



TM 2500

Moulding unit for small batch production



Werner Wirth Systems and the Tutankhamun Principle

What has the Egyptian Pharaoh Tutankhamun got to do with moulding technology? – It is quite simple: His mummy remained intact for thousands of years because it had been protected against harmful influences. In line with the Tutankhamun Principle, Werner Wirth Systems protects your electronic components for a short eternity against moisture, fluctuations in temperature, corrosion and shocks and vibrations. The name Werner Wirth Systems signifies innovative moulding materials, engineering services of the highest level and individually adaptable processing machines for mould casting.

TM 2500 series

As stand-alone-devices the processing systems of the TM 2500 series offer an ideal and economical entry into the hotmelt production of small and medium-sized batches. Accurately regulated injection and cooling times in combination with a coordinated selection of the tank system guarantee a high degree of repeatability with practically no production tolerances.

The simple modular design makes it possible to use any number of different mould dimensions. Thanks to a retainer whose dimensions are 160 x 130 mm, mould heights of up to a maximum of 130 mm can be clamped with no problem at all. Quick and simple tool changeover from the upper and lower mould halves facilitates quick changeover of different moulding projects on one and the same processing system. Maximum flexibility in production is guaranteed by the combination of the comparably high 1t to clamping force of the tools in this group of devices.

The system is delivered ready for production as a table device that includes the TM 1004 tank system. As an option the system is also available as a complete processing system that is mounted on a machine table and includes a temperature control unit.

The freely accessible tool area with its maximum room for manoeuvring is particularly suited for the cable-manufacturing branch. One set of tools comprises two tool halves. In order to make inserting the assembly easier, the lower tool half can be pulled out of the machine manually via a sliding table. To facilitate unloading of the parts while the system is in operation, the lower mould half is moved towards the operator pneumatically. The use of aluminium tools keeps tool production costs low.

An optional cooling or temperature control unit allows appropriately equipped tools to be cooled or their temperature controlled in compliance with the project requirements. A consistent tool temperature ensures constant injection conditions. The low-pressure injection moulding process is carried out within a pressure range of 5 to 50 bar. Whereby the parts to be moulded are exposed to only a very low temperature load. The temperature can be continuously adjusted with an accuracy of $\pm 1^\circ\text{C}$. The modular design facilitates service-friendly processing in order to allow rapid response to the many different demands of the market, e.g. individual dimensioning of the hotmelt moulding unit.

The system is produced in Germany in compliance with all applicable standards of quality. Our service is also “made in Germany”: The Werner Wirth on-site service and our 24-hour hotline are always at your disposal.



The freely accessible moulding area offers maximum flexibility of tool layout.



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