SOLID ● CAST

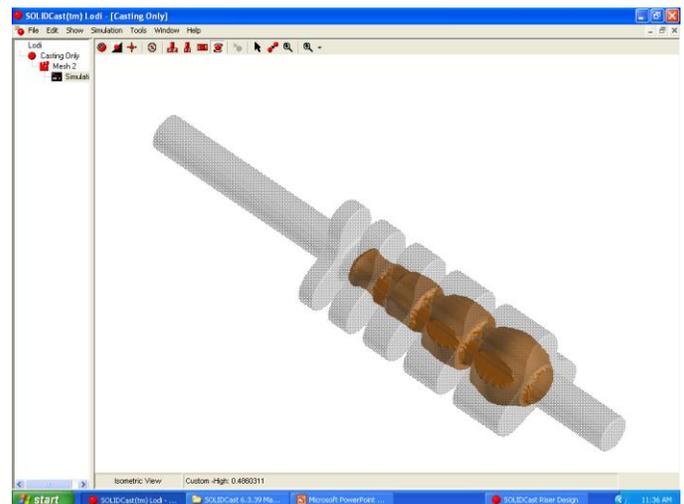## THE WORLD'S MOST POPULAR PC-BASED CASTING SIMULATION SYSTEM

Why do almost 750 companies and schools worldwide use SOLIDCast™? BECAUSE IT WORKS!! No other casting simulation program offers the POWER, EASE OF USE and ACCURACY of SOLIDCast.
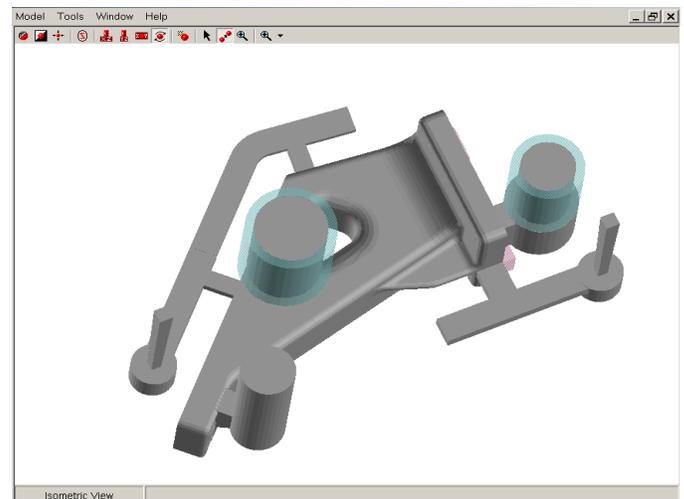
- **SOLIDCast** is the **ONLY** system that is sold as a site license, so you can run it on ALL your computers at no extra cost! This multiplies your simulation results and payback.
- **SOLIDCast** is the **ONLY** system that includes both Gating and Riser Design Wizards, so that simulation actually HELPS you to design an effective rigging system, not just test one! Special calculations are included for rigging gray and ductile iron castings, taking advantage of graphite expansion.
- **SOLIDCast** is the **ONLY** system that simultaneously calculates both thermal and volumetric changes during solidification, producing the most accurate shrinkage analysis available.
- **SOLIDCast** is the **ONLY** system that provides over 15 hours of video-based training with every system. This allows new users to hit the ground running and use the system immediately, even if a live training session is not available.
- **SOLIDCast** is the **ONLY** system that can be fully automated to produce true casting process optimization, using **OPTICast™.**
- **SOLIDCast** is the **ONLY** system that runs full simulations in minutes, on readily-available standard PCs. Multiple analyses can be run simultaneously using off-the-shelf multi-core machines.

SAND CASTING

SOLIDCast has many features to make simulating sand casting a snap. You can create molds, automatically. Chills or sleeves? No problem. Combined thermal and volumetric calculations improve simulation accuracy. You can even predict the expansion phase in gray and ductile irons.
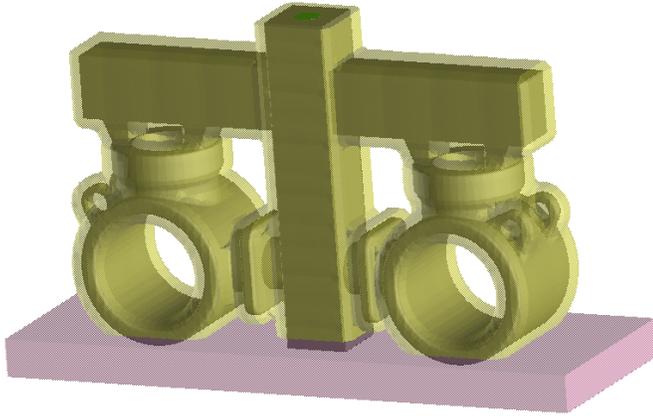

