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Forestry machinery — Portable chain-saws — Determination of handle strength

iTeh STANDARD PREVIEW
*Matériel forestier — Scies à chaîne portatives — Détermination de la
solidité des poignées*
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ISO 7915:1991

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Reference number
ISO 7915:1991(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.

International Standard ISO 7915 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*.

This second edition cancels and replaces the first edition (ISO 7915:1985), of which table 1 has been technically revised and a test load duration recommended.

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Forestry machinery — Portable chain-saws — Determination of handle strength

1 Scope

This International Standard specifies a test method and strength requirements for the handles of portable hand-held internal combustion engine chain-saws for use primarily in forestry.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 6533:1983, *Forestry machinery — Portable chain saws — Front hand guard — Dimensions.*

ISO 7914:1986, *Forestry machinery — Portable chain saws — Minimum handle clearance and sizes.*

3 Test procedure

3.1 The test temperature shall be $20\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$.

3.2 The test loads specified in 3.3 should be applied for a maximum duration of 15 s.

3.3 The chain-saw handles shall be subjected to static loads as specified in table 1, separately applied at the handle grip midpoint, in each of the six directions illustrated in figure 1. In each case the chain-saw shall be fixed rigidly by the guide-bar clamped in a vice with a minimum clearance of 15 mm between the vice and any part of the body of the saw, so that they do not touch during the test.

The load shall be applied over an area of not more than 75 mm in width, centred on the normal hand-grip area for both the front and rear handles. Where necessary, brackets may be clamped to the handles to facilitate side loading or loading in the Z direction.

The load direction shall remain constant relative to the mounting, despite any deflections of the handles or saw.

4 Test requirements

The chain-saw handles shall not break or crack when tested in accordance with clause 3. Before and after the test, the dimensions of the handles shall comply with ISO 6533 and ISO 7914.

Table 1 — Handle strength test loads

Chain-saw engine displacement cm ³	Minimum test loads		
	Forwards and backwards X ₁ and X ₂ N	Up and down Y ₁ and Y ₂ N	Right and left Z ₁ and Z ₂ N
≤ 50	700	700	350
> 50	1350	1350	700

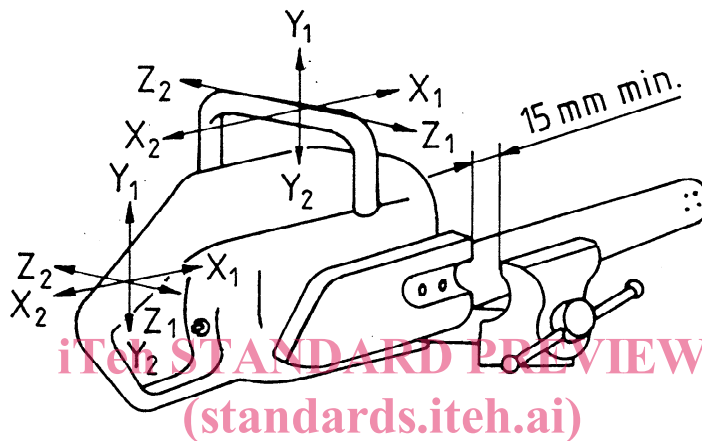


Figure 1 — Directions of load applications

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