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Agricultural tractors and implements — Four-point rigid hitch — Specifications

*Tracteurs et instruments agricoles — Attelage rigide quatre points —
Spécifications*



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Foreword

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Introduction

Many implements need to be mounted rigidly on a tractor, and the four-point rigid hitch provides a tractor with a multi-purpose mounting platform for equipment such as a backhoe, a hedge-cutter, a rear-loader, a winch or a grapple-loader.

The design of the four-point rigid hitch normally makes it possible to use the three-point linkage, the PTO and the mechanical connection at the same time, but it needs, however, to be checked in each case.

The dimensions given in this International Standard are based on the investigations for possible solutions on category 2 tractors. The use of the four-point rigid hitch on other tractor categories may also raise the need for different categories of the four-point hitch.

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Agricultural tractors and implements — Four-point rigid hitch — Specifications

1 Scope

This International Standard specifies the dimensions and locations on an agricultural tractor of the attachment points for a four-point rigid hitch, used for mounting equipment (see the Introduction). It also specifies the location of the implement when attached to the tractor as well as the reserved implement zone.

2 Definitions

For the purposes of this International Standard, the following definitions apply.

2.1 tractor attachment points: Combination of two upper and two lower fixing points which can hold the implement rigidly.

2.2 implement attachment points: System of four rigid pins that constitute the attachment points on the implement.

3 Strength requirement

The tractor and the implement attachment points, including all parts and their attachments, shall be able to withstand the foreseeable forces that may occur when part of the tractor is lifted or tilted by the implement.

The design of the four-point rigid hitch shall be such that the sideward guiding and location of the implement onto the tractor occurs on the inner edges of the lower implement attachment points.

NOTE 1 Allowable loads on the four-point hitch are to be stated by the tractor manufacturer.

4 Dimensions and arrangement of implement attachment points

The dimensions of the implement attachment points and how they are to be arranged shall be as specified in figure 1.

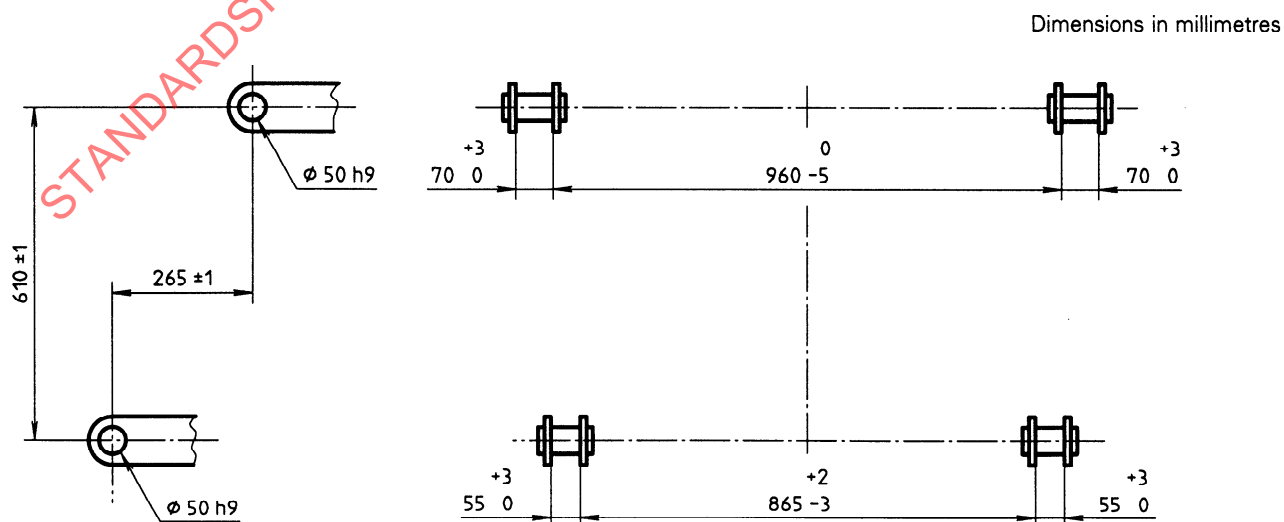


Figure 1 — Dimensions and arrangement of implement attachment points

5 Location of attachment points on implement

The location of the implement attachment points on the implement and the minimum distance from the ground to the lower points on a parked implement shall be as shown in figure 2.

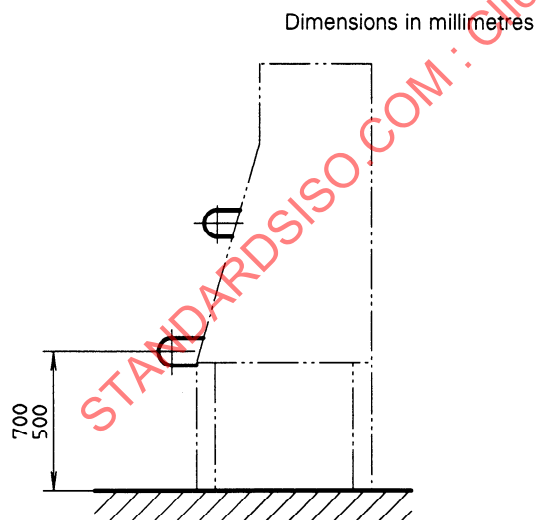


Figure 2 — Location of attachment points on implement

6 Location of implement on tractor

The location of the implement attachment points when the implement is rigidly attached to the tractor shall be as shown in figure 3.

