

Thirty years of experience, research and development allows us to be able to offer you the best technologies for the treatment of the resins epoxies, polyurethanes and silicones.

Our innovative degassing system under vacuum, allows our machines 8 series to work continuously thanks the automatic loading of the components from the commercial tanks.

Thanks to the volumetric proportioning system, with pumps covered with titanium skin, our system 7 and 8 series, are able to guarantee a perfect and constant mixing ratio, could use standard spiral mixers also with difficult mixing ratio.

The dosage precision allows us the contemporary dosing also with 4 dosage valves and with 8 nozzles per valve.

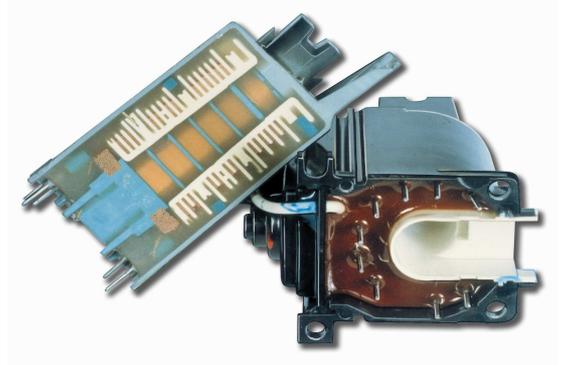


**TRANSFORMERS:**

Encapsulated in epoxy resin. To increase the property of the transformers, we can use the degassing system of our machines series 8. Thanks the degassing system the potting might be made under vacuum.



Examples of resin surface and impregnation level in a vacuum chamber. The resin surface is without air bubble, and the impregnation level of the resin is near the 100%. This is the best solutions for every encapsulated parts.



Marty in the last years has run over a lot for developing systems able to apply polyurethane and silicon resins. The dosage machine 8 series have been integrated from an ample range of cartesian robot with integrated software in the same software of the dosage plant. Only one program extremely "user-friendly", projected for all the dosage demands.

Brushless motors of last generation, combined with rolled ball screws, for a constant precision of positioning and interpolation for the realization of gaskets on pieces of dimensions to 9 mqs (max. 2,9 mt. for axe).



Electronic part encapsulated with polyurethane resin, by Cartesian robot with linear interpolation function.



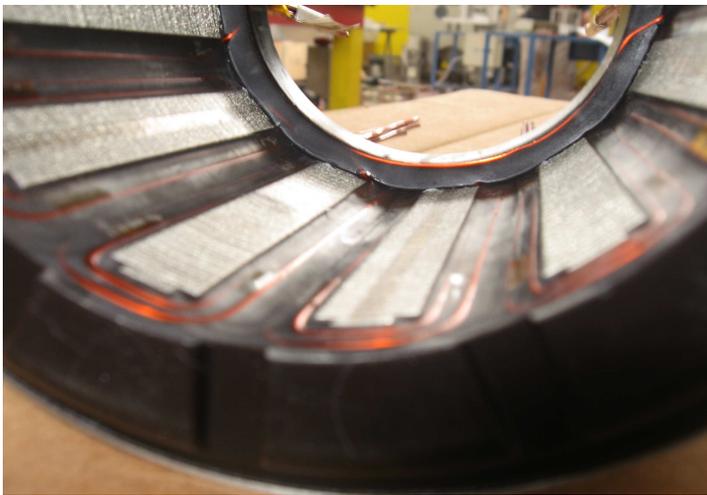
Filter made by cartesian robot with circular interpolation function.



Nowadays it's growing the market of the encapsulated electric motors: thanks the epoxy resin the motor increases the thermo mechanical characteristics and it's completely isolated. Initially the application has interested motor with particular demands of isolation from the water; today the greatest producers of electric motors are directing to this innovative system of production to improve the thermo mechanical characteristic of their products.



We are glad to use our experience and our technologies for the production of your encapsulated electric motors. Nowadays Marty is able to make custom automatic line for the total automation of the encapsulating operations. The greatest efforts are turned in the development of new technologies and tools combined to the encapsulating of the motor, like the realization of moulds to use inside or outside of the motor.



Pneumatic core without pressure.

Marty's R&D has succeeded this way in realizing a new system for the realization of the rotor place in a encapsulated motor. The mould, of smaller diameter than the diameter of the rotor place, is easily inserted and inflated to pressure to get an expansion up to the contact with the iron. To polymerisation happened, the operator will extract the pressure and the mould will return to the normal diameter, so it can be easily extracted. After this operation the stator will be perfectly cleaned, and it won't need other jobs.



Pneumatic core with pressure.

The impregnation level inside the copper wire and the resin surface inside the stator..

