



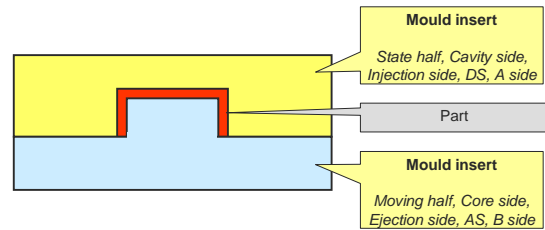
BAGIM1ENNB

Design and manufacturing of plastic injection mould

04 – Mould bases

1

Mould inserts



2

Standard mould elements

- Standard parts
- Finished, but it can be manufactured
- Cost effective
- Make or buy
- Different geometry (dep. on supplier)

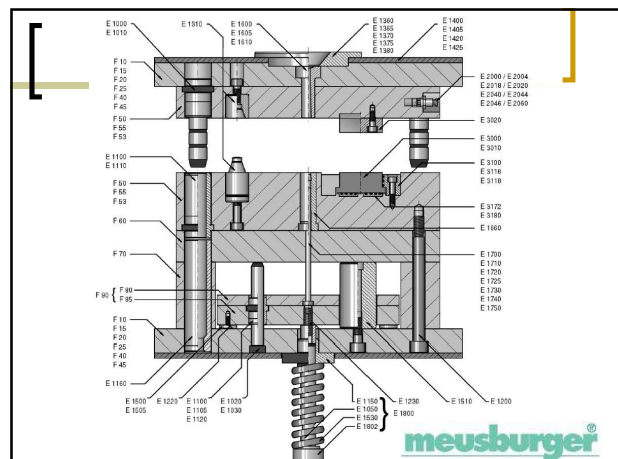
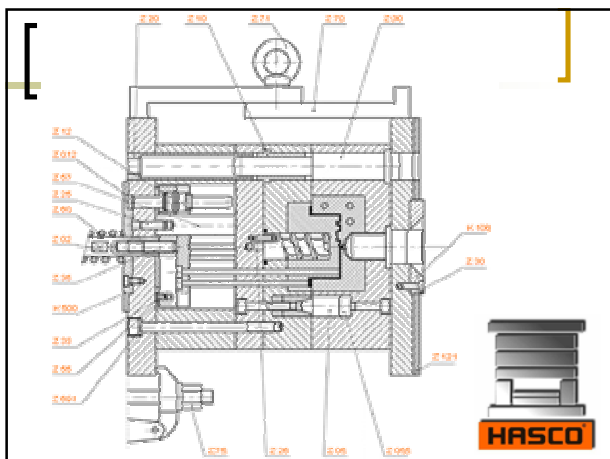


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Suppliers



4

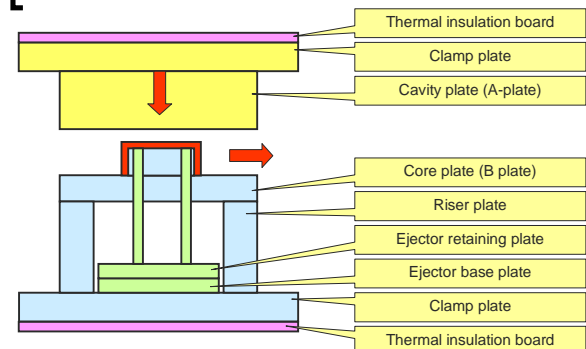


Build up of mould base

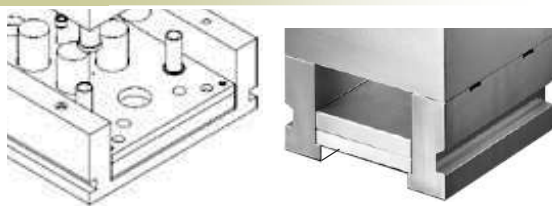
- 2 plates mould base
- 3 plates mould base
 - Support plate
 - Stripper plate
 - Split state half
- Hot runner mould base
- Split mould kit
- Replaceable insert mould base

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2 plates mould base



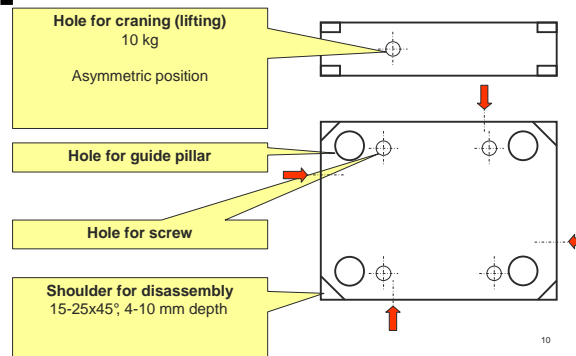
Combined riser and clamp plate



- Less part
- Simple assembly
- Longer manufacturing time

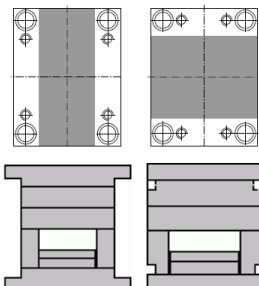
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Mould plates



