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Agricultural vehicles — Mechanical connections on towed vehicles — Dimensions for hitch rings

Véhicules agricoles — Liaisons mécaniques sur véhicules remorqués — Dimensions des anneaux d'attelage



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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 20019 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 4, Tractors.

This first edition of ISO 20019 cancels and replaces ISO 5692:1979, which has been technically revised.

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Agricultural vehicles — Mechanical connections on towed vehicles — Dimensions for hitch rings

1 Scope

This International Standard specifies dimensional requirements for the attachment of agricultural, non-balanced trailers and implements by means of hitch rings to the rear of towing vehicles equipped with a hook specified in ISO 6489-1. Its purpose is to ensure the interchangeability of the mechanical connections on agricultural towed vehicles.

This International Standard is applicable to rings whose coupling point is below the centre-line of the rear axle and the power take-off (PTO) of the tractor.

NOTE Other International Standards are to be developed for rings above the PTO coupling.

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 economic 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 6489-1:2001, Agricultural vehicles — Mechanical connections between towed and towing vehicles — Part 1: Dimensions of hitch hooks

3 Interchangeability dimensions

3.1 General

The hitch ring and shank shall have the dimensions given in Figures 1 to 3. Interchangeability is ensured provided that the attachment on the towing vehicle is in accordance with ISO 6489-1.

3.2 Trailer shank travel angles

When the trailer shank fitted with the specified hitch ring is fixed to the tractor attachment, the shank shall be free to turn so that the angles formed with the horizontal situated in the tractor's plane of symmetry and passing through the coupling point have the following minimum values.

- Angle of yaw: rotation around a vertical axis passing through the coupling point, minimum value of 60° on both sides.
- Angle of pitch: rotation around a horizontal axis passing through the coupling point and perpendicular to the vehicle's longitudinal plane of symmetry, minimum value of 20° top and bottom.

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