

Die casting machine does not store energy

Can a die casting machine predict energy consumption?

Finally, the feasibility and reliability of the proposed energy consumption prediction approach are verified with the help of three die casting machines and six types of products. The results show that the prediction accuracy of production time and energy consumption reached 91.64% and 85.55%, respectively.

Does die casting workshop use a lot of energy?

The main results are as follows: 1) The OEE and energy utilization ratio of die casting units were increased by 3% and 7%, respectively; 2) Energy consumption per kilogram of die casting workshop was reduced by 7.9%. The proposed approach can be used to trace the source of energy inefficiencies in the die casting workshop.

Is die casting energy efficient?

Discussions Die casting is an energy-intensive process that has prompted energy efficiency evaluation toward achieving greener, more sustainable manufacturing processes. However, the complex production conditions require even higher real-time and dynamic performance of energy efficiency evaluation.

What are the major energy requirements for die-casting operations?

The obvious major energy requirements are for melting and holding molten alloy in preparation for casting. The proper selection and maintenance of melting and holding equipment are clearly important factors in minimizing energy consumption in die-casting operations.

Does team output energy consumption and number of die-casting machines?

Although not shown, with appropriate energy consumption input data for pertinent equipment in the model, TEAM will output the energy consumption and number of die-casting machines required to meet desired production output.

How a die casting machine works?

Die casting machine produces castings and scrap. The scrap might be sold or recycled or a combination of these two. The castings are then directed to the trimming process. After the trimming process, the castings which pass the quality control test will go to the machining process. The output of the machining process is final castings and scrap.

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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