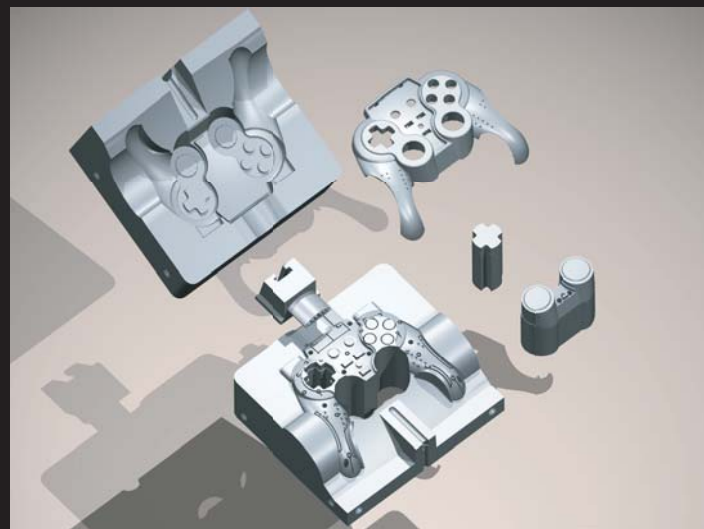




3DQuickMold is a professional plastic mold design solution. It is developed by an engineering team with 15 years in CAD programming and 17 years in plastic mold design industry. To solve very complicated plastic mold design problem is the prime objective of developing 3DQuickMold. 3DQuickMold follows the industrial practices and use the same workflow in mold shops. The ease of use and powerful mold design capabilities have been verified by the early users of 3DQuickMold. With the introduction of 3DQuickMold in the market for less than two years, 3DQuickMold is leading in market acceptance and growth rate in the local market.

3DQuickMold differentiates itself from competitors in the mold splitting functions and the ways it guide mold engineers to complete the design task. Same as SolidWorks® in CAD, it is the best tool for experience mold designers or young engineers who start the plastic mold design career. With its fast and convenient mold design features, it turns the routine plastic mold design job into a working pleasure. The optimized workflow in 3DQuickMold enables young engineers to accelerate their learning curve in plastic mold design. Within a few days of training, engineers can work independently in 3DQuickMold environment to finish their work. In line with the benefits of SolidWorks®, easy to use, easy to learn, and full of features are the characteristics of 3DQuickMold. 3D is the only solution to improve time to market and to reduce errors. 3D is a universal language allowing clear communication and collaboration. The results are superior to 2D die design methods.



Best-in-class



Features

Product Assembly

- ▶ Focus on core/cavity separation
- ▶ Based on new SolidWorks multi-body technology
- ▶ Solid Parting is exclusively used
- ▶ Proficient in very complex core/cavity creation
- ▶ Intuitive workflow, & support of family molds
- ▶ Direct side cores and sub-inserts on parts
- ▶ Automatic pocketing for side cores and sub-inserts
- ▶ Good associativity, & auto update of core/cavity

Layout Manager

- ▶ Quick layout patterns up to 16 cavities
- ▶ Open-GL preview for all patterns
- ▶ Parametric control of layout dimensions
- ▶ Transformation, rotation, and alignment are editable

Mold Base Manager

- ▶ LKM, FUTABA, HASCO, DME, and others
- ▶ 100% SolidWorks' feature modeling
- ▶ Open-GL preview is used for selection
- ▶ All mold base dimensions and positions are editable
- ▶ Additional mold plates to standard mold base

Ejector Manager

- ▶ Support ejector blade, stepped ejector, and ejector sleeve
- ▶ Quick search for the suitable ejector in libraries
- ▶ Auto positioning of mold base
- ▶ Auto trimming of plastic part

Cooling Manager

- ▶ Pattern based cooling path creation
- ▶ Full constrain on position and connection
- ▶ Instant subtraction from core/cavity
- ▶ Machining oriented parametric channel design

Undercut Manager

- ▶ Handle slide and lifter design
- ▶ Intelligent slide creation with minimum manual inputs
- ▶ Direct parameter editing on the screen
- ▶ Flexible combinations to achieve different undercut mechanism

Sub-insert Manager

- ▶ Based on multiple body technology, 70% time saving
- ▶ Quick cut from core/cavity using different approaches
- ▶ Handle drafted sub-inserts
- ▶ Parametric holder design with preview
- ▶ Save individual sub-insert components immediately

Feed Manager

- ▶ Support circle, semi-circle, trapezoid and U-shape runner
- ▶ Support pinpoint gate, side gate, submarine gate and tunnel gate
- ▶ Open-GL preview and parametric design

Electrode Manager

- ▶ Built-in module, no extra cost
- ▶ Quick creation
- ▶ Parametric holder design
- ▶ Automatic assembly creation

Libraries Manager

- ▶ Native SolidWorks models
- ▶ Customizable libraries
- ▶ Quick addition to the mold assembly

Flexible Workflow:

3DQuickMold allows mold designers to choose multiple workflows. User may choose top-down or bottom-up approach. Top-down approach allows user to do core and cavity layout, selection of mold structures, before the mold split operation. It aids the generation of bill of materials and facilitates the early purchase planning in the whole design cycle as a result of 3D parametric design. Bottom-up approach will guide the user to complete the mold split operation before going to the processes of core and cavity layout, and the selection of mold structure. This approach is suitable for very complex mold design. Professional plastic mold design solution should provide automation, allows users to adjust and fine tune to handle new mold design. 3DQuickMold provides this flexibility in different stages during the mold design cycle.

The process for strip layout is very 2D orientated and the 3D is automatically created! The user can utilize Strip Manager to set up the process for which the tool will operate (pierce, notch, form, and bend); then dragging and dropping processes from station to station to redefine the design. The designer is not held back by traditional 3D history limitations and/or long rebuild times.

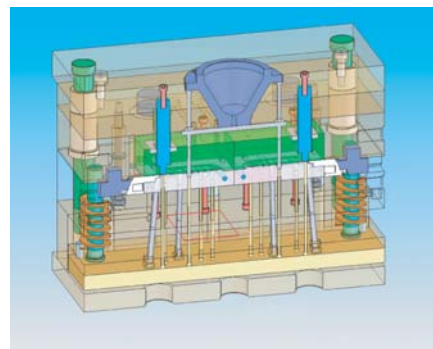
Mold Splitting:

Mold design engineers spend a big ratio of the design time in Splitting Mold. 3DQuickMold combines the experience of mold makers and the powerful modeling functions of SolidWorks® and results a very fast and direct mold split feature in the system.

- Support multiple and/or different parts in single cavity
- Support predefined slides & inserts before the mold splitting
- Support swap parts & automatic updates of mold structure

High performance:

3DQuickMold is capable to handle very complicated and complex mold structures with all the details of mold splits, ejectors, cooling channels, and electrodes without scarifying the performance expectation of plastic mold designers. 3DQuickMold customized the SolidWorks® environment to achieve this optimized result. Field reports showed that the speed of 3DQuickMold in handling complex mold design is equally good or even better than the most popular plastic mold design solution in the high-end CAD markets.



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