INTERNATIONAL STANDARD

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Agricultural wheeled tractors and attachments — Front loaders — Carriages for attachments

Tracteurs agricoles à roues et accessoires — Chargeuses frontales — Accouplements sur structures pour les accessoires

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Foreword

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ISO 23206 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 4, *Tractors*.

Agricultural wheeled tractors and attachments — Front loaders — Carriages for attachments

1 Scope

This International Standard specifies the dimensions and clearance requirements for the carriages for attachments on agricultural tractors and machines equipped with front loaders and having a maximum load capacity of 30 kN and a maximum unladen tractor weight of 7 500 kg.

2 Terms and definitions

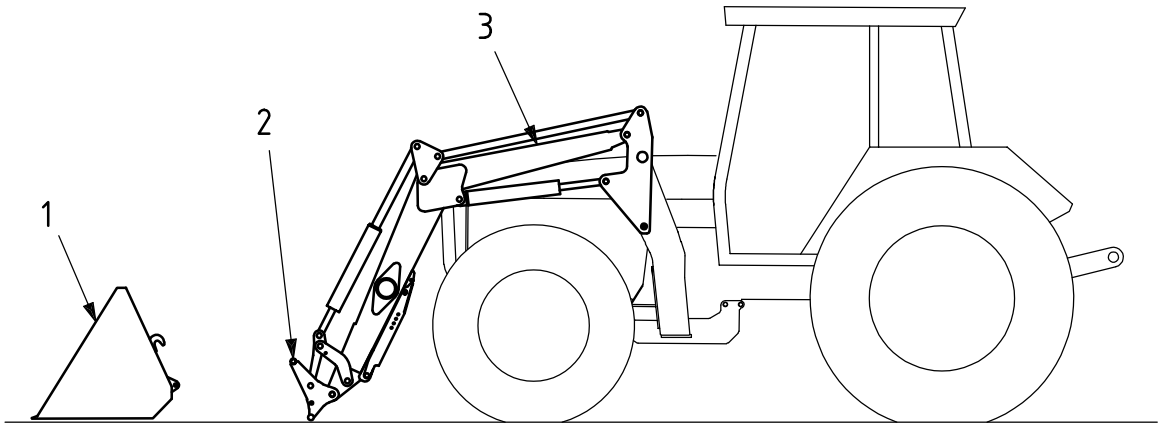
For the purposes of this document, the following terms and definitions apply.

2.1
front loader
detachable unit consisting of lifting arms and fastening devices designed to be mounted on a frame on the front of a tractor and equipped with a carriage for mounting various attachments

See Figure 1.

2.2
attachment
working device to be mounted on and operated with a front loader

See Figure 1.



Key
1 attachment
2 carriage
3 lifting arm

Figure 1 — Tractor with front loader and an attachment

2.3
carriage
coupler assembly at the front loader arm end for mounting various attachments to the front loader

See Figure 1.

2.4
maximum load capacity
maximum vertical lift capacity generated at a point 800 mm horizontal in front of the locking pin of the carriage, when operating the lift and/or tilt cylinders

See Figure 2.

