FLOW-3D®
CAST

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, including turbulence, surface tension, and moisture
• Comprehensive defect prediction
• Output of important process variables (velocity, temperature, pressure)
• Additional outputs (flow path, contact times, thermal modulus)
• Extensive analysis tools (probes, sampling volumes, tracers)
• Advanced particle model
• Complete simulation suite
• Floating license

ADVANCED DEFECT PREDICTION
• Surface defects, for example oxides, slag, and residue
• Entrained air, void particles
• Liquid regions, cold run
• Shrink holes, porosities
• Hot spots, hot cracks, distortion

CASTING PROCESSES
• High pressure die casting
• Permanent mold casting
• Sand casting
• Lost foam casting
• Centrifugal casting
• Tilt casting
• Low pressure casting
• Squeeze casting
• Investment casting
• Continuous casting
• Core making

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USER INTERFACE
• Process-oriented workspaces
• Comprehensive databases for metals, feeders, and filters
• 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