

Its all in the valves

The robot is a must but the valves and process knowledge are the key words when it comes to dispensing and coating. Of course you need a good robot with good software but if the valves are not there and there is lack of process knowledge you will not succeed. DIMA has a wide range of valves, process knowledge and testing facilities so that your application combined with DIMA's know-how will lead to success.

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
Stainless front closing high pressure valve low to medium volume

DD-5131
Stainless front closing high pressure valve medium volume

DD-5132
Stainless front closing high pressure valve medium to high volume

DD-5140
Spray valve with long spray cap, round beam (patent pending)

DD-5141
Spray valve wide spray cap, flat beam



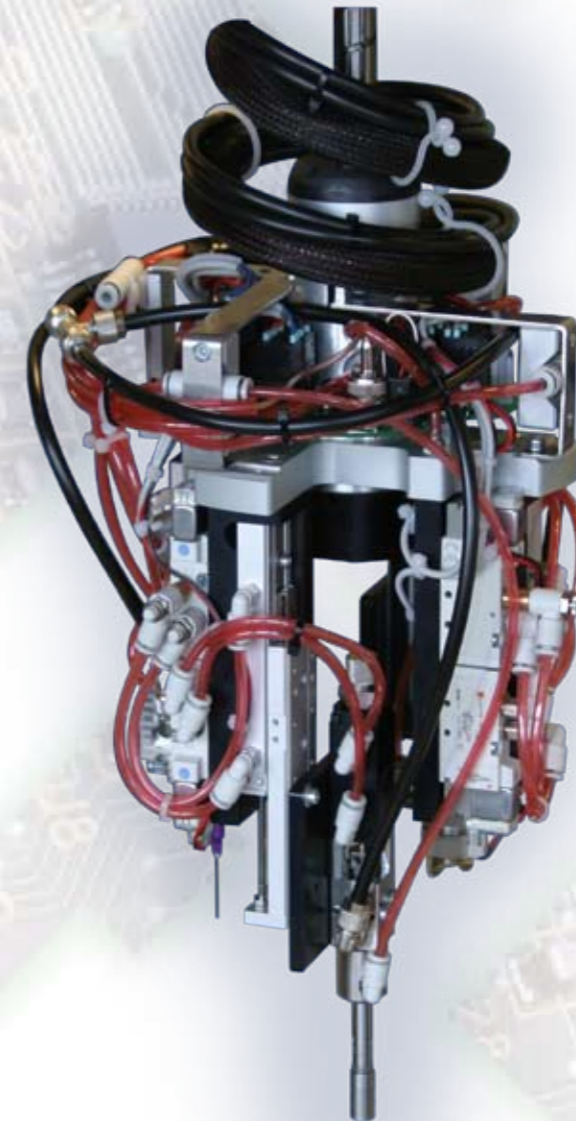
Web: www.dimasmt.com

your Distributor

Specifications are subject to change without prior notice.

HC-0511E

DD / HC Dispensing & Coating



The complete DIMA solution for dispensing
both dots, lines and potting or conformal coating
backed with years of expertise



To improve your productivity



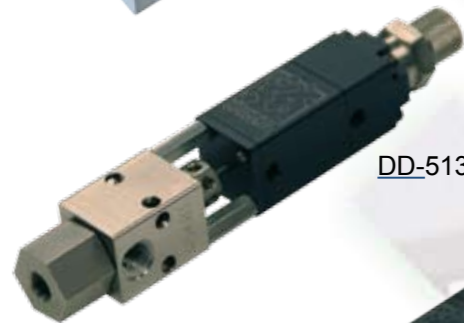
DD-5100



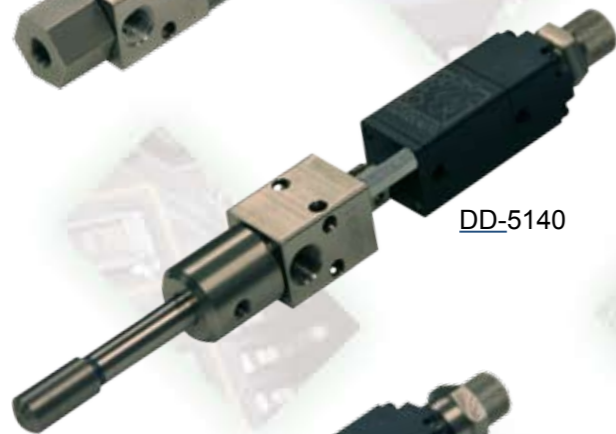
DD-5110



DD-5120



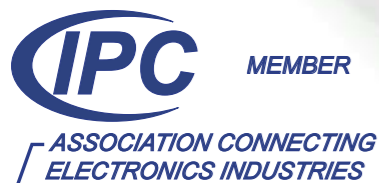
DD-5130



DD-5140



DD-5150



The Dispensing and Coating solution

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, conformal coatings and other materials onto housings, PCBs and other products. The DD and HC series can be used in combinations with a variety of dispensing or spray valves to draw lines, apply dam and fill applications or spray conformal coating. For prototypes and small runs we developed the DD series and for larger runs and more complicated products the HC series. Your products combined with our expertise will lead to success.

