

# Rotational Who

*Leading companies of the rotational moulding world*

An initiative promoted by





# Innovation in the DNA

## Profile

*A reality of worldwide excellence in the design and production of molds and systems for the automotive industry, as well as in the construction of racing and performance cruising yachts. Founded in 1976 by Pierino Persico as a wood modeling firm, the company based in Nembro (BG) has become one of the most internationally appreciated companies in the design and production of molds and turnkey plants for the rotational sector.*

## From the Idea to the Final Product

*Persico provides a complete range of services: from conception to design, from engineering and production of prototypes, models, molds to automation systems for rotational molding.*

*Persico Rotomoulding includes facilities for CAD/CAM design and tooling, modeling, milling and casting. An internal foundry has specialized know-how and machinery dedicated exclusively to rotational moulding. The company also makes use of a vast network of technical and commercial assistance.*





# A Cutting-Edge Company

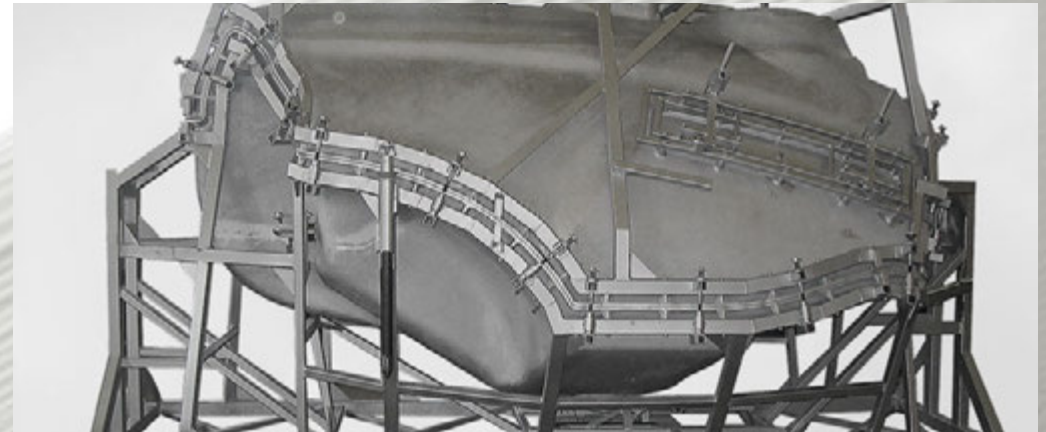
## Automated Processes

*Persico manufactures advanced fully automated rotational molding machines, including electric oil and heat transfer models, in a wide range of sizes. When complex geometric shapes, tight tolerances and process repeatability are required, Leonardo is the ideal solution.*

## Leonardo

*Leonardo is the first machine for rotational molding with a fully automated cycle. It is a compact production chamber, where all operations take place – heating, cooling, loading and unloading.*

*Thanks to a patented technology, the heating and cooling elements are applied directly to a very limited part of the mold surface. Leonardo is the pinnacle of stamping technology. If traditional rotational molding, blow molding and injection molding cannot meet your specific application needs, Leonardo is the ideal choice.*





# Persico CNC Moulds Production

1.

## 5-axis CNC milling

*Persico's 5-axis CNC milling machines produce high-quality moulds in much less time.*



2.

## Shorter Times

*CNC milling means greatly reduced milling and delivery time.*



3.

## Higher Quality

*Higher quality, tighter tolerances and improved aluminum properties for large moulds.*



4.

## High Precision

*Extremely precise flange assembly and internal surface profile.*



5.

## Quality on the Surface

*Better surface finish from aluminum block than cast aluminum.*



6.

## From Cast to CNC

*The greater the complexity, the greater the benefits of CNC-machined moulds compared to cast moulds.*





# Persico Cast Moulds

1.

## Cast Moulds

*A dedicated in-house foundry able to manufacture large high quality aluminum castings for large moulds with simple and/or complex geometry.*



2.

