

WEST·BOND. INC.



7430E – 7630E – 7730E SERIES (High Frequency)

MANUAL WIRE BONDERS

Triple Convertible Machine

Continuing a Tradition of Quality

7430E · 7630E · 7730E Series (High Frequency)

7430E - Conventional 45 Degree Wire Feed Wedge Bonder
7630E - Deep Access 90 Degree Wire or Ribbon Feed Wedge Bonder
7730E - Single Ball or Ball-Wedge Bonder



UNLIMITED DEEP REACH access to remote bond targets on large packages with WEST-BOND'S new throatless chassis and micromanipulator designs. All machine components, circuitry and enclosures are arrayed above the horizontal bond plane, eliminating any restrictions to package size or shape. Manual "E" Series models are available for all microwave, semiconductor, R.F., and hybrid production, and are ideal for repair station or laboratory use.

CONVERTIBILITY for a variety of bonding methods is pioneered by West-Bond. A simple exchange of bond tool head or wire clamp assembly, provided with specified models, allows conventional 45° wire feed, deep access 90° wire or ribbon feed, ball bonding, insulated wire and single point tab/lead bonding. All programmed bond variables and machine settings for each tool head are retained in memory and retrieved automatically upon conversion.



PROGRAMMING for thirty different device types may be entered into separate buffers. Each device wire may have up to 21 stitch bonds with individual ultrasonic power, time, force (high or low) and loop elevation control data. Program values, action prompts, and fault diagnostics are exhibited on the easy to read 4 line, 40 character LCD sequentially with machine operation.



FEATURES include programmable dual force (high or low), pure vertical Z, pneumatic braking of all axes during bonding, and radiant tool heat. Available with or without the base and work platform for tabletop or conveyor system applications.



STANDARD SPECIFICATIONS

CONTROL LOGIC: Motorola 68000 Microprocessor
MEMORY: Battery back-up RAM
DATA ENTRY: Selector switch
Z TOOL RANGE: 0.5625 inch
Z ENCODER RESOLUTION: 0.001 inch
BOND FORCE RANGE: Adjustable, 10 to 250 grams
TRANSDUCER: Full wave, 110 KHz (nominal)
BALL FAULT DETECTION: 7700E
ULTRASONICS: Built-in, 8 bit, 3 watts (Ultrasonic Positioning Utility)
WIRE RANGE: 0.7 to 2.0 mils, 1x10 mil gold ribbon (7630E)
ESD PROTECTION: Protection against Electrostatic Discharge

DISPLAY: 4 line, 40 character LCD
CONVENTIONAL TOOL LENGTH: 0.828 inch (7430E)
DEEP ACCESS TOOL LENGTH: 0.828 inch (7630E)
BALL CAPILLARY LENGTH: 0.750 inch (7730E)
MICROMANIPULATOR: Dual counterbalanced, single lever, 8:1 ratio
WIRE SPOOL MOUNT: 0.5 inch with ball bearing rollers
RADIANT TOOL HEAT: Built-in
MICROSCOPE: Selection available (ESD types available)
ILLUMINATOR: Selection available (ESD types available)
WORK HOLDERS: Wide selection plus custom fabrication services
DIMENSION: W=24.0" x D=21.250" x H=11.625"
WEIGHT: 60 lbs uncreated, or 95 lbs accessorized and created

www.westbond.com

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