

Automotive Parts Aluminum Die Casting Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

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Report description:

The automotive parts aluminum die casting market was valued at USD 24.18 billion in 2021. It is expected to reach USD 37.66 billion by 2027, registering a CAGR of more than 7% during the forecast period, 2022-2027.

The COVID-19 pandemic profoundly impacted manufacturing operations, and the market witnessed a slowdown due to supply chain disruptions and trade restrictions worldwide. However, aluminum production witnessed positive growth despite the pandemic. For instance, according to the International Aluminum Institute, the primary production of aluminum was 132,568 thousand metric tons, produced between 2020 and 2021.

Factors such as the rising demand for lightweight vehicles and the growing utilization of aluminum in diecasting auto parts are expected to fuel the market's growth during the forecast period. Stringent environmental regulations and CAFE standards were imposed across various regions to support the adoption of the die casting process.

Moreover, the market is anticipated to be constrained by the volatility of aluminum pricing due to sanctions and trade disputes between nations and the growing use of novel casting technologies (such as 3D printing) in the automotive industry.

Automotive Parts Aluminum Die Casting Market Trends

Pressure Die Casting Segment to Hold Significant Market Share

The pressure die casting segment is expected to hold the largest share in the market during the forecast period due to the growing adoption of and consumer interest in the segment across the world. The process is accessible globally because of its

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unique advantage in manufacturing high-volume goods. Moreover, steady demand from the automotive sector is likely to contribute to substantial growth of the market over the forecast period.

The high-pressure process in the industry is called cold-chamber die casting for achieving higher output levels and is primarily used in various industries. The low-pressure process is used in the output of low-volume goods with top unit costs due to the longer casting cycles. Manufacturers worldwide are adopting various growth strategies to expand their presence in the global market. For instance,

In February 2021, Nantong Jiangzhong Photoelectricity Co. Ltd installed its Italpresse gauss TF5700 high pressure die casting (HPDC) machine at its base in Jiangsu province, China.

With its huge 3500 x 3500mm platens, the TF5700's closing force of 5,700 tons makes it the ideal solution for large part production. Jiangzhong also purchased a Westomat 3100 from StrikoWestofen to integrate seamlessly with the machine.

Asia-Pacific Region Anticipated to Witness Significant Growth

Asia-Pacific is expected to witness the fastest growth rate during the forecast period. In the Asia-Pacific region, major countries like India, China, and Japan are expected to contribute significantly to the development of the market over the forecast period. China is one of the major producers of die casting parts, and the growing adoption of passenger cars in the region is likely to have an optimistic impact on the market. For instance,

According to the China Association of Automobile Manufacturers, China's car production reached 2.84 million units in December 2020, an increase of 5.7% from 2019.

The Asia-Pacific region, being one of the world's largest manufacturers of vehicles, tends to attract major market manufacturers. Many players adopt growth strategies, such as geographic expansion and production capacity expansion, to stay competitive in this market. For instance,

In March 2021, Endurance Technologies Limited announced the construction of a new plant at Waluj to meet the disk brake assembly business demand. The company is also setting up a cylinder-head low-pressure die-casting plant at Pantnagar, which is due to start operations by April-June 2021.

Amidst all the factors promoting the market and the factors which can lead to disruption in the market, the strong preference of the customers toward aluminum products and the ongoing trend of increased usage of aluminum is expected to provide a significant growth opportunity in the market.

Automotive Parts Aluminum Die Casting Market Competitor Analysis

The automotive parts aluminum die casting market is consolidated and led by globally and regionally established players. These companies adopt strategies such as new product developments, collaborations, and contracts and agreements to sustain their market positions. For instance,

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In December 2021, Altizon Inc. (Altizon) announced that it was working with Sundaram Clayton Limited (SCL), a subsidiary of TVS Group, to scale up the deployment of its industry-leading Datonis Digital Factory in casting and machining cells across all SCL plants in India and North America.

Some of the major players in the market include Rheinmetall AG, Nematik, Linmar Corporation, Koch Enterprises, and George Fischer Limited.

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

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