

INTERNATIONAL
STANDARD

ISO
6533

Second edition
1993-06-15

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

iTeh STANDARD PREVIEW
*Machines forestières — Dispositif de protection de la main tenant la
poignée avant des scies à chaîne portatives — Dimensions*
(standards.iteh.ai)

ISO 6533:1993

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Reference number
ISO 6533:1993(E)

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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This second edition cancels and replaces the first edition (ISO 6533:1983), of which it constitutes a technical revision.

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Forestry machinery — Portable chain-saw front hand-guard — Dimensions

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1 Scope

This International Standard specifies the dimensions and clearances for front hand-guards on portable hand-held chain-saws, primarily combustion-engine driven saws. This ensures the necessary safety for the operator, in protecting him from a moving chain.

Any free play in the guide-bar fixing shall be taken up by tightening the guide-bar to the saw body in its uppermost position.

If the guard is a brake arm, a force of 10 N shall be applied, at 45° in a forward and downward direction, at the centre of the top edge when dimensions h_1 , R_1 and R_2 are measured.

2 Dimensions and clearances

The limiting dimensions and clearances of the front hand-guard, measured relative to the centreline of the guide-bar, shall be as shown in figure 1 and table 1.

3 Openings

The front hand-guard shall be designed to prevent the hand from passing through or under the guard, thus preventing it from touching the chain.

Table 1 — Dimensions and clearances

Dimension (see figure 1)	Description	Dimension mm
h_1	Minimum guard height over front handle ^{1) 2)} : before the front hand-guard is released when the front hand-guard is released	20 0
l_1	Minimum effective guard length ^{2) 3)}	100
l_2	Minimum overlap, guard guide-bar vertical to the guide-bar plane	0
h_2	Maximum guard opening ^{3) 4) 5) 6)}	55
h_3	Maximum clearance between the lower edge of the guard and the nearest part of the saw body ^{2) 3) 4) 5) 6)}	55
R_1	Clearance between any part of guard and front handle	min. 40
		max. 70
R_2	Maximum clearance between any part of guard and front handle when the guard is released	100

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- 1) The measurement shall be made perpendicular to the horizontal plane parallel to the centreline of the guide bar.
- 2) The measurement shall apply from the inside surface of the right end of the front handle or the point where the vertical distance between saw housing and handle is 35 mm for dimension l_1 , or to a point 100 mm to the left for dimensions h_1 and h_3 .
- 3) The minimum effective guard length l_1 shall be measured to the furthest point of the front hand-guard at a height of 20 mm over the front handle.
- 4) The intention is to provide an obstacle to prevent the hand from passing through.
- 5) A cylindrical gauge, 56 mm in diameter and 82 mm long, held parallel to the hand-guard and pushed forward with a force of 30 N, shall not pass through. For dimension h_3 the procedure shall be applied between the lower edge of the guard and the saw body in any parallel position over the whole range of 100 mm.
- 6) It is recommended that in future designs, these dimensions should be reduced to 30 mm for slot openings wider than 60 mm.

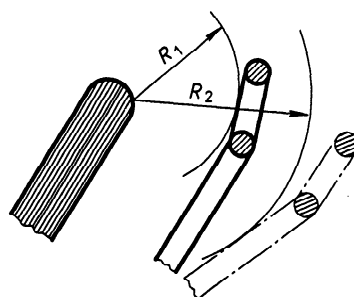
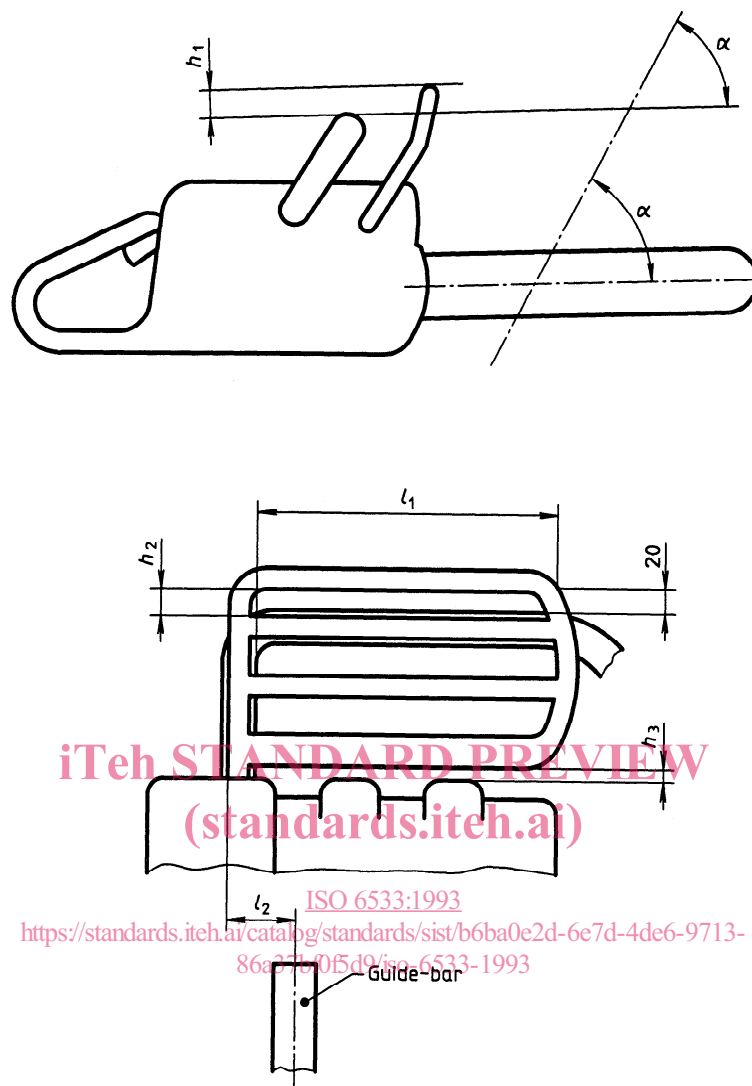


Figure 1 — Dimensions and clearances

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