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Machinery for forestry — Winches — Performance requirements

Matériel forestier — Treuils — Exigences de performance



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Foreword

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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.