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# MAGS Injection Molding Machine

## MC80 Injection Molding Machine



### Specifications

**ID**  
MC80

**DESCRIPTION**  
injection molding and over molding machine - 80 x 80mm mold width

**WEIGHT**  
280 Kg (622 lb)

**DIMENSION (mm)**  
W 810 x H 2000 x D 900

**DIMENSION (")**  
31.8 x 78.7 x 35.4

**POWER SUPPLY**  
various configuration available

**INJECTION METHOD**  
vertical injecting system via nozzle of 3mm diameter

**MOLD EXT DIMENSIONS**  
half mold 80 x 80 x 30mm

**RAW MATERIAL TANK CAPACITY**  
3.5lt (almost equivalent to 3.1Kg)

**HEATING HOSE CAPACITY**  
0.04lt (almost equivalent to 35g)

**RAW MATERIAL PROCESSING ABILITY**  
polymers and thermoplastic resins, normally in black or neutral color (other colors can be obtained using proper dyestuff)

**GAS EXHAUSTER SET UP**  
included in the supplying

**GENERAL CONFIGURATION**  
according to the international standard and CE regulation



Azienda con Sistema Qualità  
certificato N° 501001810



Azienda con sistema Ambientale  
certificato N° 501004844



The MC80 has been conceived to mold and over mold any plastic or rubber part with max 45x50x25 mm dimensions and 40 g weight. As professional Manufacturer of technological equipments with relatively low volumes and a high number of components, Mecal has faced the need to procure a variety of custom plastic parts in small quantities. The actual market has no competitive solution to the problem, being the ratio low quantities - low cost not easily achievable. This matter of fact has given Mecal the input to develop a flexible, user friendly, highly reliable, cost effective injection molding and over molding machine, the MC80.

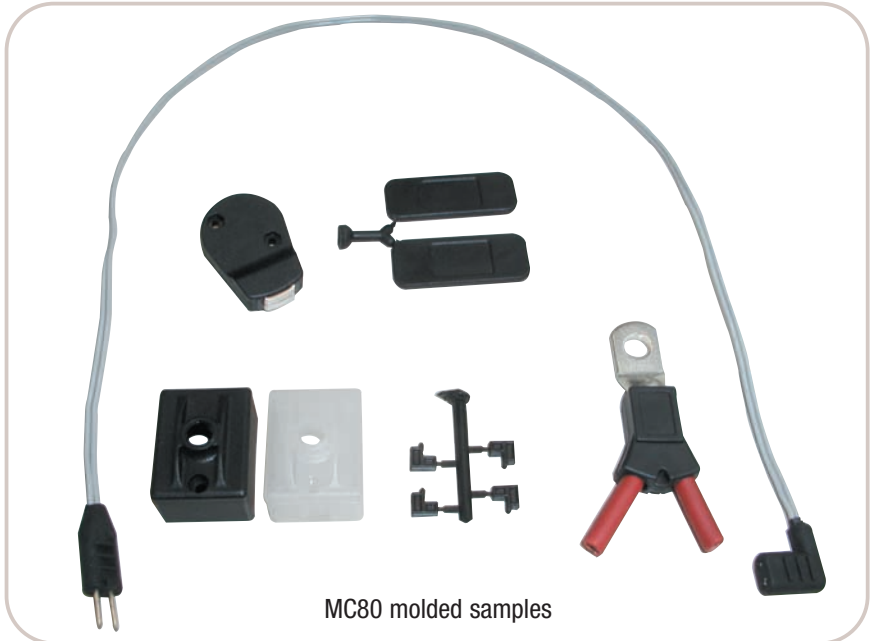
**Main components:** a) external frame with bench b) machine chassis consisting of base, vertical columns, connecting block c) injection chamber with special piston d) heating pipe e) control board f) mold (not supplied).

**Functioning:** the chosen raw material must be stocked into the transparent tank, which has a rough capacity of 3Kg. Once the machine has been set up, by means of an handle the operator fills the material into the heating pipe up to the proper level. At this stage the material modifies its own physical characteristics to allow the next injection molding operation. The MC80 is now ready to cycle and can be activated by means of a push button or a pedal. When the injection molding is completed, the operator opens first the MC80 front safety barrier and then the mold through an handle. The mold consists of a fixed half and a moveable half. At the end of the mold opening stroke, the injected part is ejected by the mold extractors. The production cycle is therefore completed. Closing the mold by the handle as well as the front cover, the MC80 can be immediately operated again.

# MC80

## Heating pipe

The MC80 allows the processing of various materials like Rubber, PVC, Nylon, ABS, Hot Melt, polypropylene (even addicted with glass fibers) and others. In case of material change, the heating pipe has to be cleaned up either through a mechanical process or simply changing the same. This last operation is very easy and can be done in no more than 20 minutes. For those who needs to frequently change the material to be processed, Mecal recommends to keep in stock some pipes and dedicate them to each specific material. This approach grants high flexibility and immediate results, without any significant impact on the business total cost.



## Molds for the MC80

Mecal is actually a world wide leading Company in the tooling production for crimping metal terminals on electrical wires. We put at our Customers disposal an impressive state of art tool shop consisting of multiple CNC Machining Centers, Grinding and Milling Machines, CNC Lathes, Wire EDM and Spark EDM Machines, beside Laser Marking Equipments and so on. This machining potential coupled with a significant know how in the injection molds manufacturing developed in the early 80's, grants our Customers a professional and very competitive source for dedicated MC80 molds. The MC80 achieves the best performances only coupled with molds engineered and made in Mecal. For assuring the best quality and performances of the MC80, Mecal recommends to use Mecal made molds only.

