



**BRIOMOULD**  
Industrial moulds

Company Profile



[www.briomoulds.com](http://www.briomoulds.com)



## Brio Moulds



### **Design, manufacture, maintenance and reconditioning of HPDC moulds for aluminium and magnesium alloys.**

Excelling in the design, manufacture, maintenance and reconditioning of HPDC moulds for the die casting of aluminium and magnesium alloys since 1997.

For two generations an absolute commitment to ensure that every single mould is produced perfectly.

Passion, flexibility and craftsmanship are the driving force behind the consolidated growth started out as a local enterprise to becoming a recognized partner in the automotive sector.

Excellent track record in the production of moulds for all industrial applications.

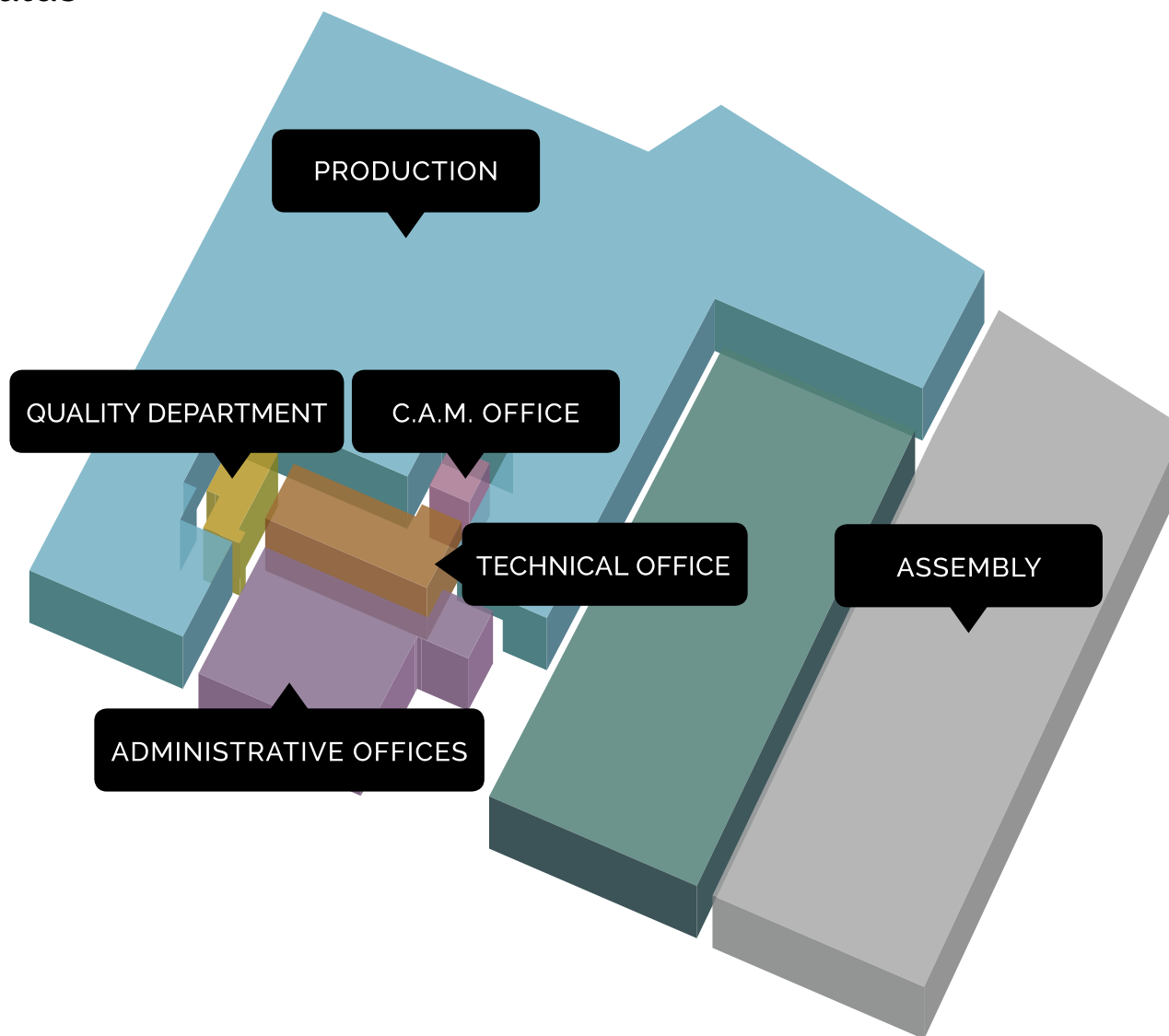
Providing technical support as well as detailed, accurate and prompt quotations.

