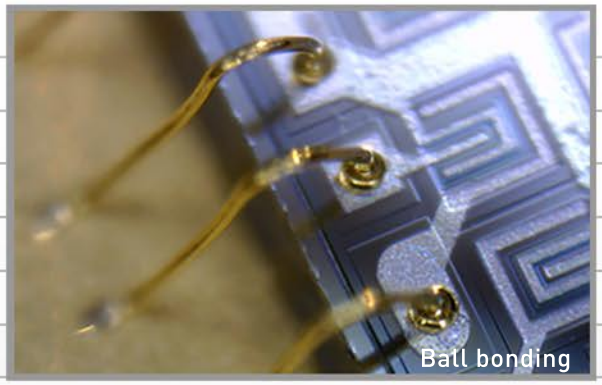
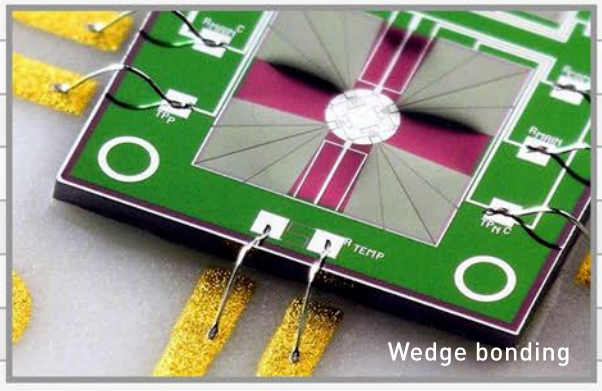
HB16 Wedge & Ball Bonder

Motorized Z- & Y- Axes


Ball bonding


Wedge bonding

+ Wedge, Ball, Bump and Ribbon bonding
+ 17µm to 75µm Wire and 25µm x 250µm Ribbon
+ 6,5" TFT Touch Screen
+ Deep-Access Wedge 16mm / Ball 13mm
+ Bond Arm Length 165mm
+ 100 Program Storage Capacities
+ Motorized Z- & Y-Axis
+ Programmable Loop Profile
+ USB Backup
+ Electronic Ball Size Control

+ Pick & Place Option
+ Pull Tester Option
+ Copper Bonding Option

HB16 Thermosonic Wire Bonder for Wedge & Ball Bonding

The HB16 is a **Bench Top Size Wire Bonder**, ideal for laboratories, pilot and small scale production lines.
One Bond Head for bonding in Ball/Wedge or Wedge/Wedge bonding mode. Only tool change necessary.
Easy operation with **TFT Touch Screen** and direct access and simple adjustment of all bond parameters.

Technical Specifications

Bonding Methode	Wedge-Wedge, Ball-Wedge, Ribbon- & Bumb- bonding
Gold wire diameter	17 - 75 µm (0,7 - 3 mil)
Aluminium wire diameter	17 - 75 µm (0,7 - 3 mil)
Ribbon size	max. 25 x 250 µm (1 x 10 mil)
Ultrasonic system	63,3 kHz Transducer PLL Control
Utrasonic power	0 - 10 Watt Output
Bond time	0 - 20000 msec.
Bond force	5 - 150 cN (350 cN option)
Bonding tool	1,58 Ø 19mm length (0,0624" x 0,750")
Motorised Wire Spool	50,8 mm (2")
Wire termination	Bond Head Tear / Clamp Tear
Wire feed angle	90°
Clamp movement	Motorized, Up / Down
Ball size control	Electronic
Motorized Z travel	20 mm (0,8") 1µm incremental steps
Motorized Y travel	10 mm (0,4") 1µm incremental steps
Throat depth	165 mm (6,5")
Fine Table motion	10 mm (0,4")
Mouse ratio	6:1
Temperature controller	up to 250°C +/- 1°C
Electrical Requirements	100 - 240V +/-10% 50/60 Hz 10A max.
Physical Dimensions	680 (27") x 640 (25") x 490 mm (19")
Weight	Net 42 kg
Industry Standards	CE standards

Accessories:

H26 Heater Stage
with Pick & Place

H69 Bond Starter Kit

H51 Manual Z-Axis Control

H21 Heater Stage
100 x 100mm

H50 Spotlight Targeting System

H89 Video Targeting System

Specifications are subject to change without prior notice

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Made in Germany