Rotational **Who**

Leading companies of the rotational moulding world

An initiative promoted by IT-RO

BOCA
100% ITALIAN TECHNOLOGY

100% Italian Technology

Profile

Founded in 1971 in response to the growing demand for quality foundry patterns, Boca has continuously developed in terms of personnel, technologies and skills in order to satisfy the increasingly demanding requests of its customers. In the 90s, on the strength of the high know-how built up in the metallurgical and modeling sector, Boca decided to broaden its offer by first entering the sector of production of molds for rotational and thermoforming, then in the design and construction of molds for composites.

Goals

Boca has grown and established itself on the market thanks to its philosophy always aimed at research, continuous improvement, innovation and the quality of its products and services.

An approach strongly desired by the owners and endorsed by all the people who work there, who with their creativity and dedication have contributed and contribute every day to the success of the company. Thanks to its organization, Boca is able to follow the Customer in all its needs from the initial project to the realization of the finished detail.

Quality as a Philosophy

Aluminium Moulds

Boca designs and builds aluminum moulds:
- From fusion
- From CNC reworked casting
- Milled from solid with CNC machines
The aluminum mold is taken care of by Boca starting from the model, built in our modeling department or by our CNC machines, cast in our exclusive foundry up to the final processing done using the latest generation 5-axis machinery.
Every single activity is carried out within Boca by its own qualified personnel, thus guaranteeing high quality and total control of workflows.
All the molds are treated in detail to ensure not only high performance and ease of use, but also their perfect functioning over time.
Every detail is taken care of to respond to the request for maximum productivity. To maximize the functionality of the mold and the yield of the molded product, Boca develops customized requests and can propose cutting-edge solutions resulting from constant technological research.

Attention to details

Steel Moulds

Boca designs and manufactures sheet steel moulds without a limitation on size or complexity, with porosity-free welding and finished with the utmost care. Sheet steel moulds can be used in rotational molding like those made of milled aluminum.
Each individual detail is designed to make the mould simple and guarantee performance over time.
No detail is left untouched on each mould to guarantee not only high performance and ease of use, but also to ensure they work perfectly over time. Each moving part is transported on reinforced steel ferrules, to prevent it from wearing during its life cycle. Brass moving parts are used when greater thermal conductivity or greater resistance are required.
Complex geometric parts or ones with strict dimensional tolerances are manufactured by milling the steel with a numerical control, which is then welded inside it.
Each handle and each standard component is designed to be easily replaced in the event of wear or accidental breakage.
Every detail is taken care of to guarantee maximum productivity.