A Single Feeding Zone in a Ductile Iron Casting Analyzed with the Iron Property Calculator and Riser Design Function
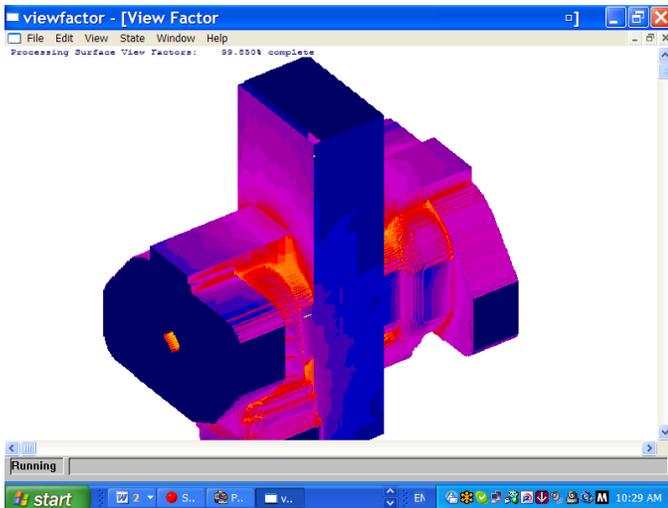

Aluminum Rigging System Designed by the SOLIDCast Gating and Riser Design Wizards

INVESTMENT CASTING

SOLIDCast has many features to make simulating the investment casting process a snap. You can create shells, automatically. Insulating wraps? No problem. And automatic radiation view factor analysis fine tunes simulation accuracy.

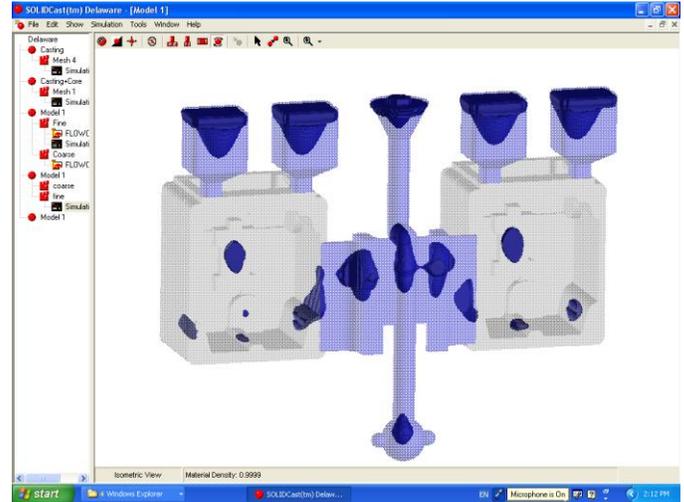**Investment Cast Shell in a Sand Bed**

Radiation View Factor Analysis Automatically Adjusts Heat Transfer on Shell Surfaces
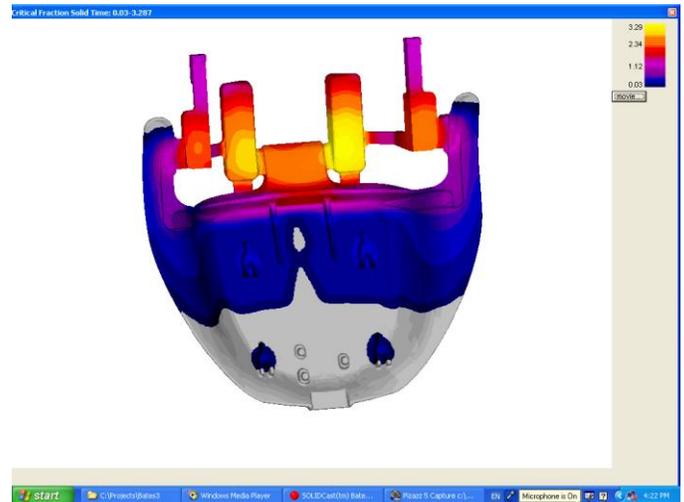

PERMANENT MOLD CASTING

SOLIDCast has many features to make simulating the permanent mold process a snap. You can create dies, automatically. Insulating spray? No problem. And automatic die cycling improves simulation accuracy while boosting simulation speed.

Shrinkage Prediction in a Semi-Permanent Mold

Isolated Sections in a Tilt-Pour Casting

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