

Product information

TM 2500

Hotmelt moulding platform: Highly flexible processing machine with manual tool closure



Product description

In the low-cost standard version with TM1004 tank unit, the TM2500 moulding station is the ideal entry-level system for hotmelt processing. The open design of the tool holder offers sufficient scope particularly when coating cable systems or partially coating foils or more complex assemblies.

With its vertical adjustment mechanism, TM2500 can be set up for many different tool heights with a highly variable tool holder to have the gate in the separation level.

The pneumatic lower tool half moves out toward the operator with maximum occupational safety thanks to combined mechanical and pneumatic tool clamping with a clamping force of up to 1500 kg. The practical one-hand control

clamps the tool to an opening of 5 mm; final pneumatic clamping is then triggered by pressing the start button on the clamping lever to start the injection moulding process.

The system is devised for one operator. An optional switch box can be added to operate two TM2500 platforms at one material feed point, thus giving the greatest possible production capacity for one operator with ideal cost effectiveness.

Moulding platform TM2500 with its unique versatility is the ideal solution, from the small-series platform with tank unit through to the extruder-fed double moulding station for medium-sized series.



1 Material preparation in the tank unit

Tank units for material preparation are the entry-level solution for hotmelt moulding. They process granulated materials. The tank units in the TM1000 series are all designed for fitting to all WERNER WIRTH moulding platforms. Depending on the specific system type, a range of features are available such as level sensor, weekly timer or temperature reduction.

2 Material preparation in the extruder

Extruding is the most convenient and reliable form of material preparation. The extruder is used for extremely gentle processing of a wide range of different granulated materials. The extruders in the TM1500 series can be integrated in all WERNER WIRTH moulding platforms and are designed for processing a wide range of materials. Touchpanel control, inverter-controlled drive and optionally integrated material drying together with melting rates coordinated to material demand are just some of the features. Our extruders make it possible use materials with higher viscosity and coloured moulding or injection moulding materials.