A Cutting-Edge Company

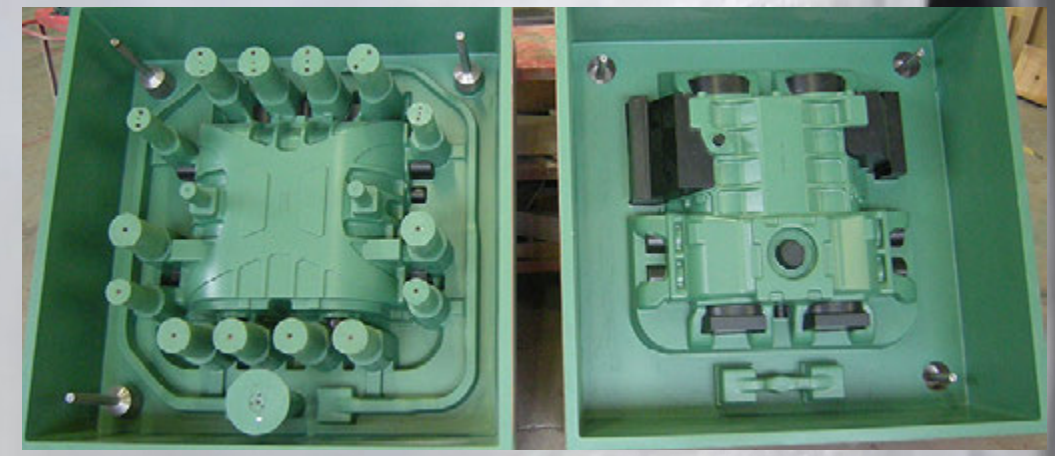
Models

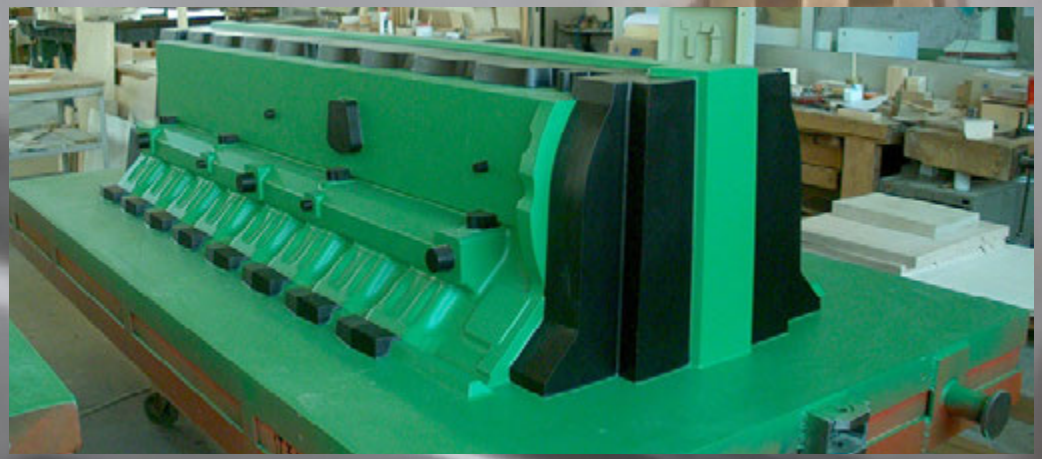
Thanks to the experience of its founders who are still in business and to the qualified staff trained over the years, it can satisfy any traditional prototype work, without constraints on size or complexity.

We work daily with leading companies supplying models for foundries, moulds and models for composites and thermoforming made of wood, resin, polystyrene and aluminium in all shapes and sizes.

The continuous evolution sought by us in this department, enhanced by the possibility of designing from our technical office, allow us to provide high quality products and meet the needs of the most prestigious Italian and foreign companies; all this using the latest machinery and programmes.

The reverse engineering programmes allow us to digitize already implemented products for which no technical data exists, to be able to reconstruct them faithfully or after modifications have been requested.

