



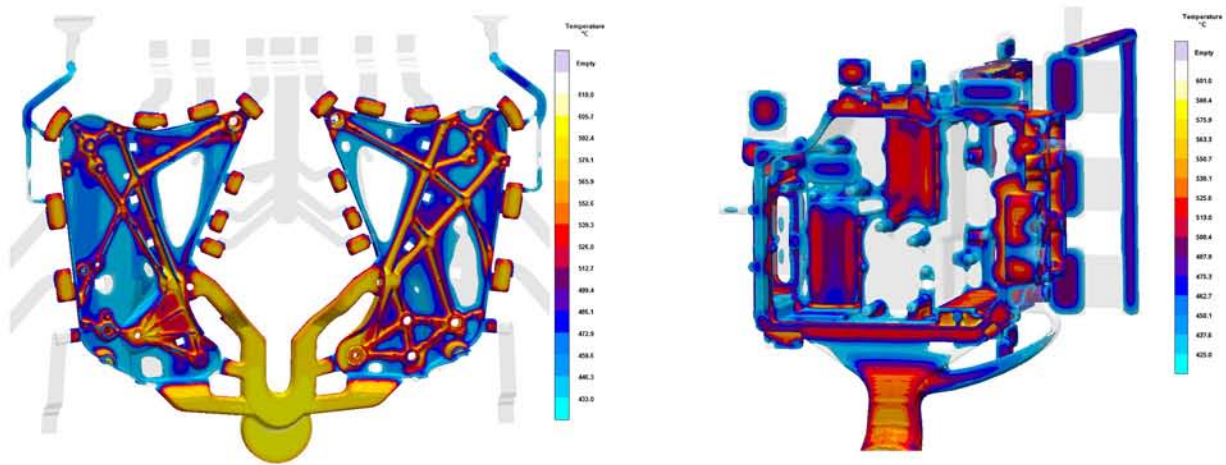
Grupo Antolin Magnesio



World class magnesium high pressure die casting

Grupo Antolin is a full service supplier leader in the design, development and manufacture of automobile industry components, offering multi-technological solutions for modular automotive interior parts. The firm operates in 25 countries with more than 120 facilities and 13.700 employees.

The company focuses on four main functions: overhead, door, seat and lighting, as well as die casting and nanotechnologies



Innovation and Design are the driving forces behind the rapid development of Grupo Antolin. In this context, **Grupo Antolin-Magnesio** was created in 2005 with the aim of complementing Antolin's extensive experience in metals and plastics and exploiting the potential of weight reduction in the vehicle.



Knowledge

Since its creation, Grupo Antolin-Magnesio has constantly invested in research, be it in raw materials, melting, dosage, mold design and conception or finish treatments (flocking, magnesium painting...) and recyclability.

The employees have an unparalleled knowledge of magnesium alloys (AM, AZ and Creep resistance alloys) and its mechanical properties (dynamic conditions, impact crash, fatigue, high temperature requirements...).

Grupo Antolin Magnesio is supported by specialized technological centers and universities.

Engineering and Validation

Advanced in-house engineering and design capabilities to ensure the component is thoroughly engineered and tested to meet application specifications.

Grupo Antolin uses CAD and CAE software to ensure the product for both performance and weight. The company is full experienced in the development of components to comply with crash and severe durability tests.

- Rheological Simulation
- Structural Simulation
- Thermographic Measurement

Final Customers of Grupo Antolin-Magnesio include some of the leading names in the industry: Mercedes Benz, Renault-Nissan, PSA Peugeot Citroën, Bombardier, Alstom and Siemens.

Interior, chassis and safety components



From the expert phase, design, development and production to surface treatment, finishing, assembly and logistics, Grupo Antolin-Magnesio is your reliable partner in HPDC parts for a wide range of applications.

11,300 sqm.
die casting facility



Quality Assurance

Quality-focused employees with continuous training in statistical process monitoring and the practice of Six Sigma methods.

Full equipped Metallography Laboratory with the most advanced testing and metrological equipment.

- X-Ray Chamber
- Spectrometer
- Tridimensional Measuring Machine
- Scanning Electron Microscope (SEM)
- Metallurgical Microscope
- Artificial Vision 2D&3D
- Salt Spray Chamber

Manufacturing capabilities

The foundry, certified according to UNE-ISO/TS 16949, is equipped with fully automated casting cells that ensure short manufacturing cycles.

Wide space between casting units resulting in better security and smoother material flow.

- 5 Die casting machines with a locking force of up to 1,850 Tn.
- Machining centers
- Automated deburring cells
- Trimming Presses
- Blasting Machines



Magnesium ► high strength, low weight, great potential

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