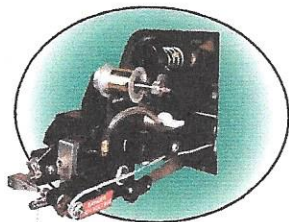
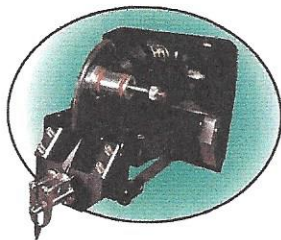


see 7.

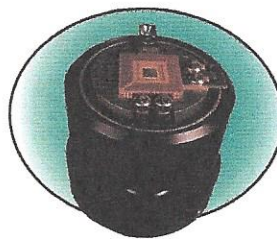
5K "B" SERIES



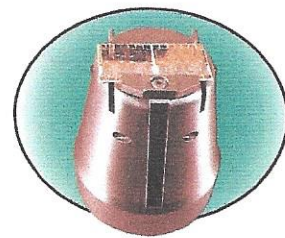
BALL BOND HEAD



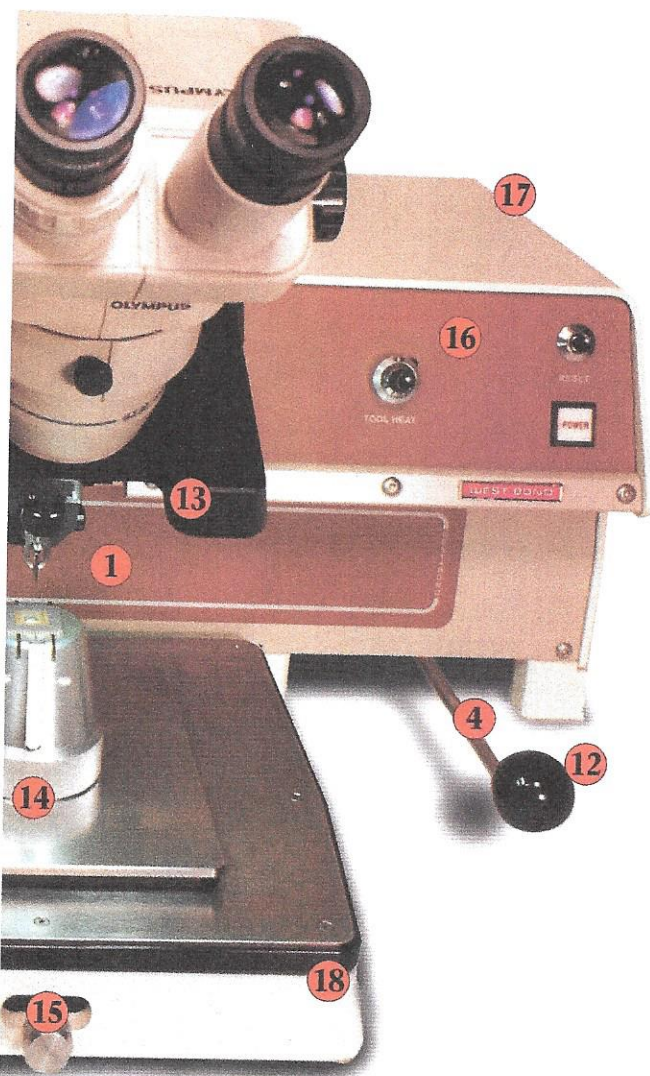
WEDGE BOND HEAD



HEATED WORKHOLDER



UNHEATED WORKHOLDER



Choose Ball and Wedge or Wedge-to-Wedge Bonding from the 5K base series machine.

BALL AND WEDGE: WEST•BOND Model 5700B Machine bonds gold wire of 0.7 to 2.0 mil (18-50 microns) diameter by the ball and wedge thermosonic technique. Wire is threaded vertically through a hollow capillary, is balled by a mechanized, retractable electronic torch, and is further mechanized to terminate wire by the "tailless" method. Bonding is omnidirectional. The bonding tool is motorized vertically and work is positioned by an X-Y micromanipulator with reference to either the tool at "search" position or by an optional CCTV with Cross-hair Generator.

WEDGE-TO-WEDGE: WEST•BOND Model 5400B Machine bonds aluminum or gold wire of 0.7 to 2.0 (18-50 microns) diameter by the wedge-to-wedge technique. Wire is clamped and threaded diagonally under the bonding wedge, allowing independent feeding action, but requiring front-to-back bonding (unidirectional). The bonding tool is driven vertically and work is positioned by an X-Y micromanipulator with reference to either the tool at "search" position or by an optional CCTV with Cross-hair Generator.

Common to the above models are state-of-the-art microprocessor technology, robust mechanical construction, and automatic machine sophistication. These features combine to offer the best and most advanced assembly machines possible.

