

International Standard



7914

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Forestry machinery — Portable chain saws — Minimum handle clearance and sizes

Machines forestières — Scies à chaîne portatives — Espaces libres minimaux et dimensions des poignées

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7914 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*.

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Forestry machinery – Portable chain saws – Minimum handle clearance and sizes

1 Scope and field of application

This International Standard lays down the dimensions of the front and rear handle clearance and the handle dimensions of portable hand-held chain saws in order to ensure safe and comfortable operation.

2 General requirements

2.1 Front handle

The front handle shall be so constructed and positioned that it presents an unobstructed surface throughout the working area.

2.2 Rear handle

The rear handle shall provide enough space behind the throttle trigger for a gloved hand operating the saw.

3 Clearance dimensions

The minimum clearance dimensions of the handles shall be as shown in the table and the appropriate figures in accordance with the indications in the table.

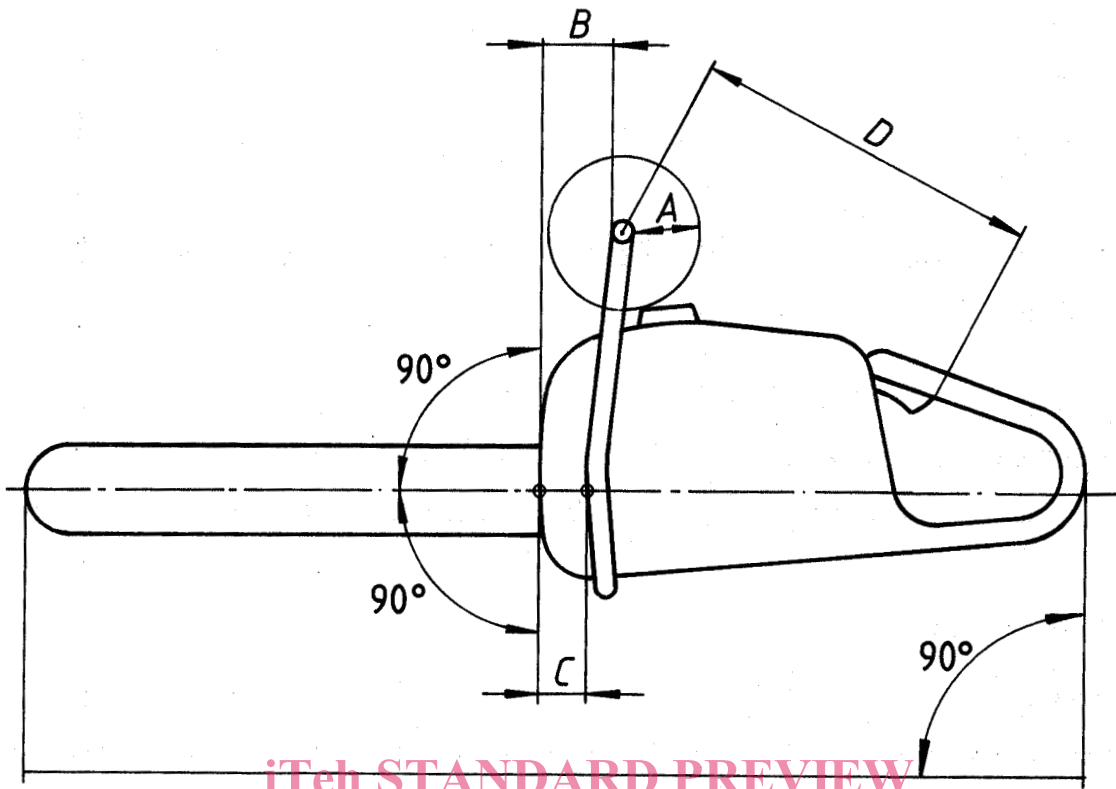
Table – Clearance dimensions

| Handle | Description | Dimension (see figures) | Figure | Minimum size mm |
|--------------------|--|-------------------------|--------|-----------------|
| Front | Finger clearance in the handle grip area. | A | 1 | 35 |
| | Handle grip area. | — | 2 | — |
| | Clearance between the front of the chain saw body and the handle at the top measured 60 mm to the left of the guide bar plane. ¹⁾ | B | 1 | 40 |
| | Clearance between the front of the chain saw body and the handle measured at the centre-line of the guide bar. | C | 1 | 25 |
| Front and rear | Perimeter of the cross-section of the handle. | — | — | 65 |
| | Distance from rear side of the throttle trigger to the centre of front handle at the top. | D | 1 | — ²⁾ |
| Rear ³⁾ | Finger clearance at the released throttle trigger. | E | 3 | 30 |
| | Clearance below the released throttle trigger. | F | 3 | 35 |
| | Clearance behind the released throttle trigger. | G | 4 | 4 × 25 |

1) If the saw has a permanently fixed spiked bumper, the measurement shall be made from the plane of the root of the bumper teeth.

