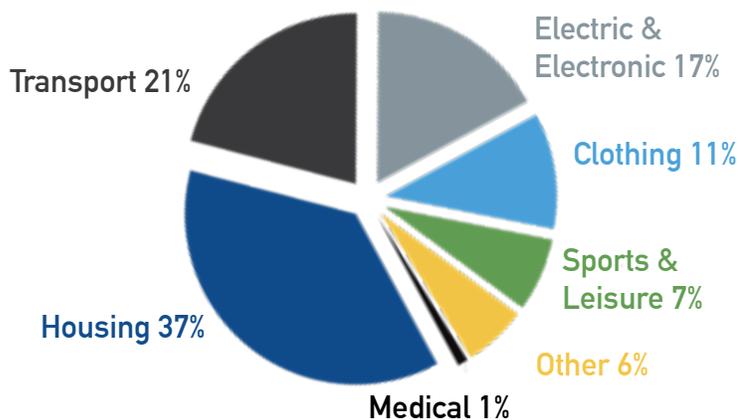




Zinc Alloys in Die Casting: Increasing Markets Through Value

Zinc alloys play an essential role in die casting, with a forecast for a 17% increase in demand — approximately 270,000 tons — by 2035. Zinc die casting alloys, zinc combined with small amounts of other metals such as aluminum, copper, and magnesium, serve as important engineering materials that can be economically cast into any shape and are used across multiple markets.

Global Zinc Die Casting Uses



Zinc Alloy Advantages

- Strong and durable
- Long lifetime, can exceed 100 years
- Surface finished with variety of coatings
- Corrosion resistant
- Net-shaped into thin and complex parts
- Can be produced at a low-cost
- Often made from recycled zinc

What is sparking this 17% growth in zinc alloys?

Zinc in die casting meets the growing demand for housing, clothing, self-care products, and electric vehicles.

Growing population coupled with more one-occupant households results in demand for more zinc alloys in homes, where zinc alloys are used in hardware, appliance components, furniture, home décor, and construction parts.

In clothing, zinc alloy use will increase 37% by 2050. Zippers, buttons, belt buckles, and frames for glasses often contain zinc alloys.

More people also are buying medical self-care products, such as devices for measuring blood pressure and glucose.



Zinc Alloys in Cars

Demand for cars is growing worldwide, particularly in China and India, two of the largest producers of zinc die castings. Automotive safety components, interior trim, door handles, and seat and window controls often contain zinc alloys. Zinc alloys also benefit from the growing demand for electric vehicles, where they are more frequently used in engine parts, cable connections, and sensor housings.

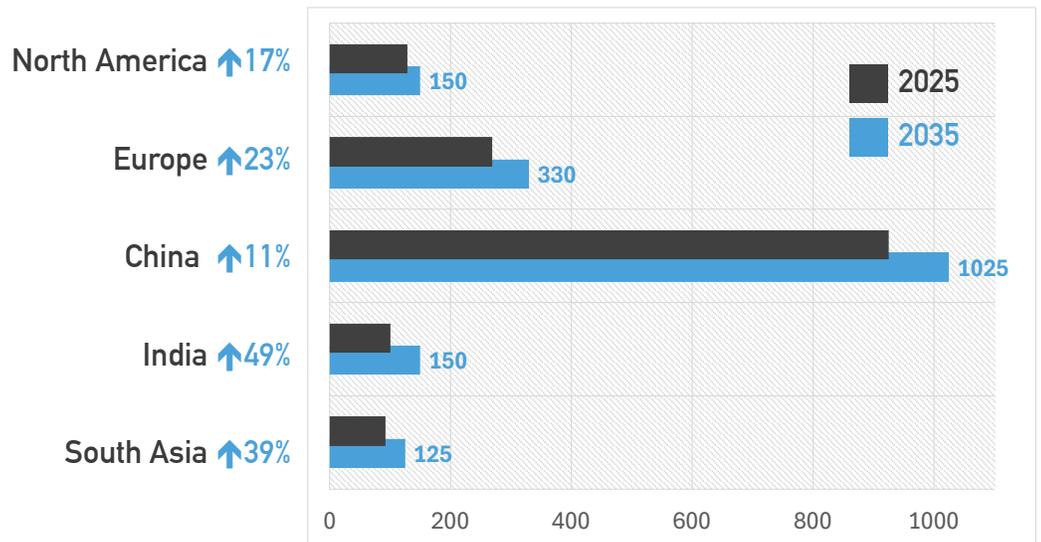


Zinc Alloy Growth by Region

The primary areas for growth in die casting are Europe, North America, India, China, and Southeast Asia. The growth in Europe and North America is due to domestic demand, while the growth across Asia results from both domestic demand and demand for exports.



Global Zinc Alloy Demand Growth (kt)



With rising demand for cars, housing, clothing and other consumer products, the outlook for zinc alloys in die casting is promising, reflecting a 17% increase in zinc demand over the next decade, with primary gains forecast in India, Southeast Asia, Europe, North America, and China.

For more information on the Zinc Alloy Program
visit diecasting.zinc.org

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