



New Features

Easy Workflow +

Surface Parting +

Wizard Style UI +

Standard Libraries +

Non-standard Ejector +

Interference Checking +

Non-standard Moldbase +

Slider and Lifter Wizard +

Powerful Electrode Design +

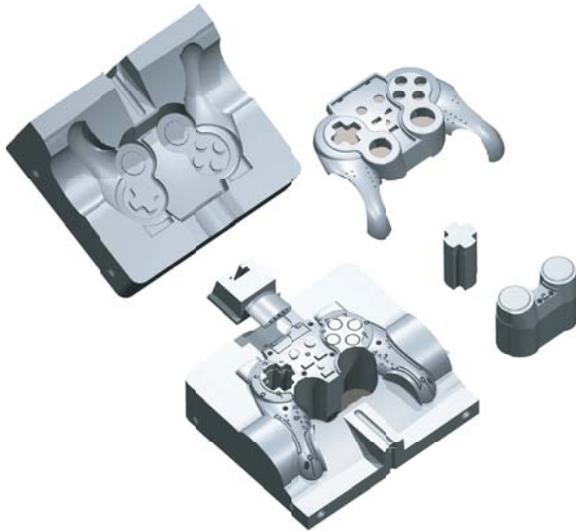
Automatic Insert Pocketing +

Automatic Cooling Channels =

**MOLD DESIGN
SOLUTIONS**

by 3D QuickTools

3DQuickMold is a high-performance mold design program that enables engineers to create and test complex molds within SolidWorks®. As a complete mold-design solution, 3DQuickMold provides advanced modeling capabilities and unique time-saving tools to boost productivity. Containing the richest trade specific functions, mold designers can gain significant design speed to accomplish the most complex mold design projects.



NEW



The new user interface
3DQuickMold is now fully integrated into SolidWorks. Through SolidWorks Command Manager, users can access the commands in various ways or customized their own shortcut keys. Existing 3DQuickMold user may keep using the original toolbar.



Product Assembly

Focus on core/cavity separation
Based on new SolidWorks® multi-body technology
Use Solid Parting to speed core and cavity creation
Create very complex cores/cavities with ease
Support of family and multi-cavity molds
Build side cores and sub-inserts on parts directly
Automate pocketing for side cores and sub-inserts
Mold is fully associated with product model
Cores/cavities update automatically



Layout Manager

Quickly layout multi-cavities w/ runners and gates
Preview all layouts
Control dimensions parametrically
Edit cavity orientation, location and alignment



Mold Base Manager

Use standard mold base or home made
DME, LKM, FUTABA, HASCO and others
User-customizable libraries
SolidWorks features used in all modeling
Open-GL preview is used for selection
Edit all mold base dimensions and positions
Add and remove mold plates to mold base



Ejector Wizard

Supports blade ejectors, stepped ejectors, and ejector sleeves
Quick search for suitable ejector in libraries
Automatically locate holes in all plates



Libraries Manager

Native SolidWorks® models
Customize libraries to meet your standards
Quickly add parts and sub-assemblies to the mold



Cooling Wizard

Create pattern-based cooling paths
Parametrically constrain their position and connection
Instantly subtract from core/cavity and view changes
Design channels oriented for machining



Slide & Lifter Wizards

Simplify and standardize slide and lifter design
Intelligent slide creation with minimum inputs
Edit parameters directly on the screen
Easily release undercuts with adaptable lifter and slide mechanisms



Sub-insert Wizard

Quickly cut sub-inserts from core/cavity using multiple approaches
Easily handle drafted sub-inserts
Parametrically design heels and preview
Save individual sub-insert components immediately



Feed Wizard

Automated creation of full round, half round, trapezoidal and U-shape runners
Supports pinpoint gate, side gate, submarine gate and tunnel gate
Open-GL preview and parametric design

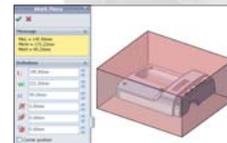


Electrode Wizard

Built-in module, at no extra cost
Create electrode bodies quickly and easily
Quick holder design
Automatically create assembly
Electrode library
Electrode annotation
File management

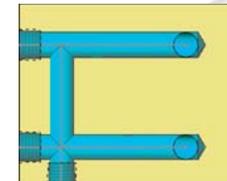
Wizard style user interface

Functions are better grouped.
Users can normally follow the wizard page to complete the design for this particular module.



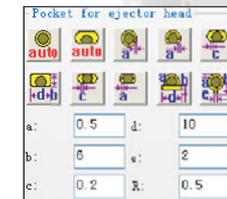
New Parting Functions

New parting mechanism replaced many tedious works with just a few mouse clicks.



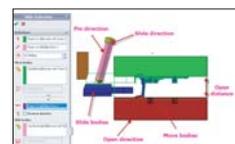
Cooling channel checking

Display distances between cooling channels and the mold core to avoid interference



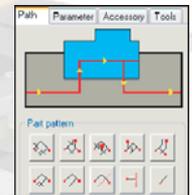
Creating insert & pocketing easier

Both quick and detailed methods to create circular and rectangular insert are ready for user to choose.



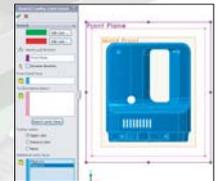
Market standard mold libraries

Full libraries which are synchronized with key mold components suppliers like DME and Hasco.



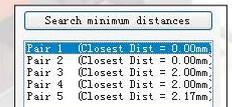
Smart Workpiece Creation

System suggests optimal mold size with preview to users. Users can edit the dimensions at any design stage.



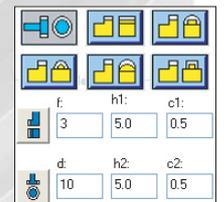
Automatic cooling channels

Wizard based commands provide wide choices to create cooling channels.



Powerful ejector function

Add 10 sets of functions specific for ejector pocketing.



New side core mechanism design

New side core design involves slide design and lifter design with animation functions.