2) Dimension D shall be 225 mm. If an overall length of less than 225 mm is desirable, dimension D should not be less than 30 % of the overall length of the saw, including guide bar and chain.

3) The dimensions shall be gauged free from play i.e. with a slight initial pressure on the throttle trigger.



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Figure 1 — Front handle clearances and distance between front and rear handle

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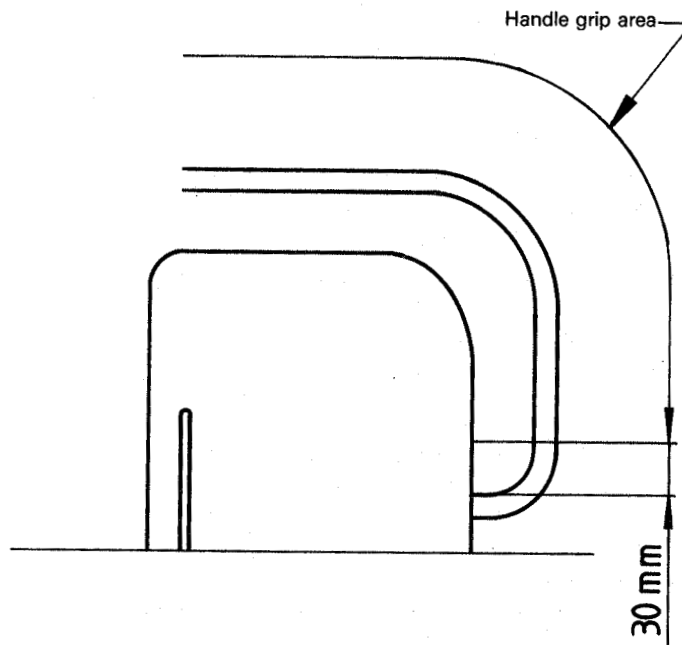


Figure 2 — Handle grip area

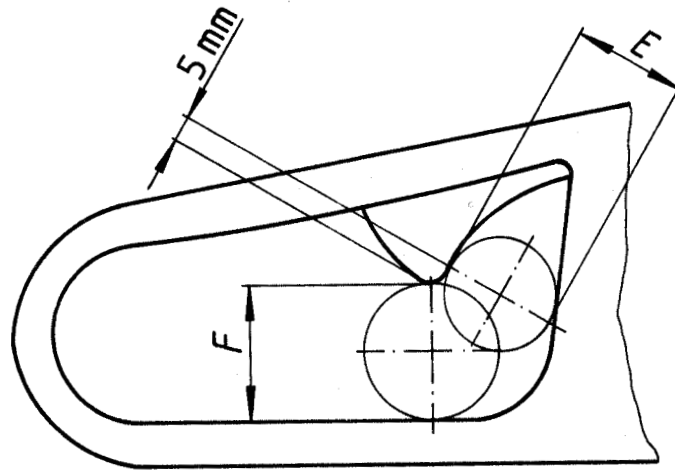
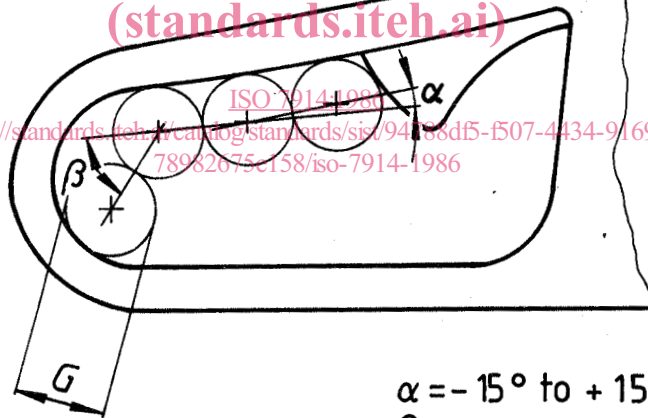


Figure 3 — Clearance at and below throttle trigger

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$$\alpha = -15^\circ \text{ to } +15^\circ$$

$$\beta = -75^\circ \text{ to } +75^\circ$$

Figure 4 — Clearance behind throttle trigger