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## Machinery for forestry – Wheeled skidders – Terms, definitions and commercial specifications

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Swedish Standards corresponding to documents referred to in this Standard are listed in "Catalogue of Swedish Standards", issued by SIS. The Catalogue lists, with reference number and year of Swedish approval, International and European Standards approved as Swedish Standards as well as other Swedish Standards.

## Skogsmaskiner – Hjullunnare – Termer, definitioner och handelskrav

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## Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 13861 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 15, *Machinery for forestry*.



# Machinery for forestry — Wheeled skidders — Terms, definitions and commercial specifications

## 1 Scope

This International Standard specifies terminology and required information as a general framework for identifying and describing the main dimensions and features of wheeled skidders.

It is applicable to articulated wheeled cable and grapple skidders as defined in ISO 6814.

**NOTE** The terminology and requirements given in this International Standard will not necessarily all apply to a specific machine. Machines may be characterized by the dimensions and features which are relevant to them.

## 2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 6814:2000, *Machinery for forestry — Mobile and self-propelled machinery — Terms, definitions and classification*.

## 3 Terms definitions and classification

See Figures 1 to 6. The figures are for illustrative purposes only and are not intended to depict specific machines.

All dimensions are with the axles parallel, unless otherwise specified.

### 3.1 General

#### 3.1.1

##### **right (left) hand**

operator's right hand side (left hand side) when facing in the normal direction of travel and with the machine in its primary functional mode

#### 3.1.2

##### **front/rear**

front or rear of the operator, respectively, when facing in the normal direction of travel and with the machine in its primary functional mode

#### 3.1.3

##### **ground reference plane**

##### **GRP**

hard, flat, horizontal surface on which the machine is placed for measurements

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### 3.2 Masses

#### 3.2.1

##### **normal operating mass**

total mass of the machine as specified, fully serviced, with full fluid levels and a 75 kg operator

#### 3.2.2

##### **maximum operating mass**

total mass of the machine as specified, fully serviced, with full fluid levels and a 75 kg operator, including all machine options with the largest tyre or hydro-inflation combination and the manufacturer's maximum specified load

#### 3.2.3

##### **load per axle**

standard and maximum mass on both the front and rear axles

### 3.3 Main machine dimensions

#### 3.3.1

##### **total frame length**

$l_1$   
horizontal distance between the vertical planes perpendicular to the longitudinal axis passing through the farthest points on the front and rear of the machine, including fenders, tow bars, butt plate, etc., but excluding the fairlead, blade, or grapple

#### 3.3.2

##### **overall length**

$l_2$   
horizontal distance from a vertical plane touching the forwardmost point of the machine, blade positioned to give maximum forward reach, to a vertical plane touching the rearmost point of the machine

#### 3.3.3

##### **wheelbase**

$l_3$   
horizontal distance from the centre of the front axle or front bogie axle assembly to the centre of the rear axle or rear bogie axle assembly when both axles are perpendicular to the longitudinal axis

#### 3.3.4

##### **articulation joint to maximum blade arc**

$l_4$   
horizontal distance from the centreline of the articulation joint to a vertical line tangent to the arc of the blade's lower edge as it passes from its maximum height  $h_3$  to the lowest blade position  $h_4$

#### 3.3.5

##### **articulation joint to front of machine**

$l_5$   
horizontal distance from the centreline of the articulation joint to a vertical plane touching the farthest point forward, blade excluded

#### 3.3.6

##### **articulation joint to front axle**

$l_6$   
horizontal distance from the centreline of the articulation joint to the centre of the front axle or front bogie axle assembly