

WEST·BOND. INC.



7400D - 7600D SERIES

MANUAL WIRE BONDERS

Continuing a Tradition of Quality

7400D · 7600D Series

7400D - Conventional 45 Degree Wire Feed Wedge Bonder 7600D - Deep Access 90 Degree Wire or Ribbon Feed Wedge Bonder



CONVENTIONAL 45 degree wire feed and unique clamp design of West-Bond's Model 7476D Series wedge-wedge wire bonders provide the precision and control for the smallest, most accurate loop formations. Consistent and repeatable profiles are easily achieved with the patented single lever X-Y-Z micromanipulator and optical Z encoder.

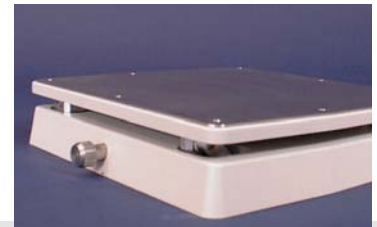
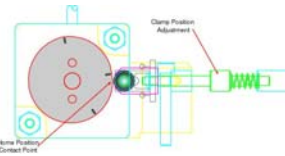
CONVERTIBILITY for a variety of bonding methods is pioneered by West-Bond. A simple exchange of wire clamp assemblies, provided with specified models, allows conventional 45° wire feed, deep access 90° wires or ribbon feed, and single point tab/lead bonding. All programmed bond variables and machine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



PROGRAMMING for three 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), bond tool positioning utility, pneumatic braking of Z and Y axes during bonding, and radiant tool heat. Available with or without adjustable height platform.



STANDARD SPECIFICATIONS

CONTROL LOGIC: Motorola 68000 Microprocessor
MEMORY: Battery back-up RAM
DATA ENTRY: Selector switch
Z TOOL RANGE: 0.5 inch
Z ENCODER RESOLUTION: 0.001 inch
BOND FORCE RANGE: Adjustable, 10 to 150 grams
TRANSDUCER: ½ wave, 63 KHz (nominal)
ULTRASONICS: Built-in, 8 bit, 4 watts (Ultrasonic Positioning Utility)
WIRE RANGE: 0.7 to 2.0 mils, 1x10 mil gold ribbon (7600D)
ESD PROTECTION: Protection against Electrostatic Discharge
DISPLAY: 4 line, 40 character LCD
CONVENTIONAL TOOL LENGTH: 0.750 inch (7400D)

DEEP ACCESS TOOL LENGTH: 0.750 inch (7600D)
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: For 200-240 VAC, an external step-down transformer is required (or request to reset by factory)
DIMENSION: W=22.000" D=19.000" H=12.000"
(exclusive of microscope, or H=18.000" to scope eyepieces)
WEIGHT: 60 lbs uncreated, or 95 lbs crated

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