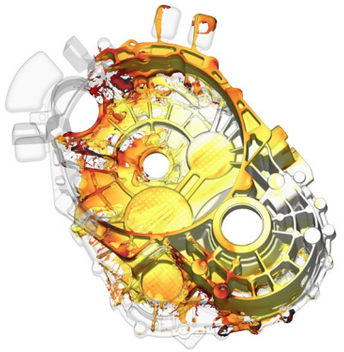
FLOW-3D® CAST

HIGH PRESSURE DIE CASTING

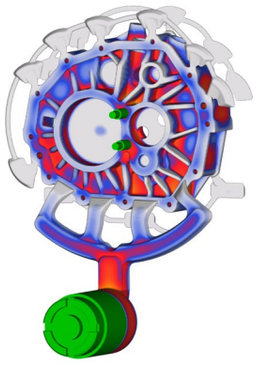
차세대 주조 시뮬레이션 소프트웨어

GENERAL FEATURES

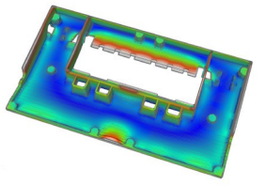
- The most accurate filling simulation tool base on the **TruVOF** and FAVOR™ algorithm
- Advanced solidification model
- Intuitive model setup
- Automatic grid generation
- Event based simulation control
- Moving geometries (ladles and plungers)
- Stress analysis with distortion
- Physical models, including turbulence, PQ^2 analysis, spray cooling, thixotropic viscosity, and surface tension
- Comprehensive defect prediction
- Output of important process variables (velocity, temperature, pressure)
- Additional outputs (flow path, contact times, gas pressure)
- Extensive analysis tools (probes, sampling volume and tracers)
- Advanced particle model
- Complete simulation suite
- Floating license



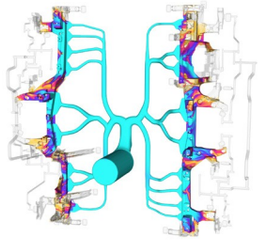
Temperature



Solid Fraction



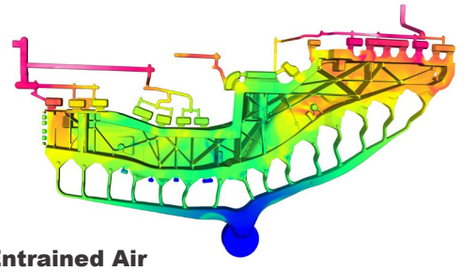
Thermal Stresses



Oxides

ADVANCED DEFECT PREDICTION

- Oxide formation and transportation
- Entrained air, void particles
- Liquid regions, cold run
- Shrink holes, porosities
- Hot spots
- Distortion, hot cracks
- Cavitation



Entrained Air

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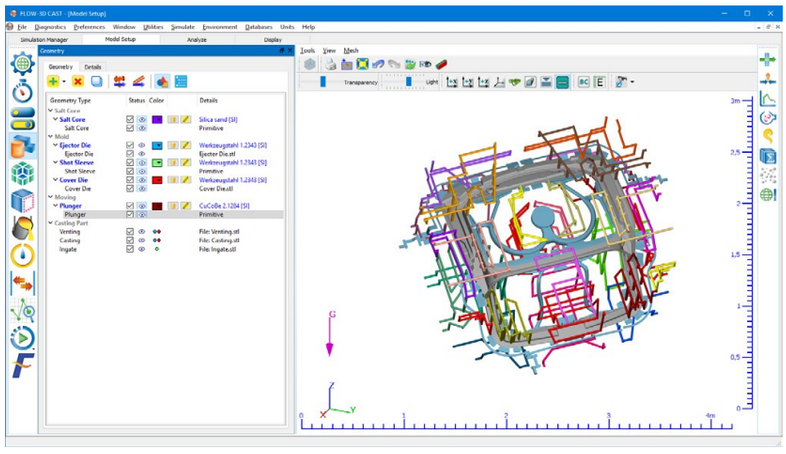
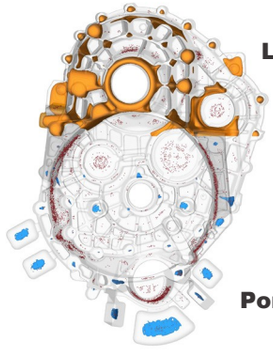
USER INTERFACE

- Process-oriented workspaces
- Comprehensive databases for metals, solids, and HPDC machines
- Interactive object creation
- Project management
- Queueing system
- Configurable simulation monitor
- Remote solving



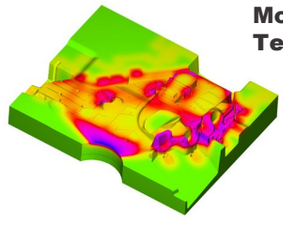
FLOW-3D POST

- Built-in Filters
- Cell Filtering
- Plot Views
- Advanced Animation Options
- Spreadsheet Views
- HPC Support
- Python Calculator
- Comparison Views
- Ray Tracing
- Volume Rendering

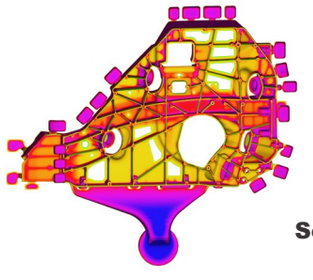


Liquid regions

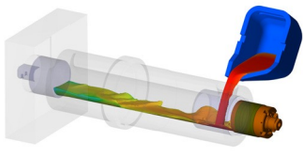
Porosities



Mold Temperature



Solidification



Moving Ladle and Piston

and TruVOF are registered trademarks in the US and other countries.