Dimensions in millimetres

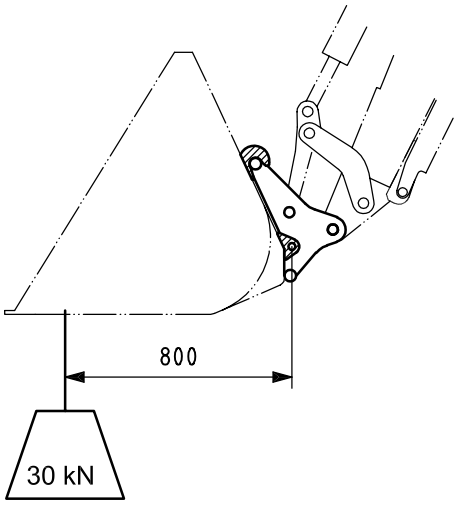


Figure 2 — Maximum load capacity

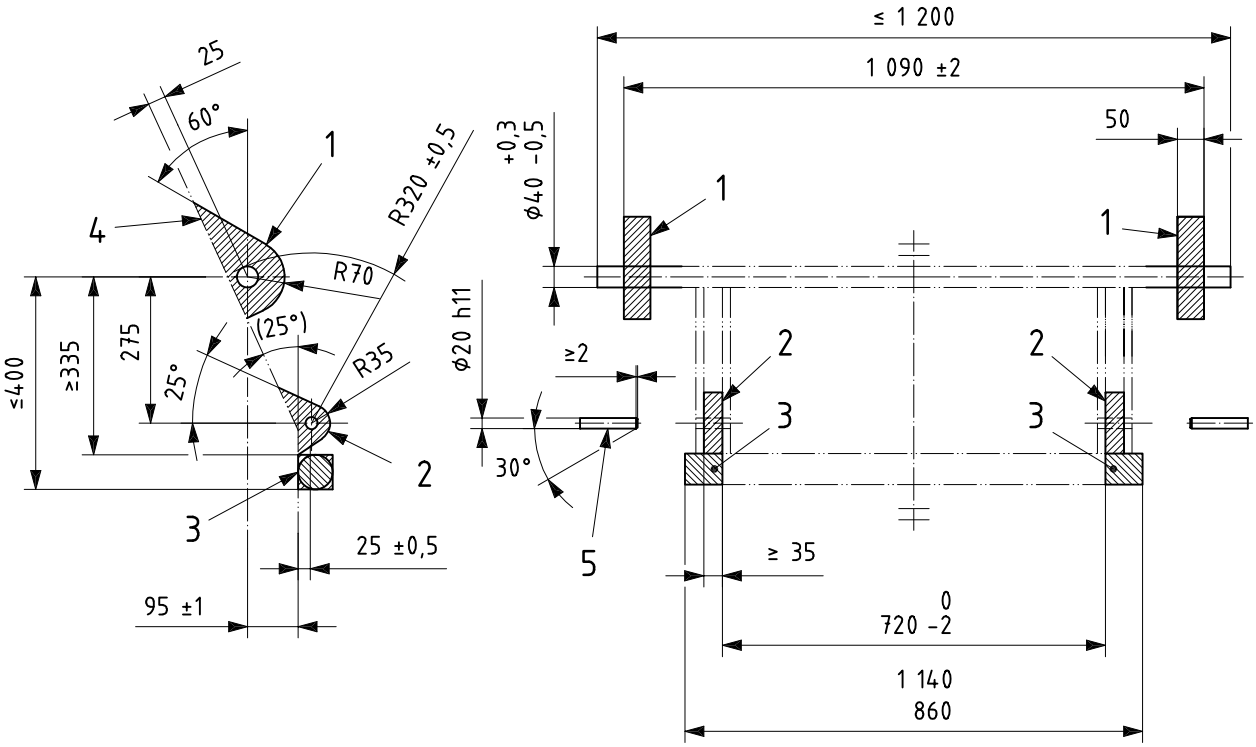
3 Dimensions and clearances

The carriage dimensions and the dimensions associated with the attachment shall be in accordance with Figures 3 and 4.

For the carriage clearance zones, see Figure 3.

For the clearance at the back of the attachment, see Figure 5.

