

Up to speed and flexibility from A to Z with the new DIMA Atoz

Responding to the request for a fully automated pick & place machine for the starting OEM manufacturer and OEM- & CM- multinationals producing prototypes, DIMA SMT Systems has developed the new Atoz. This unique, highly flexible and compact modular pick & place machine provides in the need for a machine that produces small to medium batches & prototypes for the SMT industry. Being exceptionally fast, built for growth and being prepared for several options, makes the Atoz stand out in its class.

Key Features

- Suitable for small to medium batches and prototypes
- Output 4.500 cph (tact time) / 3.200 IPC 9850
- Up to 120 positions for 8 and 12 mm feeders, both using one slot
- SQL-database environment
- Modular built for growth
- Vision-on-the-fly
- Optional tray sequencer for 6 Jedec trays
- Adapter for Hover-Davis®/Siemens® feeders
- Capable of placing conventional LED's



Photo
Tape and stick Feeders

Real Intelligent Feeders

DIMA is now offering her fourth generation tape feeders. The feeders contain a fully programmable micro processor offering a high level of management information, component counting, part number information, component name, component value, pitch requirements, operator warning for component depletion. Unlike other systems this information is stored within the feeder so that the machine database is not required to determine what product is in the feeder. The DIMA feeders are equipped with the unique quick loading mechanism allowing you to change tapes within 40 seconds. For small strips of SMD tape DIMA offers a tape strip feeder that can be adjusted to any width of tape. DIMA also offers a broad selection of feeders for stick and tray components.

Quick Feeder Change

All feeders easily accessed, reducing feeder change-over-time. Feeders can be prepared prior to loading and exchanged on-the-fly. Empty feeder pre-warning indication is highlighted on the monitor warning the operator in advance. An off-line programming station is available for programming the feeders outside the machine.



Photo
PP-050 without cabinet

Life time warranty

The outstanding quality of the feeder interface makes that DIMA covers them with warranty for life.

Built for growth

By being a modular machine, the Atoz is future-proof and expandable to whatever your needs might be. Accessories like a Large component camera, a large reel holder, extra feeder banks, cabinet, tape strip feeder and trays makes it built for growth.



Photo Feeder for conventional LED's

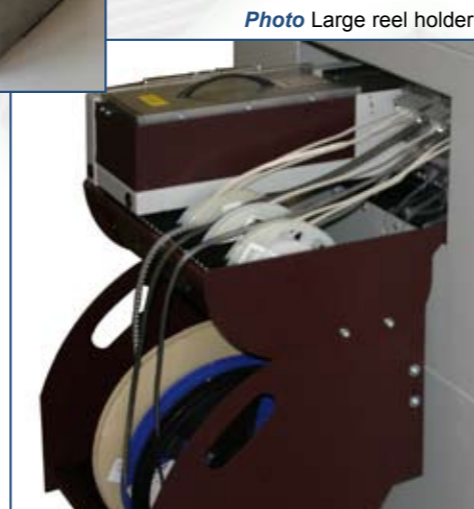


Photo Large reel holder

Easy to use DIMAsoft® Software for Windows®

The advanced and easy to use DIMAsoft® Software offers you quick, informative one key operation drastically reducing programming time. Built in a SQL environment it allows you to work on multiple stations. The machine is also ideal for prototypes. Material planning, management information, Remote diagnostics, output analysis and optimization are together with lots of other features standard available in the software. Software for CAD conversion, stock control and batch traceability are also available from DIMA. For off-line programming or diagnosis of management information you can install the pick & place software free of charge on a desktop PC.



Photo Vision-on-the-fly Camera

High-quality precision with Vision-on-the-fly camera

Already in 1994 DIMA introduced her first generation Vision-on-the-Fly cameras. The Atoz is standard equipped with the latest generation Vision-on-the-Fly, which gives you optimal precision by a camera that controls every leg and ball in comparison to the less accurate systems of Laser and camera systems that work with templates. The ES1®-vision system Correct Place™ controls full vision analysis and alignment. Flexible part models have the ability to handle new packages without software changes and new models are easily defined with vision-assisted teaching.

Placement Head

Incorporated one individual Z axis-programmable pipette offering full vision alignment for all components. A small camera for chip components down to 0201 is standard. A large CMOS camera for placement of large fine pitch components is optional. The vision system checks all components on dimensions, number of leads, tolerance of lead space and coplanarity.

Always a green light with the flexible Atoz!

8/12 mm feeder in same slot

User friendly software

Compact flexibility

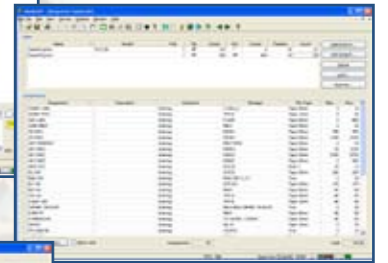
Modular system



Production



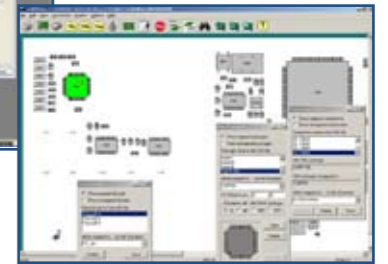
Material Planning



Vision Test



CAD-conversion



Dispense Option

There is a possibility to add a dispense option for solder paste and SMD-glu.

Am I a potential Atoz user?

The Atoz is developed to produce small to medium series with zero change over time in a high standard quality. With this knowledge the Atoz is suitable for a very wide spectrum. In combination with the CAD conversion software the Atoz is in its element to prepare the step between proto- and high volume production.

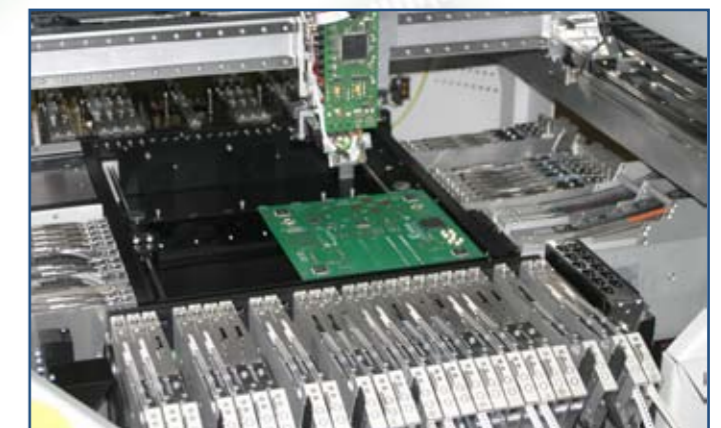
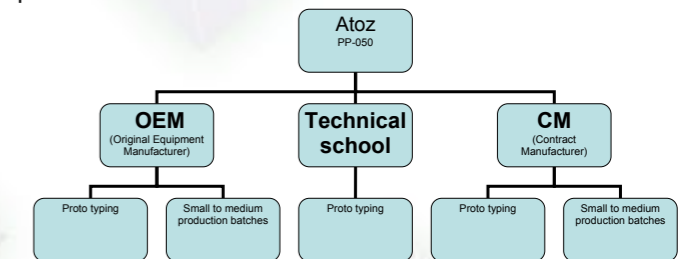


Photo inside PP-050 with 4 feeder banks

Universal DIMA software interface

Linear encoder 1 Micron

Zero change over time