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**Die casting machine energy efficiency rating and
evaluation method**

压铸机能效等级及评定方法

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard was proposed by the China Machinery Industry Federation.

This standard shall be under the jurisdiction of the National Foundry Machinery Standardization Technical Committee (SAC/TC 186).

Drafting organizations of this standard: Shenzhen Lingwei Technology Co., Ltd., Ningbo Lijin Technology Co., Ltd., Shenzhen Lanhai Huateng Technology Co., Ltd., Jiarui Technology (Huizhou) Co., Ltd., Dongguan Jiejin Machinery Equipment Co., Ltd., Foshan Gougao Automation Technology Co., Ltd., Jinan Foundry and Metal-forming Machinery Research Institute Co., Ltd., Guangdong Institute of Standardization.

The main drafters of this standard: Xu Niansheng, Wang Xinliang, Hu Yannan, Li Yuanfa, Ye Weixiong, Hu Guoqiang, Lu Jun, Gu Weixin, Huang Chunsheng, Zhou Gang.

This standard is issued for the first time.

Die casting machine energy efficiency rating and evaluation method

1 Scope

This standard specifies the terms and definitions, energy efficiency rating, energy saving evaluation values, test methods, labeling of energy efficiency grades of the energy efficiency rating and evaluation method of die casting machine.

This standard applies to cold-chamber die casting machines and hot-chamber die casting machines (hereinafter referred to as die casting machines).

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) is applicable to this standard.

JB/T 12554 Method for measuring the energy consumption of die casting machine

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Specific machine related electrical energy consumption of a die casting machine

E_b

The ratio of the electrical energy consumption of a die casting machine to its rated locking force, in kilowatt-hours per die time [$\text{kW} \cdot \text{h}/(\text{die time} \cdot \text{kN})$].

3.2

Energy efficiency grade

A grading method of die casting machines, which distinguishes the

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Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

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