Partnership and quality relationship to provide solutions satisfying customers' manufacturing requirements.

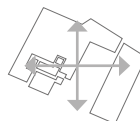
Constant increase of investments in order to achieve the highest production standards.



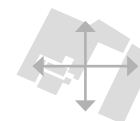
## Brio Moulds



Number of employees  
**45 employees**



Total area  
**8.000 smq**



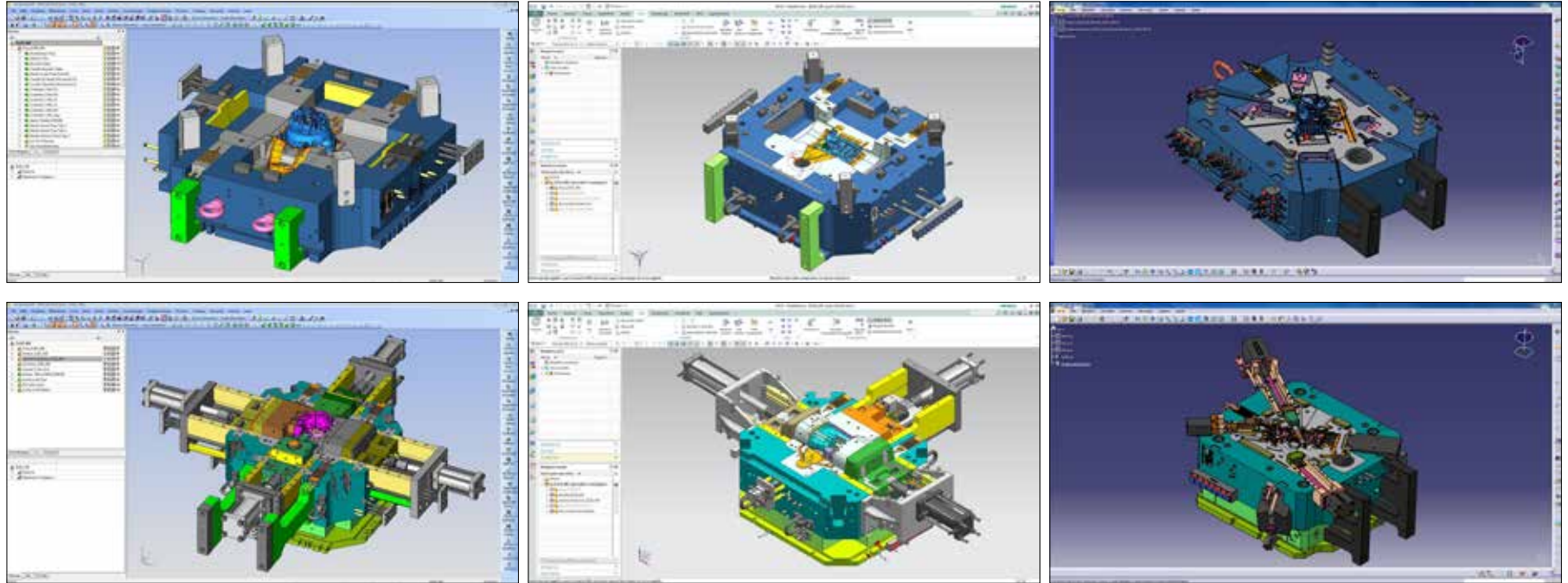
Covered area  
**5.000 smq**



## Technical Office



Design quality, from conception to the perfect casting.  
Consultancy and feasibility check of the mould design.  
Consultancy to improve the performance of the die-casting moulds.  
Analysis and development of the customer's original concept.  
Constant updating and technical training.  
Design and production in accordance with key international standards and customer specifications.  
Professionalism, specialist knowledge and technical know-how.



