

# WEST·BOND, INC.



**C O N V E R T I B L E**

## **3436F 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. SINGLE POINT TAB/LEAD BONDER

*Continuing a Tradition of Quality*

## 3436F Series

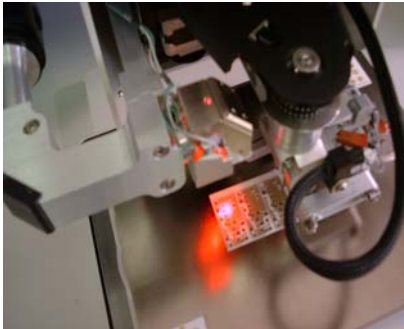
### 3400F - Conventional 45 Degree Wire Feed 3600F - Deep Access 90 Degree Wire or Ribbon Feed



**UNPARALLELED PERFORMANCE** in ultrasonic, thermosonic and thermocompression fine wire and ribbon bonding. Unique design features qualify the 3436F 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 3436F 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.

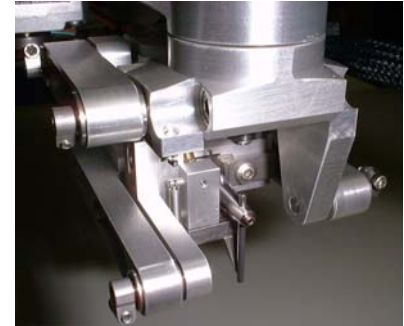
**CONVERTIBILITY** for a variety of automatic bonding functions is a feature available with West-Bond's 3436F Series. A simple exchange of wire clamp assemblies, provided with this model, allows conventional 45° wire feed, deep access 90° wire or ribbon feed, and single point tab/lead bonding. All programmed bond variables and machine settings are retained in memory and retrieved automatically upon conversion.

**THE BOND HEAD** rotates through +/- 180° to align wedge bond targets front to back, with all rotating mechanism moving on the "Z" axis. The transducer and wire clamps are mounted on a four-bar linkage so the tool remains vertical and can be extended down to any position that tunes ultrasonically. Change between angled feed and overhead feed is by the exchange of clamp assemblies and wire drag means.



**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: Programmed focus vertical camera  
TOOL TRAVEL: 8.5 inches (X) by 6.0 inches (Y)  
Z ENCODER RESOLUTION: 0.1 mil  
Z TOOL RANGE: 0.450 inch  
X-Y RESOLUTION: 0.1 mil  
MICROSCOPE: Olympus SZ3060E

TRANSDUCER: ½ wave, 63 KHz (nominal) - (110 KHz Available)  
ESD PROTECTION: Protection against Electrostatic Discharge  
ILLUMINATOR: Luxuray LED  
ULTRASONICS: Built-in, 8 bit, 5 watts  
ROTATIONAL RESOLUTION: 0.125°  
WIRE RANGE: 1.0 mil to 2.0 mils, 1x10 mil gold ribbon (3600F)  
TAIL AND PULL STROKES: Programmable  
BOND FORCE: Programmable  
FORCE RANGE: Programmable, 10 grams to 125 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](http://www.westbond.com)

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