4523 Benefits
- 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 and Discrete devices

4523 Wedge Bonder
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 clia.

Technical Specifications
Wire
Diameter range
- Gold
  12.7 to 76 μm
  (0.5 to 3 mil)
- Aluminum
  20 to 76 μm
  (0.8 to 3 mil)
- Gold ribbon
  optional up to
  25 x 75 μm
  (1 x 10 mil)
- Spool diameter
  12.7 mm (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 servolvDT control
- "Z" travel: Low reset
  6.6 mm (260 mil)
- "Z" travel: High reset
  12.7 mm (500 mil)
- Ultrasonic system
  High Q 60 kHz transducer
  PLL ultrasonic generator
- Low ultrasonic power
  1.3 W
- High ultrasonic power
  2.5 W
- Bond time
  10-100 μSec/10-1000 μSec
- 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° ± 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
- Positioning control kit (left hand chessman)
- ESD protection kit

Electrical Requirements
100-120/220-240 V + 10% 50/60 Hz 250 VA max.

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

Weight (basic machine)
Shipping 55kg (122 lb.)
Net 31 kg (68 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
K&S equipment is backed by a worldwide Customer Support organization whose responsibility to customers continues after delivery and installation.

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