

PLASTIC MOULD DESIGN CONTENT

Part I: Design plastic part and structure of plastic mould.

- + Basic role to create the plastic products.
- + Plastic products and their properties.
- + Identifying the kinds of plastic.
- + The plastic mould composition.
- + Plastic mould components and operation principle of those .
- + Basic principle of plastic mould operation.
- + Relation of all components.
- + Practising with the real products.

Part II: Mould design process.

- + The shrinkage of the plastic product based on plastic properties.
- + Analysing the injector gate and the plastic filling time by moldflow software.
- + Analysing and defining the parting line.
- + Creating the parting surface.
- + Creating the Core and the Cavity base on parting surface.
- + Creating the electrode for the mould.
- + Analysing the slider and lifter system.
- + Adding all the components of the plastic mould from the Mould Base toolbox.
- + Analysing and adding the runner system.
- + Analysing and adding the cooling system.
- + Opening status and closing status of the mould.
- + Adding or removing components.
- + Practising with some kinds of plastic products.

Part III: Kinds of plastic mould in common use.

- + Designing the two plates plastic mould with ejection parts support.
- + Designing the two plates plastic mould with ejection plate support.
- + Designing the three plates plastic mould with ejection parts support.

Part IV: Creating detailed drawing.

- + Creating the projection views for the mould.
- + Creating the section views for projection view.
- + Creating detailed view for components.
- + Generating the dimensions for the mould.
- + Adding the symbols and text for 2D drawing of the mould.
- + Creating the balloon for the assembly mould.
- + Creating the BOM for the mould.
- + Redefining the assembly mould and regenerating the 2D drawing.
- + Practising on some assembly mould.

Part V: Consolidation and Examination.

- + Consolidation.
- + Practising on general product.
- + Final examination.