

BA388V2/V4 SMT Pick & Place Machine



FEATURES

- Using welded steel frame and also heavy duty high precision Linear Ball Rail system to provide strong, rigid and long life time mechanism.
- Enormous 1200 mm x 408 mm Placement Area
- Suitable for 256 intelligent Auto Tape Feeder
- High Accuracy and high Flexibility for 01005, 0201, 0402, 0603, LED, SOIC, PLCC, BGA, μ BGA, CSP, QFP, up to fine-pitch 0.3mm
- Dual conveyor in action will shorten the machine idle time in PCB board loading / unloading. The overall placement speed will hence be increased effectively.
- TEFLON made LED nozzle together with the positive air outputting pressure, is specialized design for LED application. The innovative design of Nozzle ensures the effective landing of sticky LED components.
- Intelligent software allows the easy set up for the complex and repeatable LED programming.

SUMMARY

Suitable for 256 intelligent Auto Tape Feeder

Max. PCB-size: 1200mm x 408mm

High Accuracy and high Flexibility for

- ◆ 0201 (0.6mmX0.3mm)
- ◆ SOIC, PLCC
- ◆ BGA, μ BGA,CSP
- ◆ QFP, up to fine-pitch 0.3mm

COGNEX® Alignment System "Vision on the Fly"

Bottom Vision Alignment System for fine pitch QFP & BGA

Smart Feeder System provides Automatic feeder position checking, Automatic component counting, Production data Traceability

Suitable for 1.2m long LED board

Dual conveyor system (option)

Dispenser system (option)

Universal CAD Conversion

Windows XP Software

SPECIFICATION

Number of Heads (Vision on the Fly) :	2	4	
Placement rate :	6400	10.000	CPH (under the optimum condition)
	5500	8.000	CPH (IPC9850 Chip 1608)
Feeder capacity (8 mm) without conveyor :	up to 256 Tape Feeders		

Feeder capacity (8 mm) with conveyor :	up to 192 Tape Feeders
IC Tray capacity :	up to 6 Waffle Trays
	Handled by head camera :
	- Smallest: 0.6 x 0.3 mm - Largest: 16 x 14 mm
	Handled by fixed Bottom Vision Camera :
	- Smallest: 0.4 x 0.2 mm (option) - Largest: 150 x 100 mm (option)
Component Size :	X / Y axis 0.005 mm Servo Motor
	Z axis 0.02 mm Servo Motor
Resolution :	0 to 360° (0.045°/step) Servo Motor
Rotation :	+/- 0.03 mm
Placement Accuracy :	+/- 0.01 mm
X-Y Repeatability :	Max. 1100 x 408mm without conveyor
Placement area :	Max. 1200 x 408mm with conveyor
Programming :	Vision teach-in, Direct input, CAD Access (Option)
Component Sense :	Vision detection
Main Control :	Industrial PC
Machine Size: (L x W x H) :	1780 x 1370 x 1395 mm
Weight :	1200 kg
Power :	230 V / AC, 2800 W
Pressure :	75 psi (5.5 bar)

* We reserve the right to make changes without notice.

DETAILS



Strong and rigid mechanical design BA388 using welded steel frame and also heavy duty high precision Linear Ball Rail system to provide strong, rigid and long



life time mechanism.

Enormous Placement Area Huge Placement area



increases upto 1200mm x 408mm.

Suitable for 256 intelligent Auto Tape Feeder 48-Port Smart Feeder Bases can be mounted on both the front and rear of the BA388 and 32-Port Smart Feeder Bases can be mounted on the left and right sides of the



machine for a maximum capacity of 256 feeders.

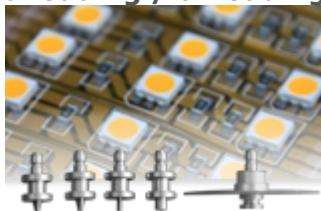
COGNEX® Alignment System "Vision on the Fly" The BA388 features COGNEX® vision processing and head-mounted for non-contact "Vision on the Fly" alignment. The machine BA388 assures high-

precision placement of the full range of SMDs, from the smallest 0201 devices through CSPs, μ BGAs, flip-chips, ultra-finepitch QFPs (0.3mm fine pitch), even odd-form components.

1.2m PCB handling



Dual-conveyor system available as optionDual conveyor in action will shorten the machine idle time in PCB board loading / unloading. The overall placement



speed will hence be increased effectively.

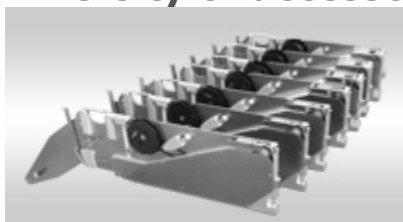
TEFLON LED NozzleTEFLON made LED nozzle in Autotronik BA388 machine, together with the positive air outputting pressure, is specialized design for LED application. The innovative design of Nozzle ensures



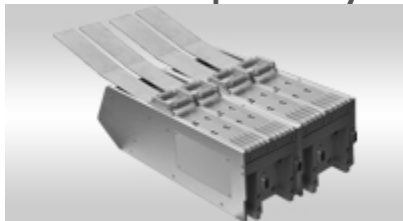
the effective landing of sticky LED components.

Powerful Windows®-Based Control SoftwareIntelligent software allows the easy set up for the complex and repeatable LED programming.

Diversity of accessories



Auto Tape Feeder (KFTA)The innovative design of KFTA feeder bases and mounting hardware allows almost limitless flexibility in feeder combinations and arrangement schemes, as almost every feeder can be ordered, loaded, programmed and mounted independently. KFTAs are available from 8 mm up to 72 mm tape width.



Universal IC Tube FeederKFTB universal tube feeder are using vibration driven technique. It is able to handle IC-Sticks with max.50 mm width.

* KFTB-2V



* KFTB-4V

Single or Dual-conveyor system available as optionConveyor in action will shorten the machine idle time in PCB board loading /

unloading. The overall placement speed will hence be increased effectively.



Dispenser system available as option Optional stand alone dispenser head for adhesive & solder paste dispensing. Perfect for quick, small volume



production without making stencil. IC Tray Holder The TS-1 provides adjustability for wide variety of smaller matrix tray and waffle pack combinations



and can easily be modified for custom tray configurations.

Universal CAD Conversion Beside the direct input of data by teach-in camera, an optional CAD conversion program for directly transfer of CAD generated pick and place data is



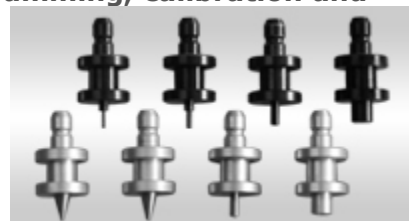
available.

Vision Inspection With the built-in software, the camera can automatically move and display the image in the computer screen, user can manually check the printing accuracy of solder paste, quality of the soldering, accuracy of component



placement, etc.

Remote Service Kit Optional Remote Service Kit allows a remote access to machine by Internet, so that programming, calibration and



service can be done by our worldwide remote service center.

TEFLON LED Nozzle TEFLON made LED nozzle in Autotronic BA388 machine, together with the positive air outputting pressure, is specialized design for LED application. The innovative design of Nozzle ensures the effective landing of sticky LED components.