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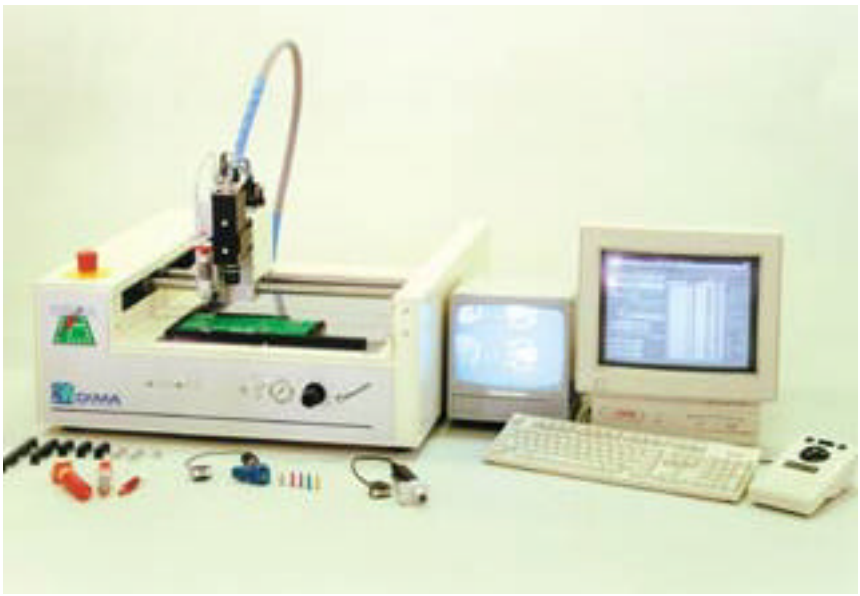
The Dotmaster

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 soldercream, adhesive and other materials onto PCBs. The Dotmaster can be used as an airpulse dispenser when combined with the optional positive displacement pump. For prototypes of circuitboards the Dotmaster can be converted into a nc PCB drilling machine.

Key Features

- 10.000 dots / hour
- easy to use Windows™ user interface
- automatic optimization
- possible CAD download
- quick change PCB holder
- optional alligning camera with monitor



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Distance holder

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

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. 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 visiualised 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 Dotmaster 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 aplication. Syringe holder fits 5 and 10cc syringes.

Positive displacement

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

PCB drill

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

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Dotmaster Specifications

Dimensions
L x W X H = 700 x 700 x 680mm / 27.5 x 27.5 x 27”

PCB size
400 x 600mm / 15.7 x 23.6”, Max. dispense area
320 x 420mm / 12.6 x 12.6” top clearance 23mm / 0.9”, bottom clearance 13mm / 0.5”

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

Motion
Steppermotor controlled belt driven

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

Dispense speed
10.000 dots / hour at 1mm centres, 30ms dispense and 100ms hold time, 5mm dispense height

Ordering information
SMDU-5000 DOTMASTER with laser pointer
SMDU-5001 DOTMASTER with camera + monitor
SMDU-5100 Positive displacement pump
SMDU-5200 Drill motor for PCB drilling

Interface
RS-232 serial interface

Power-Air requirement
115 or 230 Vac / 50- 60 Hz / 125 Watt
4 Bar / 60 PSI

Operating temperature
18-30 °C

Noise level
Noise emission during operation < 70 dB(A)

Weight
69 Kg

	Resolution	Teach Accuracy	Repeatability
X Axis	0.10 mm / 0.004"	0.10 mm / 0.004"	0.05 mm / 0.002"
Y Axis	0.10 mm / 0.004"	0.10 mm / 0.004"	0.05 mm / 0.002"
Z Axis	0.10 mm / 0.004"	0.10 mm / 0.004"	0.08 mm / 0.003"

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