#### BONDING THE STARS







# Heavy Wire Wedge-Wedge Bonder 5650

#### **Bond System**

Wire types Aluminium wire 100-500µm on 4" spool

Copper wire 100-300µm on 4" spool

**Bondhead** Wedge-Wedge for heavy wire, Front- or Backcut

Standard tool of 2" length, (up to 90mm)

Motorized wire spool (optional)

Programmable Voice-oil bond force system

From 0 up to 1.800 cN

Ultrasonic F&S Generator 58 kHz System (optional 40, 90, 120)

#### **Bonder Base**

Axes

- Working area X/Y-axis 100x100mm
   Z-axis 60mm
- Step resolution 0,25μm
- Repeatability < 2µm</li>

Hardware

- Dual Core PC, 1,6 GHz processor,
- 4 GB RAM, Ethernet, 4x USB-Hub Front
- Firewire CCD colour camera 1,4 MPixel
- Network-capable with TCP / IP server

Software

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

Placement accuracy: +/- 5µm @ 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: +/- 5µm @ 3 sigma, for thin wire 5630

with 25µm aluminum wire on F&S Bondtec

standard substrate

#### Die 56xx Series:

The semi-automatic Wedge-Wedge Bonder 5650 fills the gap between the to the automatic bonder.

Based 56xx-series the bonder is 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 samples in order to perform a single bond. (manualautomatic) Multi wire for teaching and bond-ing of single chips or various samples (semi &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 soft-ware.

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

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**Speed** 20 wires per minute

**Dimenstions** W x D x H - 70 x 65x 70 cm, weight approx. 80kg

**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



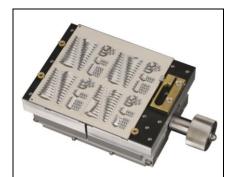
## Optional:



workholders up to 4x4" with jaws



TO workhoder with mechanical clamping



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

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