
International Standard



6815

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Machinery for forestry — Hitches — Dimensions

Matériel forestier — Attelages — Dimensions

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Descriptors: forestry equipment, machine elements, towing attachments, drawbars, dimensions.

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.

International Standard ISO 6815 was developed by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, and was circulated to the member bodies in July 1982.

It has been approved by the member bodies of the following countries:

Australia	France	Pakistan
Austria	Germany, F.R.	Poland
Belgium	India	Portugal
Brazil	Iran	Romania
Czechoslovakia	Italy	South Africa, Rep. of
Denmark	Korea, Dem. P. Rep. of	Switzerland
Egypt, Arab Rep. of	Mexico	Turkey
Finland	New Zealand	United Kingdom

The member bodies of the following countries expressed disapproval of the document on technical grounds:

Spain
Sweden
USA
USSR

Machinery for forestry — Hitches — Dimensions

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1 Scope and field of application

This International Standard lays down the essential dimensions of two types of hitches on self-propelled forestry machinery for the attachment of towed implements fitted with drawbars having ring type hitches. Outline requirements for those drawbars, which are necessary to ensure compatibility, are also specified.

2 Definitions

- 2.1 fixed hitch:** A hitch for casual use on non-continuous work, for example, towing a service trailer.
- 2.2 revolving hitch:** A hitch for heavy continuous use, for example, forest soil tillage, ditching, etc.

3 Dimensions

NOTE — The drawings in the figures are indicative only and are not intended to indicate any design features.

The hitches shall be secured against unintended disconnection of towed implement hitch ring.

3.1 Fixed hitch

3.1.1 The essential dimensions of the fixed hitch, which may be of the clevis type or hook type, shall be as shown in figure 1 and given in table 1.

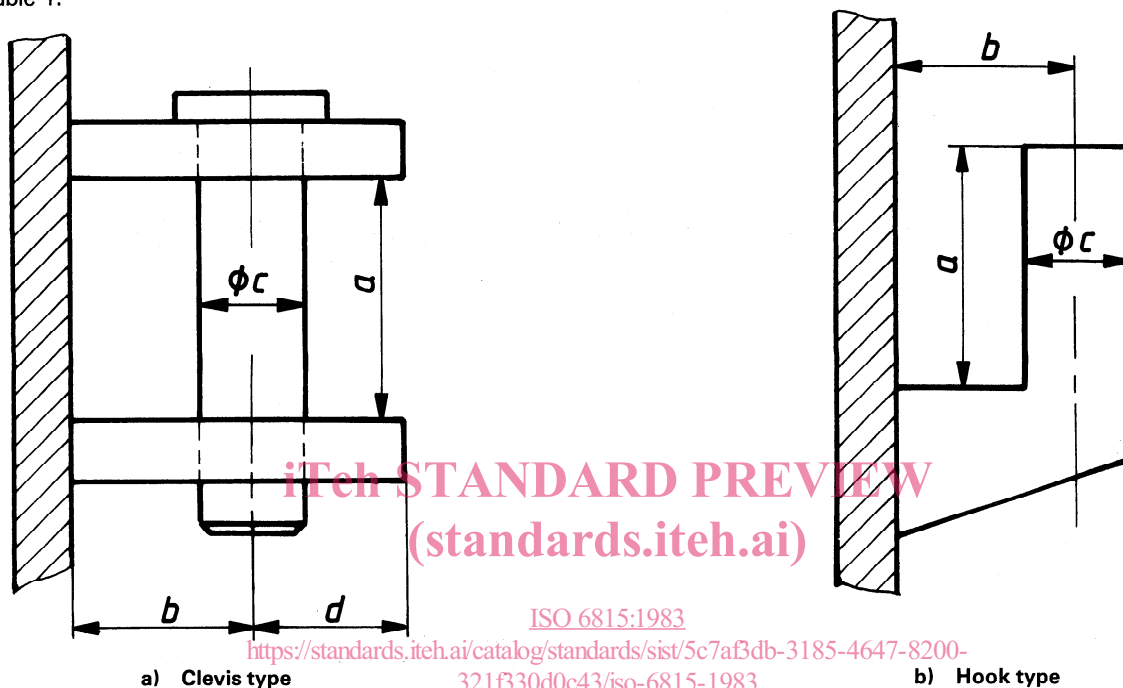


Figure 1 — Dimensions of fixed hitches

Table 1 — Dimensions of fixed hitches

Designation	Symbol	Dimensions mm	
		Category 1	Category 2
Gap of the hitch	<i>a</i>	80 min.	100 min.
Pin distance	<i>b</i>	60 min.	100 min.
Pin diameter	<i>c</i>	35 ± 1	55 ± 1
Clearance radius	<i>d</i> = 1,5 <i>c</i>	52,5 max.	82,5 max.

