

The machines which require minimal training to operate

## ▶ MANUAL & SEMI-AUTOMATIC WIRE BONDER

Ball , Wedge, Bump & Ribbon bonding

## ▶ VIBRATION FREE FOR HIGH ACCURACY

MADE IN FRANCE



- **The WB200-e series** are designed as a multi-purposes semi automatic wire bond tools for R&D purpose, prototype and small series production.
- **Full Manual mode** ; control of all bond head Z and table X/Y movements,
- **Full Semi-Automatic** ; adjusted search heights and fully automates loop formations.
- **Add the optional vertical Camera/Monitor Kit and your system upgrades to Full Auto-Bond mode.**
- **AUTO-BOND mode** allows you to align and click for 1<sup>st</sup> and 2<sup>nd</sup> bond; the Auto-Bond then starts and completes your wire automatically.
- **WB200-e Auto-Bond** makes fine pitch **EASY**.
- **Brand new operators will be making fine pitch wires in minutes !**
- **Powerful Video Microscope** including Focus and Zoom capability, compatible with small bond patterns, and multi-Bond heights application.
- **Easy bonding** into Package Walls or limited Access. WB200-e provides also a **full manual Z control** for prototyping ...

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## SYSTEM

- Table Top machine
- Bond Arm Length: 165mm (6.7")  
Full throat: 200 mm
- Deep-Access bond Head
- Motorized Z Bond Head  
True vertical motion  
Z travel = 40mm,  
Z resolution 0,23µm
- Motorized X & Y : 100x100mm,  
X&Y resolution 0,23µm
- Mouse Motion Drive, pull-drag  
Joystick for x&y cruise
- Ultrasonic power: 0-5 Watt  
Transducer : WBT140 : 62kHz, 185mm long  
other Frequency by request
- Motorized up-down Clamp
- Automatic motorized wire Spool: 2"
- Electronic Flame-off  
Missing Ball detection
- Touch screen interface : 7"  
Storage: Unlimited programs  
Programs saveable in PC format
- Temperature Controller integrated

## 3 BONDING MODES

- Semi-Auto with Microscope (STD)
- Full Manual Z, with Microscope (STD)
- Auto-Bond Cycle with Vertical Camera & Multi-Height Focus



- 1 Video Microscope
- 2 Work holder
- 3 Target view
- 4 Zoomed PIP
- 5 X & Y Cruise

## PARAMETERS

- Bond Force I and II programmable: 10-150 cN
- Time I and II programmable: 0-2000 ms
- Power I and II programmable
- Loop: Reverse+Height+Length  
Multi-shape Loop programmable per wire
- Bond: Search Height programmable  
Automatic Bond Height detection
- Tail length programmable
- Wire termination: Table Tear
- Wedge Deep Access 90° wire feeding
- Wire capability:  
Gold wire: 17-50µm  
Aluminium wire: 17-50µm  
Ribbon wire: 40-250µm width (12-25µm Thick)
- Heater Stage HP60-250°C  
T° accuracy +/- 1%,  
Adjustable Height +/- 10mm  
Packages Thickness up to 110mm

Options : Pick & Place, Capability Flip.

## VIDEO MODE

### Video Microscope-Auto-Bond

- Camera Ultra HD 5Mpx,
- Field of View, FOV, Compatible for very Fine Pitch, Precision, 2,7mm,
- Powerful digital zoom & fine focusing capability,
- Digital crosshair, square or circular box,
- For very deep Access,
- Vertical vision to precisely center the bonding pads
- Vertical video Microscope; No parallax,
- Light: Led illumination,

### Option Side Camera

Very useful to check the wire during Bond and Loop, Side camera Picture is always at 'focus' distance.



sharpness and precision

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## VARIOUS

### Automatic Wire Despooler

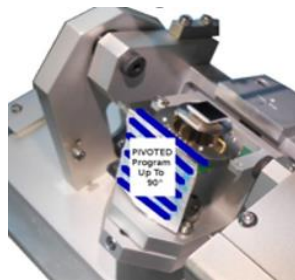
Extra spare to be used as storage and wire identifier purposes



HP-100



HP60



### Heated Workholder

HP-60 Heated Workholder 60mm diameter  
HP-100 Heated Workholder 100 x 100 mm  
HP-150 Heated Workholder 150 x 100 mm  
HP-200 Heated Workholder 200 x 150 mm  
TH-TC Tool Heater with Thermocouple

90° Pivoting work-holder 0 °up to 90° Tilt

### Tool Set

Torque key for ultrasonic set screw  
Allen key for transducer screws  
Pair of tweezers  
Hook  
Tool Gauge



### Technical Specifications

Ultrasonic system PLL, 62khz  
Power: 0-5 watt  
Bond Time: 0-5000 msec  
Force: 15-150 cNm  
Bonding tool: 1,58mm (1/16") diameter

Electrical Requirements 100 / 240V , 50-60Hz  
Current max. 5A  
Dimensions 640x710x550mm (23"x21"x19")  
Weight 60 kg