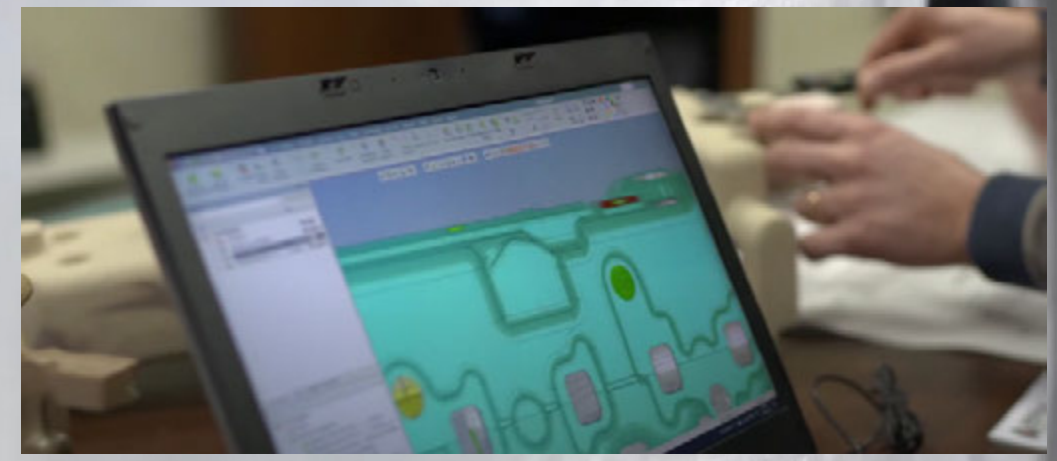


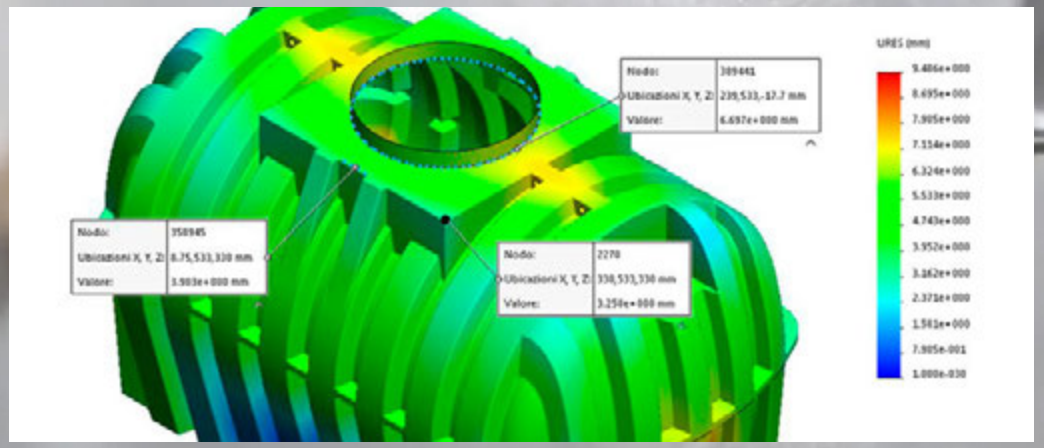


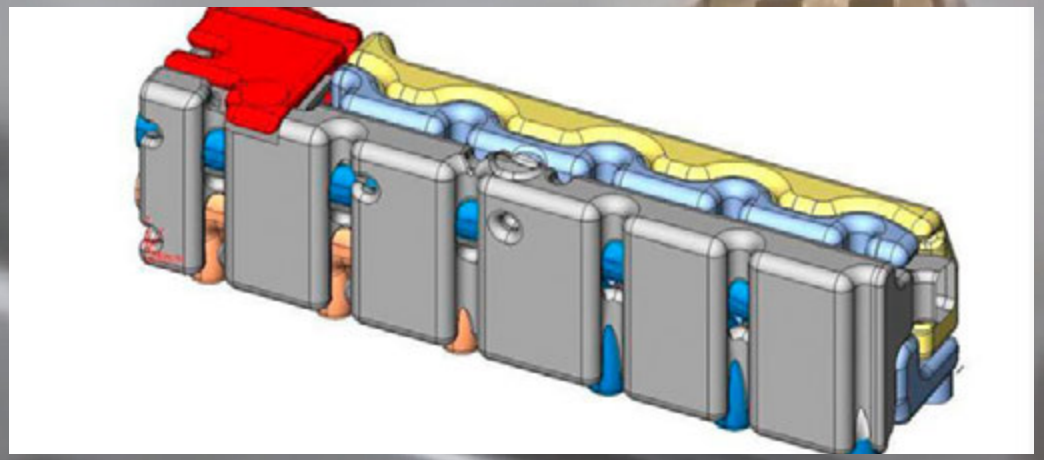
From the Idea to the Final Mould

Design

Boca offers its customers a young and dynamic technical department, supported by expert staff and cutting-edge software programs.
It provides the customer with support throughout the entire product design stage.
The experience BOCA has gained thanks to important partnerships with prestigious companies, together with more than 40 years experience in this sector, makes the technical department very well prepared to study and develop particularly complex equipment.
BOCA can produce high-level projects for the creation of foundry equipment as well as moulds for rotational system, thermoforming or composites of any size or complexity
At BOCA, you can create high-level projects for foundry equipment, as well as moulds for rotational systems, thermoforming or composites of any size or complexity.