3.1.2 The design of the implement drawbar ring shall allow the minimum angles of articulation shown in figure 2.

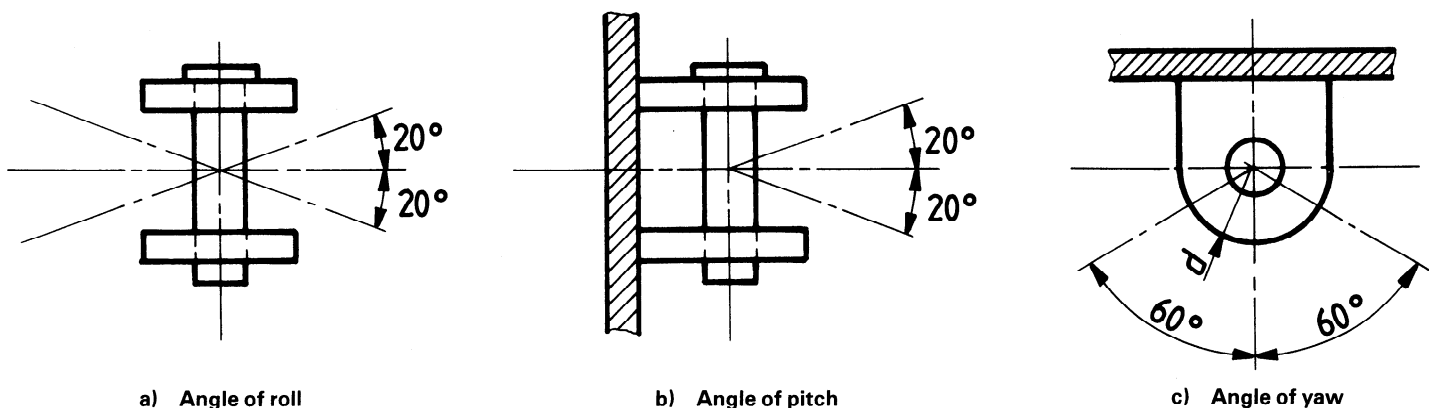


Figure 2 — Minimum angles of articulation with fixed hitches

3.2 Revolving hitch

3.2.1 The essential dimensions of the revolving hitch shall be as shown in figure 3 and given in table 2.

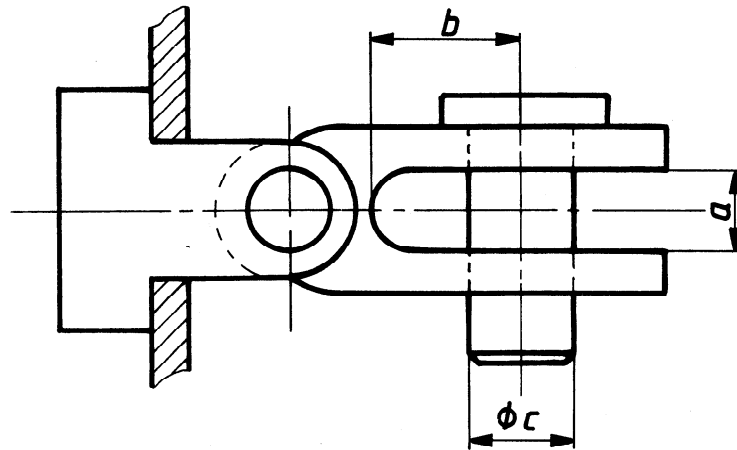


Figure 3 — Dimensions of revolving hitch

Table 2 — Dimensions of revolving hitch

Designation	Symbol	Dimension mm
Gap of the hitch	<i>a</i>	55 ± 1
Pin distance, min.	<i>b</i>	100 ± 1
Pin diameter	<i>c</i>	70 ± 1

3.2.2 The hitch assembly shall be constructed with two joints which allow the following angles of articulation of the clevis (see figure 4):

- Angle of rotation about horizontal longitudinal axis (roll): 360°
- Angle of pitch: ± 45°

3.2.3 The design of the implement drawbar ring shall allow a minimum angle of yaw of ± 90° (see figure 4).

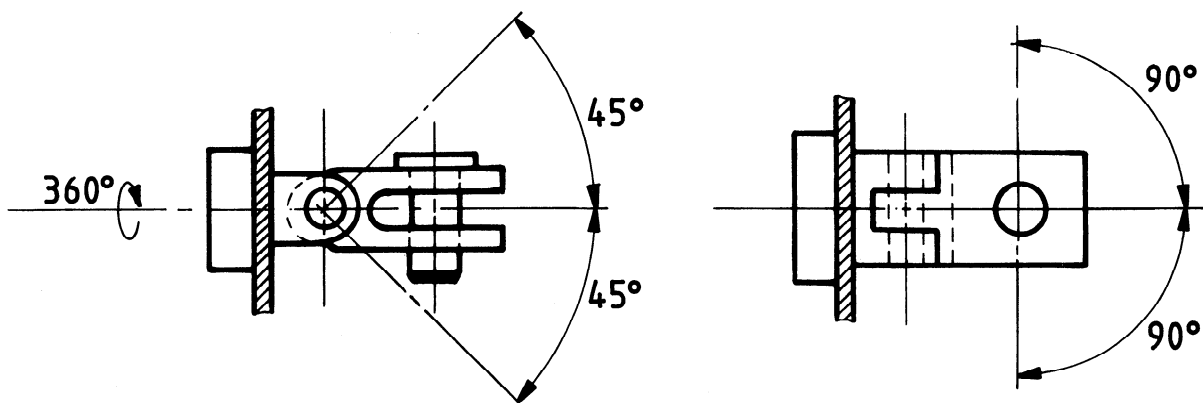


Figure 4 — Minimum angles of articulation with revolving hitch

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