





Thin Wire Wedge-Wedge Bonder 5630i

### **Bond System**

Wire types	Aluminium and gold wire 12,5-75 $\mu m$ on 2" spool
Bondhead	Wedge-Wedge for thin wire Standard wedges of 1″ length, 45° wire feed Motorized wire spool (optional)
Ultrasonic	F&S Generator 100 kHz
System	(optional 65, 140kHz)

### **Bonder Base**

#### Axes

- Working area X/Y-axis 100 x 100 mm
- Step resolution 1 µm programmable
- Programmable Z-axis with 60mm stroke

#### Hardware

- Dual-Core PC with Windows OS Ethernet
- USB 2.0/3.0, LCD Color display 22"
- GigE-CMOS-Color camera
- Network compatible with program archiving

#### Software

- Single bonds up to complex programs
- Loop shapes can be saved in libraries
- Optional pattern recognition

Placement accuracy:	+/- 5 μm @ 3 sigma, incl. Tool / no wire on F&S BONDTEC standard substrate
Repeatability:	+/- 3 µm @ 3 sigma, incl. Tool / without wire on F&S BONDTEC standard substrate
Loop height accuracy:	+/- 5 μm @ 3 sigma, for thin wire 5630 with 25 μm aluminum wire on F&S BONDTEC standard substrate

## Die 56xxi Series:

The semi-automatic Wedge-Wedge Bonder 5630i fills the gap between the manual Wedge to the automatic-bonder. He is on basis 5600i-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 (manualautomatic) and multi wire for teaching and bonding chips or various bond samples (semi & fully automatic).

The 5630i 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.

Set up time: ~3 minutes. Ask us for more information!

# BONDING THE STARS

Speed 1 wire / 2 - 3 seconds

**Dimenstions** W x D x H – 70 x 65x 70 cm, weight approx. 75 kg

Connections 100-240 VAC, 1 Phase, 50/60 Hz, max 500 VA Ø 6mm standard vacuum tubing

Heater controller Integrated in the machine 0-250C°

### Workholder

Standard-Workholder for parts up to 4x4" with Vacuum und mechanical clamping



## **Optional:**



workholders up to 4x4" with jaws



TO workhoder with mechanical clamping



BONDTEC

**4x4" workholder** with . rubberized surface and mechanical clamping

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