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**Machinery for forestry — Winches —  
Performance requirements**

*Matériel forestier — Treuils — Exigences de performance*



Reference number  
ISO 6687:1994(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 6687 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 15, *Machinery for forestry*.

This second edition cancels and replaces the first edition (ISO 6687:1982), of which it constitutes a technical revision.

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# Machinery for forestry — Winches — Performance requirements

## 1 Scope

This International Standard specifies a uniform method of defining specification measurements, drum storage capacity, line pull and line speed for winches used in tree harvesting machines.

## 2 Definitions

For the purposes of this International Standard, the following definitions apply (see figure 1 and table 1).

**2.1 barrel diameter,  $D_1$ :** Diameter of the cable drum barrel.

**2.2 flange diameter,  $D_2$ :** Diameter of the cable drum flanges.

**2.3 distance between flanges,  $h$ :** Distance measured between the flanges of the cable drum, measured at half the difference between depth of flange and safety distance:

$$\frac{h_1 - h_3}{2}$$

**2.4 depth of flange,  $h_1$ :** Radial distance from the outside diameter of the cable drum flange to the surface on the cable drum barrel.

**2.5 safety distance,  $h_3$ :** Outmost periphery of the flange or housing that is left free from cable.

**2.6 throat clearance,  $h_2$ :** Minimum distance from the barrel of the cable drum to the winch housing at any point located between the flanges of the cable drum.

NOTE 1 The throat clearance,  $h_2$ , is greater than the depth of flange,  $h_1$ .

## 3 Performance requirements

### 3.1 Symbols and units

See table 1 and figure 1.