

CADMOULD®

3D-F SIMULATION



FILL

**BASIC SOFTWARE
FOR THE SIMULATION OF THE INJECTION MOULDING PROCESS**

EXPERT SOFTWARE FOR A PRECISE LAYOUT
OF THE PART FILLING

CADMOULD® GUARANTEE

3D-F Precision

- ✓ EXACT RESULTS
- ✓ AUTOMATIC MESHING
- ✓ FAST CALCULATION

■ BASIC SOFTWARE OF THE EXPERT PRODUCT LINE FOR SIMULATING THE INJECTION MOULDING PROCESS

YOUR EXPERT SOFTWARE FOR PRECISELY ENGINEERING THE PART FILLING

Fill is the basic software of the Cadmould® 3D-F products for experts. The Cadmould® 3D-F product family has been developed successfully for over 25 years in Germany.

Cadmould® 3D-F uses the highly precise 3D-F method especially developed for injection moulding simulation, making Cadmould® 3D-F the superior simulation solution.

THE PERFORMANCE FEATURES OF FILL

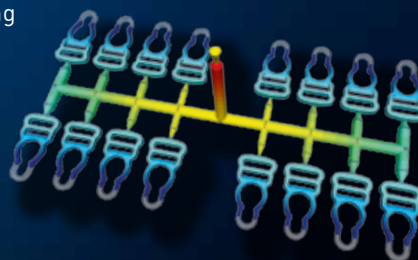
- Calculates the results of the filling phase in detail (filling pattern, pressure distribution, temperatures, flow front velocity, clamping force, forces on sliders, weld lines, air traps etc.)
- Specifies automatically one or several suitable gating positions
- Visualises animated results and 3D cuts
- Simulates hot and cold runner systems
- Balances the gating system in case of multiply gated parts
- Dimensions family and multi cavity moulds
- Varies process parameters using DOE
- Uses profiles for exactly defining the filling phase
- Establishes cooling times and shot volume
- Permits the use of sensors for exactly establishing local results
- Simulates optionally cascadic injection moulding
- Generates automatically individually designable reports

THE FILL BENEFITS

- Optimal design of part filling
- Safe dimensioning of hot and cold runner systems
- Fast comparison of different part and sprue variants
- Reduces mould corrections
- Tests for a plastic suitable design
- Supplies basic data for part and mould cost calculation
- Proven cost and time saving

THE FILL BENEFITS IN THE WORK PROCESS

- Simple import of part and sprue geometries in formats STL and IGES by integrated CAD kernel (further formats available as an option)
- Export of sprue systems as IGES and STL
- Integrated CAD-independent design of sprue systems
- Integrated CAD-independent adaptation of wall thicknesses of moulded parts
- Automatic generation of reports: HTML, MSWord®, MS PowerPoint®



Automatic balancing of runner systems

AREAS OF APPLICATION:

- Precise dimensioning of the sprue and the part filling
- Process optimisation

TYPE OF PRODUCT:

- Basic software of the Cadmould® 3D-F Expert product line, suitable for on Windows® operating systems
- Can be extended anytime to further Cadmould® 3D-F modules