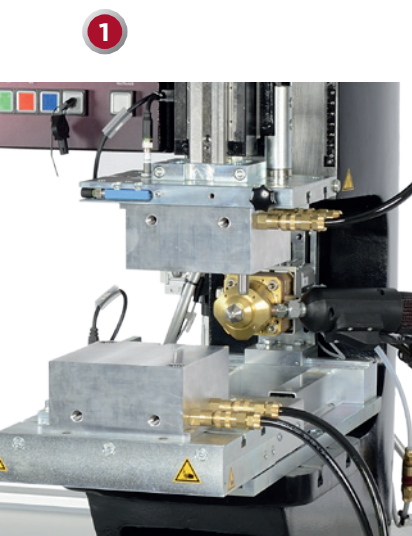
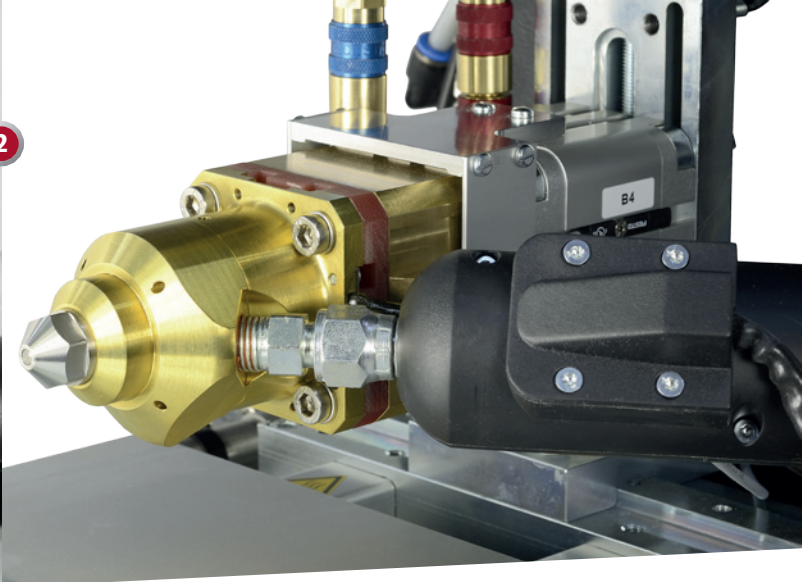
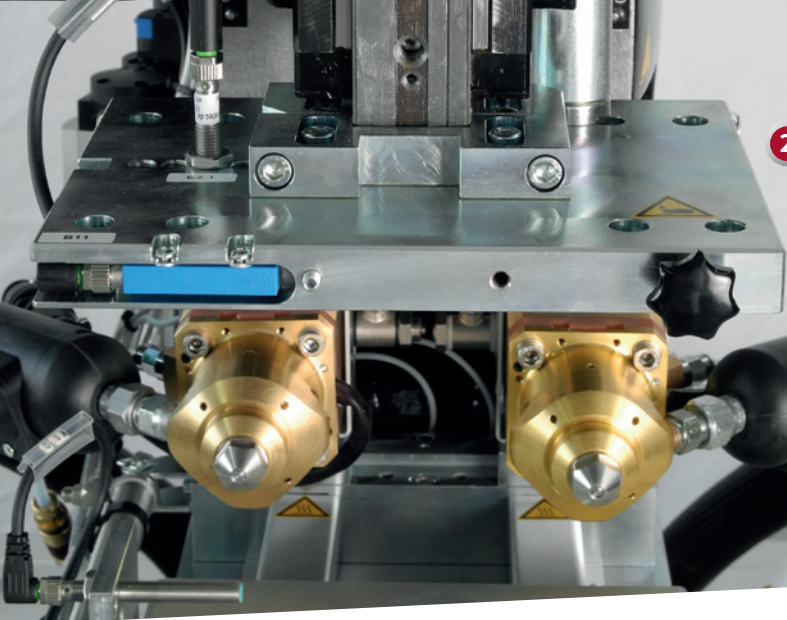
3 Material preparation in the bag melter

The TM1402 bag melter is necessary when processing our high-temperature resistant reactive polyamide materials in the PAR product group. The unit can be integrated in every moulding system. The material is melted by a controlled heating plate under the exclusion of air before being fed into the tool.

4 Two+one operation

With the TM1300 switch box, two hotmelt stations can be operated at one material feed point, regardless of whether this is a tank unit, extruder or bag melter. The switch box ensures that only one moulding process is running at a time so that the moulding parameters can be provided constantly and exactly as needed by the injection moulding process.





1 Tool holders

The standard TM2500 moulding station is equipped with a pneumatic sliding table for the lower tool holder so that the sub-form is pushed out toward the operator for optimum handling when inserting and removing the parts being processed. With the vertical adjustment mechanism, the TM2500 can be set up for varying tool heights, thus expanding the scope for cavity size in the tool.

2 Valves

WERNER WIRTH moulding valves are designed for low-pressure moulding systems. The cavity is filled quickly by extra large nozzles, with material cracking reduced by the consistently undercut-free internal structure. The gate point has 1 or 2 moulding valves fitted horizontally in the tool separating level.

