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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 43609.1-2023

**Building construction machinery and equipment - Plants for the
preparation of concrete and mortar - Part 1: Terminology and
commercial specifications**

建筑施工机械与设备 混凝土及砂浆制备设备 第1部分：术语和商业规格
(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

This document is Part 1 of GB/T 43609 "Building Construction Machinery and Equipment Concrete and Mortar Preparation Equipment": GB/T 43609 the following sections have

been published:

---Part 1: Terminology and commercial specifications:

This document is equivalent to ISO 19720-1:2017 "Building construction machinery and equipment Concrete and mortar preparation equipment - Part 1: Techniques" language and business specifications:

This document has made the following minimal editorial changes:

- a) Note added in 3:14;
- b) Added formula number;
- c) The notes in 3:19, 3:21, 3:23, and 3:25 have been changed to the source form;
- d) The "produced concrete density ρ " in formula (5) has been converted into units according to the actual situation in my country, and is divided into "kilograms per cubic minute Meter (kg/dm^3)" was changed to "kilogram per cubic meter (kg/m^3)", and the coefficients in the formula were modified accordingly;
- e) A paragraph indicating graphics has been added to Appendix A:

Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

Introduction

Unifying and standardizing the terminology and commercial specifications of concrete and mortar preparation equipment will help standardize the domestic concrete and mortar preparation equipment market:

field to promote technological exchanges between industries: Equivalent to the use of ISO standard terminology and business specifications, which is conducive to communication and promotion with international peers:

Domestic concrete and mortar preparation equipment products go global:

The unification of terminology and commercial specifications for concrete and mortar preparation machinery ensures communication and cooperation between product manufacturers and users:

Smooth:

GB/T 43609 "Building Construction Machinery and Equipment Concrete and Mortar Preparation Equipment" is used to determine concrete and mortar preparation machinery the standardized specification is planned to consist of two parts:

---Part 1: Terminology and commercial specifications: The purpose is to unify and standardize the terminology and commercial specifications of concrete and mortar

preparation machinery:

---Part 2: Safety requirements: The purpose is to standardize the structural and performance requirements for safety aspects of concrete and mortar preparation equipment:

Building construction machinery and equipment concrete and mortar Preparation Equipment Part 1: Terminology and Commercial Specifications

1 Scope

This document defines concrete and mortar precast machinery and equipment (including concrete mixing stations, concrete batching stations, and dry-mixed mortar production lines) terminology and commercial specifications:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations for undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

equipment-Terms and definitions) Note: GB/T 18576-2001 Building construction machinery and equipment terms and definitions (idt ISO 11375:1998)

3 Terms and definitions

The terms and definitions defined in ISO 11375 and below apply to this document:

ISO and IEC maintain terminology databases used for standardization at:

---ISO online browsing platform: <http://www.iso.org/obp>;

concreteconcrete

It is prepared in a certain proportion from cementitious materials, coarse aggregate, fine aggregate and water, as well as admixtures and admixtures added when necessary, and is evenly stirred:

Mixed, building materials formed through hydration:

mortar

A joint material mixed with cementitious materials (cement, etc.), fine aggregate, water or additives (optional):

dry mortar A material mixed with cementitious materials (cement, plaster, etc.), fine

aggregates, or additives (optional) that hardens when mixed with water:

concrete mixing plantconcretemixingplant Mix the aggregate, cement, water or admixtures and admixtures in a certain proportion and mix them with the concrete mixer (3:7) to form a mixture:

Installation of concrete (3:1):