



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

GB/T 41502.1-2022

**Building construction machinery and equipment - Internal
vibrators for concrete - Part 1: Terminology and commercial
specifications**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents" drafted.

This document is part 1 of GB/T 41502 "Internal Concrete Vibrators for Construction Machinery and Equipment". GB/T 41502

The following sections have been published.

--- Part 1. Terminology and commercial specifications.

This document is equivalent to ISO 18651-1.2011 "Building Construction Machinery and Equipment Internal Concrete Vibrator Part 1. Technique

Language and Business Specifications.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

Unifying and standardizing the terminology, commercial specifications and technical parameters of internal concrete vibrators will help to standardize internal concrete vibration in my country

market and promote technical exchanges between industries.

In the concrete pouring construction, the internal concrete vibrator is widely used because of its fast and high efficiency. Internal concrete vibrator

The unification of terminology and commercial specifications of actuators ensures smooth communication and cooperation between product manufacturers and users, and technical parameter inspection procedures

The specification provides support for promoting the improvement of product quality and promoting the healthy development of the industry.

GB/T 41502 is a standardized specification used to determine internal concrete vibrators, and is intended to consist of two parts.

--- Part 1. Terminology and commercial specifications. The purpose is to unify and standardize terminology and commercial specifications for interior concrete vibrators.

--- Part 2. Technical parameter inspection procedures. The purpose is to standardize the inspection procedures and technical parameters of internal concrete vibrators.

Require.

Construction Machinery and Equipment Internal Concrete Vibrator

Part 1. Terminology and business specifications

1 Scope

This document defines the terminology, classification and commercial specification of internal concrete vibrators.

This document applies to internal concrete vibrators.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

Terms and definitions)

Note. GB/T 18576-2001 Terms and Definitions of Construction Machinery and Equipment (idt ISO 11375:1998)

3 Terms and Definitions

ISO 11375 and the following terms and definitions apply to this document.

3.1

A vibrator that transmits power from the prime mover to the vibrator head via a flexible shaft.

Note. The flexible shaft can be attached with an outer sheath, which is allowed to be held

during use.

3.1.1

The power of the vibrator is transmitted from the motor to the vibrator of the vibrator head through the flexible shaft.

Note 1. The flexible shaft can be attached with an outer sheath, which is allowed to be held during use.

Note 2. See Figure A.8 in Appendix A for an example.

3.1.2

The power of the vibrator is transmitted from the internal combustion engine to the vibrator of the vibrator head through the flexible shaft.

NOTE. An example is shown in Figure A.9.

3.2

Both the motor and the vibrator are placed in the vibrator of the vibrator head.

Note 1. The vibrator is generally composed of a frequency conversion unit, a protective tube and a control box with a switch.

Note 2. The vibrator can be divided into the external frequency conversion unit type and the integrated electronic frequency converter type.

Note 3. Examples are shown in Figure A.2, Figure A.3 and Figure A.4.