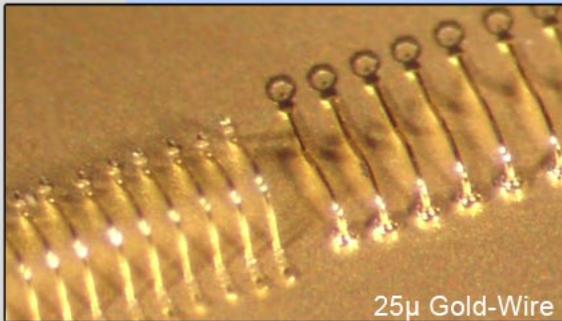
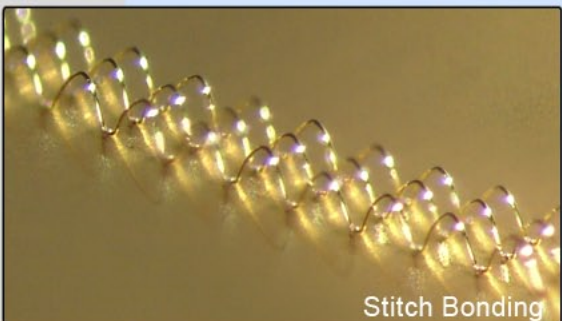




HB05 Wedge and Ball Bonder



25µ Gold-Wire



Stitch Bonding

- + Wedge, Ball and Bump bonding
- + 17µ to 50µ Wire and 25µ x 200µ Ribbon
- + Deep-access Bond Head 16 mm
- + Bond arm length 165 mm
- + 2" Wire Spool Holder
- + 6:1 ratio X-Y manipulator
- + Dual Fiber Optic illuminator
- + Independent control of
first and second bond parameters

HB05 Thermosonic Wire Bonder for Wedge & Ball & Bump Bonding

The HB05 is a bench top size wire bonder, easy to operate and ideal for laboratories, pilot and pre-production runs and small scale production lines. One Bond head for bonding in Wedge/Wedge, Ball/Wedge or Bump bonding mode. No hardware change necessary. Direct access and simple adjustment to all bond parameters.

Standard

90° Bonding Deep-access Bond Head
PLL Ultrasonic generator
Large bonding area
Stitch bonding
Bond arm length 165 mm
Dual Fiber Optic illuminator
Heater stage Controller
2" Wire Spool
Electronic Flam Off for Ball bonding
Bump bonding

Options

H10 Zoom Stereo-Microscope Leica S6 20x
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
H60 Bonding tool for Wedge bonding 25µ wire
H61 Bonding tool for Ball Bonding 25µ wire
H70 Gold-Wire 25µ, 60 Meter, 2" Spool
H74 Aluminium -Wire 25µ, 60 Meter, 2" Spool
H72 ½ " Wire Spool adapter
H73 Torque Wrench 25 cNm for Bonding Tool
H90 Delivery with installation and user Training

Technical Specifications

Ultrasonic system	PLL Control 62 kHz transducer
Ultrasonic power	0 - 1 watt Low / 0 - 2 watt High output
Bond time	20 - 5000 msec.
Bond force	15 - 100 cNm
Ball Bonding Tool	1,58 Dia. X 19 mm length (0,0624" Dia. x 0,750")
Wedge 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)
Aluminium wire diameter	17 to 50µ (0,7 to 2 mil)
Gold ribbon	up to 25 x 200µ (1x 8 mil)
Wire Spool	50,8 mm (2 inch)
Wire termination	Bond Head tear
Wire feed angle	90° for Wire and Ribbon
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 10A 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



TPT Franz Hickmann
Lärchenweg 59a
D-85757 Karlsfeld
Tel.: +49 (0) 8131 / 58604
Fax: +49 (0) 8131 / 58654
www.tpt.de