

# TODDCO TG-500 Hotbar Bonder

## ▶ TG-500 HOTBAR BONDER



## ▶ AVAILABLE OPTIONS

- Single or Dual Cameras
- Pneumatic Y-Axis Slide
- Rotary Table
- Motorized X-Y Table
- X-Y-Theta TAB Positioner
- Motorized Interposer Feeder
- Custom Tooling

## Benchtop Bonder Boasts Compact Footprint with Full Size Features

When space is limited but expectations aren't, the TODDCO TG-500 Bonder is the right choice. The TG-500 is a benchtop unit that has many of the features usually found only on larger, more expensive systems.

TODDCO bonders use a closed-loop pulsed heat control system with durable G3 ceramic hotbars, providing the fastest thermal cycling rates in the industry. An industrial panel PC with integrated 12" touch screen and a servo-driven bond head, able to achieve high precision force control in both high and low force modes, are standard on all models. Parameters are easily monitored and compared to the target profile using a real time graphical display.

The TG-500 can be equipped with a pneumatic slide for use with a look-down optics system, or a two position pneumatic rotary table to decrease production cycle times. TODDCO has full design and machine shop capabilities to produce custom tooling for any application. No matter what the application, in a high mix laboratory setting or a fast paced production environment, TODDCO can help bring your vision to life

Use the intuitive HMI for quick bond profile development. A graphical bond profile screen guides development of critical process parameters. The data logging feature saves actual performance versus bond profile for selected bonds. Auxiliary thermocouple inputs can be displayed for thermal analysis. Saved bond profiles are easily recalled for quick changes in high mix production. Motion Control X-Y positions are incorporated into process files for a complete, repeatable production process.

## ▶ BENEFITS

- For small LCD/PDP Panels
- Fine Pitch Alignment & Bonding in One System
- Precision Co-planarity & Temperature Control
- Works for Most TAB Sizes & Shapes
- For High-mix Production and Rework Processes

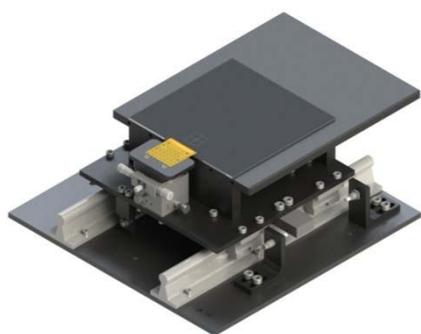
## ▶ FEATURES

- Ceramic Hot Bars
- Closed Loop Temperature Control
- Precision Motorized Servo-Actuator
- Real Time Graphical Display
- Easy, Intuitive Process Development
- Advanced Process and Quality Controls

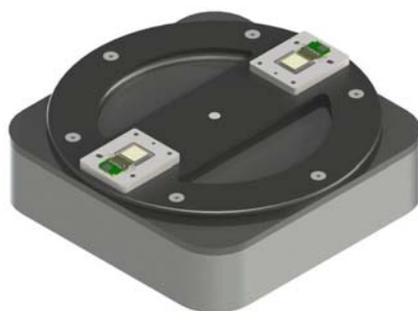
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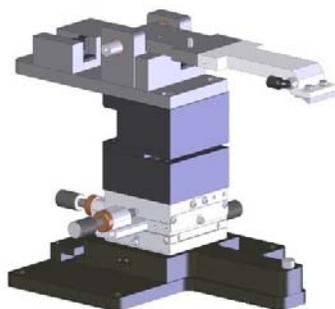
**Dual Look-Down Cameras**



**Pneumatic Y-Axis Slide**



**2 Position Rotary Table**



**Manual XYZ-Theta Positioner**

## Optics Modules

### Single Look Down Camera

Camera Type	Digital
Smallest Pitch Size	25 microns
X Axis Adjustment	150mm Travel
Lighting Options	Off Axis LED Array
Positioning Options	Manual Or Motorized with programmable positioning

### Dual Look Down Cameras

Camera Type	Digital
Smallest Pitch Size	25 microns
Dual Camera Pitch	9-100mm
Lighting Options	Off Axis LED Array, Coaxial, Programmable Intensity
Positioning Options	MANual

## Base Plate Options

### Motorized X-Y Table

X-Travel	600mm
Y-Travel	400mm

### Pneumatic Y-Axis slide

Y-Travel	200mm
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### Rotary Table

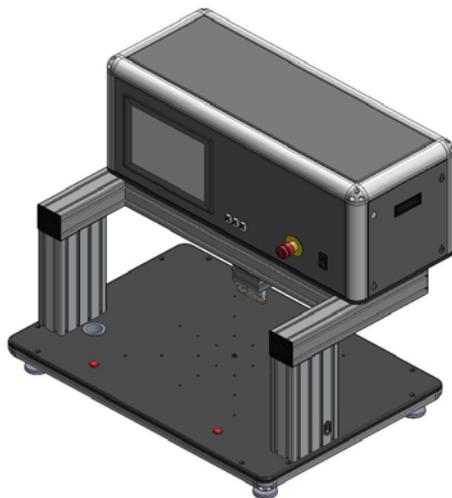
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## TAB Positioner Modules

### Manual XYZ-Theta Positioner

Adjustment	Micrometer Screw
Part Holding	Vacuum

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## Specifications

### Size and Weight

Base Frame	914mm (36")W x 686mm(27")D x 838mm (33")H
Weight	80kg (175lb)

### Facility Requirements

Power	110/220VAC 50/60Hz
Air	90-120psi (0.6-0.8MPa) Clean, Dry Air

### Bond Actuator

Drive	Motorized Servo
Operation	Low Force, High Force, and Precision Control Modes
Bond Force	5-650N
Z-Travel	100mm
Leveling Adjustment	U- V- Micro Pitch Adjustment Screws

### Hotbar

Operation	Pulsed Heat, Closed Loop Control
Material	G3 Ceramic
Temperature Feedback	Embedded Thermocouple
Ramp Rate	Up to 150°C/s
Temperature Range	Up to 450°C
Size	1.5mm - 5mm Wide, Up to 100mm Long