Dimensions in millimetres

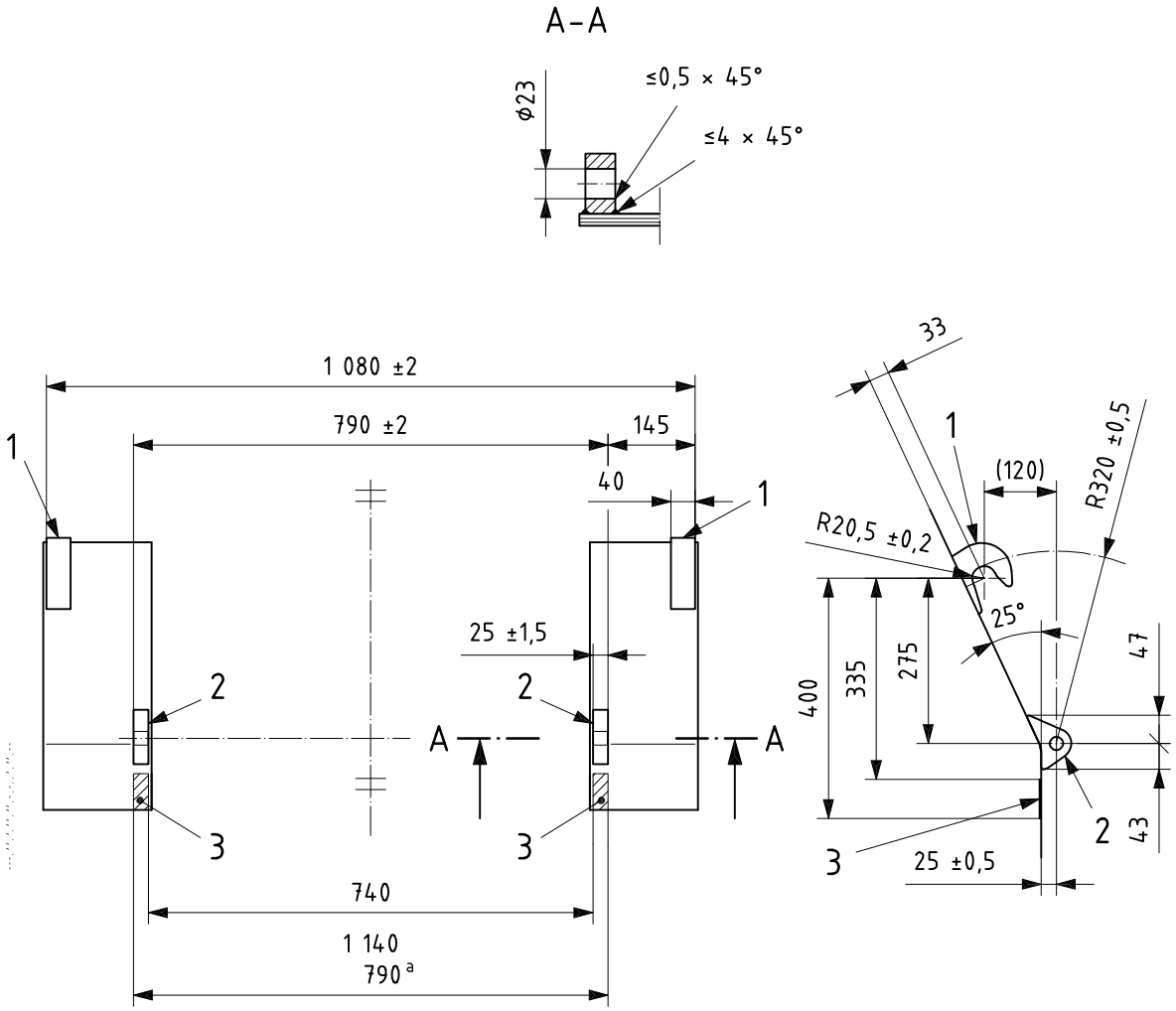


Key

1 clearance zone for hook
2 clearance zone for eyelet
3 buffer for attachment
4 border of front of carriage
5 locking pin

