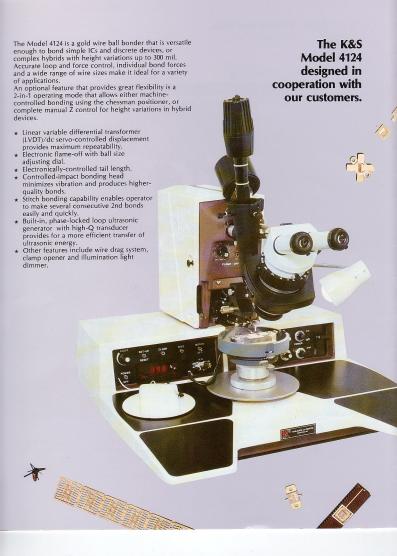


Model 4124 Universal Ball Bonder

- * optional chessman/manual dual operating modes
- * front panel electronic setting of parameters
- individual parameters for 1st and 2nd bond
 constant tail system, electronically controlled
- constant tail system, electronically controlled
 built-in phase-locked-loop U/S generator with
 - high-Q transducer
- * dc servo / LVDT-controlled bonding head
- ★ E.F.O. unit for ball formation
- * optional spotlight targeting





Dual operation mode allows either chessman or manual Z control (optional) for precise bond placement and more flexibility in multiplebonding-height devices.

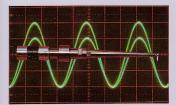
High-quality, consistent results regardless of wire diameter, package design or device complexity - by complete electromechanical and electronic control of all bonding parameters.



Individual dial settings: bonding time, bonding power, bonding force, search height, loop height - for the 1st and for the 2nd bond in separate.



Electronic flame-off system offers handy adjustment of ball size and clean harmless ball formation, covering the entire wire size range.



Built-in ultrasonic generator with phase-lockedloop and high-Q transducer for close frequency tracking and optimum bonding efficiency.



Quick changeover from one type of device to another - with just one tool...

Model 4124 Specifications

Wire diameter range0.7 to 3.0 mil (18-76 microns) spoolTC-3, 2" (50.8 mm) dia. single flange

Performance specifications

cycle time900 ms (includes 100 ms bond time) ultrasonic power (max)

Machine specifications

search/loop range0.02" (0.51 mm) under reset to 0.02" (0.51 mm) above lowest

overtravel

table motion

chessman ratio6:1 tail lengthconstant

Optics

opticsB&L or Wild stereo zoom microscope, top mounted Options

spotlight targeting adjustable height, heated workholders motorized workholders manual Z system heated capillary kit

Flectrical requirements

100/120/220/240 V±10%, 50/60 Hz, 70 VA max.

Physical dimensions

26" (660 mm) H X 23.5" (597 mm) W X 26" (660 mm) D

Weight (without accessories)

Specifications subject to change without notice

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MANUFACTURING

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Other specifications required by customer are possible. All specifications subject to change without notice. 4124 Universal Ball Bonder B993