

# DIE CASTING AND MACHINING FOR LARGE-SCALE INDUSTRY

EDiM, part of the Bosch Group since 2017, focuses on manufacturing aluminum die-castings for the Automotive industry. Headquartered in Lombardy with a secondary facility in Veneto, EDiM is a longstanding institution in northern Italy. Aligned with Bosch's ethos, its foundries specialize in advanced, environmentally conscious products. Guided by expertise, innovation, quality and sustainability, these pillars govern their manufacturing, reflecting a commitment to excellence across operations and a vigilant approach to minimizing environmental impact.



## QUALITY AND PROCESS DEVELOPMENT

EDiM excels in delivering cutting-edge engineering solutions, engaging customers from the initial co-design for superior castability. Meticulous machining ensures unwavering quality, meeting micron-level tolerances and final cleanliness aligned with customer specifications. Dedication extends to continuous improvement through the BPS (Bosch Production System) methodology, streamlining operations, eliminating inefficiencies, and simplifying workflows. This fosters optimized processes, reflecting a steadfast pursuit of excellence.



Find out more about the EDiM quality

## SUSTAINABILITY

EDiM proudly operates as a carbon-neutral entity, embodying sustainability in its environmentally conscious foundry. With an advanced system, they track the carbon footprint at a single-piece level. Utilizing innovative solutions like inverters and optimization frameworks, they reduce electricity consumption. Pioneering gas reduction in aluminum smelting is achieved through a modern furnace fleet, and renewable energy integration includes photovoltaic panels. Supplemental energy is solely from renewable sources. Evaporators utilizing heat recuperation from melting furnaces lead to a remarkable 90% reduction in water consumption and depleted fluid disposal, highlighting their dedication to environmental stewardship. These measures position EDiM as a trailblazer in meeting market demands for carbon footprint reduction, proactively paving the way for future sustainability requisites.



Find out more about what being green means to us



## INNOVATION

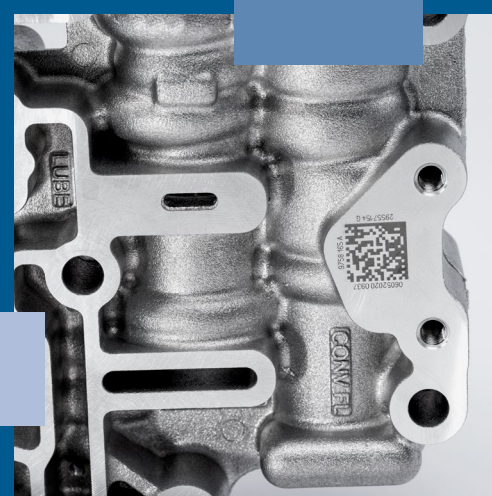
EDiM, an innovative and technologically advanced smart foundry, merges skilled personnel with cutting-edge solutions and artificial intelligence. Utilizing Rheocasting, a groundbreaking semi-solid casting technique in aluminum alloy, EDiM produces castings meeting rigorous standards for internal integrity, mechanical properties, and fatigue resistance. These components offer weldability, a remarkable heat transfer coefficient, and robustness as alternatives to forged aluminum, cast iron, or steel counterparts. EDiM's focus is empowering clients to reduce vehicle weight and fuel consumption, contributing significantly to sustainability in mobility. By integrating a skilled workforce with advanced technologies, EDiM remains committed to reshaping the Automotive landscape through innovation and eco-friendly solutions.



Find out more about the innovative processes adopted in our plants

## EXPERTISE

Fostering key partnerships in the Automotive industry, they engage in mutually beneficial collaborations, drawing on extensive technical acumen and sustained investments in growth and innovation. Proficient in mechanical machining, their collaborative co-design efforts ensure test performance across 100% of machined codes. Their operational framework boasts a notable degree of automation, from meticulous work island layouts to seamless peripheral installations, and cutting-edge hardware and software for system control. This commitment underscores their dedication to operational efficiency and excellence across all facets of their enterprise. Positioned to meet exacting client requirements, they stand poised for adept fulfillment through robust partnerships and advanced technological capabilities.



Discover our product portfolio



# DIE CASTING AND QUALITY MACHINING FOR THE AUTOMOTIVE MARKET

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