



# TM 6500

Moulding unit for large 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 6500 series moulding units

The processing systems of the TM 6500 series were developed for stand-alone operation but can also be integrated into in-line production systems quickly and easily. Accurately regulated injection and cooling times, pumping speeds that are adjustable to match processing steps and adjustable bypass valves in combination with safe and simple handling guarantee a high degree of repeatability with practically no production tolerances. High temperature accuracy, pneumatic ejectors, functions such as temperature reduction, excess or insufficient temperature cut-out and the option of partial monitoring all go to ensure reliable processes.

Two separate projects with different processing times can be produced on this system. The tank systems are mounted on pull-out drawers in order to make material replenishing easier.

As an option the system can be extended to include a second tank system so that a maximum of four nozzles can be in operation simultaneously per tool. Sprueless injection of four cavities in a single tool increases efficiency.

The respective tool can be selected individually in the case of production of different projects, so that a left-hand cycle with one shot (60 sec/shot) and a right-hand cycle with four shots (15 sec/shot) is possible. If a machine version with two tank systems is used, it is possible to produce completely different projects with different materials. The tools are positioned using adjusting bolts and sensors, the lower parts of the mould move towards the operator.

The exact cooling temperature of the tools is transferred via the toolholder plate and regulated by the TM7010-1 cooling unit. This results in very short tool changeover times. The consistency of the tool temperature ensures constant injection conditions.

The low-pressure injection moulding process is carried out within a pressure range of 5 to 60 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.



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**Ideas against failures – made-to-measure component protection**