## Large and Small Objects

*Casting molds make it possible to create objects of different scales, large and small, each with its own complexity.*



3.

## Custom Surfaces

*Special effects can be achieved to replicate the look of wood, rock, terracotta and leather.*



4.

## Shape Complexity

*Casting moluds make it possible to create products characterized by considerable complexity in terms of shape and construction details.*



5.

## Differentiated Solutions

*Each product has a different geometry and the cast molds are also capable of reproducing complex and articulated shapes.*



6.

## From the Idea to Mould

*The entire cycle that starts from the conception to the final realization of the mold is completely managed within the companies, in close collaboration with the customer.*





# Persico Leonardo, Automated Cycle

1.

## The first automated cycle

*Leonardo is the first rotomoulding machine with a fully automated cycle.*



2.

## All in One

*Leonardo is a plant that carries out all the phases of the rotational molding process, i.e. heating, cooling, loading and unloading.*



3.

## Efficient Process

*Using a patented technology, the heating and cooling elements are applied directly to a very limited part of the mold surface.*



4.

## Automatic Loading

*The raw material is automatically loaded into the mold. This method offers a number of advantages such as a more precise distribution of the material in the mould.*

5.

## Automated Demoulding

*In the final stage, the part is extracted, again by a fully automated operation.*



6.

## Dall'idea al prodotto

*Leonardo is the pinnacle of moulding technology. If other moulding technologies cannot meet specific application needs, Leonardo is the clear choice*





# Persico Smart, the Innovative Solution

1.

## Great Performance

*Smart is the rotational molding machine that allows you to obtain a wide range of molded objects, which require tight tolerances or complex geometries.*



2.

## Reduced Overall Dimensions

*The molding area is compact and requires minimal production space.*



3.

## Less Manual

*Smart significantly reduces the use of manpower during the preparation, molding and extraction phases of the pieces.*



4.

## Reduced Consumption

*Smart allows you to optimize energy consumption by maximizing the yield in the time spent in the molding.*

5.

## Monitored Process

*Through the use of 42 temperature probes, the entire molding process is monitored allowing the user to safely manage the entire cycle.*

6.

## Minimum Downtime

*Smart significantly reduces downtime and allows you to set up series production with large quantities.*





# Key Factors

## 1. Design and Engineering

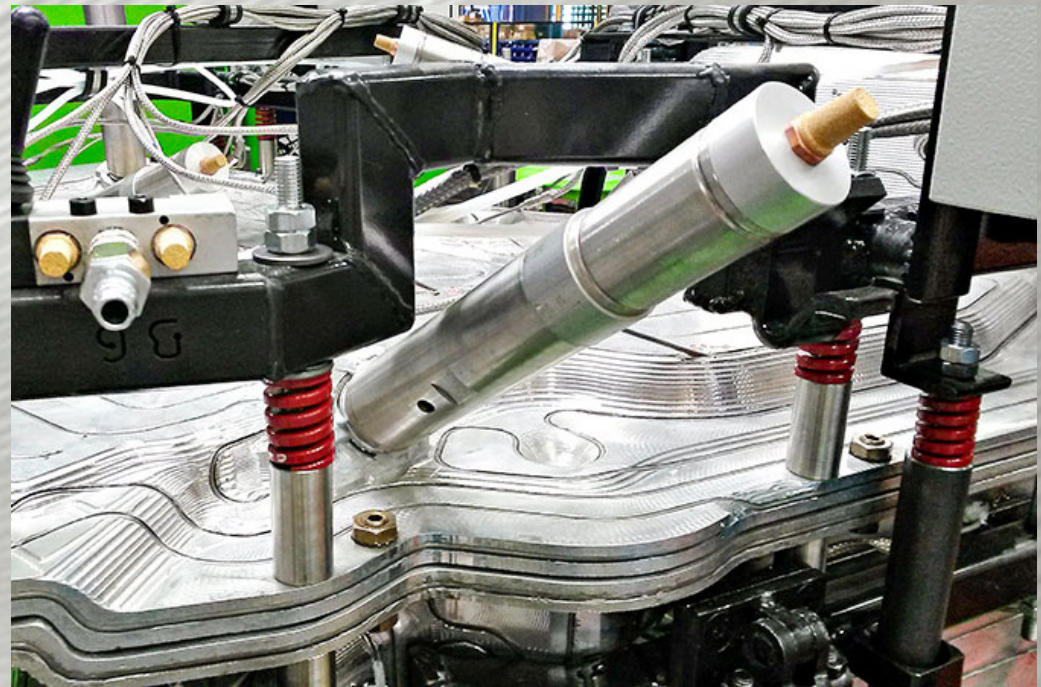
*Persico is a customized integrated solutions provider offering a full range of rotational molding services, including design, co-design and industrialization of final products.*

