the constructive concept of

Original solutions for advanced applications

Electric injection



Benchtop machine

Presmall is the name a fullyelectric benchtop injection machine, proposed by Presma as a solution for moulding small technical articles.

The idea of an injection machine 1,500-mm long, 700-mm wide and 800-mm tall originated from the consideration that moulders are often forced to purchase large machines and multi-cavity moulds to produce small quantities of articles or microscopic products. This miniature product is identical to larger units. In fact, the machine was designed on

transferring the electrical technology of the "normal" size machines to a product of such dimensions. In effect, there are other small machines on the market, but they feature some differences in respect of real electric injection moulding technology, which in this case is replicated in a traditional way. The machine is equipped with dual-function electrical motors. This means that the motor driving the clamping movement also activates the extraction movement of the moulded article, and the motor driving the rotation of the plasticizing screw also activates the injection shot. This system derives from an original organization of the machine drives and the use of ball screws to transform the motion from rotary to linear. The machine is endowed with larger platens in which mould-holder recesses of 110 x 110 mm are derived. The system for anchoring the inserts to the machine platens allows the mould-holders to be eliminated. with a further reduction in investment costs. Adapters can also be used for mounting moulds already on the market for small machines. The total absence of hydraulic drives and therefore of oil. together with the compact dimensions of the machine. make it ideal, in terms both of investment and production costs. for non-onerous clean room use in medical and pharmaceutical applications. www.presma.it