

MW injection[®] 50



Injection molding machine for small and micro parts

MW injection[®] 50 is a new injection molding machine for small and micro parts up to 2 gramme. It has been developed by plastic engineers of the companies CKT Kunststoffverarbeitungstechnik and Ökoplast in cooperation with scientists of the Hochschule Mittweida (University of Applied Sciences).

MW injection[®] 50: basic version

- ✓ Patent-registered diskpack plastication for processing of standard granulates
- ✓ Plunger injection with injection pressure up to 2000 bar
- ✓ Conventional toggle clamping unit
- ✓ Precise process control besides low-end handling and clearly distinguishable visualization
- ✓ Optional driving gear accessories

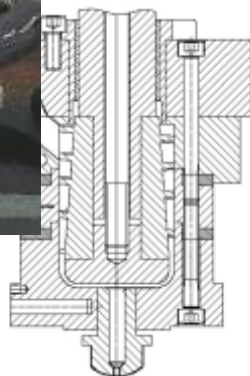


➡ **Low-cost manufacturing of short and large-scale runs**

Diskpack plastication



The diskpack plastication is a combination of screw segment and disc. The granulate will be dosed, preheated and deaerated by the screw segment and afterwards plasticated and homogenized between rotating disc and heated stator ring.

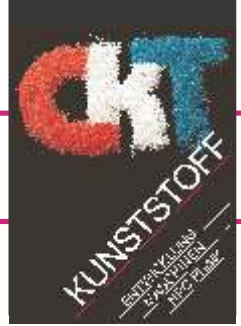


Effects:

- Thermal and mechanical homogenized melting
- Low thermal stress of the melting by reason of short dwell times
- Processing of standard granulates
- Adjustable plasticizing gap enables the processing of all thermoplastic materials
- Plasticizing capacity up to 1 g/s
- Especially suitable for direct coloring



MW injection[®] 50-4

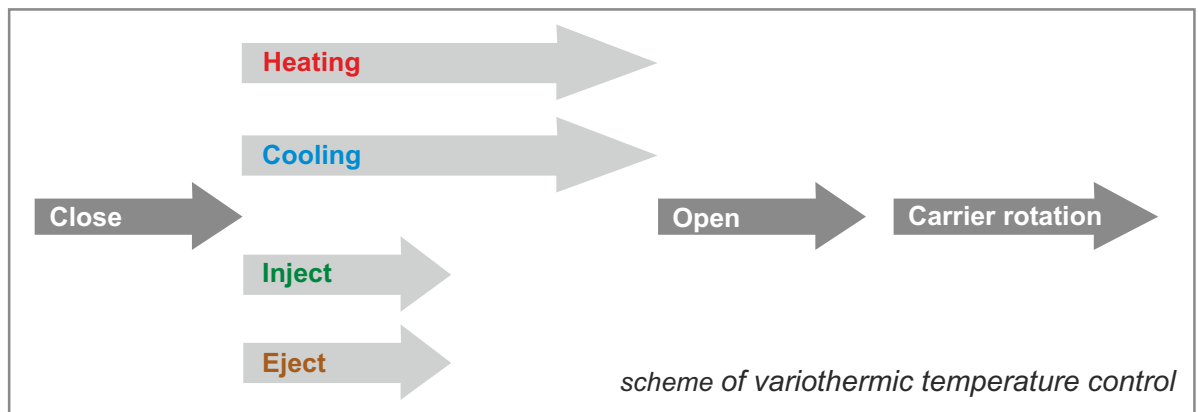


Micro parts with high accurate reproduction of detail

MW injection[®] 50-4: special version

- ✓ Basic construction like MW injection[®] 50
- ✓ Patent-registered procedure for the implementation of variothermic temperature control
- ✓ 4-stations-machine with carrier for workpieces
- ✓ Synchronism of the process stages heating, injection, cooling and ejection
- ✓ Reduction of energy requirements
- ✓ Reduced cycle time in comparison with standard injection molds
- ✓ Use of energy efficient heating and cooling methods
- ✓ Reduction of mold costs – mold only composed of shaping plates
- ✓ Additional stations, e. g. for coating, includable

➡ **Low-cost manufacturing of micro parts with high accurate reproduction of detail**



2K module

With the 2K module standard injection molding machines can be upgraded to multi-component injection molding. It consists a diskpack plastication and a plunger injection unit.

Benefits:

- For shot weights up to 2 g
- Energy efficient melting of tiny quantities of plastic granulate
- Simple installation and disassembly
- Start and stop movement of the nozzle selectable
- In-house developed control unit, combinable with injection molding machine

