



HB04 Ball Bonder



- + 17µ to 50µ Wire
- + Deep-access Bond Head 16 mm
- + Bond arm length 165 mm
- + motorized tail control
- + Digital control with 4,3" TFT Display
- + Storage for 20 parameter sets
- + 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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