Figure 3 — Carriage dimensions and clearances

Dimensions in millimetres



Key

1 hook

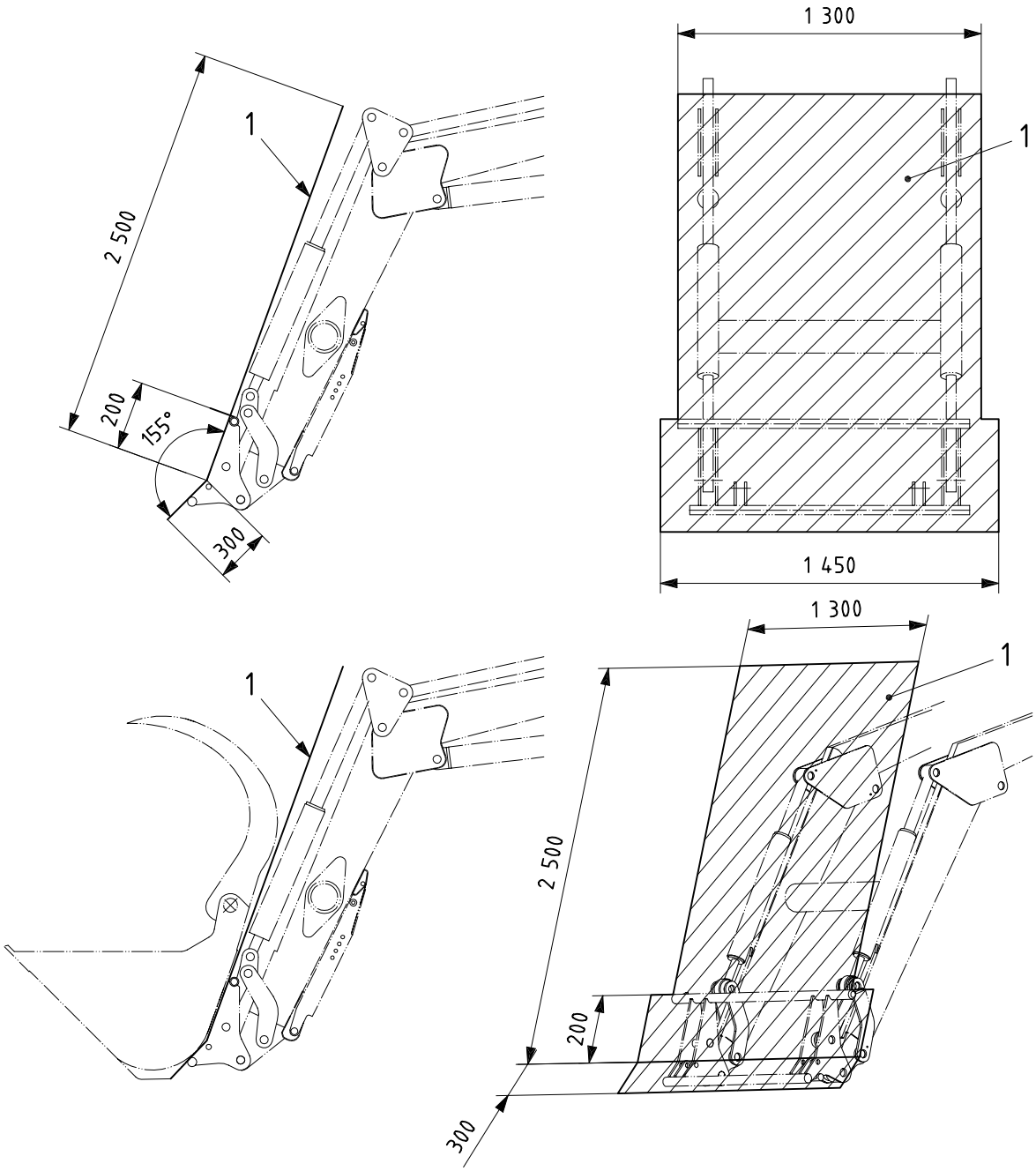
2 eyelet

3 attachment buffer [a]

[a] The buffer shall be wide enough (⩾ 790 mm) so that the attachment does not deform the carriage during normal operation.

Figure 4 — Dimensions associated with the attachment

Dimensions in millimetres



Key

1 clearance

Figure 5 — Clearance at back of attachment

4 Requirements

4.1 General

The front loader manufacturer shall specify the type and capacity of the allowable attachments that can be fitted and safely operated.

4.2 Locking device

The locking pin on the carriage as shown in Figure 3 may be placed either inside or outside of the frame.

4.3 Locking and unlocking

Locking and unlocking of the carriage to the attachment may be operated either from the driver's seat or from a place near the locking device. A means of visually verifying that the locking process is completed shall be provided such that it is visible from the position where the locking device is operated.

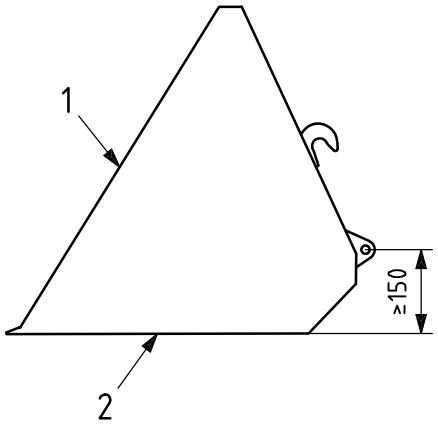
4.4 Clearance zones

Clearance zones 1 and 2 according to Figure 3 and the clearance at the back of the attachment as shown in Figure 5 shall be maintained to facilitate the coupling process.

4.5 Mounting height of eyelet to an attachment

The recommended distance between the base surface and the centre of the eyelet is $\geqslant$ 150 mm. See Figure 6.

Dimensions in millimetres



Key

1 attachment

2 base surface

Figure 6 — Mounting height of eyelet to an attachment

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