



**Zamak Die casting &
Toolings manufacturing Division**



Introduction

- The Division originally named Premocs was founded in 1977 and since then it has specialised in zamak die-casting and die manufacturing.
- In 1988 it has been acquired by Ferrari group, and in 2006 it became a Ferrari brand.
- The Division operates in several industries, such as furniture, automotive, white goods, locks, optics, pneumatics, electronics and electric components.



Introduction



- High quality, versatility, specialization, expertise, competence and customization are the reasons why many leading European companies became our customers.

- The main activities are zamak die casting and zamak, plastic and ceramic die manufacturing.



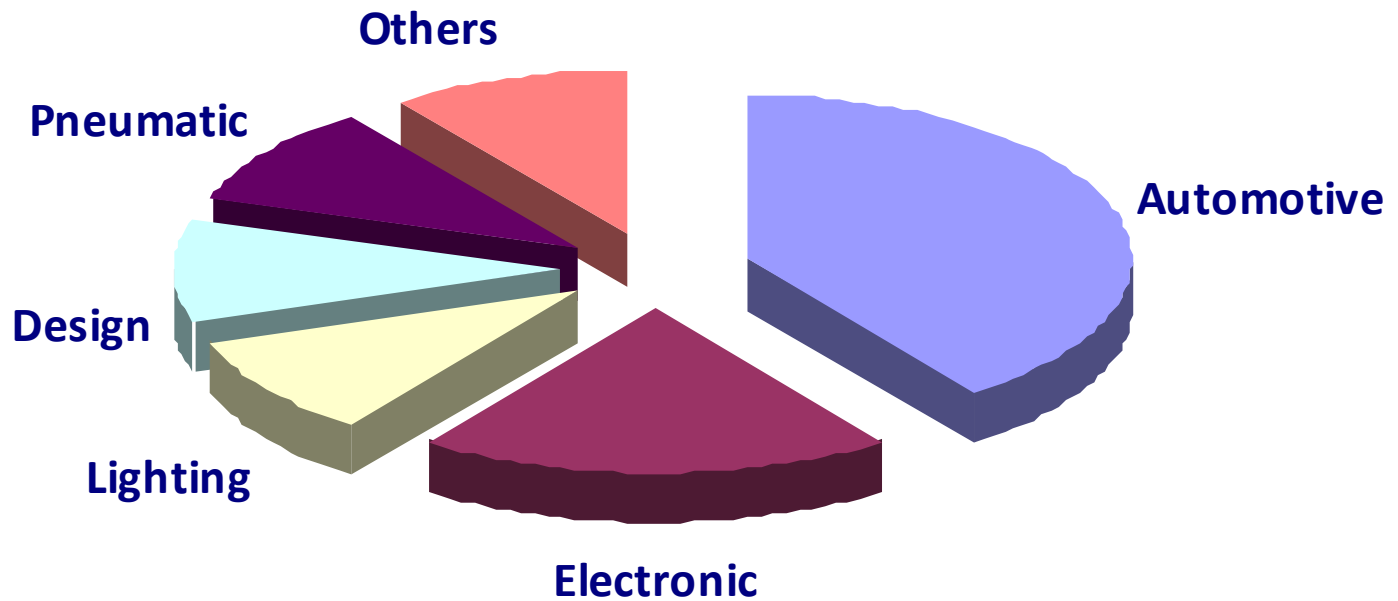
Industrial plant description

The Division is located in
Carvico (Bergamo) Italy

- Productive surface:
8.000 square meters
- Covered surface:
4.200 square meters



Market areas



Zamak

The core business of the Division

- Zamak is an alloy mainly composed of zinc with small percentages of aluminium, magnesium and copper.
- Thanks to its features zamak ensures high quality products in both small series and mass-production. Zamak allows to machine thin walls (even 0,7mm) and complex parts with tolerance 0,02mm.
- Thanks to the latest generation vacuum pressing system, it is possible to obtain great production results, above all for those products requiring a high quality level both from the technical and aesthetic point of view.
- The machineries, completely automated and of last generation, guarantee high quality manufacturing and total safety.
- The die casting activity is constantly monitored with the latest technologies, with the support of the quality control division.

Die casting

The heart of division



Most used Alloys

- Zamak 5
- Zamak 2
- Zamak 3
- Zamak 8

Structure

Production

- Yearly Production Alloy : 2.500 Ton

Who you will deal with

- Production department: 30
- Quality department: 7
- Logistic: 6
- Customer service 4

Products & Services

- MOULDS DESIGN AND FINAL PRODUCT SET UP
- MOULDS CONSTRUCTION AND MAINTENANCE
- FULL PRODUCTION CYCLE TO FINAL PRODUCT:
 - Die casting
 - Mechanical processing
 - Surface treatments:
 - Galvanic treatments
 - Painting
 - Assembling
 - Packaging

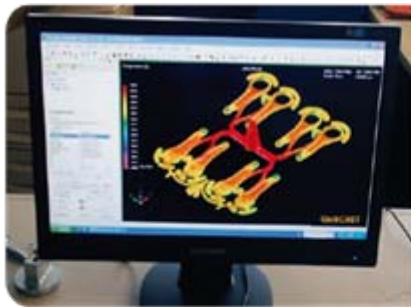
Production

- N. 10 Presses for Zamak Die-Casting (40Ton to 350 Ton) connected with automatic separators
- Four presses are equipped with fully automatic “STAUBLI” ROBOT STATIONS
- Under Vacuum Pressing System
- Product weight from 1 gr to 2.000 gr
- Vibro finishing department (tumbling)
- Processing department
- Assembling department



Technical Department

- 3D CAD/CAMS System to generate Solids
- Formats: All the main used
- Flow simulations software



Tools shop

- ▶ N.1 CNC machining centre **YASDA**
- ▶ N.1 CNC machining centre **HERMLE**
- ▶ N.1 CNC machining centre **MORI SEIKI**
- ▶ N.3 Wire spark machine **AGIE**
- ▶ N.1 Dive spark machine **MITSUBISHI**
- ▶ N.1 Dive spark machine **GANTRY**
- ▶ N.2 Flat grinders **OKAMOTO**
- ▶ N.1 Flat grinders **FAVRETTO**
- ▶ N.1 Round grinder **MOORE**
- ▶ N. Micro perforating machine **C.R.Tech**
- ▶ N. Laser Welding Machine **SISMA**



Quality

QUALITY CONTROL SYSTEM CERTIFICATE OF PRODUCTION IN ALL STAGES

- Control X-rays
- Three-dimensional controls
- Chemical analysis alloys
- Destructive tests
- Structural controls
- Test of resistance to corrosion carried out internally

Quality

SGQ tools

- OGP 3D optical dimensional measuring machine
- POLI 3D contact dimensional measuring machine
- Profile Projectors-Microscope
- Zeiss-Durometers
- Classic instruments (Altimeters, Gages, micrometers, graduated pins and blocks)
- Galvanic treatment deposit thickness measurement machine FISHERSCOPE XRAY HDL to measure 3 different coating layers in the same time
- Galvanic treatment deposit thickness measurement machine FISHERSCOPE COULOSCOPE CMS
- Paint thickness measurement equipment on ferrous materials FISHER DELTASCOPE
- Paint thickness measurement equipment on non ferrous materials KARL DEUTSCH LEPTOSKOP
- Controlled temperature chamber for oxidation test in Salt Spray test ANGELANTONI 600P

Quality

Our Certifications:

- UNI EN ISO 9001 (since 1998)
- UNI EN 14001 (since 2004)





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