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**Forestry machinery — Portable chain-  
saws — Determination of balance and  
maximum holding moment**

*Matériel forestier — Scies à chaîne portatives — Détermination de  
l'équilibre et du moment de sustentation maximal*



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## Foreword

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ISO 8334 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 17, *Manually portable forest machinery*.

This second edition cancels and replaces the first edition (ISO 8334:1985), which has been technically revised to cover not only chain-saws for forest service but those for tree service as well. It includes the additional determination of lateral balance and maximum holding moment. All limits have been removed and are now to be set using the product standards.

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# Forestry machinery — Portable chain-saws — Determination of balance and maximum holding moment

## 1 Scope

This International Standard specifies a test method for the longitudinal and the lateral balance of portable combustion engine hand-held chain-saws.

It also provides a test method for determining the maximum holding moment of tree service chain-saws.

## 2 Normative references

The following referenced documents are indispensable for the application 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 hand-held chain-saws — Vocabulary*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6531 apply.

## 4 Determination of balance

### 4.1 Preparation

#### 4.1.1 Chain-saw

The balance shall be checked on a normal production saw in a new and clean condition. Fuel and oil tanks shall be half full. The saw shall be fitted with a guide bar and an associated saw chain as specified below. The guide bar shall be tightened to its uppermost position.

The chain-saw as specified in the instruction handbook or according to the manufacturer's instructions shall be tested in both of the following two configurations:

- a) shortest and lightest guide bar, without spiked bumper (if detachable);
- b) longest and heaviest guide bar, with spiked bumper (if available).

The length and mass of the guide bars used in the test shall be listed in the test report.

#### 4.1.2 Test equipment

The suspension method shall not influence the test result.