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Mould plates



Size:
96x96 – 996x996

Requirements:
Hardness, Tensile stress
Accuracy
Surface roughness (grind)

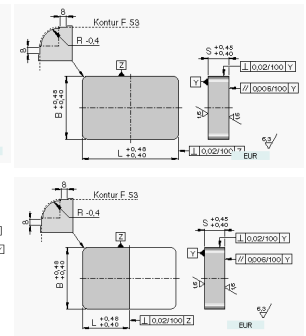
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Round mould plates

S [mm]	d	005	009	013
6				
9				
12				
17				
22				
27				
36				
46				
56				
66				
76				
86				
96				
116				
136				
156				
196				

12

- Inserted
- One piece (solid)

[illegible]

The diagram illustrates a cross-section of a cavity holder plate assembly. A light blue rectangular block represents the main body. Inside this block, there is a pink rectangular area labeled 'Cavity holder plate'. Within the pink area, there is a yellow rectangular block labeled 'Insert'. Two vertical pins are shown passing through the assembly. The pin on the left is labeled 'Straight pin' and passes through the pink area. The pin on the right is labeled 'Screw' and passes through the pink area, the yellow insert, and the light blue block. The screw has a wider base that sits on the yellow insert.

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The diagram shows a cross-section of the assembly. A light blue 'Support plate' is at the bottom. Above it is a pink 'Cavity holder plate (frame)' which contains a smaller pink 'Insert'. The entire assembly is held together by a top layer, also labeled 'Cavity holder plate (frame)'.

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Part

Support plate

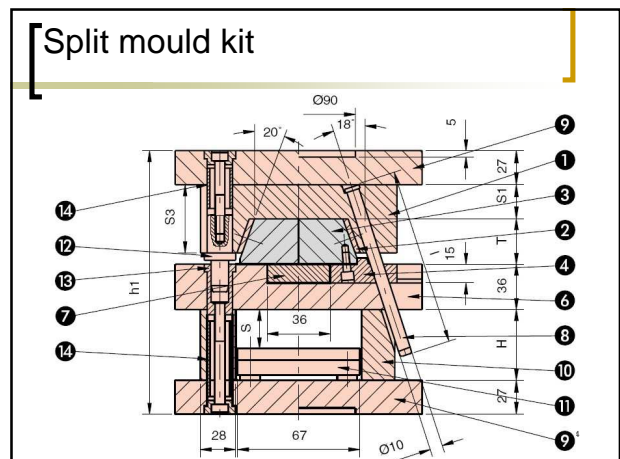
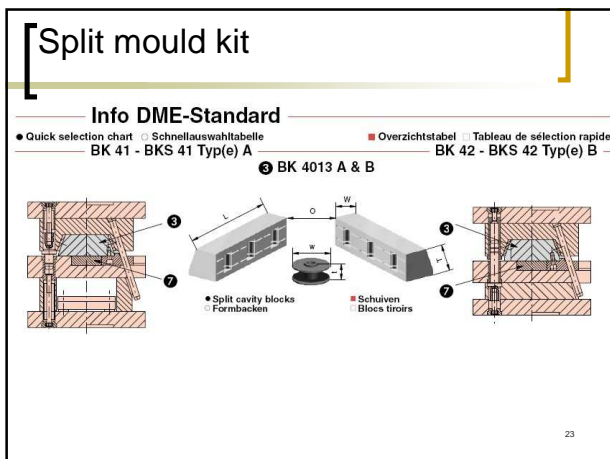
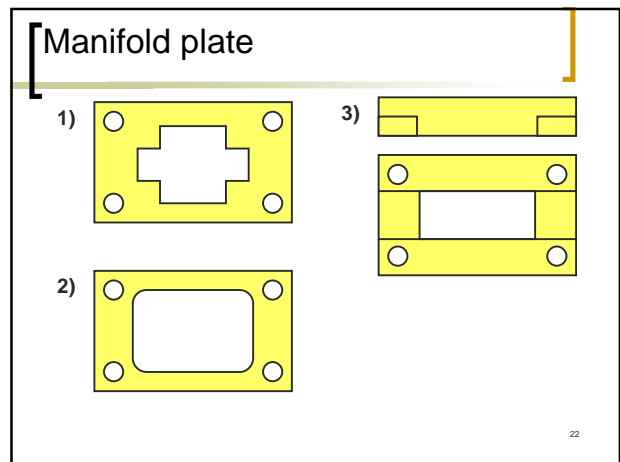
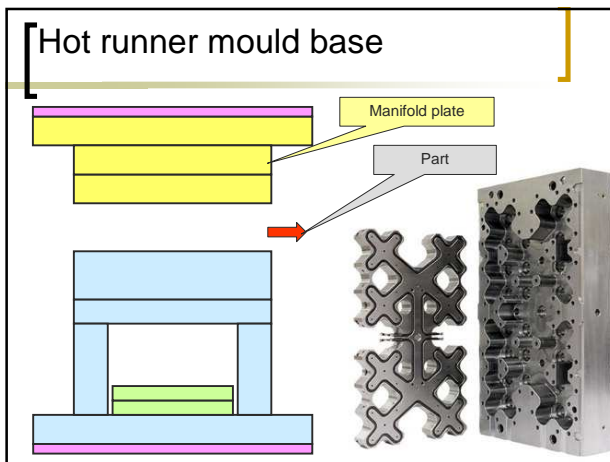
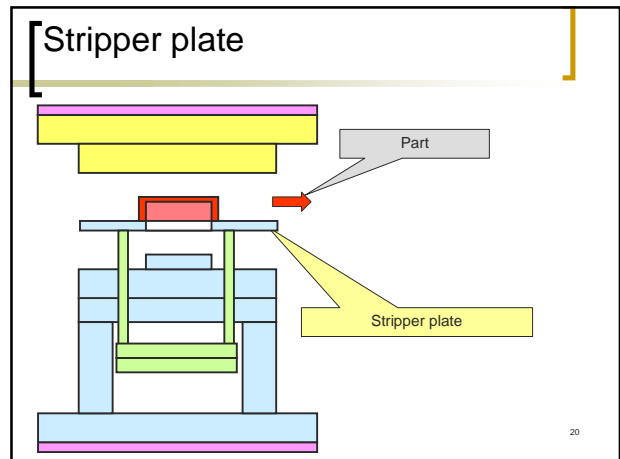
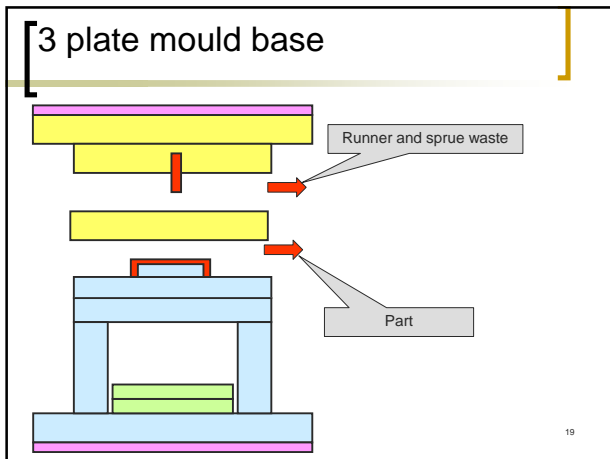
Decrease the deformation

