Large 650 mm x 350 mm placement area
Suitable for 160 intelligent Auto Tape Feeder
High Accuracy and high Flexibility for 01005, 0201, 0402, 0603, SOIC, PLCC, BGA, µBGA, CSP, QFP, up to fine-pitch 0.3mm
Smart Feeder System provides Automatic feeder position checking, Automatic component counting, Production data Traceability
Perfect for small & medium volume production
COGNEX® Alignment System “Vision on the Fly”
Bottom Vision Alignment System for fine pitch QFP & BGA
Built in Camera System with Auto Smart Fiducial Mark Learning
Dispenser system
Vision Inspection before and after production
Windows XP Software
Universal CAD Conversion
Placement rate: 6,400 cph
Tray Handler access up to 10 Waffle Trays

SUMMARY

- AUTOTRONIK BA392 features high-precision, direct-drive ball screw and linear encoder technology in the X and Y axes, contributing to its 30 µm, 3 Sigma placement accuracy. With high-power AC servo motors allowing placement rates approaching 6400 cph.

- With feeder bases on all four sides, BA392 has maximum 8mm smart type feeder capacity of 160, and 650 mm x 350 mm of payload area can be shared by PCBs and waffle trays. Placement area increases to 660 mm x 330 mm with feeder bases mounted on only the front and rear of the system and an in-line conveyor installed. BA392 with stand-alone or In/Out conveyor configurations is suitable for any In-Line or "Work Cell" manufacturing environment.

- The head-mounted, upward-aimed cameras with Cognex® vision processing and programmable illumination of BA392 allow easy set-up for a wide range of SMDs, including odd form components and BGAs. Base mounted cameras with a wider optical range and diagonal split-vision image processing can even be used for alignment of large components up to 150 mm x 100 mm.
DETAILS

Strong and rigid mechanical design
BA392 using welded steel frame and also heavy duty high precision Linear Ball Rail system to provide strong, rigid and long life time mechanism.

High-Precision, Direct-Drive, BallscREW and Linear Encoder Technology
BA392 base system features high-precision, direct-drive ballscrew and linear encoder technology in the X and Y axes, contributing to its 30 µm, 3 Sigma placement accuracy.

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

Cut Strip Tape Holders
Cut Strip Tape Holders is a handy accessory for presenting components that are supplied in short lengths of tape due to their low quantity of usage. It can also prevent the waste of components in sections of tape that are too short to be loaded into tape feeders.

Bulk Pack Component Tray
Designed for bulk pack component, Bulk Pack Component Tray (TSD18) can handle any bulk pack component under the semi-auto production mode. A single tray contains 18 individual slots for maximum 18 types of components.

IC Tray Holder
The standard TS-1 Tray Holder occupies approximately 330mm X 140mm of work area and is designed to hold a standard 316mm X 136mm JEDEC Matrix Tray. 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.

Tray Handler System
Optional IC tray handler system can access up to 10 sets of waffle Trays automatically.

Dispenser System
Optional stand alone dispenser head for adhesive & solder paste dispensing. Perfect for quick, small volume production without making stencil.

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.

Universal CAD Conversion
Besides 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.

SPECIFICATION

Number of Heads (Vision on the Fly):
BA392V1: 1, BA392V2: 2

Placement rate:
BA392V1: 4500 CPH (under the optimum condition)
BA392V2: 6400 CPH (under the optimum condition)

Feeder capacity (8 mm)
without conveyor: up to 160 Tape Feeders
with conveyor: up to 16 Tape Feeders

IC Tray capacity:
up to 4 Waffle Trays
up to 10 Waffle Trays with TH-10 Tray (option)

Component Size (mm)
- Smallest: 0.6 x 0.3 mm
- Largest: 16 x 14 mm

Resolution:
X / Y axis 0.005 mm Servo Motor
Z axis 0.02 mm Servo Motor

Rotation:
0 to 360° (0.045°/step) Servo Motor

Placement Accuracy: +/- 0.03 mm

Placement area without conveyer:
Max. 650 x 350 mm without Waffle Trays
Max. 650 x 330 mm with 1 Waffle Tray
Max. 455 x 330 mm with 2 Waffle Trays
Max. 275 x 320 mm with 3 Waffle Trays

Placement area with conveyer:
Max. 650 x 330 mm without Waffle Trays
Max. 650 x 295 mm with 1 Waffle Tray
Max. 650 x 175 mm with 2 Waffle Trays
Max. 650 x 145 mm with 3 Waffle Trays

Programming:
- Direct input
- Vision teach-in
- CAD Access (Option)

Component Sense: Vision detection

Main Control: Industrial PC

Machine Size
Main body: 1080 x 1050 x 1350 mm (L x W x H)
Weight: 550 kg
Power supply: 240 V
Power: BA392V1: 1810 W, BA392V2: 2380 W
Pressure: 75 psi (5.5 bar)

We reserve the right to make changes without notice.