

ULTRALUX[™] Automatic Wire Bonder

ULTRALUX™ is the latest generation ball bonder utilizing the latest technologies and materials that will save LED manufacturers up to 10% capital cost.



* Microscope Assembly is an optional configuration

Higher UPH

- Advanced Close-Loop Servo with Lower Mass Higher Stiffness XYZ enhanced design
- Robust compact Optics design with Smaller Crosshair Offset maximizes Look Ahead PRS Alignment Scheme

Higher Net Productivity with Highest Yield

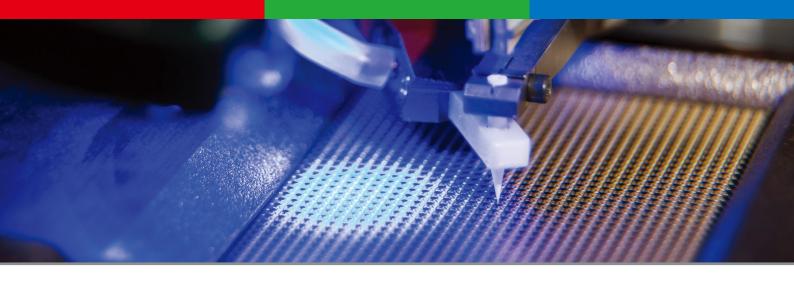
- · Enhanced Automatic Error recovery to SHTL, NSOP and **NSOL**
- Superior Looping Control and Shape for high-reliability

Fastest Qualification Time

· Quick LED Suite processes with Quick Bond, Quick Stitch and Quick Loop deliver the optimized process ensuring quickest time to market









Automatic Wire Bonder

WIRE BONDING CAPABILITY

Bonding Area

X Axis: 56 mm Y Axis: 80 mm

Total Bond Placement Accuracy

3.0 µm @ 3 sigma

Speed

25 wires per second (2 mm wire length)

Pattern Recognition/Optics/Vision

Progressive Scan Vision Engine CCD Video Camera 3.5x Magnification Optics

LOOPING CAPABILITY (with 25.4 µm wire diameter)

Maximum Wire Length

5 mm

Minimum Loop Height

65 μm Quick Loop-LED supports for flexible loop shapes

for improved reliability

Wire Sway

Wire length < 2.54 mm: 25 µm @ 3 sigma

Wire length > 2.54 mm: ± 1 % wire length @ 3 sigma

CONVERSION TIMES

Same Leadframe Type: < 5 min

(Heat block insert & clamp changes, program load from disk)

Different Leadframe Type: < 20 min

(Leadframe width & length changes, magazine size change, heat block insert & clamp change, program load from disk)

MATERIAL HANDLING CAPABILITY

Package/Leadframe Dimensions

 Length:
 100 to 300 mm

 Width:
 35 to 90 mm

 Thickness:
 0.10 to 0.9 mm

 Die Pad Downset:
 Up to 2.3 mm

Magazine Dmensions

 Width:
 35 to 98 mm

 Length:
 127 to 310 mm

 Height:
 54 to 194 mm

 Slot Pitch:
 2.5 to 25 mm

 Max. Weight:
 4.0 kg

KNET PLUS ASSEMBLY EQUIPMENT NETWORK

KNet *PLUS* improves efficiency and productivity, by monitoring equipment status in real-time. It collects data and controls process programs locally or from anywhere on a customer's network. Contact your K&S Sales Representative to learn more.

MAN-MACHINE INTERFACE

Monitor

19" color LCD display

Durable Control Panel

Function keys and dedicated buttons, and user-friendly mouse

Industry-Recognized User Interface

Simple pull-down menus. Color-overlays of wire groups for easy programming and teach

FACILITY REQUIREMENTS

Minimum Air Pressure

3.52 kg/sq cm (50 psi)

Nominal Air Consumption (flow rate)

150 liters/min @ 4.6 kg/sq cm (6.5 CFM @ 65 psi)

Input Voltage

Standard

200 - 240 VAC; -15 % to + 10% Single Phase 50/60 Hz (± 3 Hz)

Optional

100 - 115 VAC; -15 % to + 10% Single Phase 50/60 Hz (± 3 Hz)

Power Consumption

1.3 KVA (nominal), 2.0 KVA (max.)

Footprint

Base machine with MHS

889 mm wide x 990 mm deep (35" x 39")

Weight (estimated)

Machine 556 kg (1226 lbs)
Machine & Crate 670 kg (1477 lbs)







