**Bond System**

**Wire types**  
Aluminium and gold wire 12.5-75 µm on 2” spool

**Bondhead**  
Wedge-Wedge for thin wire  
Standard wedges of 1” length, 45° wire feed  
Motorized wire spool (optional)

**Ultrasonic System**  
F&S Generator 100 kHz  
(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 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!
**Speed**
1 wire / 2 – 3 seconds

**Dimensions**
W x D x H – 70 x 65 x 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 0-250°C

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

**Optional:**

- workholders up to 4x4” with jaws
- TO workholder with mechanical clamping
- 4x4” workholder with rubberized surface and mechanical clamping