*We work closely with our rotomolding customers around the world to achieve the most advanced and innovative solutions available on the market. Additionally, newcomers to the rotational molding field will find that we are proud to share our know-how.*

## 2. From the Idea to the Final Product

*We work with all major 3D CAD modeling applications (Omnicaad, Catia, Solid Works, UG and Pro-E) and develop projects using the most convenient package for each client.*

*Design proposals can be used to generate dimensional drawings for modeling purposes or 3D files for direct CNC mold manufacturing. In addition, our engineers can perform static and dynamic fine element analysis (FEA) to test the behavior under load.*





# Key Factors

## 3. Process tests and pre-series

*Rotomoulding can offer its customers sample production runs or pre-production runs on in-house traditional Shuttle 2200 moulders.*

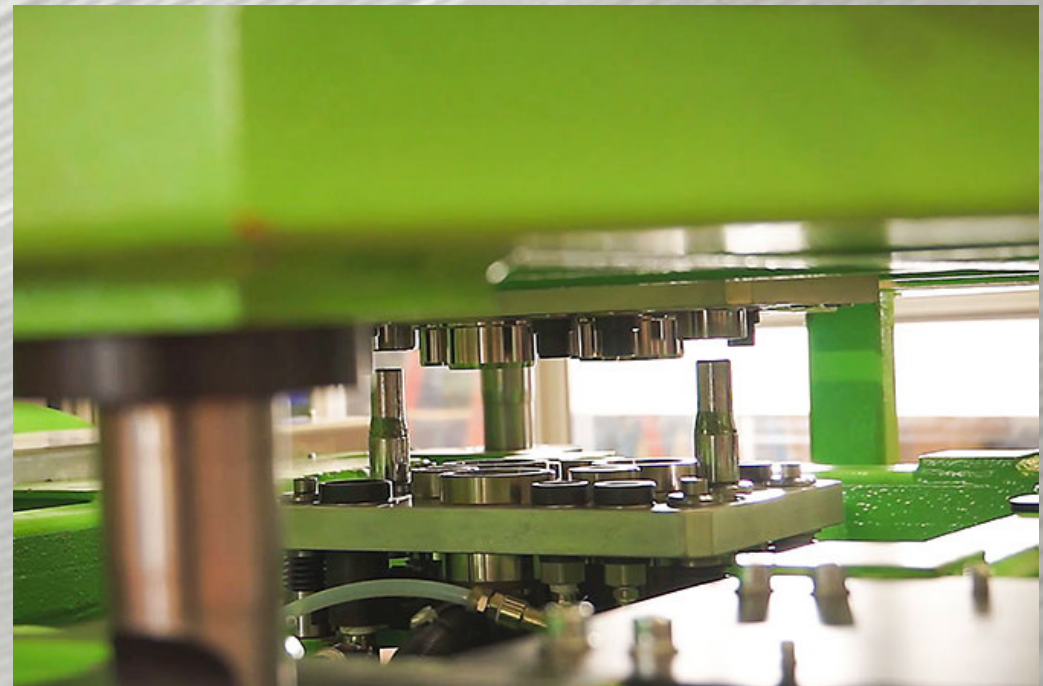
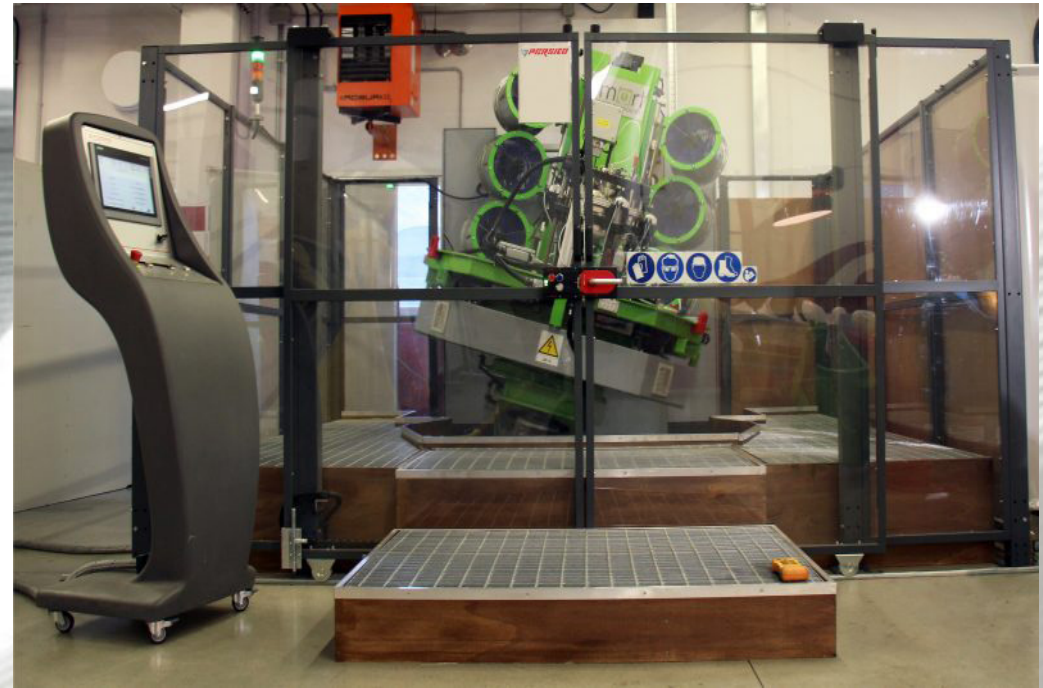
*Persico Rotomoulding is able to offer its customers sample production cycles or pre-production cycles on internal traditional Shuttle 2200 moulders or two different types of Smart automated rotomoulders (with direct heating with diathermic oil or the most innovative electric heating elements).*

## 4. Production Cycle

*In addition, Persico is able to provide turnkey projects, which include not only the mold, but also the development of the molding cycle process and special molded parts.*

*The main advantages of this type of service are the shorter time for mass production and greater assurance of the quality of the project.*

*The advantages for our customers are obvious: they won't have to face production set-up problems, which are very different from the requirements of normal mass production.*





## Key Factors

### 5. After-sales Assistance

*Persico Rotomoulding's long experience in the production of trial and sampling moulds, as well as its continuous research and development, means that customers receive optimal support in managing the molding process.*

*We offer comprehensive after-sales service to make sure your equipment and machinery runs smoothly.*

### 6. Production Cycle

*Our experienced staff of engineers and technicians conduct regular training courses and provide production support.*

*This service is indispensable for newcomers to the sector who need to learn the technology and set up a rotational molding department for the first time.*

*Even expert printers can benefit from Persico's updates on new market trends.*

*The courses can be held both at the Persico site and at the customer's site.*