3 Cooling or heating units

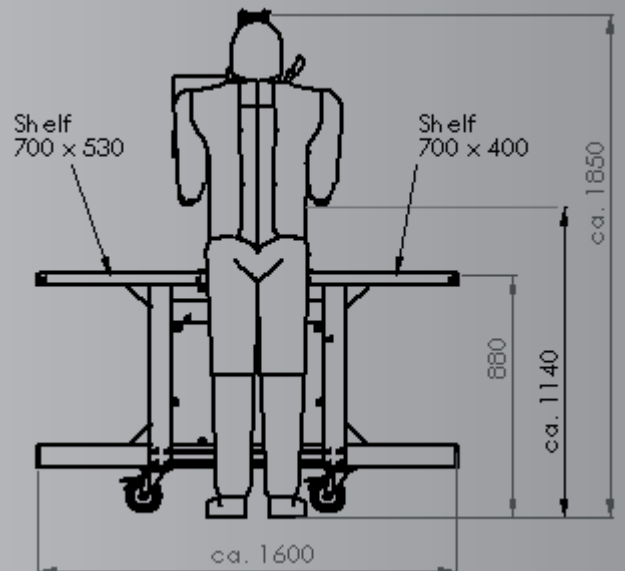
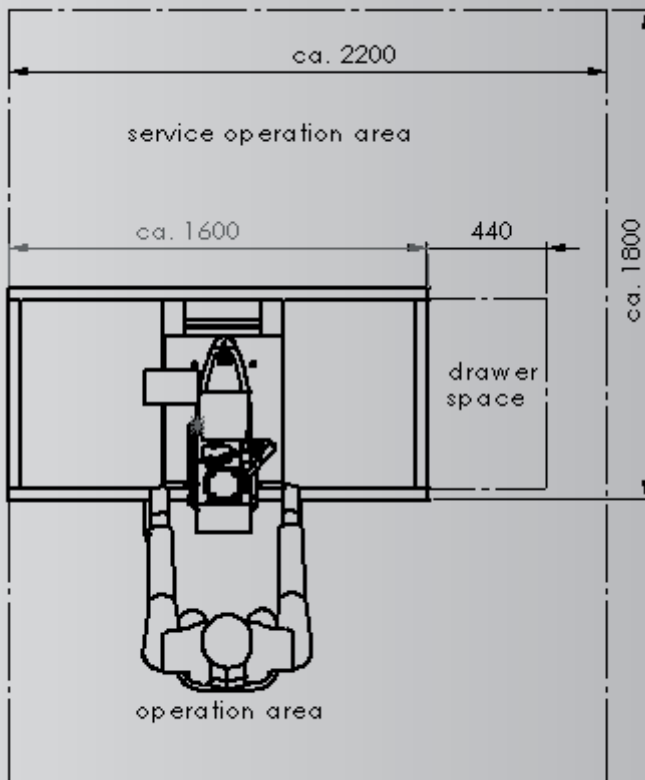
One of the crucial criteria in a constant moulding process consists in controlling the tool temperature. Certain applications need the tool to be heated. Temperature control is provided indirectly through the tool holders so that the tool itself needs no extra connections or devices.

The standard TM2500 moulding station is fitted with the TM7100 cooling unit, which can be replaced by the TM7030 heating unit as an option.



Technische Daten/Specifications TM2500

Deutsch	Englisch	Bezeichnung
Steuerung	Control	Vipa Compact Commander CC03I
Programmspeicher	programstorage	10 Programme
Vergussdruck min/max	Meltingpressure min/ max.	5- 50 bar
Material Temperaturbereich	Material Temperature range	0-240 °C
Standart Formengröße	standard mould size	H x B x T 120 x 130 x 120
Max. Formgewicht	Max. mould Weight	20 KG /auf Anfrage/ on inquiry
Sonderformaße möglich	special mould sizes possible	auf Anfrage/ on inquiry
Werkzeugtemperierung	Tool tempering	5° - 90 °C
Betriebsspannung AC	operation voltage AC	230 V -50/60Hz
Leistungsaufnahme max	power input max.	400 V 50-60 Hz 13 KW 16 A Abhängig v. Aufschmelzeinheit/ depending on Meltingunit
Eingangsluftdruck min/max	input airpressure min/max	6 bar
Schließkraft pneumatisch	clamping force pneumatic	1500 kg
Gesamtgewicht Maschine	total weight machine	370 kg
Ohne Aufschmelzeinheit	without meltingunit	
Option: TM1000/XX/Dual-Mode	Option: TM1000/XX/Dual-Mode	TM-1000/60/Dual



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