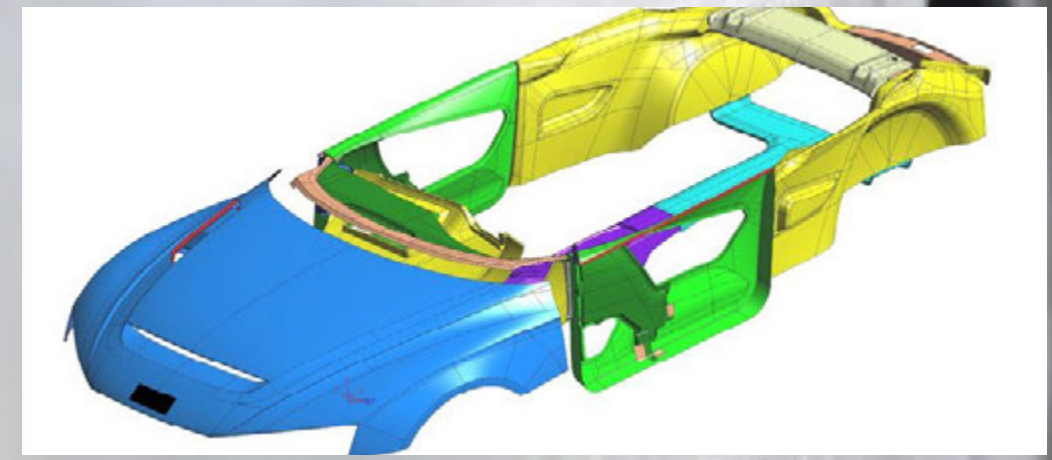


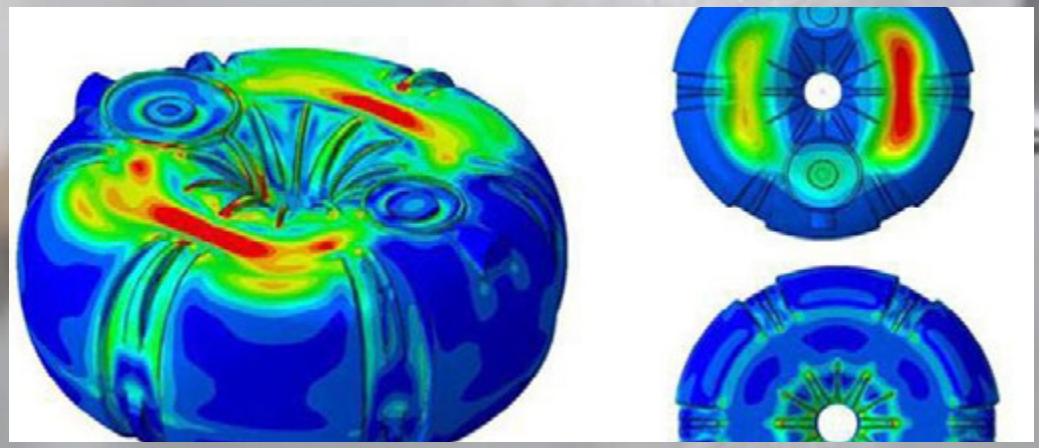


Monitor Processes

Finite Element Analysis (FEM)

We support the customer in the design of products subjected to forces through finite element analysis programs, in order to analyse the behaviour of the product before it is actually implemented, creating linear static, non-linear and buckling analyses
This means the study of the products can be speeded up, minimising the risk of errors or modifications.
The experience gained in the study of plastic materials, the result of experiments and comparisons between experimental calculations and end result, allows us to clearly interpret the results of the analysis and develop targeted solutions.





Modify Moulds

Reverse Engineering

Thanks to cutting-edge photometric instruments, we can perform reverse engineering operations on existing products with no limitation on size
Specific acquisition software means the point cloud (STL) can be reconstructed in a modifiable 3d mathematics, as well as the dimensional control or dimensional deviations of the scanned product with respect to original mathematics