The SMT Pick & Place machine BA392-LED is specially designed for LED board application in medium production batch sizes. Various options are provided for different applications.

Innovative two-stage conveyor design that handles 600mm board length in each stage, hence supports long PCB of 1.2m total length in automatic production.

Additionally, the BA392-LED features COGNEX® vision processing and head-mounted for non-contact “Vision-On-The-Fly” alignment.
**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.

**COGNEX® Alignment System “Vision on the Fly”**
The BA392 features COGNEX® vision processing and head-mounted for non-contact “Vision on the Fly” alignment. The machine BA392 assures high-precision placement of the full range of SMDs, from the smallest 0201 devices through CSPs, µBGAs, flip-chips, ultra-fine-pitch QFPs (0.3mm fine pitch), even odd-form components.

**TEFLON LED Nozzle**
TEFLON made LED nozzle in Autotronik BA392 machine, together with the positive air ejecting pressure, is specialized design for LED application. The innovative design of Nozzle ensures the effective landing of sticky components.

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

**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.

**SPECIFICATION**

- **Number of Heads (Vision on the Fly):** 2
- **Placement rate:**
  - 6400 CPH (under the optimum condition)
  - 5500 CPH (IPC/850 Chip 1608)
- **Feeder capacity (8 mm)**
  - with conveyor: up to 96 Tape Feeders
  - up to 10 Waffle Trays with TH-10 Tray (option)
- **Component Size (mm)**
  - Handled by head camera:
    - Smallest: 0.6 x 0.3 mm
    - Largest: 16 x 14 mm
  - Handled by bottom Vision Camera:
    - Smallest: 0.4 x 0.2 mm (option)
    - Largest: 150 x 100 mm (option)
- **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
  - X-Y Repeatability: +/- 0.01 mm
- **Placement area with conveyor:**
  - Max. 650 x 315 mm without Waffle Trays
  - Max. 650 x 300 mm with 1 Waffle Tray
  - Max. 650 x 160 mm with 2 Waffle Trays
- **Programming:**
  - Direct input
  - Vision teach-in
  - CAD Access (Option)
- **Component Sense:** Vision detection
- **Main Control:** Industrial PC
- **Machine Size:**
  - Main body: 1150 x 1150 x 1350 mm (L x W x H)
  - With conveyor: 1150 x 1970 x 1350 mm (L x W x H)
- **Weight:** 550 kg
- **Power:** 230 V / AC, 2100W
- **Pressure:** 75 psi (5.5 bar)

We reserve the right to make changes without notice.