Design Tools for Complex Mold and Die Design

Data Import

- Native SolidWorks models
- Imported:
 - solid models
 - surface models

Part Properties

- Global dimensions
- Volume, mass, surface area

Draft Angle Analysis

- User-defined pull direction
- User-defined draft angle
- Detection of undercuts and vertical areas
- Automatic undercut elimination

Dynamic Animation

- One direction mold opening
- Multidirectional mold opening
- Unassigned faces
- Slide bar control

Shut-offs

- Telescopic openings
- Complex openings
- 2D planar surface
- 3D complex surface

Parting Line

- Automatic parting line generation
- Grouping of inside and outside parting lines
- Parting line editing
- Manual parting line generation

Parting Surface

- Automatic surface generation
 - 2.5D extrusion with direction control
 - 2.5D extrusion in two directions
 - 3D radiate
- Manual stepwise surface generation
 - 2.5D extrusion with direction control
 - 2.5D extrusion in two directions
 - 3D radiate
 - Sweep
- Control of sharp angle shut-offs
- Compare different parting surfaces

Core/Cavity

- Automatic skin generation
- Skin validity check of forming
- Forming Plate Form
 - rectangular
 - cylindrical
- Automatic creation of associative core/cavity relations
- Updating the core and solid cavity model changes
- Exploded view of mold assembly

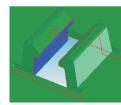


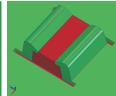
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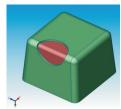
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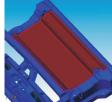
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Telescopic openings

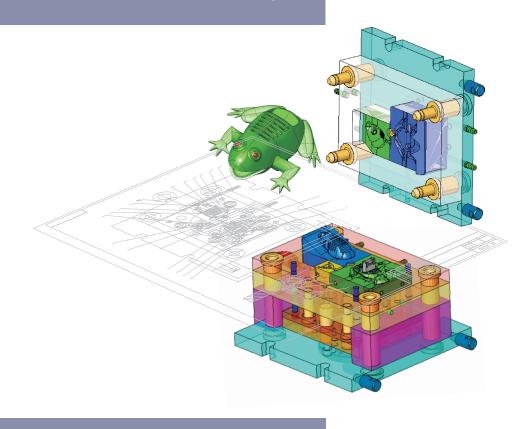




Complex openings

FACEWORKS

Mold and Die Design



FaceWorks provides powerful design tools that automate and simplify the most complex mold design in SolidWorks. It was specifically developed and tested with continuous input from mold designers and manufacturers. Users benefit from standard SolidWorks functions complemented with specialized, easy-to-use tools that simplify the tool-making process dramatically and minimize costs and manufacturing times.

FaceWorks combines solid and surface modeling techniques and provides optimal tools for mold designers. The advanced modeling tools include: creation of cavities, cores, sliders, lifters, and sub-inserts using 3D-solid modeling techniques and associative operations. FaceWorks performs the parting process on solids or skins (set of surfaces that do not form a solid).





FaceWorks Workflow

