

Dispense Master Specifications

DD-500 Dispense Master

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

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-5100 Rotary valve for dispensing medium viscosity materials
DD-5110 Diaphragm valve for low to medium viscose liquids
DD-5120 Mini spool valve for medium to high viscose liquids
DD-5130 Adjustable needle valve for low to medium viscose liquids
DD-5200 Drill for pcb drilling



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Specifications are subject to change without prior notice.

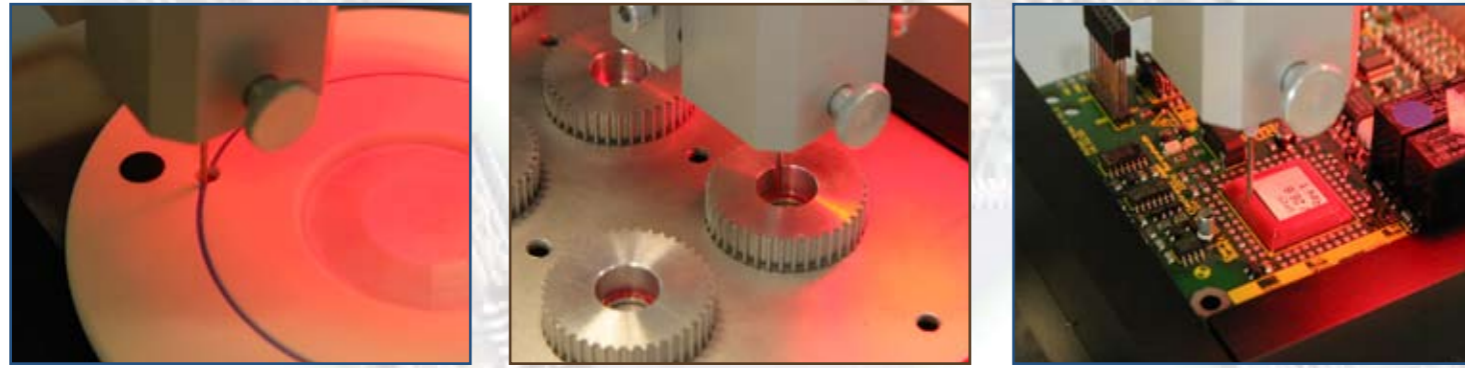
DD-0511E



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, coupled 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 do dam and fill or spray conformal coating. For prototypes of circuit boards the Dispense Master can be converted into a NC PCB drilling machine.



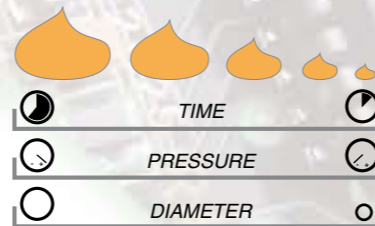
Key Features

- . 12.000 dots / hour
- . line speed up to 80 mm / sec
- . easy to use Windows™ user interface
- . aligning camera with frame grabber
- . optional automatic vision alignment
- . library of SMT component shapes
- . quick change PCB holder
- . automatic optimization
- . possible CAD download

Dispensing of dots and lines or potting and coating of components

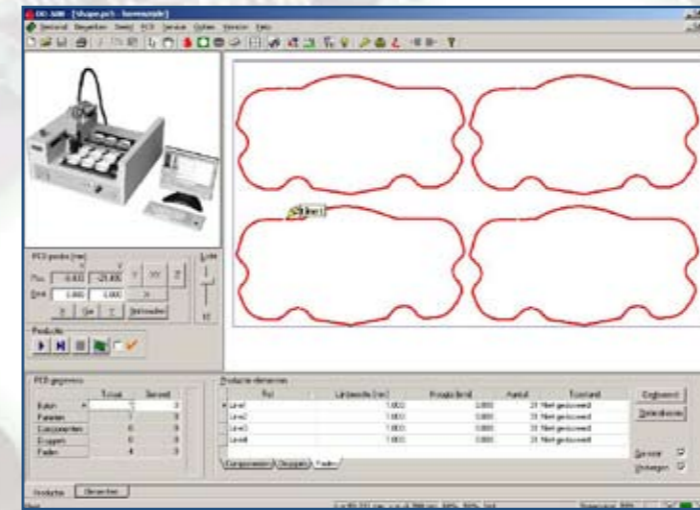


Coating valve



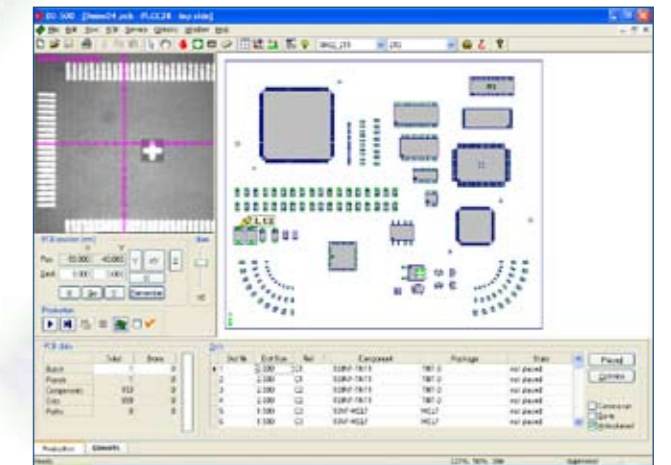
User interface

DIMA's software offers today's customer the ability to produce complex products giving maximum flexibility, lower processing cost 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. 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 programme 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 co-ordinates is available in one window. Dispense co-ordinates 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.



Airpulse dispense

Standard the Dispense Master comes as an Airpulse dispenser to be used for products with a low viscosity or for products with a higher viscosity and a less critical application. Syringe holder fits 3, 5, 10 and 30 cc syringes.



Rotary valve

The optional positive displacement precision dispensing pump, allows you to dispense all kinds of materials with a constant dot size. Changes in temperature or viscosity of the product have less influence on the dot size. Pump fits 3, 5, 10 and 30cc syringes.



Distance holder

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



PCB drill

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