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GB/T 47397-2026

Vibration forming platforms for precast concrete components

预制混凝土构件振动成型平台

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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. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China Machinery Industry Federation. This document is under the jurisdiction of the National Technical Committee on Standardization of Construction Machinery and Equipment (SAC/TC328). This document was drafted by: China Academy of Building

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1 Scope

GB/T 47397-2026 is the Chinese national standard covering the vibrating table on which a precast element is compacted - the frequency and amplitude, the uniformity of vibration across a large mould, the load capacity and the noise and isolation of a machine that shakes tonnes of concrete. First edition, in force since 1 October 2026. It was issued on 31 March 2026 and takes effect on 1 October 2026, as a first edition. The document is under the responsibility of the China Machinery Industry Federation. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the classification and marking of vibration molding platforms for precast concrete components, technical requirements, and describes the corresponding test methods. Inspection rules, marking, packaging, transportation, installation and storage were established. This document applies to the manufacture of vibration molding platforms for the production of precast concrete components.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 191 Packaging and Storage Graphic Symbols

GB/T 2893.2 Graphical symbols, safety colors, and safety signs - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 A work platform with a horizontally arranged surface, which uses vibration to compact precast concrete components.

Note. It generally consists of a mold table, a vibration source device and other mechanisms (hereinafter referred to as "vibration table").

3.2 A device capable of generating vibration and transmitting the vibrational force to the mold table.

3.3 A vibration table in which the vibration source device is fixed in a position relative to the ground.

Note. Vibration tables are divided into two types. fixed-source integral vibration tables (hereinafter referred to as "integral vibration tables") and fixed-source split vibration tables (hereinafter referred to as "split vibration tables"). (Table) In an integral vibration table, the mold platform and vibration source device are connected as a whole; in a split vibration table, the mold platform is movable relative to the vibration source device, and vibration molding is achieved. The mold table is connected to the vibration source device by a clamping mechanism. When the vibration is complete, the clamping mechanism is released, the mold table separates from the vibration source device, and moves to the next one. Workstation.

3.4 A vibration table with a fixed mold base and a moving vibration source device relative to the ground.

4 Basic quality requirements

GB/T 15706 General Principles for Safety Design of Machinery. Risk Assessment and Risk Reduction

JB/T 13712 Noise Measurement Methods and Limits for Construction Machinery and Equipment