# **INTERNATIONAL STANDARD**

**ISO** 6533

Fifth edition 2020-06

# Forestry machinery — Portable chainsaw front hand-guard — Dimensions and clearances

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### **Foreword**

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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 should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see <a href="https://www.iso.org/directives">www.iso.org/directives</a>).

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This document was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 17, *Manually portable forest machinery*.

This fifth edition cancels and replaces the fourth edition (ISO 6533:2012), which has been technically revised.

The main changes compared to the previous edition are as follows:

- to reflect worst case conditions, it has been clarified, that handle clearance between front handle and front hand-guard, measured with gauge A, shall be fulfilled without pre-load on the front hand-guard as described in Clause 4 b) 2);
- to reflect worst case conditions, it has been clarified that height  $H_1$  shall be passed with pre-load on the front hand-guard as described in Clause 4 b) 2) and  $H_{1A}$  without pre-load on the front hand-guard;
- to proscribe direct contact by the fingers (≤120 mm), a safety radius > 120 mm around the closest unprotected part of the saw-chain was defined.

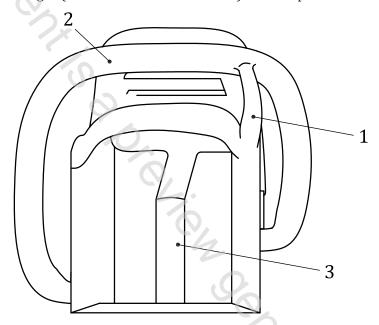
Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at <a href="https://www.iso.org/members.html">www.iso.org/members.html</a>.

# Forestry machinery — Portable chain-saw front handguard — Dimensions and clearances

## 1 Scope

This document specifies the dimensions and clearances for front hand-guards and their openings on portable hand-held chain-saws. These dimensions and clearances ensure the necessary safety provided by the hand-guard, which serves as both a shield between the operator's hand and the saw-chain and as an actuator for manually operated chain brakes.

For chain-saws with wrap around handles (see <u>Figure 1</u>), this document is not applicable to the portion of the front handle to the right (when viewed from the rear) of the top brace.



#### Key

- 1 top brace
- 2 front handle
- 3 rear handle

Figure 1 — Example of a chain-saw with a wrap around the handle — Rear view

#### 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 6531, Machinery for forestry — Portable chain-saws — Vocabulary

IEC 61032, Protection of persons and equipment by enclosures — Probes for verification