DD Series

The DD-500 is especially designed for prototypes and small to medium runs. The machine can be configured to be used as a dot dispenser, line dispenser or as conformal coater. The machine can even be used as a NC pcb drilling machine. The DD-500 is always a batch model and is always equipped with a ccd camera. Since the DIMASOFT® operating software is made available for the Dispense Master programming is done within minutes. Automatic fiducial alignment software is available as an option.



Dots

DD-500 configured with DD-5100 Rotary valve for dispensing medium viscosity materials such as solder cream and SMT adhesive. For this application the software has a special section with component libraries to make programming as easy as possible. The power to the Rotary valve is software controlled and can be changed in order to optimise the valve to the used material. Max dispense area 320 x 420, Max PCB size 400 x 600 mm

Lines and fills

DD-500 configured with DD-5021 High pressure valve control option (air pressure return) and DD-5130 Stainless front closing high pressure valve low to medium volume. Suitable for small to medium series of products that need a seal or other kind of line dispensing. Lines, curves, areas and fills can be programmed without any problem. Maximum dispense area is 320 x 420 mm, max total product height is 110 mm.



Conformal coating

DD-500 configured with DD-5020 Coating valve control option including 175 ml syringe valve (spring return) and DD-5140 Spray valve with long spray cap, round beam. Suitable for small to medium series of boards where the application can be done with one valve. Maximum coating area 320 x 420 mm maximum component height 50 mm.



HC Series

In the HC series we have 2 models. The HC-100 and the HC-200. The HC-100 is a 3 axis robot and the HC-200 is a 4 axis robot. The robots can handle 4 different tools. The tool can be either a dispense valve, spray valve or a gripper. Tools and valves can easily be configured off-line and placed onto the revolver head as a complete module. Both types are offered as a batch or in-line machine. machines can be upgraded in the field. For the Batch machines there is a variety of clamping systems as well as for the in-line machines. This way we make sure that we can always offer the optimum way to handle your products. All units have the unique DIMASOFT® user interface that makes programming a board a simple operation. All machines are standard equipped with a ccd camera. An automatic fiducial alignment software is available as an option.



Photo: HC-200 In-line model

Static work holder

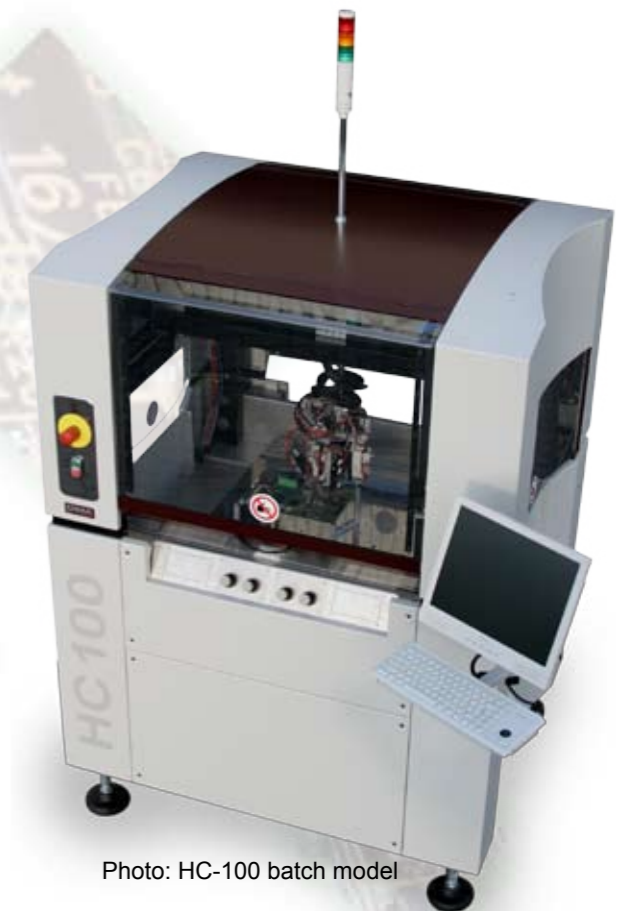


Photo: HC-100 batch model

Work holder

To handel products the following options are available:
Static work holder with 50mm / 2" spacing M4 nuts.
In-line belt conveyor with sensor and dual stopper
In-line chain conveyor with sensor and dual stopper
In-line belt conveyor with sensor, stopper and pcb clamping

Specifications

Axis

HC-100 3 axis + tilt
HC200 4 axis + tilt

Working area

600 x 600 mm
23.6"x 23.6"

Clearance

Top 100 mm / 4"
Bottom 100 mm / 4"

Rotation

380 degree

Motion

Close loop stepper motor driven
ball spline and linear bearings

Revolver head

4 positions individually software
configured

Transport

