Specialized Tools for Complex Mold and Die Design

Data Import

Native SolidWorks models
Imported:

- solid models
- surface models

Part Properties

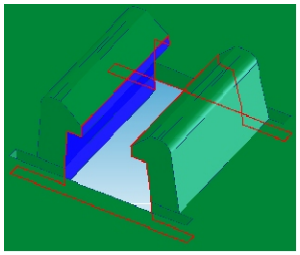
- Global dimensions
- Volume, mass, surface area

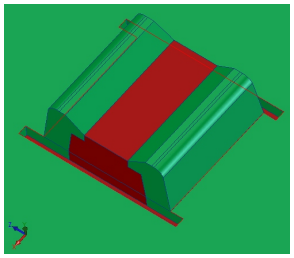
Draft Angle Analysis

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

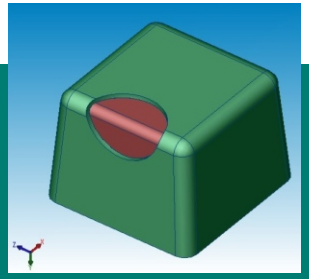
Dynamic Animation

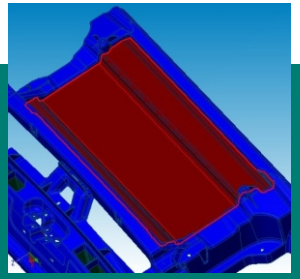
- One direction mold opening
- Multidirectional mold opening
- Unassigned faces
- Slide bar control





Telescopic openings





Complex openings

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

Shutt-offs

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

Core/Cavity

- Automatic skin generation
- Skin validity checkelection of forming plate dimension and form
  - rectangular
  - cylindrical
- Automatic creation of associative relation between model core and cavity
- Updating the core and solid cavity model changes
- Exploded view of mold assembly

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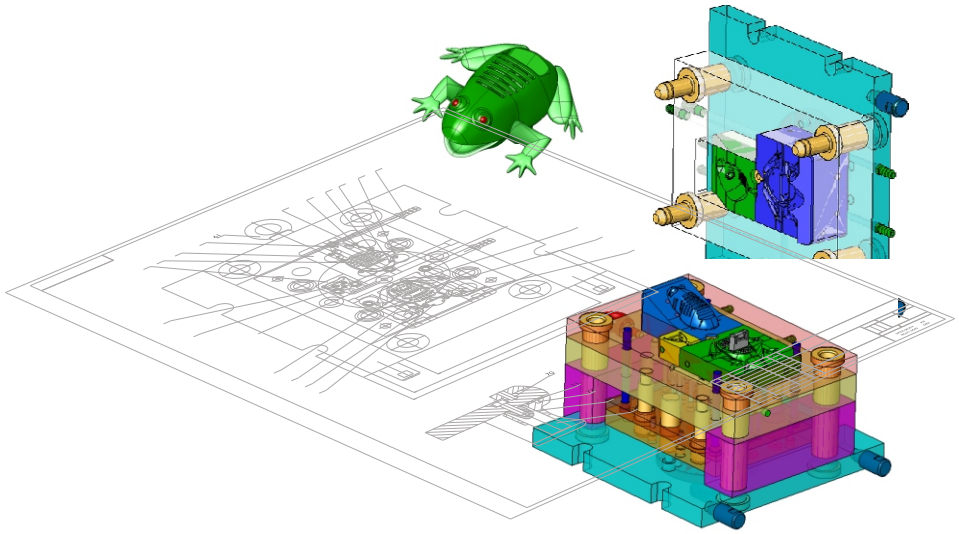
FACEWORKS

For Mold and Die Design 2006

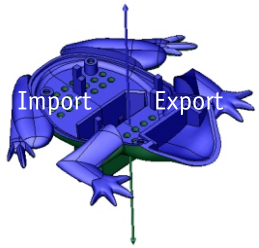
SolidWorks Certified Gold Product

FaceWorks provides powerful design tools that automate and simplify the most complex mould design in SolidWorks. It was specifically developed and tested with continuous input from mould 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 mould 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).

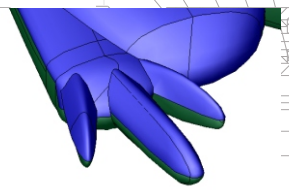


FaceWorks Workflow

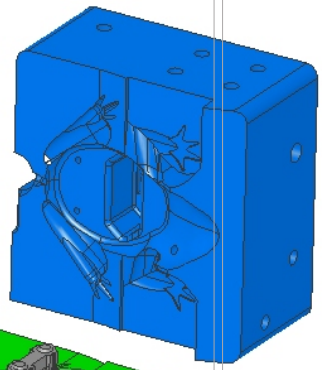
Draft Analysis

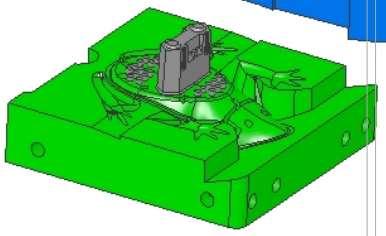


Automatic Undercut Elimination



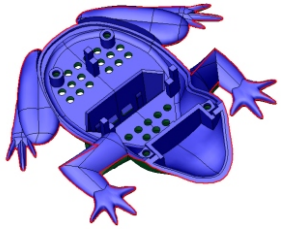
Core/Cavity Generation



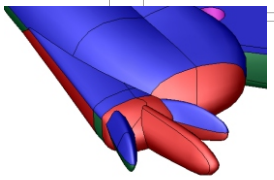


Split Animation

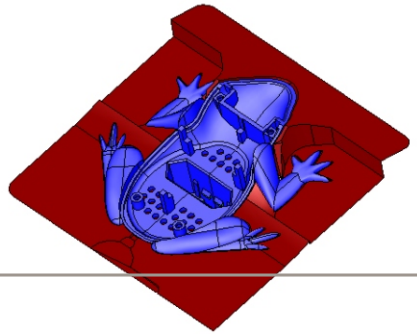
Automatic Parting Line Generation



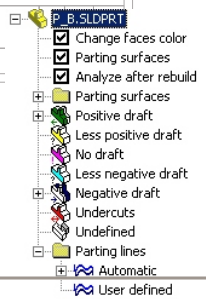
Automatic Undercut Detection



Automatic Parting Surface Generation



Product Manager



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