Design carried out by means the best sector-specific software.

Complete detailed 3D design of each component.

Design developed in conjunction with the customer.

Continuous research and innovation of the best CAD technology.

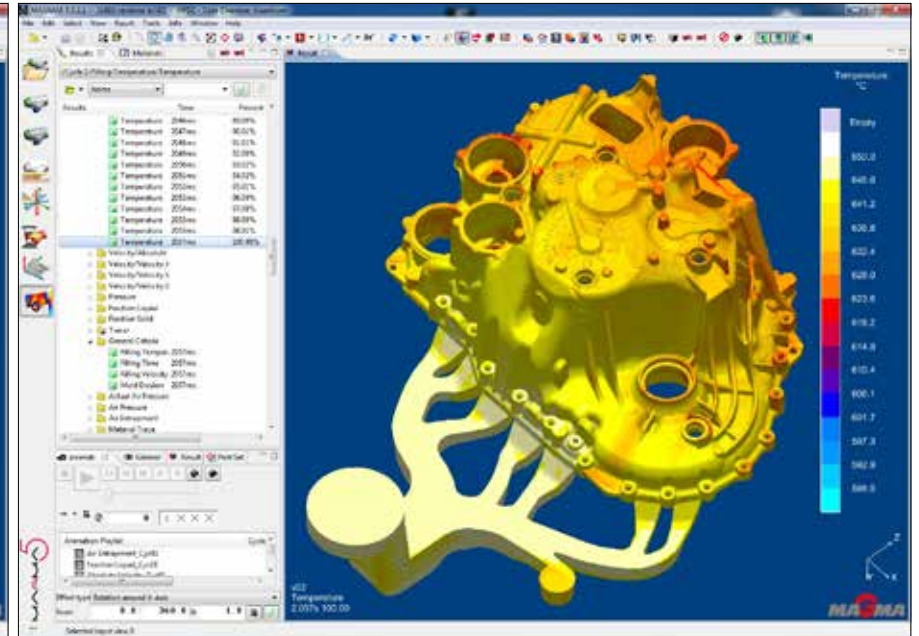
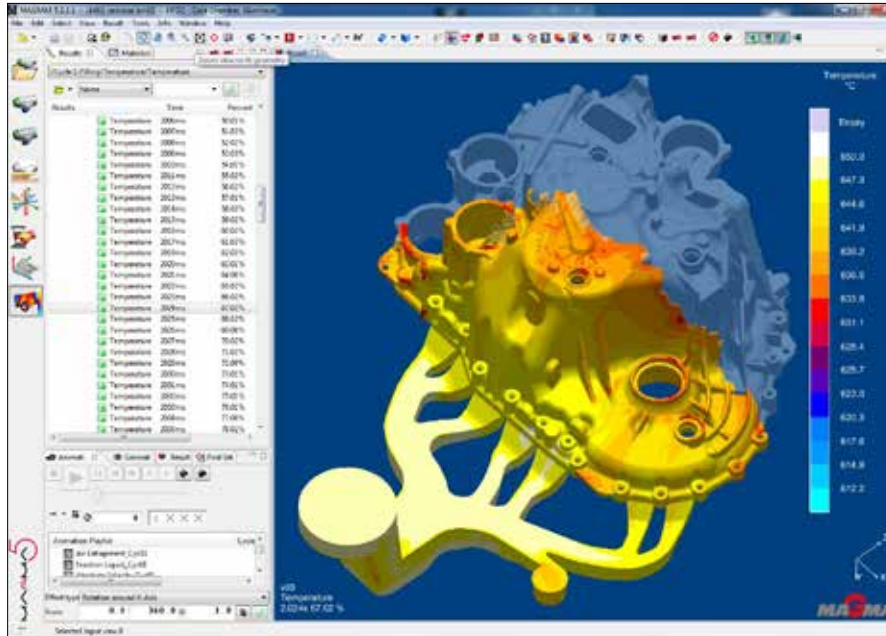
Mould booklet provided on delivery consisting of all the necessary documents, detailed 2D designs, equipment diagrams and mapping.







