

DD-500 Dispense master

Specifications

Dimensions

L x W X H = 700 x 700 x 550mm / 27.5 x 27.5 x 22"

PCB size

400 x 600mm / 15.7 x 23.6", Max. dispense area 320 x 420mm / 12.6 x 12.6"
total clearance 87mm / 3,5", bottom clearance from pcb holder 13mm / 0.5"

Maximum warpage

1mm up - 1mm down
(when working with distance holder)

Motion

Stepper motor controlled, belt driven

Control

Integrated microprocessor controller, combined with MS-Windows™ PC software

Dispense speed

12.000 dots / hour at 1mm centres, 30ms dispense and 100ms hold time, 4mm dispense height.
For lines up to 80 mm/sec.

Interface

RS-232 serial interface

Power / Air requirement

115 or 230 V / 50- 60 Hz / 125 W
4 Bar / 60 PSI

Operating temperature (Machine)

18-30 °C

Noise level

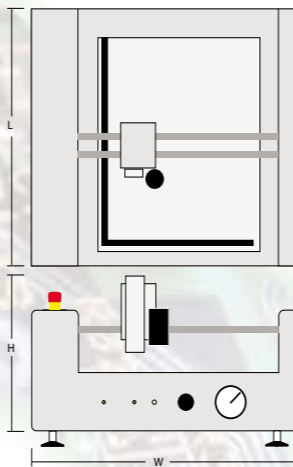
Noise emission during operation < 70 dB(A)

Weight

72 Kg

Ordering Information

DD-500 Dispense Master with camera and frame grabber
DD-5010 Automatic fiducial alignment software incl. computer
DD-5120 Coating valve control option incl. 175ml syringe valve (spring return)
DD-5121 High pressure valve control option (air pressure return) Factory mounted
DD-5200 Drill for pcb drilling



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DIMA Dispense technology is a division of the DIMA Group BV

Your Distributor

Specifications are subject to change without prior notice.

