

WEST·BOND. INC.



C O N V E R T I B L E

353637F SERIES

AUTOMATIC, GANTRY, LARGE AREA WIRE BONDER

3 MACHINES IN ONE!

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

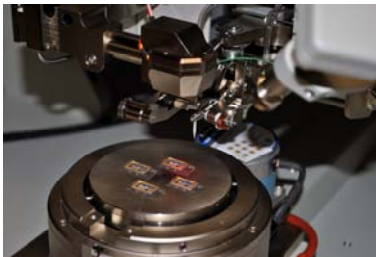
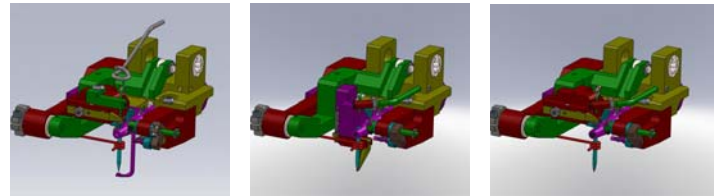
Continuing a Tradition of Quality

Conventional 45 Degree Wire Feed Deep Access 90 Degree Wire or Ribbon Feed Ball – Wedge Bonder



UNPARALLELED PERFORMANCE in ultrasonic, thermo-sonic and thermo-compression fine wire, ribbon, and ball bonding. Unique design features qualify the 353637F Series for the most demanding microwave, semiconductor, R.F., and hybrid production where precision and repeatability are critical. With compact dimensions (52" h x 30" w x 28" d), rugged construction, a reputation for dependability and ease of maintenance, the West-Bond 353637F 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 the West-Bond's 353637F 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-wedge, ball-stud, and single point tab/lead bonding, **all within a single tool head**. 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 and 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 5.375 inches (Y)
 Z ENCODER RESOLUTION: 0.1 mil
 Z TOOL RANGE: 0.563 inch
 X-Y RESOLUTION: 0.1 mil
 MICROSCOPE: Olympus SZ3060E
 TRANSDUCER: ½ wave, 63 KHz (nominal)

ESD PROTECTION: Protection against Electrostatic Discharge
 ILLUMINATOR: Luxuray © LED Illuminator
 ULTRASONICS: Built-in, 8 bit, 5 watts
 ROTATIONAL RESOLUTION: 0.125° (optional w/ -10175.XX)
 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 or longer
 BALL BONDING: 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: 401 lbs (Uncrated) & 655 lbs (crated)