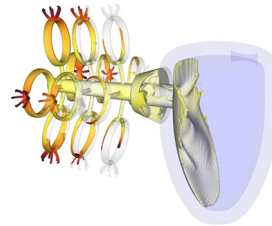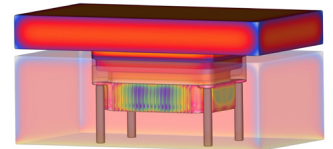# FLOW-3D® CAST

SPECIALIZED PROCESSES

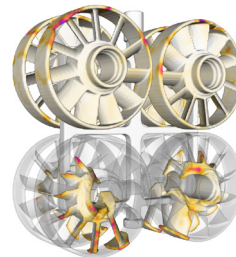The Next Generation of Casting Simulation Software

GENERAL FEATURES

- The most accurate filling simulation tool based on the **TruVOF** and FAVOR™ algorithms
- Advanced solidification model
- Intuitive model setup
- Automatic grid generation
- Event based simulation control
- Moving geometries (plunger, ladle, stopper)
- Stress analysis with distortion
- Physical models includingturbulence, surface tension, moisture, radiation, and non-inertial reference frame
- Output of important process variables (velocity, temperature, pressure)
- Comprehensive defect prediction
- Additional outputs (flow path, contact times, thermal modulus)
- Extensive analysis tools (probes, sampling volumes, tracers)
- Advanced particle model
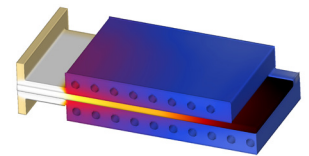- Complete simulation suite
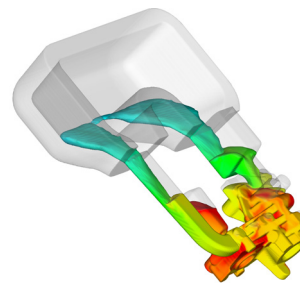- Floating license

Centrifugal Casting
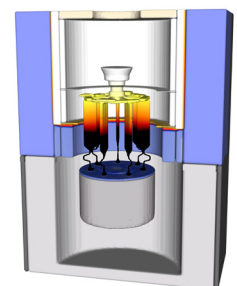
Squeeze Casting

Lost Foam Casting

Continuous Casting

ADVANCED DEFECT PREDICTION

- Surface defects (oxides, slag, residue)
- Entrained air, void particles
- Cold run, not filled cavities
- Liquid regions, hot spots
- Shrink holes, porosities
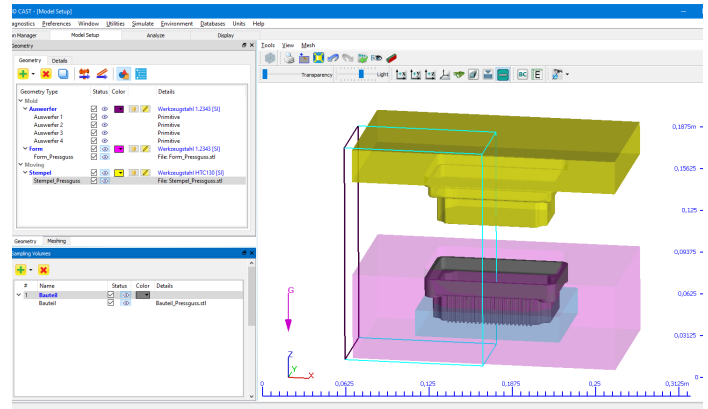- Hot cracks, distortion

Tilt Casting

Investment Casting

FLOW-3D® CAST

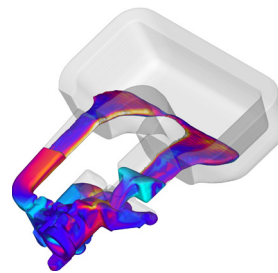The Next Generation of Casting Simulation Software

USER INTERFACE

· Process-oriented workspaces
· Comprehensive databases for metals, feeders, and filters
· Interactive object creation
· Project management
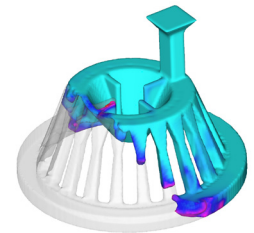· Queueing system
· Configurable simulation monitor

FLOW-3D POST

· Multi-case analysis
· Defect prediction tools
· Multiple objects and viewports
· Particles, vectors, and streamlines
· Volume rendering
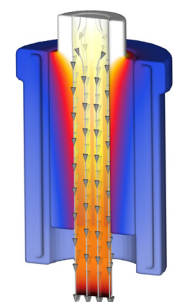· Customizable analysis tools
· Keyframe animations

Tilt Casting

Lost Foam Casting

Centrifugal Casting

Continuous Casting

GLOBAL DISTRIBUTION NETWORK

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