## Technical Office | Die casting simulation

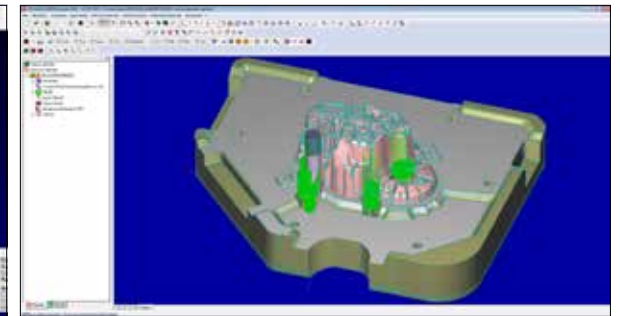
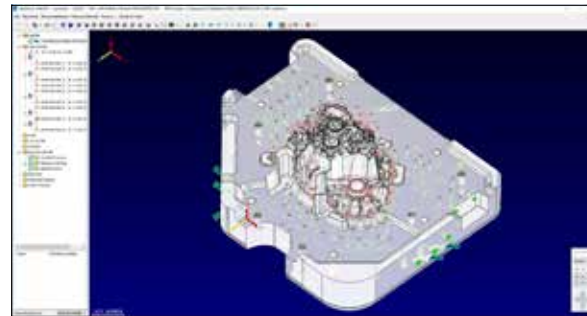
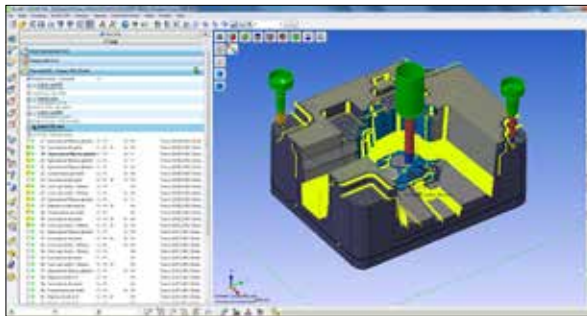


Casting simulation to obtain the correct sizing of gating system and the correct filling of cavities, till achieve the best die casting performances, engineered in house using MAGMASOFT® simulation software.  
Complete test of the die casting cycle to check solidification, thermal stresses, casting defects and distortions.





## C.A.M. Office



Efficient toolpaths for machining centers to achieve maximum performances and high quality surface finishing.  
Accurate milling processes developed to prevent mechanical damage of steel during thermal processing.



## Production



Mould production for die casting aluminium and magnesium for presses up to 4,500 tonnes.  
High-quality production of components and parts for high-performance hard-wearing moulds.  
Turn-key delivery of high-pressure die casting moulds and trimming tools.  
Lifting system with double hoist up to 48 tonnes.  
Production in-house of every component.  
Sampling and pre-production for equipment testing.  
Fast prototyping for feasibility checking carried out using the AM process.





High-performance fully automated manufacturing milling machines.  
Production of mould holders with a working range of up to 5.5 metres.  
Deep-drilling machines up to 1,200 mm in a single cycle with seven axes.





High-speed machining centers with 3-4-5 axes with working areas up to 1.5 metres.  
Choosing the best partners for the supply of tool.



**DMG MORI**



**FIDIA**



Turning and grinding areas.  
CNC machining centres for the production of core pins, inserts and accessories.  
Guaranteed fast delivery of spare parts throughout the life of the mould.







Analysis of complex areas followed by design and production of electrodes.  
Machine centres equipped with integrated, safe vacuum systems.







Latest generation die-sink EDM machines with worktanks up to 2.5 metres.  
Guaranteed perfect finishing of surfaces even on complex shapes.  
Wire EDM machining of die cavities even with high thickness.





Polishing stations equipped with rotating motorised positioning devices and separate lifting equipment. Qualified expert staff specialized in polishing of the moulds functional to the die casting process. Polishing stations equipped with vacuum systems for operativity in complete safety.



Production | **Assembly, mould testing and maintenance**



Dedicated, fully equipped and self-contained assembly workshops.

After-sales support service and mould maintenance.

Eco-friendly high-pressure washing box.

