

How much CO<sub>2</sub> does a die cast emit?

The shared energy and CO<sub>2</sub> 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.

How much weight does a die cast have?

The average net mass of one vehicle Al die cast was assumed to be 5 kg. The locking force of a DC machine ranges from 10,000 to 20,000 kN and 20,000 to 44,000 kN for a 5 kg box-type part and structural part, respectively.

How much energy can be saved by optimizing the casting yield rate?

Melting and holding are the primary energy consumers, and 5-10% of energy can be saved by an integrated operation and parameter optimization. Energy consumption is sensitive to the casting yield rate, but little attention is paid to it. Optimizing the casting yield rate in the die design phase is an easy and practical energy-saving approach.

How can a die cast inventory be more accurate?

Some effective and low-investment approaches need to be explored. The inventory is sensitive to the shape and mass of Al DCs. To obtain a more accurate inventory for a specific die cast, it is necessary to adjust the data appropriately based on the average values. Two implications, considering the influence of energy generation, were also explored.

How many times does a die cast last?

The average lifetime of the die was 80,000 times. The shared energy and CO<sub>2</sub> 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.

How much energy does a die use?

The primary energy consumption and CO<sub>2</sub> emissions in die making were assumed to be 20% of those of the material embodied. Thus, the total embodied energy and CO<sub>2</sub> emission can be calculated as 854.3 GJ and 79.2 ton for the box-type parts, and 2382.8 GJ and 245.4 ton for the structural parts. The average lifetime of the die was 80,000 times.

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 ...

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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 ...

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Owing to its exceptional quality and performance, the cast casing for onboard charging equipment has found its way into the manufacturing processes of renowned new energy vehicle manufacturers like BYD, NIO, ...

Reis Robotics has established that it is possible to save plenty of energy even in the very energy-intensive die casting industry without a negative impact on the products. The following article, with the specific example of Pierburg, ...

Die casting machines, widely used in manufacturing industry, consume a significant amount of energy. To reduce energy consumption, the primary task is to accurately characterize and evaluate the ...

the individual die casting cells a new central heat distribution system is currently being developed in the project envIoTcast to be set up and tested at the LKR Ranshofen in the course of the ...

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