

France Automotive Parts Zinc Die Casting - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The France Automotive Parts Zinc Die Casting Market size is estimated at USD 0.25 billion in 2023, and is expected to reach USD 0.34 billion by 2028, growing at a CAGR of 5.97% during the forecast period (2023-2028).

The usage of zinc die casting is almost 28% in the automotive industry for applications like inertia disks, retractor gears, etc., followed by the building and hardware sectors. Along with merits like resistance, versatility, toughness, and low cost, zinc die casting produces low-level emissions in air and water.

To reduce automobile emissions and increase fuel efficiency, CAF? standards and EPA policies are driving automakers to reduce the weight of automobiles by employing lightweight, non-ferrous metals. Employing die-cast parts as a weight-reduction strategy is a major driver for the automotive segment of the market. Although heavier than aluminum, the lower cost of these parts and higher intricacy allowance make them more suitable for certain applications.

Compared to other die-casting parts, zinc die-casting parts are usually equipped with better mechanical properties, like toughness, and offer higher surface finish and lower thermal shock during casting (due to their lower operating temperature).

The market witnesses opportunities in the form of increasing electric vehicle sales, which require a higher density of lightweight components. Major companies like Dynacast are focusing on identifying affordable raw materials and alloys that offer better durability.

France Automotive Parts Zinc Die Casting Market Trends

Rising Demand for Vacuum Die Casting and Enactment of Stringent Emission Regulations

Several vehicle manufacturers focus on zinc parts as zinc-casted products go directly into the assembly process. Zinc-casted products already have a better finish, reducing the special finishing process. Zinc die-casting parts are usually equipped with better mechanical properties like toughness. They have better thermal and electrical conductivity than other die-casting parts, which is likely to enhance the demand for zinc die-casting parts in vehicles.

Globally, countries have formulated stringent emission norms to cater to the cause of reducing global warming. Governments worldwide are making efforts to minimize the negative effects of global warming and reduce their carbon footprint.

A number of countries are implementing emission standards, and OEMs worldwide are expected to explore new technologies that help reduce emissions in automobiles. Freight companies and fleet owners are extensively moving toward technologies which are expected to reduce the average emission rate.

Lightweight vehicles and energy-saving trends are driving the demand for zinc die casting. Moreover, the French die-casting market is experiencing an increased adoption of competitive technology to increase production.

Earlier, pressure die casting was the most widely employed production process. However, the vacuum die-casting process has been gaining popularity over the past couple of years due to its better welding characteristics, higher mechanical strength, and lower gas porosity. Vacuum die-casting outcomes depend on variables like pressure and temperature to get the best outcomes. Manufacturers must adhere to particular temperature guidelines to preserve the alloy's metallurgical characteristics.

Transmission Parts Expected to Grow During the Forecast Period

All regions worldwide are consistently working toward enacting regulations for reducing emissions and improving fuel economy in the automotive industry, which is driving the market. This led to an outlay in the modernization of vehicles and encouraged

automakers to exert zinc parts for automotive vehicles.

Gear sets, valve bodies, stators, drive motor housing, transmission housing, axles (both front and rear), and other transmission housing parts are some of the commonly die-casted transmission parts in the automotive industry.

Electrical and hydraulic components in an automobile work simultaneously. Reliability and quality are of utmost importance in transmission parts. The transmission system in any automobile is an extremely complex combination of mechanical functions. These parts are prone to extreme conditions and environments, making their integrity a very high priority.

The increase in vehicle electrification has been rampant in France, coupled with the growing traction of hybrid powertrains in Europe. Thereby, the adoption of zinc castings is critically increasing in areas such as battery compartment housings and various transmission and powertrain components for these vehicles, driving the growth of the zinc die-casting market for transmission parts in the region.

The integration of zinc die casting in automotive transmission systems offers a range of advantages, including weight reduction, improved performance, durability, and environmental sustainability. As the automotive industry continues to seek innovative solutions for efficiency and environmental concerns, parts and components using aluminum high-pressure die casting remain a valuable and beneficial choice for modern transmission systems.

Due to the aforementioned factors, the market is expected to grow rapidly in the coming years.

France Automotive Parts Zinc Die Casting Industry Overview

The French automotive parts zinc die-casting market is majorly dominated by a few players, including Dynacast, Brillcast Manufacturing LLC, Pace Industries, Sandhar Technologies Ltd, Ashok Minda Group, and Kemlows Die Casting Products Ltd. Companies focus on providing the best quality products to their customers by investing in R&D projects and conducting certification programs. For instance,

Sandhar Technologies Ltd's objective is to be the leader in its chosen products and

processes, be the trusted partner in the growth of the stakeholders, offer competitive prices to the customers through technical innovations and process standardization, have a strong R&D base to ensure high quality, provide services that enhance customer satisfaction, create benchmarks for all sets of industries, and be a socially accountable organization.

Brillcast Manufacturing LLC, in conjunction with local universities, implemented a comprehensive certification program for zinc die-cast manufacturer operators. The company strives to provide an environment where the employees are encouraged to be more effective at work, at home, and in their communities.

Additional Benefits:

The market estimate (ME) sheet in Excel format

3 months of analyst support

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