



Model 4523

W e d g e B o n d e r

The Model 4523 Wedge Bonder, designed for Aluminum wire, Gold wire and Ribbon.

It is versatile enough to bond simple discrete devices up to complex hybrid, microwave and deep cavity devices.

The 4523 offers control of individual bond parameters, loop height and force, along with the capability of using a wide range of wire dia.

The new bonding head with the deep access option and tail adjust system, makes it ideal for deep cavity microwave applications where tight control over the tail length is required.

Here's Why

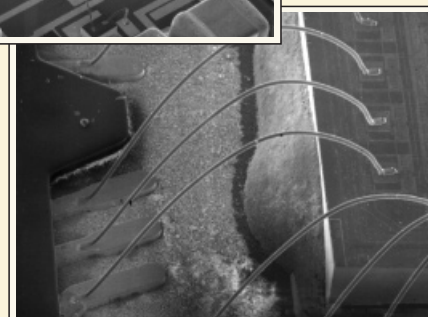
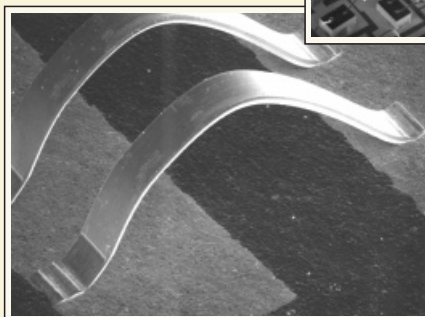
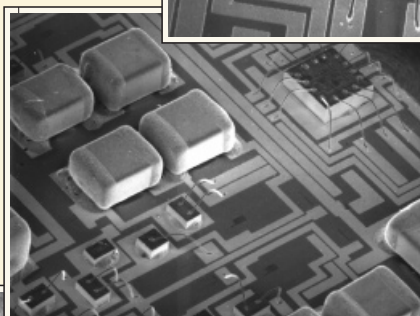
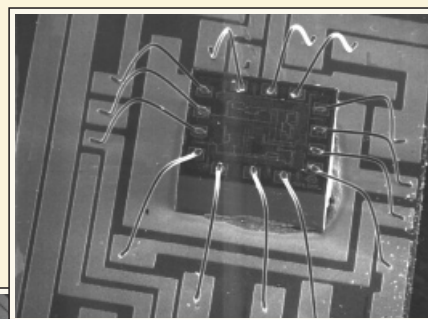
- One bonding head for deep access & standard bonding
- Consistent tail length with real-time fine adjust
- Large bonding area
- Easy operation (semi-auto, manual)

Hybrid/MCM

Chip On Board

Microwave

Discrete devices



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Model 4523

Wedge Bonder

Technical specifications

Wire

Diameter range
Gold 12.7 to 76 μ m (0.5 to 3 mil)
Aluminum 20 to 76 μ m (0.8 to 3 mil)
Gold ribbon option up to 25 x 250 μ m (1 x 10 mil)
Spool 12.7mm (0.5 inch) option 50.8 mm (2 inch)

Machine Specifications

Bonding area 134 x 134 mm
(5.3 x 5.3 inch)
Throat depth 143 mm (5.6 inch)
Gross table motion 140 mm (5.5 inch)
Fine table motion 14 mm (0.55 inch)
Mouse ratio 6:1
"Z" motion system DC servo/
LVDT control
"Z" travel:
Low reset 6.6 mm (260 mil)
High reset 12.7 mm (500 mil)

Ultrasonic sys. .. high Q 60 kHz transducer
.. PLL ultrasonic generator

Low ultrasonic power 1.3 W
High ultrasonic power 2.5 W
Bond time 10-100 mSec/10-1000 mSec
Bond force force coil 10-160 gr.
Wire termination clamp tear
Wire feed angle 30/45 option 90 °
Modes of operation Semi-Auto,
Manual "Z", Stitch
Temperature controller .. up to 250 $\pm$ 0.5°C

Options

- Microscopes and eyepieces
- Fiber optic illumination and spotlight
- 90° wire feed angle kit for deep access
- Manual adjustable height, heated workholders
- Spot light target
- Motorized index workholders
- 3rd channel kit
- Mini-heater kit
- Height adjustable rotary table

Electrical Requirements

100-120/220-240V $\pm$ 10% 50/60 Hz 250VA max.

Physical Dimensions

680 mm (27") W x 700 mm (27.5") D x 530 mm (21") H

Weight (basic machine)

Shipping 55 kg (122 lb)
Net 31 kg (69 lb)

Industry Standards

Complies with UL and CE standards

Other specifications required by customer are possible.
Specifications are subject to change without prior notice.

A focus on customer support

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