Mould spotting press, maximum size 3500 mm x 3500 mm x H=3000 mm with rotating upper plateau up to 180°.



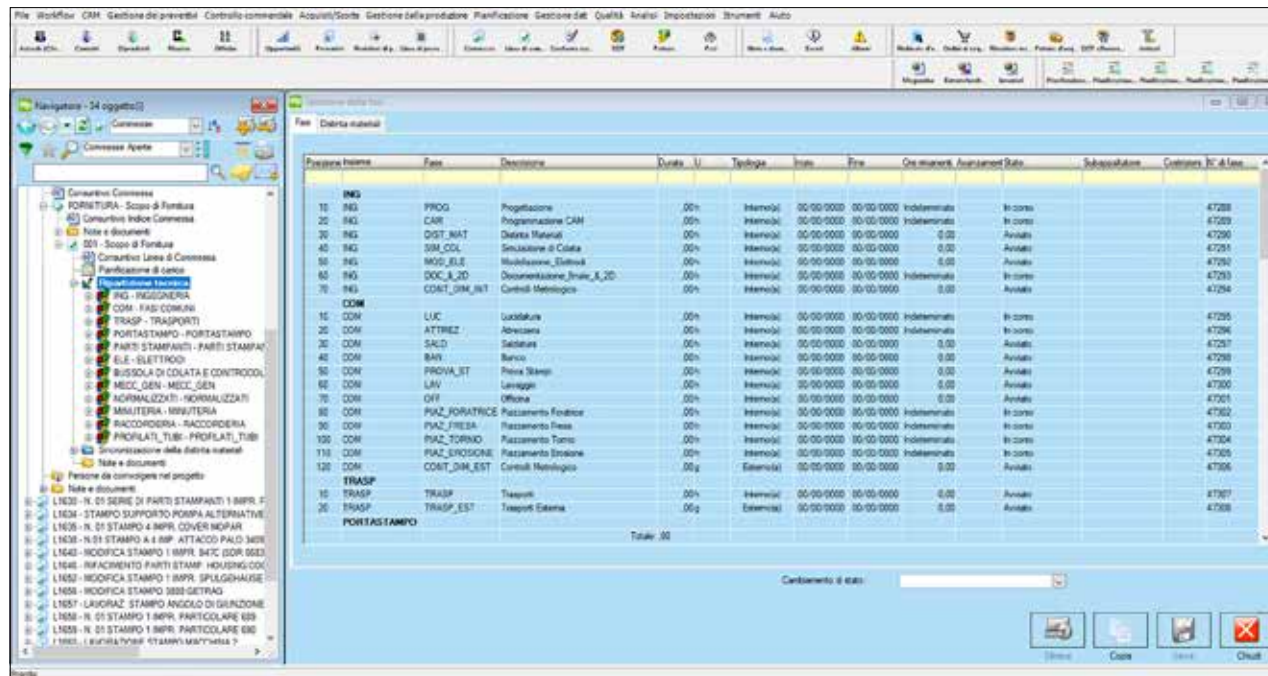
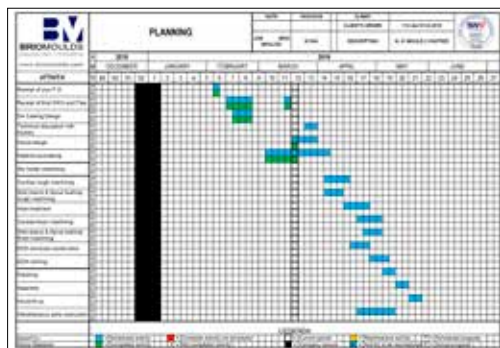


