

Abstract

A DEVICE FOR INJECTION MOLDING OF PLASTIC MOLDED PARTS

Device for the injection molding of parts made of plastic, comprising an injection molding machine (1) and a corresponding tool (2), where the tool (2) contains at least two cavities (11,12) corresponding to the dimensions of the molded parts to be produced. The tool (2) consists of at least three parts, relatively movable towards each other (4,5,6), in which at least one channel (13) is attached for the supply of molten plastic material. At the parts (4,5,6) of tool (2) is attached a locking mechanism, adjustable between two positions, and which in a first position only the centre part (5) and the front part (4) of the tool (2) with the entry part (14) of the channel (13) and in a second position only the centre part (5) and the back part (6) of the tool (2) are locked with each other. For that is attached at the centre part (5) at least one drive (19) with at least one in direction of the axis of the tool (2) proceeding slide (18), which is adjustable by the drive (19) in two directions opposite to each other in its longitudinal direction between two end positions. At the tool (2) is attached in the area of each separation plane (9,10) respectively at least one clamp device (K), of which respectively one first part at the centre part (5) of the tool (2) is attached, while one with the corresponding first part interacting second part at the front part (4) of the tool (2) and at its back part (6) is attached. In addition there is attached at the front part (4) and at the back part (6) of the tool (2) as second part of the clamp device (K) respectively one in direction of the axis of tool (2) proceeding holder (20,21), which at closed tool (2) protrudes with one end into the respective first part of the clamp device (K) and is equipped at this end with at least one clamp body (R). The slide (18) meshes respectively in one of its end positions for the locking operation of the clamp body (R) with the respective clamp device.

Figure 4