Altair Inspire Cast offers complete casting simulation in 5 easy steps through a highly intuitive user experience, catering to beginners and experts alike.

Streamlined Casting Simulation

Fast, Easy, Accurate and Affordable
Using Altair Inspire Cast for casting simulation allows us to quickly perform iterative improvements on our projects, reducing the time necessary to achieve an optimal casting process. This reduction in design time is reflected in the reduction of tooling development costs.

Eder de Sousa  
Industria de Moldes y Matrices

With Altair Inspire Cast, we optimized the mold design and achieved greater reliability for aluminum pressure die casting.

Dionei Concer  
Fabrica Brasileira de Moldes
Simulation-Driven Casting

Complete Casting Process Simulation in 5 Easy Steps

Altair Inspire Cast provides 5 types of casting:
- High Pressure Die Casting
- Low Pressure Die Casting
- Gravity Tilt Pouring
- Investment Casting
- Gravity Sand and Die Casting

Improve Quality
Altair Inspire Cast allows the user to enhance and optimize their manufactured components avoiding typical casting defects such as air entrapment, porosity, cold shuts, etc.
Altair Inspire Cast enables the use of simulation early in the design process, helping users avoid costly iterations between design and production.

Intuitive Component Creation

Additional Components

Core | Chiller | Riser | Sleeve | Overflow | Mold | Cooler
Fast and accurate defect prediction including shrinkage porosity, cold shuts, mold degradation, and more.

Altair Inspire Cast was developed with usability in mind. Save time and money, there is no need to invest in extensive training or expert staff. Get started today and run complex casting simulations in 5 easy steps.
“Altair Inspire Cast is extremely easy to learn, as it guides you through the set-up process. With minimal knowledge of castings, you can generate meaningful data your first day. We use it to quickly evaluate casting for porosity and other defects as part of our quoting process. As we proceed with the projects into production, we use Altair Inspire Cast to help optimize the design and location of gates and runners.”

Steve Fetsko

Altair Inspire Cast Benefits

Beginners as well as expert users can quickly and effectively avoid casting defects such as air entrapment, porosity, cold shuts and more. An innovative, user friendly experience allows simulations to be completed in 5 easy steps with guided templates for most casting processes to help design better products, increase manufacturing quality and profitability with minimal training.

Design Better Products

- Quickly evaluate ‘castability’
- Visualize solidification to optimize ingate location
- Simulate casting with auto-generation of risers
- Guide manufacturing engineers to refine process

Increase Manufacturing Quality and Profitability

- Quickly evaluate casting complexity for quoting
- Predict common casting defects upfront
- Optimize running and feeding systems
- Avoid expensive trial and error

Minimal Training  with Maximum Benefit

By focusing on ease of use and managing all complexities in the background, Altair Inspire Cast eliminates the costly and time consuming training that most other casting simulation software generally requires.

Altair Inspire Cast is available for:

- Windows 10, 8.1, 7
- Chinese
- English
- French
- German
- Italian
- Japanese
- Korean
- Portuguese
- Spanish
- Turkish

Learn more at
solidThinking.com/InspireCast

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