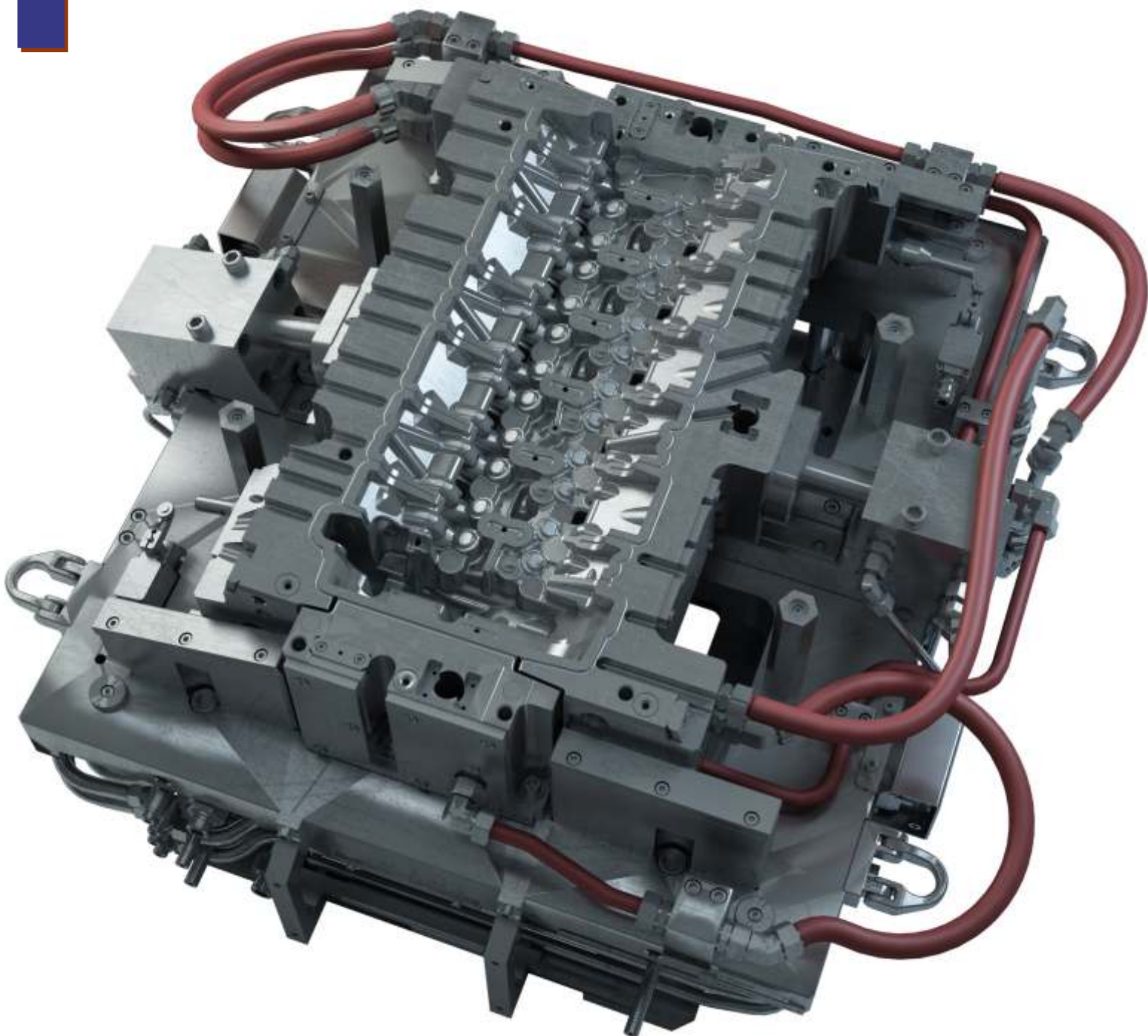




we are



passion



Engineering



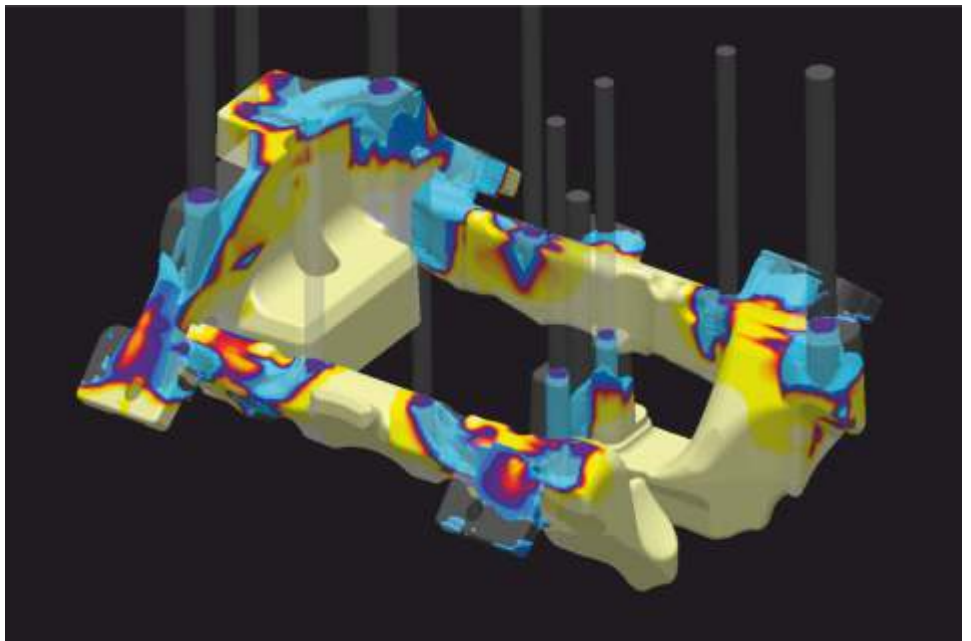
The technical experience developed over more than 50 years of activity brought our engineers to a high level of specialization.

