

FLUID DISPENSING TECHNOLOGY

MACHINES FOR FLUID DOSING AND TREATMENT



FLUID DOSING COMPONENTS

FLUID DOSING SYSTEMS AND INTEGRATED SOLUTIONS

Super low pressure microspraying systems for machining, tooling or coating applications.

DOSING SYSTEMS AND

SOLUTIONS FOR LOW AND HIGH VISCOSITY FLUIDS

SPECIAL

studies and special dosing solutions.

DISTIK

Dosers and dosing systems for adhesives and sealants.

ROBOT

3-axis robot systems and turn-key solutions for fluid applications in strings or





CASTING MACHINES FOR 2K RESINS

M-DUO-LP



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CASTING MACHINES FOR 2K RESINS M-DUO-LP









Suitable for dispensing applications of:

Silicone, polyurethane or epoxy based resins in liquid form.

Semi-automatic dispensing machine for liquid, pourable, medium or low viscosity 2K resins. Suitable for casting applications with polyurethane, epoxy or silicone resins, with or without the presence of suspended abrasive fillers (after evaluation of the technical data sheet and product sample). The basic machine doses by casting by means of a dispensing valve combined with a disposable static mixer.

The machine has a painted steel structure housing the two tanks, the electrical panel and the dosing system. In the machine there are two independent tanks containing respectively the resin and the hardener. Cycle start by means of a trigger or external if the dispensing head is mounted on an automation. In the basic configuration there is no automatic degassing of the tanks, but the machine can be implemented with an optional kit generating the vacuum.

The machine is not designed to handle flammable products, the electrical circuitry is not ATEX compliant.

The machine is (f marked and compliant with safety rules and law.



The software

The user-friendly software is able to manage the dosing parameters and the mixing ratio, which could be easily modified through touch screen panel. Possibility to memorize different recipes. On request and after technical verification, it can be implemented with further packages to communicate with the customer's PLC.



The dosing group

The dosing group includes two independent volumetric dosing units which, depending on the intended application or the requirements, may be either piston or single screw technology.

In the basic configuration the tanks are filled manually, but it is possible to implement an automatic loading system to the tanks by means of additional pumps.

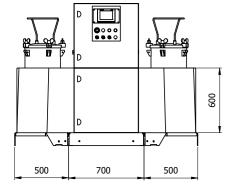


The dispensing

The products are dispensed from the valve equipped with a disposable static mixing nozzle.

The size of the valve and the model of the nozzle are set up according to the technical specifications of the products to be mixed.

The actual maximum flow rate depends on the mixing ratio and the mixing capacity of the static mixer used.



Main technical characteristicsPower supply:230V 50-60Hz single phaseAuxiliary circuits:24V DCAir supply:5-6 barPower:4 KW indicativelyStandard pneumatics:SMC or FESTO

Standard models:

The resin dispensing machine M-DUO-LP may be equipped with either piston-based (DVL) or screw-based (DVM) volumetric dosers

M-DUO-VL 4020	40I resin tank + 20I hardener tank
M-DUO-VL 6020	60I resin tank + 20I hardener tank
M-DUO-VM 4020	40I resin tank + 20I hardener tank
M-DUO-VM 6020	60l resin tank + 20l hardener tank

Optional software packages

- Industry 4.0 compliance according to customer's specific requirements
- Barcode, QR reader.
- Dialogue with external PLC or supervisor with specified protocols, to bedefined in offer

Further optional implementations

- M-Potting vacuum group: optional kit including vacuum pump and piping. It does not replace an automatic degassing cycle but contributes to reduce the residual moisture inside the tanks after filling and to roughly eliminate the air from the tank.
- Duct heating: resin tank heating as well as heating of all the pipes up to the dosing head.
- Automatic tank loading.

ACCESSORIES AND OPTIONALS

- Pneumatic stirrer in the resin tank.
- Optional gun handle with integrated trigger control.
- Balanced pantograph arms.



Electronic circuits potting.

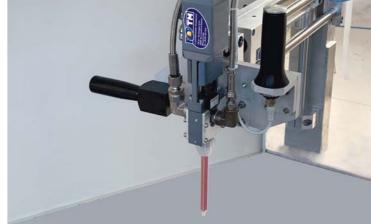




Curbs creation.



Potting on connectors.



Balanced pantograph arm.

APPLICATIONS

M-DUO-LP machines can be used in many dispensing and dosing applications and assembling processes. Typical applications are:







SEALING

Liquid sealing and liquid gaskets for electronics and engine assembly. Typical application sees the machine equipped with volumetric electric continuous dosers gear-based such as the DVC series.

BONDING AND HEAT TRANSMISSION

Structural bonding of parts. Typical application sees the machine equipped with volumetric electric linear piston-based or screw-based dosers such as DVL or DVM series

RESIN CASTING/POTTING

Potting, casting or injection of 1k or 2k resins for electronic elements and PCBs. Typical application sees the machine equipped with volumetric electric linear piston-based or screw-based dosers, such as DVL or DVM series.

MICRODOSING

Microdosing of lubricants during mechanical assembly process, which can be contact, contactless or microspray. Typical application sees the machine equipped with volumetric pneumatic dosers such as the VVPP or VVAP series.

FILLING

Dosing and precision filling of oleodynamic or mechanical cinematics. Typical application sees the machine equipped with volumetric electric linear piston-based dosers such as DVL series.