

THERCAST[®] by Transvalor

Simulation Software
for Metal Casting



A fully integrated and powerful simulation software that grows with your business. A premium service leveraging 30 years of experience.



THERCAST[®] - A unique software solution

- A multi-process software (ingot casting, continuous casting, foundry casting, ...)
- The most powerful solvers available, allowing a wide range of resolutions with coupling of fluid and solid mechanics, thermal and microstructure (segregation, grain growth, phase change)
- Automatic adaptive re-meshing functionalities to catch every detail of the metal flow and provide the best accuracy
- Easy intuitive graphical user interface for data setup and results analysis
- Linked with the JMatPro[®] software for material properties
- A tutorial based interactive help
- Technical and scientific documentation describing the models implemented into the software



THERCAST[®] - Our competitive advantage

- Quick and natural coupling with FORGE[®] software for 'end-to-end' simulation of forging or rolling processes
- Increase your productivity without any loss of data between the two software



THERCAST[®] - A fully integrated software solution, powerful and scalable

- Unrestricted access to all features of the software simulation templates, modules for pre- and post-processing, databases, optimization, options, etc.)
- Unlimited number of users
- Easy possibility to chain all process phases
- Effective collaborative work (compatibility with job scheduler on Windows HPC or PBS Pro)
- Faster and more accurate results on multi-core machines through efficient computation parallelization
- Possibility to distribute your simulations on different machines: Workstation, Server, Cluster (Windows and Linux)
- Customers pay for the computation capacity they need. As their organization or their simulation usage grows, license cores can be added on the fly
- Free interactive 3D viewer GLview Express, on your laptop or Tablet-PC, to present 3D results generated by the THERCAST[®] postprocessor



A premium service

- Access to all new software functional evolutions and improvements without restrictions through maintenance contract
- Multilingual customer support provided by experts in forming simulations, materials and processes
- Bespoke training sessions delivered at customer facilities, at Transvalor or via web conferences
- Multilingual sales administration (in French, English and German) keeps you informed about the status of your order
- Certified worldwide distribution and support network




TRANSVALOR – 30 years of experience

- Acclaimed expertise in the field of material forming
- Strategic partnership with the renowned material forming research and development center (CEMEF) French School of Mines (Mines ParisTech)
- Partnership-based R&D to address the industrial needs and influence future research
- Worldwide customer base including the major players from the automotive, aeronautic and energy industry, together with prestigious academic institutes

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