## Quality Department

1 +

MBOM : Steel									
Job: XXXX	Part: Steel	Client: XXX	Issued by: XXX	Date: XX/XX/XXXX					
#	Description	Rough dimensions [mm]	Final dimensions [mm]	Qty	Material	Rough weight kg	Heat Treatment	Hardness	
1	Fix Cavity Holder	870 x 870 x 200	880,00 x 880,00 x 240,00	1	1.1730	2070,96			
2	Mobile Cavity Holder	870 x 870 x 230	880,00 x 880,00 x 200,00	1	1.1730	1247,75			
3	Upper Ejection Plate	550 x 550 x 40	540,00 x 540,00 x 32,00	1	1.2312	94,99			
4	Lower Ejection Plate	550 x 550 x 40	540,00 x 540,00 x 32,00	1	1.2312	94,99			
5	Stock A	120 x 500 x 190	110,00 x 490,00 x 180,00	1	1.1730	89,49			
6	Stock B	120 x 550 x 190	110,00 x 540,00 x 180,00	1	1.1730	98,44			
7	Stock C	120 x 780 x 190	110,00 x 770,00 x 180,00	1	1.1730	139,60			
8	Stock D	120 x 780 x 190	110,00 x 770,00 x 180,00	1	1.1730	139,60			
9	Upper Plate	870 x 870 x 130	880,00 x 880,00 x 120,00	1	1.1730	772,42			
10	Lower Plate	870 x 870 x 50	880,00 x 880,00 x 40,00	1	1.1730	197,08			
11									
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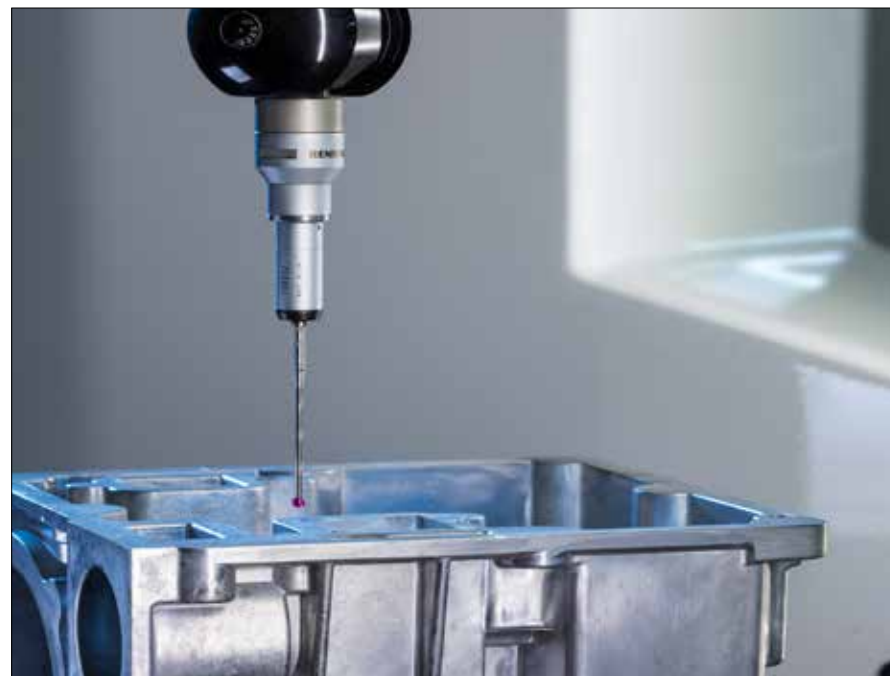
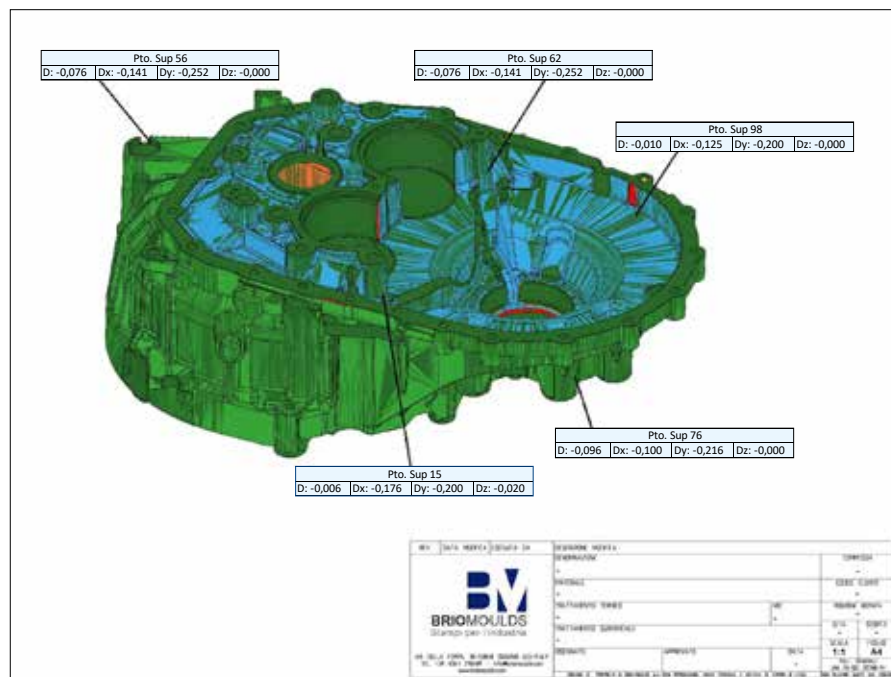
2 +



