

# Die Bonder PP5

## Pick & Place Die Bonder

**Model** :PP5 with table on the top  
**Accuracy** :Up to 5  $\mu\text{m}$   
:Up to 1  $\mu\text{m}$  (option flip)  
**Die size:** :Minimum 200\*200  $\mu\text{m}$   
:Maximum 50\*50  $\mu\text{m}$   
**Substrat handled** :Up to 150x500 mm  
:Parts held by vacuum or clamp  
:Substrat, Package...

**Motorized Tables** :X 240 mm  
Y: 90 mm  
Manual theta.  
Speed by joystick.  
Table resolution 1  $\mu\text{m}$

**Alignment** :Manual with color CCD  
Digital Target generator  
Optical Zoom X12  
Direct placement  
2 references points for auto-centering placement  
Indexed Pick and Placement mode

**Parameters** :On LCD screen  
**Bond force:** Programmable 10g up to 3 000 g  
**Bond Time:** Programmable 0 up to 999 s  
**Scrub:** X Y and number  
**Vacuum** Selectable on or off during bond  
**Temperature:** 3, Programmable 0° up to 400° (option eutectic)

**Work height adjustable**

**Soft touch down speed**

**Automatic pick up with pick up force <10 gr.**

**Automatic place with controled force.**

**Throughput Pick and place:** Operator dependent up 600p/h

**Vision** :Colour CCD camera  
Vertical viewing

**Field of View** . 2 mm to 20 mm

**Optical Zoom X12** (option flip field of view is fixed –1 mm or other..)

**Display** :TFT monitor

**Light** :LED light

**Tool** :all tool with diameter 3.17 mm and length 25 mm, special on request.

### Options

-UV curing (see photo)

-Eutectic, Digital control of ramp-up and down



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- Heated work holder with gas control
- Hot gas
- Glue Dispenser or stamping
- Customer work holder
- Binocular for inspection
- Flip
- Ultrasonic Flip (with US digital system)
- PC controller interface for automated cycles
- Frame



PP5 flip on frame

## Facilities

|                 |                           |
|-----------------|---------------------------|
| Power           | 110/230 vac,<br>< 500watt |
| Vacuum          | 70%                       |
| Forming gaz     | N2                        |
| Air             | 70 psi,                   |
| Size, footprint |                           |
| w*d*h:          | 680x640x700mm             |
| Weight          | 130 lbs                   |

## Option eutectic with standart work holder (see photo)

- Soldering under controlled atmosphere
- Work holder round, size= 50 mm
- Coplanarity and theta adjustement
- Temperature programmable 0° up to 400°
- Heating max +8° C/s
- Cooling
- 3 temperatures ( Iddle, Eutectic ,Release)programmable while cycling
  - Place preform with temperature (Iddle Temperature)
  - Place component when temperature eutectic chuck OK (Eutectic Temp)
  - Tool go back up when temperature release OK (Release temperature)
- Height adjustable around 10 mm.