Understanding and meeting customers needs is our priority, in order to contribute to the production process optimization. This means to us project feasibility study and verification of required modifications to be implemented; changes can actually lead to significant improvements during the production in the foundry and during maintenance phases.

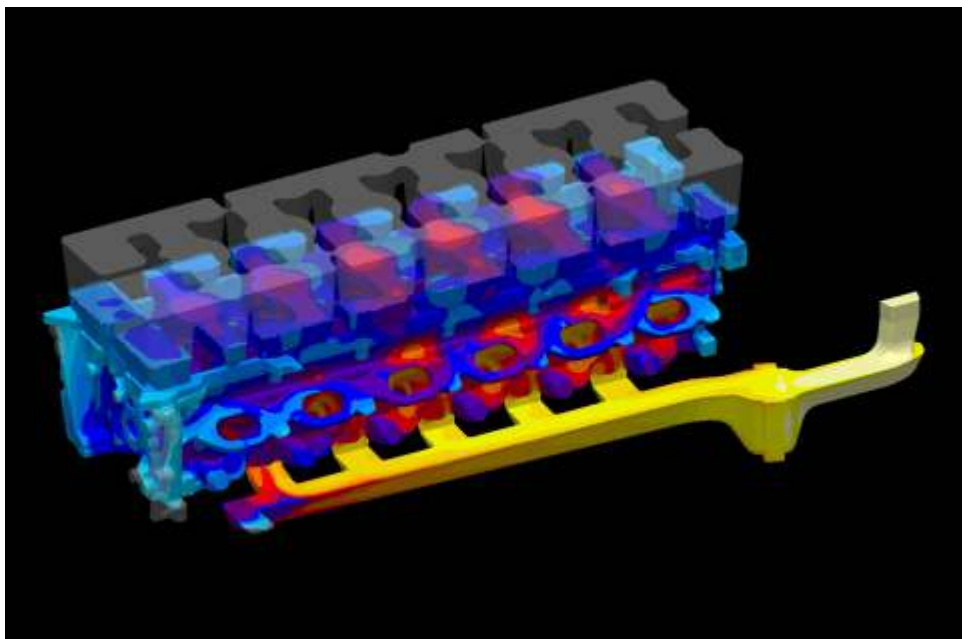
Engineering is done using most widespread 3D systems: Catia, Pro-Engineer and Unigraphics.



Simulation



During the engineering phase, a simulation on core heating / shooting / curing + pouring can be performed using Magmasoft software; it allows to get rapidly to the definition of the final casting compliant to the customer metallurgical standards.



Production



The 3D model is the basis for the whole production process. The CNC machines, all provided with CAM positions, get the 3D model and our production engineers convert it into tool paths through our CAM software. Our tool shop is equipped with 5-axis, high-speed milling machines with a wide field of work. The multi pallet milling machines enable automatic machining, increasing our competitiveness. The cooling and heating circuits of our tooling are machined internally thanks to our deep drilling machine. Assembling is performed by our experienced technicians.



Testing & Sampling



Through ATOS GOM and METROLOG software, the measuring machines compare the 3D model to the manufactured tooling, displaying any tolerance deviation, if any. Dimensional tests are performed during the whole production process. Along with the tooling, the customer is provided with the complete 3D engineering data, related 2D drawings sets and the dimensional inspection reports. This documentation facilitates customer tasks related to product management and especially to maintenance. Modelleria Brambilla can perform cores shooting and casting trials, shortening equipment start-up. Tooling conformity is then further certified by the dimensional test effected on the casted prototypes. Our technicians are willing to attend tooling commissioning at Customer's site.



Inorganic tooling



Modelleria Brambilla is known for its deep competence in designing and manufacturing inorganic process core boxes. As a matter of fact we are proud to be a well established partner of the most important automotive foundries. This innovative process grants not only a low environmental impact and improved conditions of workplaces, but also allows foundries to significantly minimize porosities, to improve castings mechanical features and to reduce maintenance costs.



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