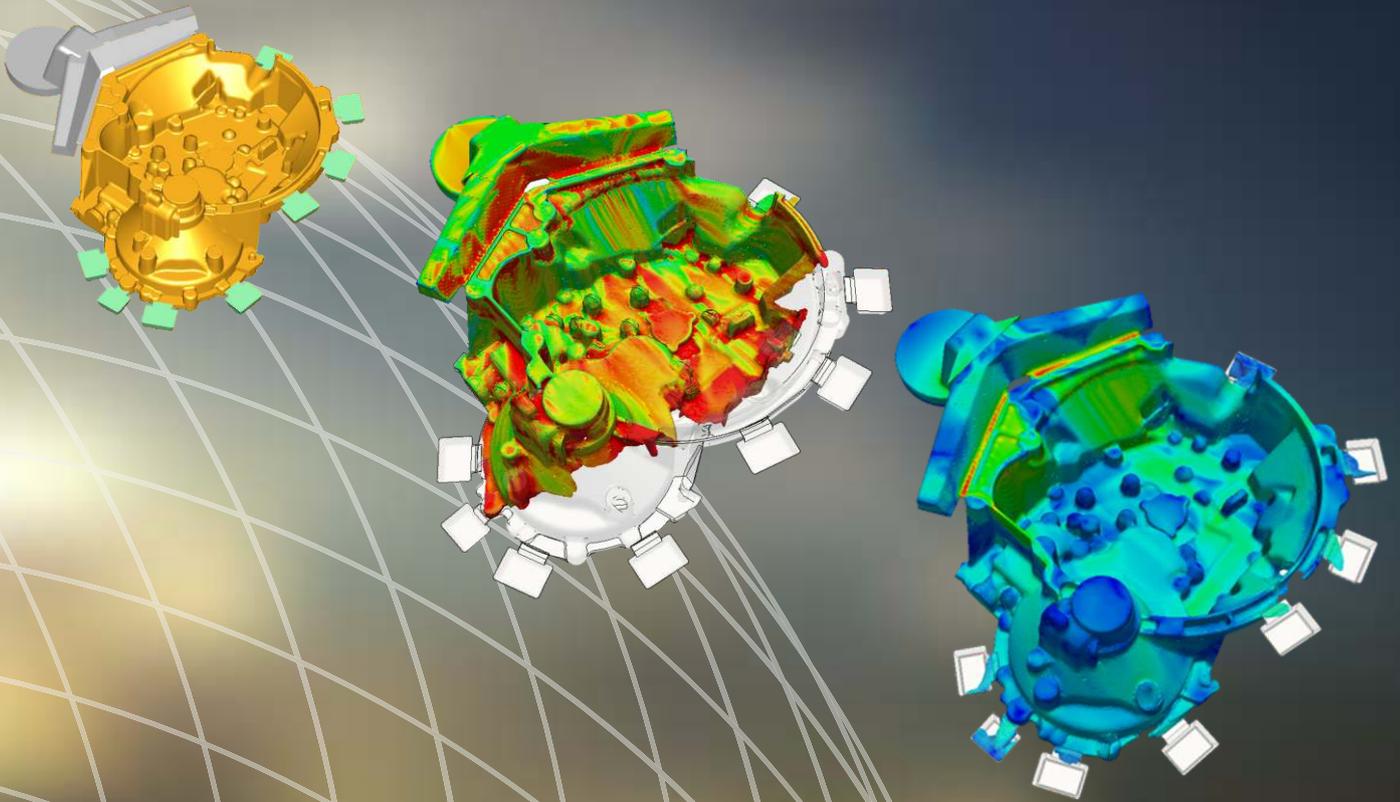


CAST-DESIGNER™ LT

Economic Simulation Solution for casting



Flexible Financial Plan

No Entry Fee: **15 days free trial!**
3 business plans for different license period.

30 Days	6 Months	12 Months
\$599	\$3,600 Only \$3,299	\$7,200 Only \$5,999
BUY NOW	BUY NOW	BUY NOW

Cast-Designer LT is not only a light version of Cast-Designer, but also a new concept developed to increase the usability of numerical simulation for casting business.

Online shopping: <http://shop.c3p-group.com>

Easy to Use

Powerful and Accurate

Economic Solution

CAST-DESIGNER LT CHECK LIST

3D CAD INTERFACE

- General import file type: STL
- Support many CAE mesh format (such as UNV, Ansys, Nastran etc.)

MESH GENERATION

- Fully automatically 3D meshing to generate hexahedron elements, no CAE background required.
- Very fast and robust mesh generation, flexible to control the element size in different direction.
- Online preview of the mesh result.
- Powerful 'Group' function to re-structure the CAD objects, such as re-combine or extract the object(s) from existed CAD components.
- Automatic fix the CAD problems, like intersection, gap, hole and dirty CAD surface.
- Build in coarse mesh technology to catch the tin feature and keep the thin wall with reasonable element numbers
- Automatic layer option to ensure no dead elements during the filling process
- Advance node smoothing and mapping technology to maintain a high quality mesh and with good geometry description
- The 'Catch up fine feature' to enhance the mesh quality for fine geometry feature in a very economic mesh numbers
- Save mesh parameter to data file, and use back in anytime

MODEL SETUP

- One windows page for all object define, interface setup, boundary condition and control parameters, easy to use
- Using template concept, pre-define all the casting process, Simple select and make modification
- Rich material data, select material from database directly
- Material database management tools. One database for both thermal and flow analysis
- Build in wizard for parameter setting, such as HTC, filling velocity, cooling channels etc.
- Rich control parameters. The default value already suitable almost usage but still possible for some special adjustment.
- All conditions and parameters could be saved as CSF template and use back anytime.

SIMULATION SPEED

- 10 minutes for analysis model meshing & setup.
- 1 to 2 hours for a general thermal and fluid flow analysis.
- 0.5 to 1 hour for an engineering report.
- 4 to 5 design concepts could be evaluated in one work day!

MATERIAL DATABASE

- Cast-Designer LT provides material database as standard. It has a material database inside the software package. Initial value for each material is prepared in the database so that required material database is available by clicking the name of the material. Also, it is easy to customize the database as you want, such as adding new material data or changing some value of the existing material.

CASTING PROCESS

- High pressure die casting
- Low pressure die casting
- Sand casting
- Gravity casting with permanent mould
- Investment casting
- ...

ANALYZE & RESULTS

- Perform simulation and result analysis.
- High-end technology with fast simulation speed, rich and accurate result.
- Depend on the model size, the typical simulation time from half hour to two hours for a thermal and flow simulation.
- Using the most powerful tools as post-process – ParaView. It can handle huge model, also with very flexible method for result treatment.
- Flexible plug-in filter for post-process, special customized for casting process.
- One click for filling, solidification and stress analysis result.
- Results in various formats, support animation and VRML.
- Batch animation and various tools for gas entrapment analysis
- Shrinkage porosity analysis, Niyama criteria, SDAS, cooling rate analysis



About Us

With the combination of software development, advanced analysis, extensive product development experience and cost effective local human resources, C3P Engineering Software International Co., Limited provide industry and manufacturing business with comprehensive solutions and engineering services on a global basis to meet their expectation in high quality, on-schedule delivery within cost target. Our business scope covers software development, professional engineering service and application software integration.
For more information, please visit: www.c3p-group.com or www.cast-designer.com

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