

Heavy Ribbon Wedge-Wedge Bonder 5650HR

Bond System

Wire types	Aluminium Ribbon up to 2000x300µm on 3,5" spool Copper wire 300-500µm 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 1.800cN (amplifiable up to 4.000cN)
Ultrasonic System	F&S Generator 60 kHz (optional 40, 90, 120kHz)

Bonder Base

Axes

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

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 5650HR fills the gap between the manual Wedge-Bonder series 53xx to the automatic bonder.

On basis of the 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.(manual-automatic) Multi wire for teaching and bonding of single chips or various samples (semi and fully automatic). The 5650 can also be used as an 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!

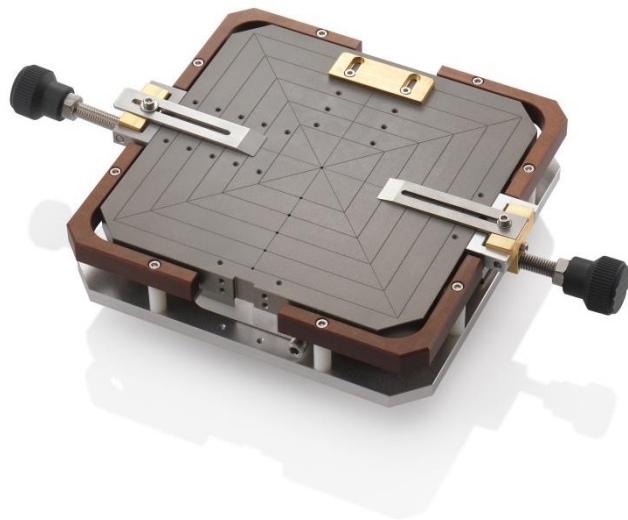
BONDING THE STARS



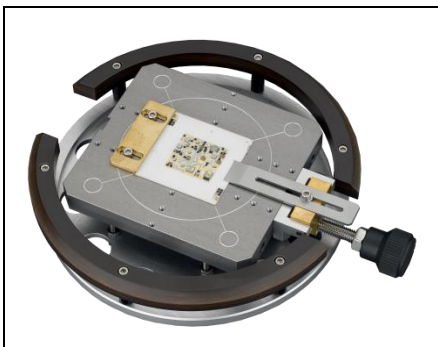
- Speed** 20 wires per minute
- Dimensions** W x D x H – 70 x 65x 70 cm, weight approx. 80kg
- Connections** 100–240 VAC, 1 Phase, 50/60 Hz, max 500 VA
Ø 6mm standard vacuum tubing
- Heater controller** Integrated in the machine 0–250C°

Workholder

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



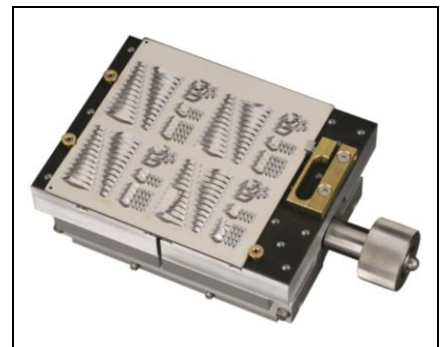
Optional:



workholders up to 4x4"
with mechanical clamping



TO workholder with
mechanical clamping



4x4" workholder with .
rubberized surface and
mechanical clamping

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