



www.polymertechnology.com

5120 Parkway Drive
Menomonie, WI
(715) 235-1464

Functions of Mold Base Parts

(DETAILED LIST)

Fixed Clamping Plate

Holds The fixed side of the mold to the fixed platen of the injection machine.

Locating Ring

It is used to locate the center of the injection machine so that the sprue bushing and the nozzle are aligned. Commonly fitted into the counter-bore in the fixed clamping plate.

Fixed Cavity Plate

Used to hold the fixed cavity block, leader pin/bushing, and sprue bushing.

Movable Cavity Plate

Used to hold the movable cavity block, leader pin/bushing.

Movable Clamping Plate

Holds The movable side of the mold to the movable platen of the injection machine.

Spacer Block

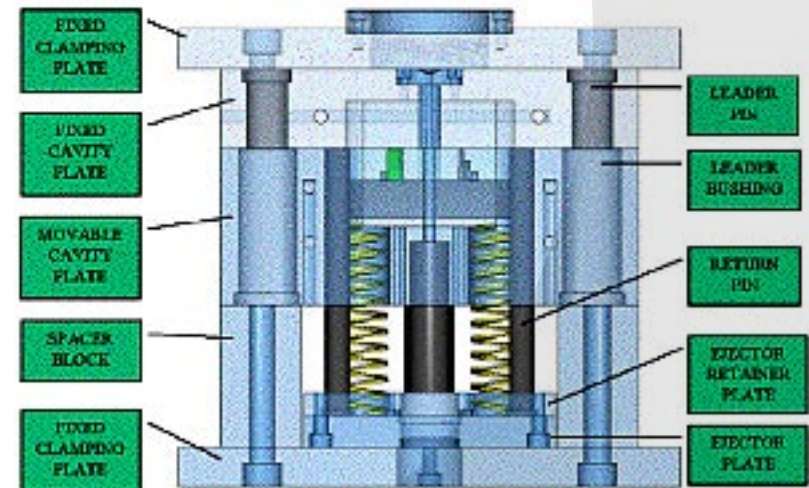
Mounted between the movable clamping plate and the movable cavity plate to give space and allow the ejector plate to move when ejecting the part.

Ejector Retainer Plate

Holds the ejector pins and the return pins in place.

Ejector Plate

Pushes the ejector pins and return pins at the same time. Mounted to the ejector retainer plate to form the ejector unit.





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Support Pillars

Bars placed between the spacer blocks to give additional support to the movable cavity plate.

Sprue Bushing

Has a tapered hole through which the material is forced into the runner. It is butted up against the nozzle of the injection machine.

Return Pins

Same as ejector return pins. Make sure that the ejector unit is back in its original position when the mold closes.

Leader Pins and Bushings

Precisely align the two halves of the mold base (fixed and movable).

Source: www.imoldmaking.com "How To Design A Plastic Injection Mold"