DD-0810E

DD-500 Dispense master



**The ideal machine to dispense:
Dots and Lines**

**or to Fill, Underfill and to
apply Conformal Coating**

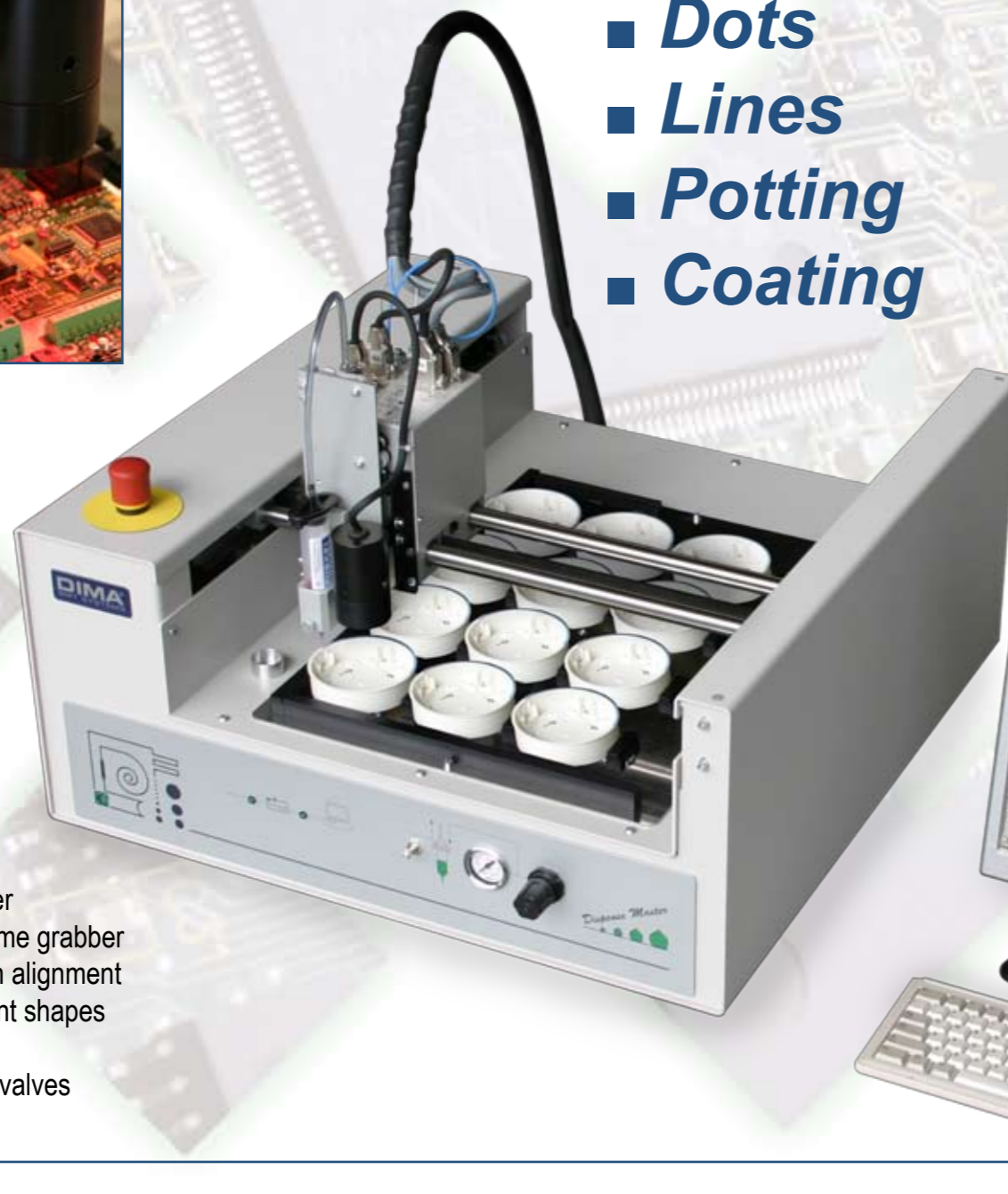
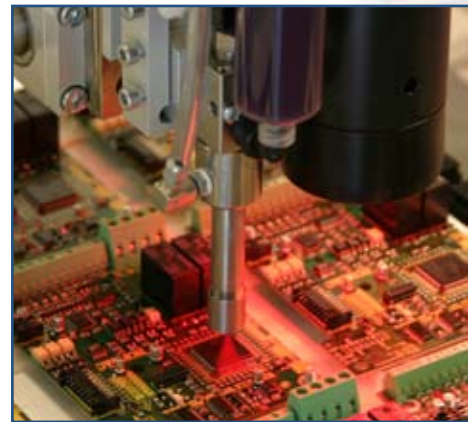
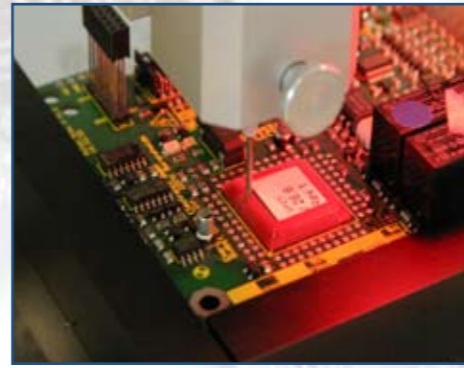
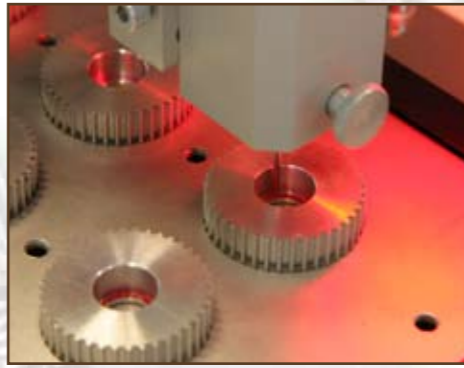
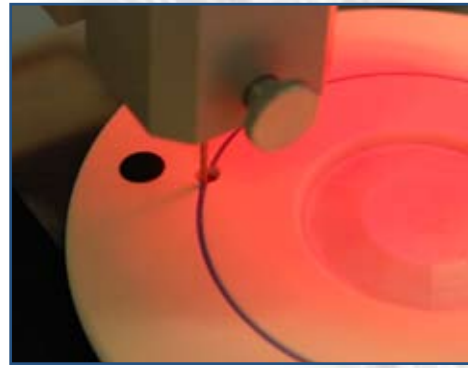


To improve your productivity



The Dispense Master

DIMA is a global integrated engineering company providing the electronics industry with a wealth of experience in the design of production facilities and manufacturing equipment. Using advanced CAD design technology, combined with a thorough understanding of customer specific needs, DIMA offers the ideal solution for dispensing epoxy, soldercream, adhesive, seals, masks and other materials onto housings, PCBs and other products. The Dispense Master can be used as an air pulse dispenser or can be combined with a variety of dispensing valves to draw lines, to dam and fill or spray conformal coating. For prototypes of circuit boards the Dispense Master can be converted into a NC PCB drilling machine.



