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

GB 3883.12-2012

Replacing GB 3883.12-2007

**Safety of hand-held motor-operated electric tools -- Part 2:
Particular requirements for concrete vibrators**

手持式电动工具的安全 第2部分：混凝土振动器的专用要求

(English Translation)

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Foreword

All technical contents of this section is mandatory.

GB 3883 "Safety of hand-held electric tools" is the safety standard for hand-held power tools from Part 1 General requirements and Requirements for Part 2 composition. GB 3883 composition "safe hand-held electric tools" are as follows.

--- GB 3883.1 "The first part of the security hand-held power tools. General requirements"

--- GB 3883.2 "Safety - Part 2 hand-held power tools. screwdrivers and impact wrenches."

--- GB 3883.3 "safe hand-held electric tools Part II. grinders, polishers and disc sanders requirements"

--- GB 3883.4 "Safety of hand-held electric tools Part 2. Non-disc sanders and polishers other special requirements"

--- GB 3883.5 "The second part of the security hand-held power tools. circular saws"

--- GB 3883.6 "Safety - Part 2 hand-held power tools. electric drills and impact drills requirements"

--- GB 3883.7 "Safety handheld power tool Part 2. requirements for hammers tool"

--- GB 3883.8 "Safety of hand-held electric tools Part 2. Particular requirements for electric shears and of"

--- GB 3883.9 "Safety - Part 2 hand-held power tools. tappers requirements"

--- GB 3883.10 "safe hand-held electric tools Part II. Particular requirements for planers"

--- GB 3883.11 "handheld power tool safety Part 2. reciprocating saws (jig, saber saws) special requirements"

--- GB 3883.12 "Safety - Part 2 hand-held power tools. Particular requirements for concrete vibrators"

- GB 3883.13 "the second part of the security hand-held power tools. non-flammable liquid spray guns for special requirements"
- GB 3883.14 "the second part of the security hand-held power tools. Particular requirements for chain saws."
- GB 3883.15 "the second part of the security hand-held power tools. pruning shears requirements"
- GB 3883.16 "safe hand-held electric tools Part II. Particular requirements for tackers"
- GB 3883.17 "the second part of the security hand-held power tools. routers and trimmers special requirements"
- GB 3883.18 "the second part of the security hand-held power tools. Particular requirements for marble cutters"
- GB 3883.19 "safe hand-held electric tools Part 2. Particular requirements for drain cleaners."
- GB 3883.20 "Safety - Part 2 hand-held power tools. requirements for strapping"
- GB 3883.21 "Safety - Part 2 hand-held power tools. band saws"
- GB 3883.22 "Safety handheld power tool of the second part. the requirements for slotter" this section GB 3883 Part 2. Particular requirements for concrete vibrators.

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

This partial replacement GB 3883.12-2007 "secure a second portion of the hand-held power tool. the requirements for concrete vibrators", Compared with GB 3883.12-2007, the main changes are as follows.

- in "Terms and Definitions", changed the definition 3.101 for concrete vibrators (see 3.101);
- In the "moisture resistance", a change of 14.1;
- In the "mechanical strength", the NA 20.5;
- In the "structure", the 21.32 NA;
- In the "external power supply and the coupling cord", modify the provisions of "a power switch and the parts in contact with the cable length" (see 24.101);
- increase typical design for concrete vibrators (FIG. 101, FIG. 102);
- modified appendix K, Appendix L;
- of 3.2.9,8.1,17.2,18.101,20.101,24.4,24.12 editorial changes.

This section uses the translation method is equivalent to using 60745-2-12 IEC .2008

(version 2.1) security "hand-held power tools section 2-12 Points. Particular requirements for concrete vibrators ", and identical with IEC 60745-1:2006 (version 4.0)" safety first hand-held power tools Part I. General requirements "established by GB 3883.1-2008" The first part of the security hand-held power tools. General requirements "used together.

This section states that "suitable", showing the corresponding provisions applicable in GB 3883.1-2008; stated in this section, "Change", and should in this section prevail provisions; stated in this section, "Edit", and indicates the corresponding provision of GB 3883.1-2008 content should be present After some changes the contents of the subject, and the provision of other content still apply; this states "addition", expressed in addition to compliance with GB 3883.1-Outside of the corresponding provision 2008, this section shall comply with the added provision.

This section was proposed by China Electrical Equipment Industrial Association.

This part of the jurisdiction of the National Power Tools Standardization Technical Committee (SAC/TC68).

This section was drafted. Shanghai Electric Tool Research Institute.

This part drafter. Pan Shunfang, Libang Association, Chen Jianqiu, Liu Jiang.

Previous versions of this part of the case released.

--- GB 3883.12-1985, GB 3883.12-1991, GB 3883.12-2007.

Safety of hand-held power tools Part 2. Particular requirements for concrete vibrators

1 Scope

In addition to the following provisions, GB 3883.1-2008 of this chapter apply.

increase.

This section applies to concrete vibrators.

2 Normative references

This chapter GB 3883.1-2008 is applicable.

3 Terms and Definitions

In addition to the following provisions, GB 3883.1-2008 of this chapter apply.

3.2.9

change as follows.

Normal load Filled tool to achieve continuous operation of the tube length and loading rods as in normal use. Run-time immersion vibrator filled with a certain the amount of water in

the vessel, the amount of water is at least 50 times the volume of the rods.

About 50% of the diameter of the container the water level in the vessel.

Height of the container does not cause water spilled height to test.

increase.

3.101

Concrete vibrator the concrete tamping tool for. Concrete vibrator excitation members (rods) for the low amplitude vibration, and the need to insert a mixed tamping Concrete mixtures work. Concrete vibrator can be designed in one of the following.

a) and the motor are disposed within the vibrating mechanism vibrating rod, built by a long tube is coupled with the cable portion of the power switch, Assembly or the power converter and a switch connected to the vibration of the handle bar. Long tubes may be used as a handle (see FIG. 101);

b) a vibration mechanism is provided only in the vibrating rod, divided by a flexible shaft built long tube by the electric motor, and a power switch composed of a handle from the portable unit is connected with the rods (see FIG. 102).

4 General requirements

This chapter GB 3883.1-2008 is applicable.

General requirements Test 5 this chapter GB 3883.1-2008 is applicable.

6 Void

Category 7

This chapter GB 3883.1-2008 is applicable.

8 Signs and instructions

In addition to the following provisions, GB 3883.1-2008 of this chapter apply.

8.1

Addition.

After the first four dashes increase.

---place of origin;