3 +

- 1 + Detailed bill of materials (BOM) including all the necessary information and features of each component of the mould.
- 2 + Guaranteed delivery time and constant updates on the status of the project by GANTT charts.
- 3 + Complete management of the entire production process through the ERP systems.





Final test of each mould before shipping.  
Measuring and sizing of samples, dies and moulds using CMM and laser systems.





### Quality and service at the service of quality.

BRIO MOULDS includes among its customers some of the most prestigious die casting foundries in Italy.

Our customers range from the aluminium casting cluster of Brescia, including major foundries equipped with presses of up to 4500 tonnes, to suppliers of main international car manufacturers from Turin's automotive cluster.

We have also a relevant position as a supplier of important high pressure die casting foundries of motorcycle industry in Emilia Romagna region and north eastern regions. Among our valued customer in Europe, we include the most prestigious engineering and product development companies of aluminium components for the automotive industry.

We also are specialized in the production of HPDC tools for gardening, lighting and general industry companies, maintaining close cooperation with all the steps of the manufacturing process from design to foundry.



## Partners | Raw materials



A selection of high-quality steels according each specific use.



## Partners | Heat treatments



Partnership with reliable, qualified and certified partners.



Consultancy, design, jobs and moulds for excellent results which are both distinctive and unique.  
Moulds created for premium applications that all share the same high quality, reliability and exceptional performance.





## Products | Die casting moulds

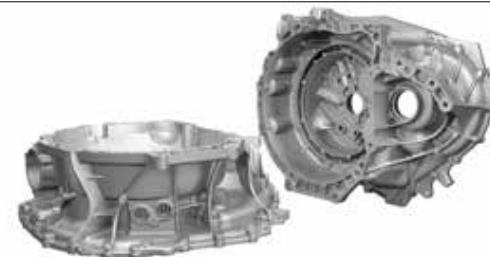
### AUTOMOTIVE



Clutch Housing



Transmission Housing



Clutch Housing



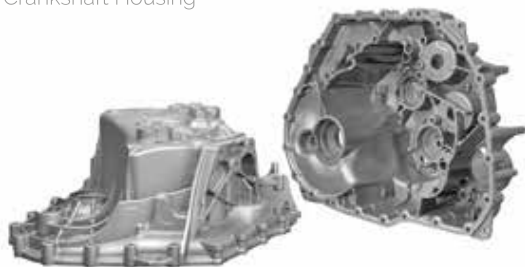
Crankshaft Housing



Cylinder Head Cover



Front Cover



Gearbox Housing



Truck Gearbox Housing



Gearbox Housing

### LIGHT



Street Lamp Body and Cover

### GARDEN



Mower Housing

### INDUSTRIAL



Heat Sink



Stator Housing



Hair Compressor Cylinder Head

The die casts produced by Brio Moulds moulds are protected by copyright law.



## Certifications



Download of certificates from the website [www.briomoulds.com](http://www.briomoulds.com)



## Who we are



**BRIO-MOULDs s.r.l.**

Via della Foppa, 30 - 23848 Oggiono (LC) Italy

Tel. +39 0341 210409 - Fax +39 0341 219756

[www.briomoulds.com](http://www.briomoulds.com)

[info@briomoulds.com](mailto:info@briomoulds.com)

