For storing of temporary not required bondhead 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
Dimensions Height 70 cm, width 70 cm, depth 65 cm; approx. 70 kg
Supplies 100...240 VAC, single-phase, 50/60 Hz, max. 500 VA
Connections Air 6 bar, vacuum 0,7 bar \varnothing 6 mm