

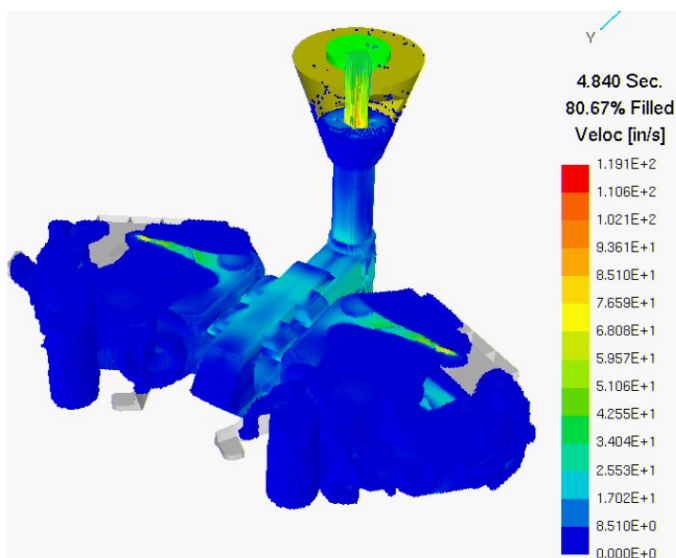
FLOW CAST

FLOW MODELING FOR MOLD FILLING USING COMPUTATIONAL FLUID DYNAMICS

FLOWCast™ is the fluid flow modeling module from Finite Solutions, Inc. **FLOWCast** works with models created by **SOLIDCast™**, showing how metal will move through the gating and fill the mold.

FLOWCast models convection, conduction and radiation, so you can analyze your casting and gating design to predict and minimize flow-related defects such as misruns due to premature solidification, oxide formation due to splashing or excessive velocities during filling.

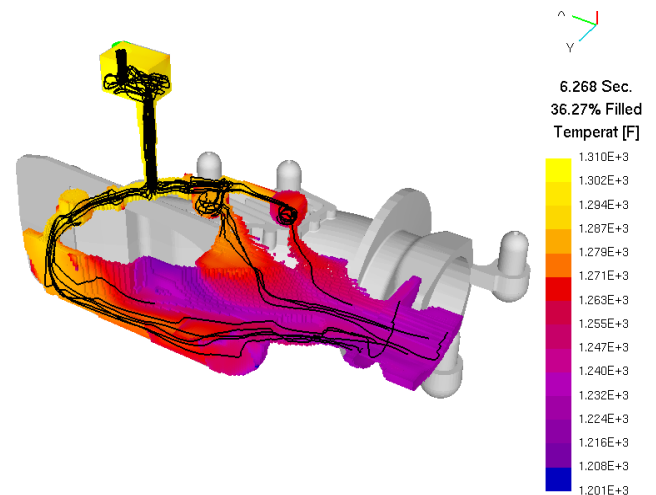
FLOWCast is a **CFD** (Computational Fluid Dynamics) simulation, based on the Navier-Stokes equations for fluid flow. With **FLOWCast**, you can view progressive temperature, velocity and pressure during the fill, from any angle of view.



Metal Velocity Prior to Misrun in two Copper Sand Castings

FLOWCast is integrated with **SOLIDCast** and uses models and meshes created with **SOLIDCast**. Since **SOLIDCast** is the world's easiest-to-use casting

modeling system, flow modeling has never been simpler. Just import your casting model from 3D CAD or build your model using **SOLIDCast** tools, mesh the model, and run **FLOWCast** to simulate mold filling.



Flow Path Tracing in an Aluminum Sand Casting

FLOWCast simulation results can be used in **SOLIDCast** to model the final solidification of the casting, resulting in a completely integrated casting modeling system. Design and analysis of gating and mold filling with **FLOWCast** is as simple as solidification modeling with **SOLIDCast**.

FLOWCast contains many features to visualize filling. Plot/animate filling sequences showing temperature, velocity or pressure. Movies can show real-time filling or played at any desired frame rate. You can add velocity vectors, particle tracers, translucence and more!

FLOWCast is the most cost-effective flow analysis tool available. Site licenses mean you can run it on as many machines as you want at no extra charge.

Software Pricing Options

1) Perpetual Site License (Unlimited Computers at One Location)

One-Time, Up-Front Payment

\$25,000 for **SOLIDCast** (Includes **OPTICast**)

\$15,000 for **FLOWCast**

Software License includes one year of technical support and updates. After the first year, the optional support/update contract fee is \$4000/year for **SOLIDCast** and \$2400/year for **FLOWCast**.

2) Monthly Installment Plan (Site License)

A. 1 Year Payment Option (Includes 2 years of support and updates)

\$7,150 down + \$3,575/month for 11 months for **SOLIDCast** and **FLOWCast**

Or

\$4,470 down + \$2,235/month for 11 months for **SOLIDCast** only

B. 2 Year Payment Option (Includes 3 years of support and updates)

\$4,250 down + \$2,125/month for 23 months for **SOLIDCast** and **FLOWCast**

Or

\$2,650 down + \$1,325/month for 23 months for **SOLIDCast** only

3) Monthly Software 'Rental' (Site License)

Includes technical support and updates but no software ownership

\$1,200/month or \$13,200/year for **SOLIDCast** and **FLOWCast**

\$750/month or \$8,250/year for **SOLIDCast** only



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