

Why is EMP a leading aluminium die casting manufacturer in China?

EMP, as one of the leading aluminium die casting manufacturers in China, is consistently researching and developing new ways to produce and improve NEV parts to make our technology smarter, more powerful, and our products lighter and more efficient. EMP's focus on building new energy vehicles is to reduce energy and emissions with parts like the Motor Housing.

Does EMP die casting offer electric vehicle parts?

EMP Die Casting provides a large selection of quality aluminium electric vehicle parts, including electric vehicle drive motor, electric vehicle battery, electric vehicle battery charger, and EV electronic control unit/motor control unit. One-stop die casting service is available. Inquiry now!

What features make a good EV battery box?

A good EV battery box should offer security for the battery payload and structural rigidity for the vehicle. Our EV battery box has high-temperature resistance, corrosion resistance, high electrical conductivity, and good heat transfer performance. The best NEVs make use of aluminum alloy for these battery case structures.

1. The role of alloying elements on Al-Mg system heat treatment-free die-casting aluminum alloys. Mg as die-casting Al-Mg alloy in addition to Al in the highest content of elements, in Al solid solubility up to 17.4%, has a good solid solution strengthening effect, in improving the strength of the alloy at the same time does not affect the toughness of the alloy, but also improve the ...

This monograph provides a field-proven approach to analyze industrial production with a cross-company scope as well as regarding all hierarchical system levels of manufacturing enterprises, and presents a set of measures which allow a 30 percent energy reduction along the value chain. This monograph provides a field-proven approach to analyze ...

Low pressure and high pressure die casting are applicable in different scenarios depending on the component complexity, the number of parts, and the manufacturing budget. Below is a clarification on the differences between the two and the advantages of low pressure die casting over high pressure die casting. Cycle time. The low pressure die ...

While die casting is predominantly used in wind and solar energy, its applications are expanding. Research is underway to incorporate die-cast parts in hydroelectric and geothermal energy systems.

New energy vehicles are an important development direction of the global automobile industry. Their environmental protection and high efficiency are gradually changing the face of the traditional automobile manufacturing industry. In the manufacturing process of new energy vehicles, die-casting technology plays a

vital role. This article will conduct an in-depth ...

This paper proposed an energy modeling method to connect gas and electric energy consumption with production rate of aluminum die-casting processes based on data collected at workshops with ...

This research collected energy consumption data for die-casting processes at a typical die-casting workshop with two casting machines. Each machine was designed to produce two product types with corresponding types of dies equipped. They are automatic, middle-sized, horizontal cold chamber die-casting machines using electricity as their power ...

The average lifetime of the die was 80,000 times. The shared energy and CO₂ emission for one die cast are 3.0 kWh and 1.0 kg for the box-type parts, and 8.3 kWh and 3.1 kg for the structural parts, respectively.

The integrated die-casting solution greatly simplifies the manufacturing process, eliminates the cumulative error caused by the connection of a large number of parts, improves ...

EV battery case, also known as EV battery box, is one of the most important components in new energy vehicles. The best NEVs make use of aluminum alloy for the battery case structures as key components that offer security for their ...

Energy storage technology refers to storing energy so that it can be released when needed to meet the needs of the power system. As an important industrial equipment, the die-casting ...

High Precision Die Casting Housing for New Energy Vehicle Part Name: Auto Part Tolerance:±0.01mm Casting Surface Quality Level:3 Pressure Chamber Structure: Horizontal Certification:CE, RoHS, ISO 9001:2000, ISO 9001:2008 Quality System: IATF 16949 Application:New Energy Vehicle Process:Die Casting+Secondary Operation+Surface ...

The convenience of using new energy vehicles goes beyond the capacity of onboard batteries; charging time also plays a crucial role. ... Employing precision die casting in millimeters to craft high-performance automotive components, the secret behind the compact design of the aluminum alloy integrated power supply box, labeled as model HA2HE ...

PDF | On Dec 31, 2022, Tanya A. BASER and others published New Trends in Aluminum Die Casting Alloys for Automotive Applications | Find, read and cite all the research you need on ResearchGate

This step is only efficient and economical if optimization itself does not cause new high costs." Pierburg (Nettetal, Germany) used numerous die casting processes for many years. In view of rising energy costs and an anticipated move, a plan arose to optimize its automated processes regarding cycle time and the use of energy.

Energy modeling and efficiency analysis are considered the foundation of manufacturing process optimization to improve quality and efficiency and reduce energy consumption and carbon emissions during aluminum die-casting processes. This paper proposed an energy modeling method to connect gas and electric energy consumption with production ...

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