

# 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 Manual Wire Bonders

**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

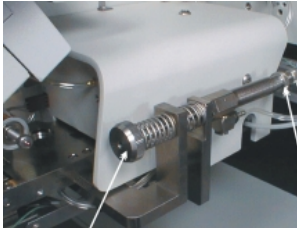


**UNLIMITED DEEP REACH** access to remote bond targets on large packages with WEST-BOND'S new throatless chassis and micromanipulator designs. All machine components, circuitry and enclosures are arrayed above the horizontal bond plane, eliminating any restrictions to package size or shape. Manual "E" 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:** ½ wave, 63 KHz (nominal)

**BALL FAULT DETECTION:** 7700E

**ULTRASONICS:** Built-in, 8 bit, 4 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:** 0.750 inch (7430E)

**DEEP ACCESS TOOL LENGTH:** 0.750 inch (7630E)

**BALL CAPILLARY LENGTH:** 0.625 inch or 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

**COMPRESSED AIR:** Regulated to 50 psig, is required. Connection is via 1/4-inch tubing

**ELECTRICAL SERVICE:** Required is 50-60 Hz, single phase, either 115 VAC or 230 VAC, selected automatically

**DIMENSION:** W=24.000" D=21.250" H=11.625"  
(exclusive of microscope, or H=15.000" to scope eyepieces)

**WEIGHT:** 60 lbs uncreated, or 95 lbs crated

[www.acrosemi.com](http://www.acrosemi.com)



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