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**Forestry machinery — Portable chain-  
saw front hand-guard — Dimensions  
and clearances**

*Machines forestières — Protecteur de la main tenant la poignée avant  
des scies à chaîne portatives — Dimensions et dégagements*





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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 [www.iso.org/directives](http://www.iso.org/directives)).

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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](http://www.iso.org/iso/foreword.html).

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 ( $\leq 120$  mm), a safety radius  $> 120$  mm around the closest unprotected part of the saw-chain was defined.

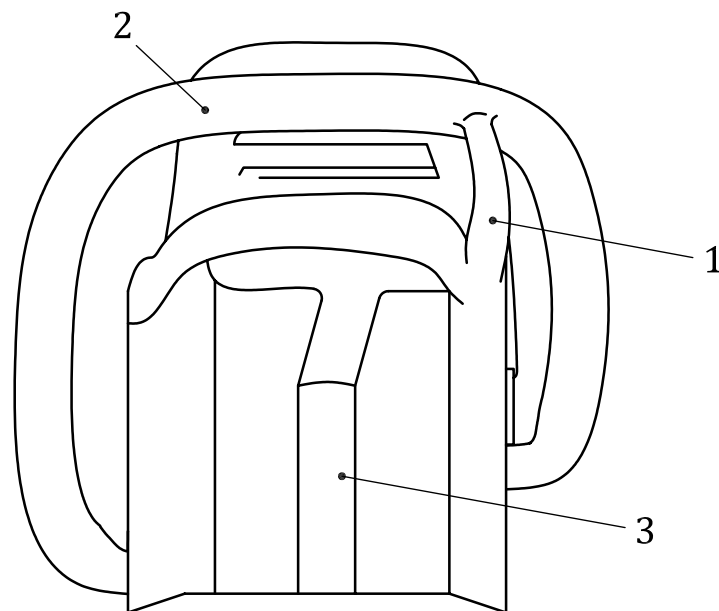
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# Forestry machinery — Portable chain-saw front hand-guard — Dimensions and clearances

## 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 [Figure 1](#)), 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*