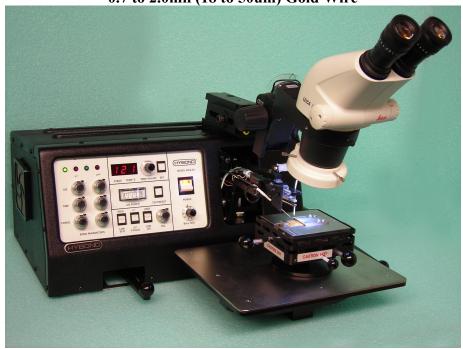


Soft TouchTM

MODEL 522A-40

DEEP ACCESS/LONG REACH THERMOSONIC BALL BONDER

0.7 to 2.0mil (18 to 50um) Gold Wire



STANDARD FEATURES:

- ➤ HYBOND *Soft TouchJ* energy system.
- ➤ Independent 1st and 2nd bond controls.
- > 1-2-2 stitch capability standard.
- Long horizontal reach of 6.5in (16,5cm).
- Deep vertical access of 0.53in (1,35cm).
- > 0.5in. and 2in. spool mounts standard.
- ➤ Loop height control adjustment.
- > Electronic ball size control.
- ➤ Independent lever for Z bond head control.
- Swing away clamps for easier wire threading.

- ➤ Motorized vertical wire feed system
- ➤ High and low EFO power standard.
- Front panel ultrasonic test button.
- Fits 10 x 10in (25,4 x 25,4cm) module or substrate.
- > Infinite angle mounting for microscope.
- ➤ LED display for monitoring temperature.
- ➤ Tail length is adjustable in varying amounts by a front panel control.
- ➤ Audio and visual bond fault indicators.
- ➤ 10 x 12in (25,4 x 30,4cm) X-Y work platform.

Model 522A-40 is a Deep Access, Long Reach, Thermosonic Ball Bonder for wires from 0.7mil (18um) to 2.0mil (50um) in diameter featuring HYBOND=s exclusive *Soft Touch* TM force ramping system. Imitated but never duplicated, the *Soft Touch* system bonds effectively with less trauma to sensitive materials like GaAs and InP. Wire control is provided by a motorized feed system which features front panel adjustment for tail length and a swing away clamp assembly which makes threading wire easier. Front panel controls include independent 1st and 2nd bond dials for U/S, Time & Force as well as a built in work stage temperature controller. The 522A-40 has a proven track record of safe and effective wire bonding worldwide

Partial List of Available Options:

➤ OP-06S7E: Leica S7E Zoom Stereo Microscope. ➤ OP-31: Tool Heater and Temp. Controller.

➤ OP-06B: Nikon SMZ745 Microscope. ➤ OP-47: Beam Lead/Die Pick, Place and Bond.

➤ OP-08A-LED: Dual Fiber Optic Illuminator. ➤ OP-82: Heated Transducer for Tool Heat.

➤ OP-08R1-LED: White LED Ring Illuminator. ➤ WST-15A: Heated Work Stage, 2.125 in. top.

➤ OP-12: 240VAC 50/60Hz Input Wiring. ➤ WST-19A: Heated Work Stage, 4 x 6 in. top.

➤ OP-13: Board for Bump Bonding. ➤ WST-65: Heated Work Stage, 10 x 6 in top.

➤ OP-30A: 8:1 X-Y Manipulator. ➤ Wire & Capillary as ordered per application.

Specifications for Model 522A-40:

➤ Ultrasonic (U/S) System: PLL self tuning 62.5KHz (nominal) system (±2.5KHz).

➤ U/S Power Range: 0-1 watt on low setting (default) & 0-2 watts on high with OP-44.

➤ Bond Time Range: 10mSec. to 400mSec.

➤ Bond Force Range: 15gr. to 120gr.

➤ Temperature Control Range: Ambient to 250 degrees Celsius.

➤ Bondable Wire Diameters: 0.7 to 2.0mil (18 to 50µm) diameter.

➤ Bondable Wire Materials: Gold.

➤ Bonding Capillary Used: 0.750in. length capillary.

➤ Bond Head Movement: Manual.

➤ Bond Actuation: Switch at fixed height. Activated by lever.

➤ Z Travel: 0.5in. (12,7mm) maximum bond head travel.

➤ Vertical Bonding Window: 60-100mils (1,5 - 2,5mm) maximum height difference between 1st

and 2nd bond height for proper bonding.

➤ Table Motion: 4:1, manual manipulator.

➤ Input Power Requirements: 110VAC 50/60Hz @ 10A max. standard or 240VAC with OP-12.

Minimum Bench Space Required: Width: 20in., Depth: 25in. (50,8 x 63,5cm).

➤ Unit Weight/Shipping Weight: 70 lbs. (31,8Kg)/150 lbs. (68,6Kg). Shipping weight may vary.

➤ Vacuum Requirement: Vacuum = 20 inHg minimum.

➤ Industry Standards: CE.

For more information contact us:



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