

# SIEMENS

## *The Dispensers*

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 Solder cream, adhesive, lubricants, liquid seals, potting materials and other viscose materials on a wide variety of products. The Dispensers are microprocessor controlled, allowing the operators to tune the unit to their exact needs. A complete range is available. Starting with a rock solid single dispenser with or without a vacuum pipette or hot air pencil up to an Multi valve dispenser or a programmable universal valve controller.



## *Dispensers*

The DIMA dispensers combine all features of today's dispense requirements in one system. Shown is the DD-400 which is the most advanced dispenser in the DIMA range. A digital timer combined with precision air pressure regulation, guarantees an exact and repeatable dot size. For liquids with a low viscosity the dispensing unit is equipped with a barrel vacuum that avoids leaking of dispensing fluid. The dispenser is equipped with an automatic repeat function that avoids having to press the foot pedal for every dot. The pick and place function ensures that even difficult components can be handled with ease. The unit is also equipped with a digitally controlled hot air pencil, which is a very convenient tool for soldering prototype PCB's and for removing or soldering single components for repair purposes. The hot air pencil is also a handy tool for shrinking heat shrink tubes.

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## *Foot Valve Dispensers*

The Foot valve dispenser series is the most economic way of dispensing when no automatic timer is required. The floor mounted unit with integrated pressure regulator and pressure gauge dispenses material as long as the pedal is activated. The operator controls the output rate and dot size. The DD-100 can only dispense while the DD-110 also offers vacuum draw-back. This prevents thin liquids from dripping out of the barrel. These systems are ideal for general applications of compounds, sealant, coatings and adhesives. The units have to be connected to compressed air, come with a 10cc barrel adaptor and a universal barrel holder.

## *Automatic Dispensers*

The microprocessor controlled dispensers start with the DD-200. The DIMA Dispensers combine Rock-solid construction with state of the art microprocessor control. Dispense times and repeat times can be set in milli seconds. A repeatable dot size is guaranteed by the solid state digital timer. For liquids with a low viscosity all microprocessor controlled dispensers are equipped with a barrel vacuum that avoids leaking of dispensing fluid.



## *Multi valve dispensers*

The multi valve dispenser DD-210 allows you to dispense from 4 different barrels all at once or one by one. All settings can easily be made in the microprocessor controller. switching between barrels is a matter of pushing a button while the display informs you about the status of the dispenser. When using the unit for barrels that have different materials inside the dispense time for each barrel can be set separately. The shape of the unit is similar to the DD-200. only the display window is different and also the DD-210 has four outputs.

## *All in one package*

All dispensers come with a universal barrel holder, an assortment of dispense tips, a foot pedal and one 10 cc barrel adaptor so that the package is ready to use. If alternative size or quantity of adapters are required, a separate order will have to be placed. With the dispensers that are equipped with a pick and place or hot air module a rotating pipette and hot air pencil are included.



## Vacuum pipette

The vacuum pump with hand switch DV-100 and the vacuum controller DV-200 / 210 provide vacuum for pipettes and for other additional equipment. The DV-100 is a pump where the vacuum has to be switched off by releasing the hand switch. Closing the hole of the vacuum switch with your finger creates vacuum. The DV-200 / 210 are foot pedal controlled units. The DV-200 requires compressed air. The DV-210 creates vacuum by an integrated vacuum pump (no compressed air required).

## Pick & place

Dispense units that have the pick and place function come with a rotating pipette. This pipette allows you to rotate the component while held on the pipette, enabling the exact alignment of the component to the product it is being mounted on. A straight pipette and a pipette that automatically switches the vacuum on and of by touching the component can be ordered separately.

## Hot Air

The DD-400 is equipped with a hot air pencil. The temperature of the air can be set between 0 and 500 degree Celsius. This hot air pencil is an ideal tool for soldering prototype SMT boards, curing glue, shrinking heat shrink tubes, error searching on PCB's and removing faulty SMT components. The airflow is activated by pushing a button on the grip of the hot air pencil.

## Universal valve controller

The valve controller, which is microprocessor controlled, has the ability to be programmed to suit any valve that can be activated with a voltage between the 5 and 24 Volt. Duration of opening or running of the valve can be programmed. Drawback vacuum and tank pressure can be controlled from this unit. For use in robot cells there is an interface that allows communication between the 2 machines. The digital display and the pressure gauge inform the operator about the status of the unit.

## DISPENSE Competence

For specific applications please contact your dealer or DIMA SMT Systems. Our dispense experts can answer your dispense questions and advise you the unit that fits best for your application.

## Starter Kit

The DK-1000 Dispensing Component Kit provides to you a complete package of tips and barrels to get you started. In the kit you find: 5 barrels of 5, 10 and 30 ml including barrel tips and caps. 25 Molded hub steel tip Luer locked of 0.3, 0.5, 0.6, 0.8, and 1.4 mm ID 12.7 mm long - 25 Molded hub steel tip Luer locked of 0.3, 0.5, 0.6 and 0.8 mm ID 6.35 mm long and 25 Molded Tapered tip Luer locked 0.4, 0.6 and 0.8 mm

## Rotary valves

DIMA supplies rotary valves for extreme precise dispense applications. The valve is based on a archimedes screw and is ideal for medium viscose materials such as solder cream, glue, potting materials etc. A special motor allows the valve to run only for milliseconds if nesessary.