BS ISO 23472-3:2021

BSI Standards Publication

Foundry machinery — Vocabulary

Part 3: Die casting machines and other equipment related to permanent mold casting process

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National foreword

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A list of organizations represented on this committee can be obtained on request to its committee manager.

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Foundry machinery — Vocabulary —

Part 3: Die casting machines and other equipment related to permanent mold casting process

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Partie 3: Machines à couler sous pression et autres équipements liés au processus de moulage permanent

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Foreword

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This document was prepared by Technical Committee ISO/TC 306, *Foundry machinery*.

A list of all parts in the ISO 23472 series can be found on the ISO website.

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Introduction

Documentation gives rise to numerous international exchanges of both intellectual and material nature. These exchanges often become difficult, either because of the great variety of terms used in various fields or languages to express the same concept, or because of the absence of, or the imprecision of, useful concepts.

To avoid misunderstandings due to this situation and to facilitate such exchanges, it is advisable to select terms to be used in various languages or in various countries to express the same concept, and to establish definitions providing satisfactory equivalents for the various terms in different languages.

The objects involved in the ISO 23472 series are foundry machines used in foundry production.

The purpose of the ISO 23472 series is to provide definitions in English that are rigorous, uncomplicated and which can be understood by all concerned. The scope of each concept defined has been chosen to provide a definition that is suitable for general application within foundry machinery, which includes machines and equipment adapted in each stage of the processes within different casting processes.

As a metal thermoforming method that fills molten metal into the mold to produce machine parts or rough parts after solidification, casting has a long history and various processes, and its technology remains constantly developing and changing. According to the differences in the mold used, or different ways of molten metal filling or solidification, casting processes are usually divided into sand casting, permanent casting and other casting processes. According to different casting processes and different stages of production, casting equipment covered by foundry machinery is divided into the following major categories:

— molding and core-making machines and other equipment related to non-permanent mold casting process;

— die casting machines and other equipment related to permanent mold casting process;

— abrasive blasting machines and other equipment related to cleaning and finishing for casting;

— cupola furnaces and pouring devices and ladles.

This document only involves terms and definitions of die casting machines and other equipment related to permanent mold casting process, including basic concepts specifically concerning structural characteristics and functions, important mechanisms and parts, main technological processes and parameters of various die casting machines, squeeze casting machines, low pressure casting machines, centrifugal casting machines, gravity die casting machines and other related casting machines (see Figure 1).

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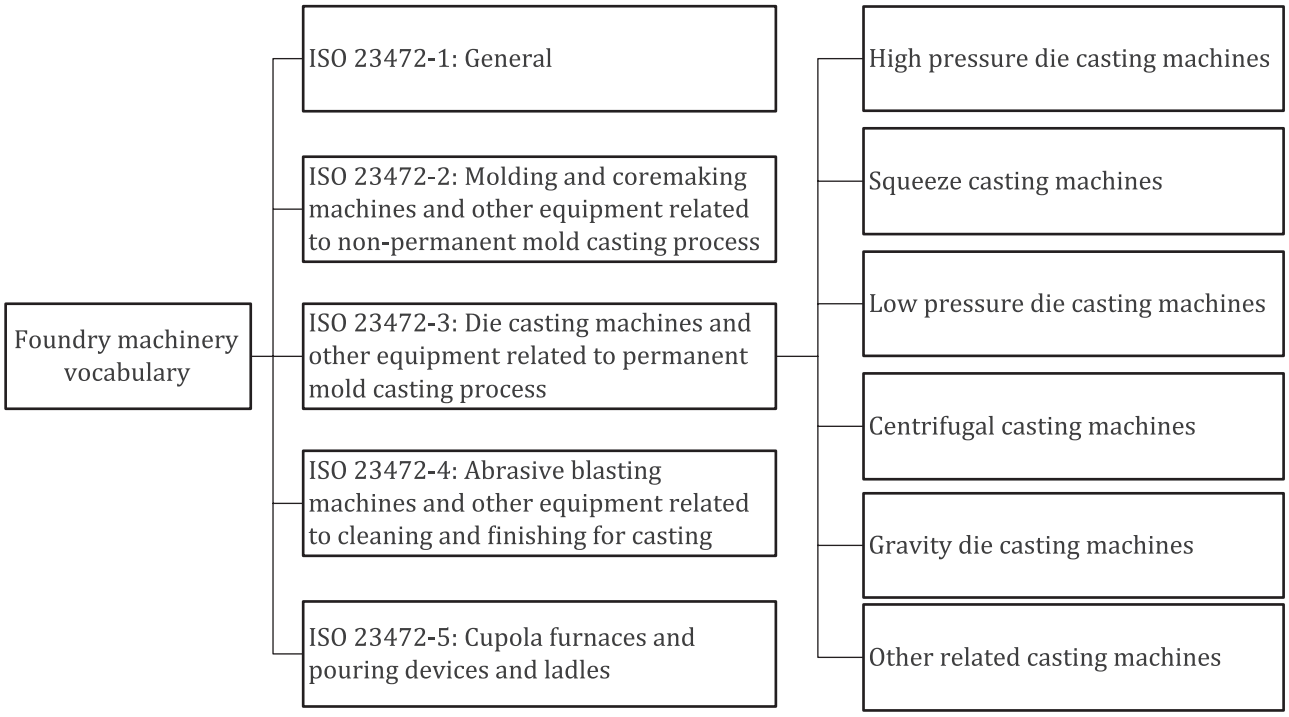

Figure 1 — Structure of vocabulary on die casting machines and other equipment related to permanent mold casting process

It is expected to be used in the field of die casting machines and other equipment related to permanent mold casting process, technical documentation, related scientific and technical publications.

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