



HB04 Ball Bonder



25µ Gold-Wire

- + Ball and Bump bonding
- + 17µ to 50µ Wire
- + Deep-access Bond Head 16 mm,
- + Bond arm length 165 mm
- + 2" Wire Spool Holder
- + 6:1 ratio X-Y manipulator
- + Independent control of
first and second bond parameters

HB04 Thermosonic Ball Bonder

The HB04 is a bench top size wire bonder, easy to operate and ideal for laboratories. pilot and pre-production runs and small scale production lines.
Direct access and simple adjustment to all bond parameters.

Standard

Deep-access Bond Head
PLL Ultrasonic generator
Loop Height adjustable
Large bonding area
Stitch bonding
Bond arm length 165 mm
2" Wire Spool
Electronic Flam Off for Ball bonding
Bump bonding

Options

H10 Zoom Stereo-Microscope Leica S6 20x
H20 Built in Heater stage Controller (up to 250°C)
H21 100 x 100 mm Adjustable height heated work stage
H26 Adjustable height heated work stage surface 60 mm ø
H29 Adjustable height heated work stage surface 90 mm ø
H50 Spot light targeting System
H55 Dual Fiber Optic illuminator
H61 Bonding tool for Ball Bonding
H70 Gold-Wire 25µ, 60 Meter, 2" Spool
H71 Motorized 2" Wire Spool
H72 ½ " Wire Spool adapter
H73 Torque Wrench 25 cNm for Bonding Tool
H86 External Heater stage Controller (up to 250°C)
H90 Delivery with installation and user Training

Technical Specifications

Ultrasonic system	PLL Control 62 kHz transducer
Ultrasonic power	0 - 2 watt
Bond time	15 - 500 msec.
Bond force	15 - 100 cNm
Ball Bonding Tool	1,58 Dia. X 19 mm length (0,0624" Dia. x 0,750")
Gold wire diameter	17 to 50µ (0,7 to 2 mil)
Wire Spool	50,8 mm (2 inch)
Wire termination	Bond Head tear
Wire feed angle	90° for Wire
Throat depth	165 mm (6,7")
Fine Table motion	15 mm (0,55 ")
Mouse ratio	6:1
Electrical Requirements	100 - 240V +/-10% 50/60 Hz 5A max.
Physical Dimensions	500 mm (27")W x 500 mm (25") D x 490 mm (19") H
Weight	Shipping 55kg Net 42kg
Industry Standards	CE standards



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