BONDING THE STARS







Heavy Ribbon Wedge-Wedge Bonder 5650HRi

Bond System

Wire types Aluminium Ribbon up to 2000 x 300 μm on 3,5" spool

Copper wire 300 - 500 µm on 4" spool

Bondhead Wedge-Wedge for heavy ribbon or copper wire

Standard Wedges of 2" Length, (up to 90mm)

Motorized wire spool (optional)

Programmable Voice-oil bond force system 0 up to 1.800 cN (amplifiable up to 4.000 cN)

UltrasonicF&S Generator 60 kHzSystem(optional 40, 90, 120kHz)

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 5630i

with 25 µm aluminum wire on F&S BONDTEC standard substrate

Die 56xxi Series:

The semi-automatic Wedge-Wedge Bonder 5650iHR fills the gap between the manual Wedge-Bonder series 53xxi to the automatic bonder.

On basis of the 56xxi-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 per-form a single bond. (manual-automatic) Multi wire for teaching and bonding of single chips or various samples (semi and fully automatic). The 5650i can also be used as am Au Wire or Al Thin Wire Bonder 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!

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Speed 1 wire / 3 seconds

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

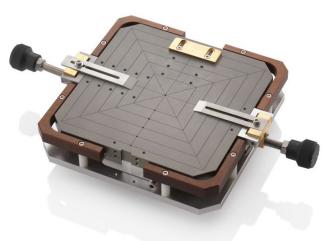
Connections 100-240 VAC, 1 Phase, 50/60 Hz, max 500 VA

Ø 6mm standard vacuum tubing

Heater controller Integrated in the machine 0-250C°

Workholder

Standard-Workholder for parts up to 6x 6" with Vacuum und mechanical clamping



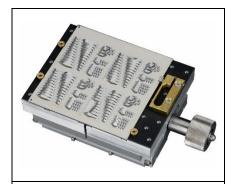
Optional:



workholders up to 4x4" with mechanical clamping



TO workhoder with mechanical clamping



4x4" workholder with . rubberized surface and mechanical clamping

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