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Building construction machinery and equipment — Machinery for concrete surface floating and finishing — Part 1: Commercial specifications

Part 1: Commercial specifications

<u>Machines et matériels pour la construction des bâtiments — Talocheuses-lisseuses de mortier —</u>

Partie 1: Spécifications commerciales Teh Standards

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO-documents document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawnISO draws attention to the possibility that some of the elements implementation of this document may be involve the subjectuse of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents-ISO-. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 195, *Building construction machinery and equipment*, Subcommittee SC 1, *Machinery and equipment for concrete work*.

This second edition cancels and replaces the first edition (ISO 13105-1:2014), which has been technically revised.

The main changes are as follows:

—updated normative references.

A list of all parts in the ISO 13105 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Building construction machinery and equipment — Machinery for concrete surface floating and finishing —

Part 1:

Commercial specifications

1 Scope

This document establishes the content for commercial specifications for machines used for concrete surface floating and finishing (also known as power trowels). This includes pedestrian-controlled equipment and ride-on equipment.

This document does not address strike-off type machines, commonly known as screeds.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 13105-_2, Building construction machinery and equipment — Machinery for concrete surface floating and finishing — Part 2: Safety requirements and verification

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 13105-2 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- ——IEC Electropedia: available at https://www.electropedia.org/

3.1

power trowel

motor-powered machine with rotating tools for floating and finishing freshly placed concrete

3.2

rotor

rotating assembly including the *blades* (3.3(3.3)) and means to pitch blades

3.3

blade

working tool which contacts with the concrete surface

3.4

handle

pole

device on pedestrian-controlled *power trowel* (3.1(3.1)) to enable the operator to hold and manoeuvre the machine

3.5

retardant

liquid finishing aid

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3.6

pitch

angle between the surface of the blade (3.3(3.3)) and the concrete surface

Note 1 to entry: This can be fixed or adjustable.

3.7

operating mass

mass of the base machine, with equipment and empty attachment in the most usual configuration as specified by the manufacturer, and with the operator (75 kg), full fuel tank and all fluid systems (i.e. hydraulic oil, transmission oil, engine oil, engine coolant) at the levels specified by the manufacturer and, when applicable, with sprinkler water tank(s) half full-

Note 1 to entry: The mass of an operator is not included for non-riding machines.

Note 2 to entry: Ballast mass at delivery can be included if specified by the manufacturer.

3.8

nominal mass

mass of the machine equipped with all its parts, the attached tank(s) being empty (dismountable dry weightmass)

min-1

4 Commercial specifications

4.1 General ITeh Standard

The following general data shall be presented. Indianasiteh ai)

- a) model and type
- b) manufacturer
- c) serial number
- d) prime mover (internal combustion engine or electric, pneumatic or hydraulic motor)
 - 1) if internal combustion engine:
 - type (spark ignition or compression ignition)
 - model
 - manufacturer
 - operating speed
 - engine net power as certified kW
 - fuel type
 - fuel tank capacity
 - 2) if electric motor:
 - model and type
 - rated powerrated currentA
 - voltage and frequencyV Hz
 - number of speeds
 - speed range
 min⁻¹