

WEST·BOND, INC.



C O N V E R T I B L E

353637E SERIES

AUTOMATIC, GANTRY, LARGE AREA WIRE BONDERS

3 MACHINES IN ONE!

1. CONVENTIONAL 45° WIRE FEED
2. DEEP ACCESS 90° WIRE OR RIBBON FEED
3. LARGE AREA BALL BONDER

Continuing a Tradition of Quality

353637E Series

- 3500E** - Conventional 45 Degree Wire Feed
- 3600E** - Deep Access 90 Degree Wire or Ribbon Feed
- 3700E** - Large Area Ball Bonder



UNPARALLELED PERFORMANCE in ultrasonic, thermosonic and thermocompression fine wire, ribbon, and ball bonding. Unique design features qualify the 353637E Series for the most demanding microwave, semiconductor, R.F., and hybrid production where precision and repeatability are critical. With compact dimensions (14" h x 30" w x 28" d), rugged construction, a reputation for dependability and ease of maintenance, the West-Bond 353637E Series is the most versatile automatic wire bonder available today. The mechanism of this series was designed to mount above a customer's work handling system, to be confined entirely above the work plane, and so not to require any base or work platform: Custom mounting brackets can be designed to join to customer's mechanism.

CONVERTIBILITY for a variety of automatic bonding functions is a feature available with West-Bond's 353637E Series. A simple exchange of wire clamp assemblies, provided with this model, allows conventional 45° wire feed, deep access 90° wire or ribbon feed, ball bonding, and single point tab/lead bonding. All programmed bond variables and machine settings are retained in memory and retrieved automatically upon conversion.



PROTECTION AGAINST ELECTROSTATIC DISCHARGE is implemented by finishing exposed tool assemblies and other moving parts by Electro less Nickel plating, which is conductive; and all exposed painted parts with a powder-coated paint that is dissipative.

EASE OF PROGRAMMING through familiar Microsoft Windows software interfaced with the built-in Matrox Pattern Recognition System. Position and elevation coordinates are targeted by visual reference to the high-resolution 15" color flat panel LCD monitor operating with a vertically oriented auto focus camera for target alignment.



STANDARD SPECIFICATIONS

CONTROL LOGIC: Intel Pentium IV CPU
OPERATING SYSTEM: Microsoft Windows® XP Professional
MEMORY: 512 MB RAM
DATA ENTRY: Microsoft mouse or key board
DEVICE STORAGE: 10 GB (or greater) hard disk storage
DEVICE STORAGE BACK-UP: USB drive, Hard disk, and Floppy disk
PATTERN RECOGNITION SYSTEM: Matrox
MONITOR: Flat screen 15 inch high resolution, color
DISPLAY: Auto focus vertical camera and diagonal view camera
TOOL TRAVEL: 9.5 inches (X) by 6.0 inches (Y)
Z ENCODER RESOLUTION: 0.1 mil
Z TOOL RANGE: 0.500 inch
X-Y RESOLUTION: 0.1 mil
MICROSCOPE: Olympus SZ3060E

TRANSDUCER: ½ wave, 63 KHz (nominal) - (110KHz Available)
ESD PROTECTION: Protection against Electrostatic Discharge
ILLUMINATOR: Twin Bulb shadowless
ULTRASONICS: Built-in, 8 bit, 4 watts
ROTATIONAL RESOLUTION: 0.125°
WIRE RANGE: 0.7 mil to 2.0 mils, 1x10 mil gold ribbon (3600E)
TAIL AND PULL STROKES: Programmable
BOND FORCE: Programmable
FORCE RANGE: Programmable, 10 grams to 175 grams
CONVENTIONAL TOOL LENGTH: 0.750 inch
DEEP ACCESS TOOL LENGTH: 0.750 inch
RADIANT TOOL HEAT: Built-in
AUTOMATIC WIRE DESPOOLER: based on K-1100 design
TEMPERATURE CONTROLLER: West-Bond Model K1200D (optional)
DIMENSION: W=34.3" D=27.8" H=51.7"
WEIGHT: 492 lbs (upper) & 215 lbs (lower)

www.westbond.com

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