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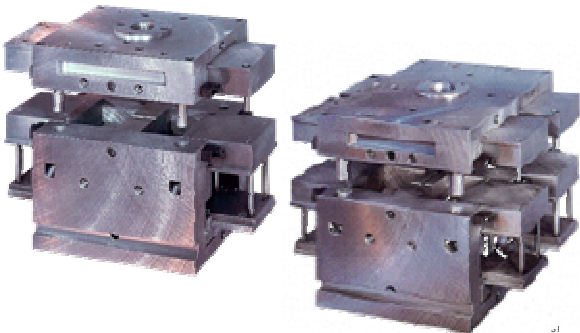
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Anchor to the clamp plate by screw

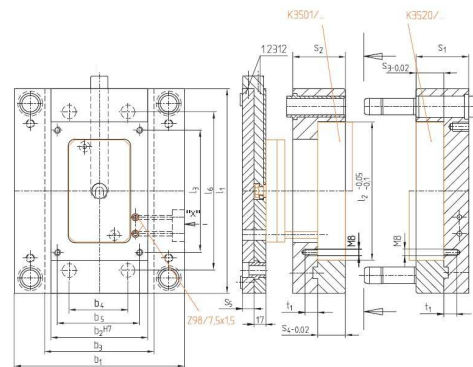
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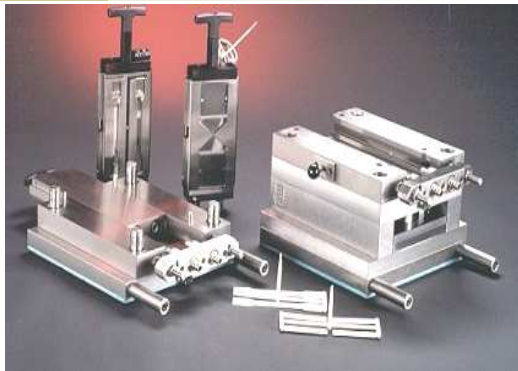
Replaceable insert mould base



Replaceable insert mould base



Replaceable insert mould base



Aluminium proto mould

