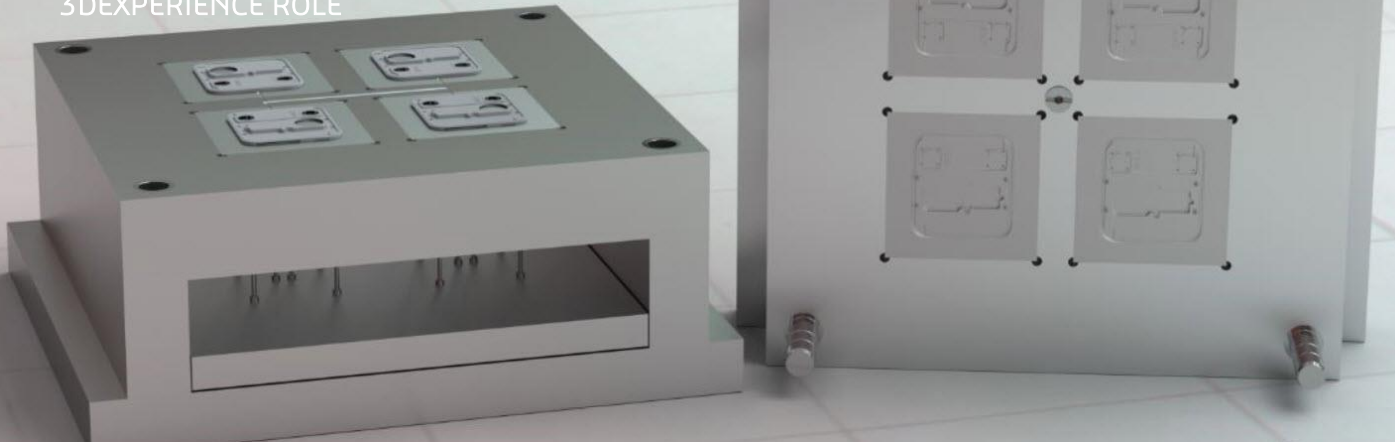


Mold & Tooling Designer

3DEXPERIENCE ROLE



Reduce cost of accurate part production by accelerating injection mold design thanks to dedicated guided assistant for design and simulation

OVERVIEW

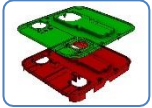
The CATIA Mold and Tooling Designer role enables a flexible and highly-customizable approach from conceptual to detailed mold tooling design. This role enables the user to automate design tasks and assist user decision-making at any step of a complex mold design:

- Quick conceptual design for bidding process including accurate pulling direction and wall thickness analysis, placeholder for ejectors and cooling systems
- Anticipate and check manufacturing compliance with plastic injection simulation integrated in the environment of the mold designer
- Extract parting lines and parting surfaces in dedicated features providing a unique design change automation.
- Re-use complex mechanical systems for earlier kinematics validation
- Re-use company know-how captured in smart components
- Catalogs of standard Moldbase equipped with smart components from most of the mold tooling suppliers
- Seamless 3D Electrode design

Finally the complete integration within the 3DEXPERIENCE Platform allows work concurrently in teams on the same project

KEY CAPABILITIES

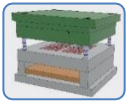
Core and Cavity Separation



Form part preparation and electrode design

- Comprehensive 3D part quality analysis
- Fast rework of geometry defects and manufacturability issues
- Powerful assistants for core & cavity preparation
- High quality process oriented surface capabilities
- Productive design change management
- Easy electrode design and documentation generation

Mold Tooling Design

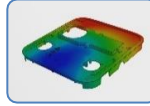


Mold Tool Structure, Systems and Components design

- Process-oriented design approach and collaborative project structure
- Efficient context-driven user interface
- Supplier catalogs with smart tooling components
- Capitalize know-how with custom templates

- Tooling systems templates including kinematics animations
- Flexible mold base configurator with all major supplier mold catalogs

Plastic Filling Simulation



- Simulate the filling phase of the injection molding process for a thermo-plastic part in the context of the mold designer
- Easy design change propagation up to the simulation
- Easy creation of mold injection and cooling definition for plastic mold simulation

CAPABILITIES OF THE 3DEXPERIENCE PLATFORM

- One integrated solution from part design to tooling manufacturing
- Access to Plastic injection accessible in the environment of the mold designer
- Automate design tasks and assist user decision-making
- Anticipate and check manufacturing compliance
- Capture, deploy and re-use company know-how
- Enable collaborative online engineering
- Facilitate & reduce the time of design change from the part to the mold thanks to automatic update

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