- 1 MOTORIZED "Z" BOND HEAD
- 2 OPTIONAL ALIGNMENT CAMERA
- 3 ALIGNMENT MONITOR WITH BUILT-IN CROSS-HAIR GENERATOR
- 4 ALIGNMENT MANIPULATOR
- 5 PROGRAMMABLE SEARCH
- 6 PROGRAMMABLE LOOP
- 7 PROGRAMMABLE HEIGHT
- 8 LCD INTERACTIVE INFORMATION PANEL
- 9 BUILT-IN 8-BIT PROGRAMMABLE ULTRASONIC COMPONENTS
- 10 PROGRAMMABLE FORCE
- 11 FUNCTION KEYPAD
- 12 "GO" SWITCH
- 13 SHADOWLESS ILLUMINATOR
- 14 WORKHOLDER (UNHEATED OR HEATED)
- 15 WORK HEIGHT ADJUSTMENT
- 16 TOOL HEAT OPTION
- 17 MICROPROCESSOR-CONTROLLED CIRCUITRY WITH DYNAMIC MEMORY FOR WIRE COUNT AND DEVICE TYPES
- 18 DETACHABLE WORK PLATFORM



5K "B" SERIES

Standard Specifications*

- MICROPROCESSOR: TI 9900, 16 Bit
- MEMORY: Dynamic allocation of wires, chips and devices up to 352 wires
- DISPLAY: LCD 40-Character, 4-line, English / Foreign languages
- DATA ENTRY: Keypad
- RETRACTABLE ELECTRONIC TORCH (Model 5700B)
- "Z" DRIVE: Linear Actuator, .5" (12.6 m/m) travel with .000253" (8 micron) resolution
- THROAT DEPTH: 6 inches
- WORKING ENVELOPE: 12 inches square x 2.687 inches high
- WORK HEIGHT ADJUSTMENT: .312" (7.9 m/m)
- WORK PLATFORM: Manual X-Y, vertically adjusted
- WORKHOLDERS: Heated or unheated, 2.688 inches high
- TOOL HEAT: Radiant heater, optional
- FORCE: Two levels, programmable for each bond
- FORCE RANGE: 10 grams to 175 grams, dynamically displayed
- WORK SENSING: Loadcell
- BOND TRIGGER: Loadcell
- ULTRASONIC CONTROLS: 8-bit, 4 watts, programmable
- ULTRASONIC POWER/TIME: Programmable for each bond
- KEYPAD: Alpha-numeric
- TRANSDUCER: 1/2 wave, 63 KHz (nominal)
- MANIPULATOR: 6:1 ratio with air-brake and knob-mounted "GO" switch
- TOOL LENGTH (Standard): 0.750 inch (Model 5400B)
- TOOL WIRE GUIDE ANGLE (Standard): 45 degrees
- TOOL LENGTH (Standard): 0.625 inch (Model 5700B)
- MULTIPLE HEIGHT BONDING
- WIRE CLAMP/FEED DRIVE: Linear Actuator
- WIRE RANGE: 0.0007 inch (18 microns) - 0.002 inch (50 microns)
- WIRE SPOOL MOUNT: 0.5 inch or 2.0 inch
- MICROSCOPE (Standard): Leica
- SHADOWLESS ILLUMINATOR
- ALIGNMENT CAMERA: Pulnix Model TM7EX, OPTIONAL
- CAMERA MAGNIFICATION: 5X

FACILITIES

- POWER: 115 VAC, 50/60 Hz, 3 Amp
- AIR: 50 psi input

Standard Features & Available Accessories

PHYSICAL DIMENSIONS

- HEIGHT: 15 inches
- WIDTH: 36 inches
- DEPTH: 24 inches
- COLOR: Almond / Brown
- WEIGHT: 86 pounds
- SHIP WEIGHT: 128 pounds

5KB FEATURES

- MICROPROCESSOR-CONTROLLED machine variables with dynamic LCD status indicators
- BOND ALIGNMENT CAMERA
- 12 INCH WORKING ENVELOPE for large modules or MCMs
- FAULT DIAGNOSTICS
- HEATED and UNHEATED workholders, custom made
- PROGRAMMABLE LOOP and PROGRAMMABLE STITCH
- PROGRAMMABLE TAIL/PULL STROKE
- LOADCELL feedback of bond force values displayed in real time
- DETACHABLE WORK PLATFORM
- 8-BIT CONTROL of ultrasonic power and time over any bond
- SINGLE-KNOB, PURE VERTICAL HEIGHT ADJUSTMENT
- LOW-INERTIA TOOL ASSEMBLY WITH DEEP-ACCESS CAPABILITY
- RETRACTABLE ELECTRONIC TORCH (Model 5700B)
- FUNCTION KEYPAD
- "XL" CERAMIC CAPILLARY (Model 5700B)

TOOL FEATURES

- DEEP ACCESS
- OVERHEAD CLAMPS
- THREAD SEQUENCE
- TOOL HEAT

ACCESSORIES

- MOTORIZED WIRE FEED, 2 inch Spool, K-SINE Model K-1100
- RADIANT HEATER (Feature -44A)
- FOREIGN LANGUAGE SOFTWARE
- MODEL 1200D TEMPERATURE CONTROLLER *quote*
- SELF-THREAD WEDGE (Model 5400B)
- WIRE SAMPLE
- OTHER MICROSCOPES
- STEP-DOWN TRANSFORMER (Export Only)