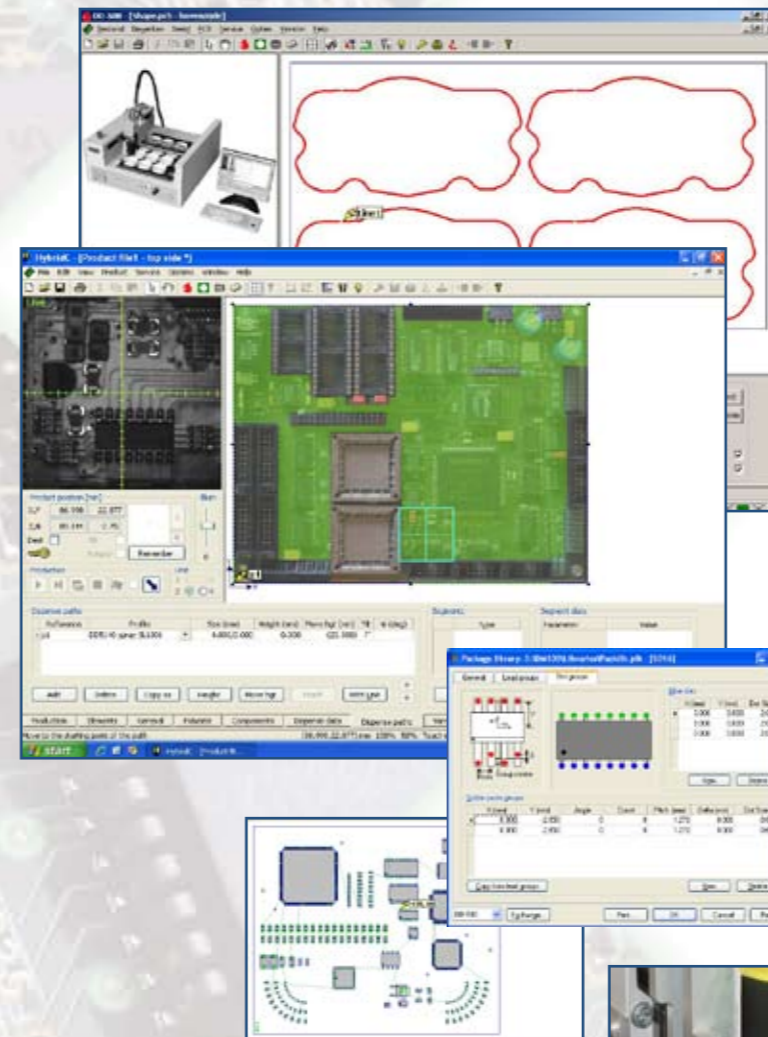
- **Dots**
- **Lines**
- **Potting**
- **Coating**

Key Features

- . 12.000 dots / hour
- . Large working area
- . quick change PCB holder
- . aligning camera with frame grabber
- . optional automatic vision alignment
- . library of SMT component shapes
- . automatic optimization
- . large range of dispense valves
- . possible CAD download

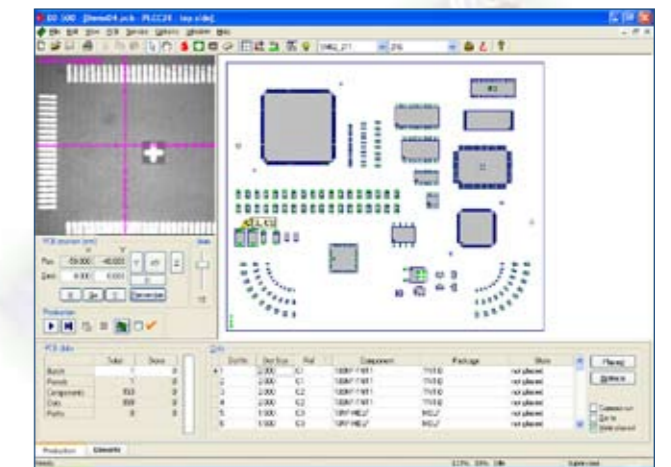
User interface

DIMA's software offers today's customer the ability to produce complex products, giving maximum flexibility, lower processing costs and higher yields. Its unique capabilities offer quick, responsive, and informative one key operation, drastically reducing programming time. When programming a product the operator can place several segments to create a model. A segment can be a line, arc, circle, ellipse, spiral, dot, area or fill. In a model, line thickness can vary per segment. Pre-start and pre-stop are software controlled. Once a model is created it can be copied to other locations within the fixture. For coating applications an area can be selected whereafter you only need to select the area's that need to be free of coating. A vision system for automatic alignment of the product is available as an option.



Special features for circuit boards

The Dispense Master makes it extremely simple to program your printed circuit boards. The machine comes with a library of component shapes that can easily be programmed on the board using the teach camera. All required information about reference points, test dots, and dispense coordinates is available in one window. Dispense coordinates are automatically optimized for a minimum of production time. The routing of the dispense head can be visualised with an on screen graphical plot function of the software. Also available are DIMA's CAD conversion utilities which can reduce programming time to minutes.



Standard head

Standard the Dispense master comes with a Syringe head. Dispense and spray valves for various applications can be found in the DIMA valve catalog.



Distance hold-er

Dispensing needle with distance holder to ensure fixed distance between needle and PCB. The snap-on distance holder can easily be adjusted in



PCB drill

The optional drill head for drilling prototype PCBs can be changed with the dispense head within minutes.