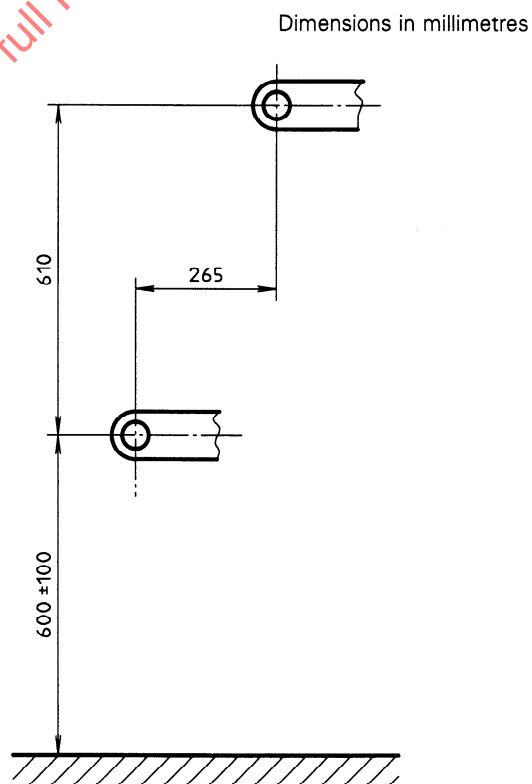


Figure 3 — Location of attachment points when fixed to tractor

7 Reserved implement zone

7.1 The zone in figures 4 and 5 gives the limits for the implement around the attachment points generally allowing clearance for other equipment connected on either the three-point linkage, the hook or the drawbar.

When designing a specific implement for the four-point hitch, its volume may in some cases need to be limited differently to ensure clearance for another implement connected to the tractor.

To prevent interference with the tractor attachment points, the clearance zone around the mounting points shall be maintained.

7.2 If the implement is not meant to be used together with a three-point mounted appliance, the dimensions of 300 mm min. and 160 mm max. (in the left view in figure 5) may be altered. In such cases it may be necessary or suitable to demount the links of the three-point linkage.

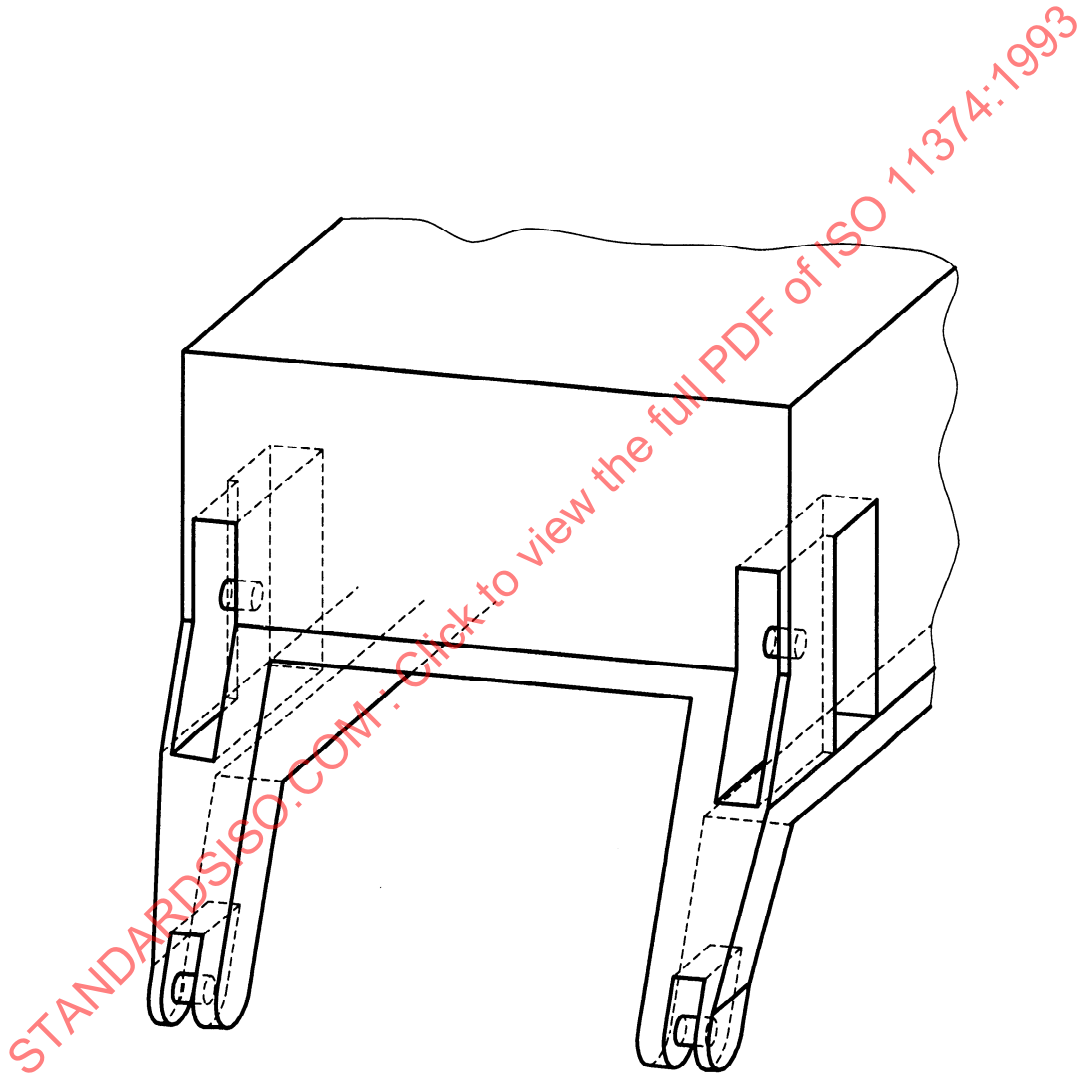
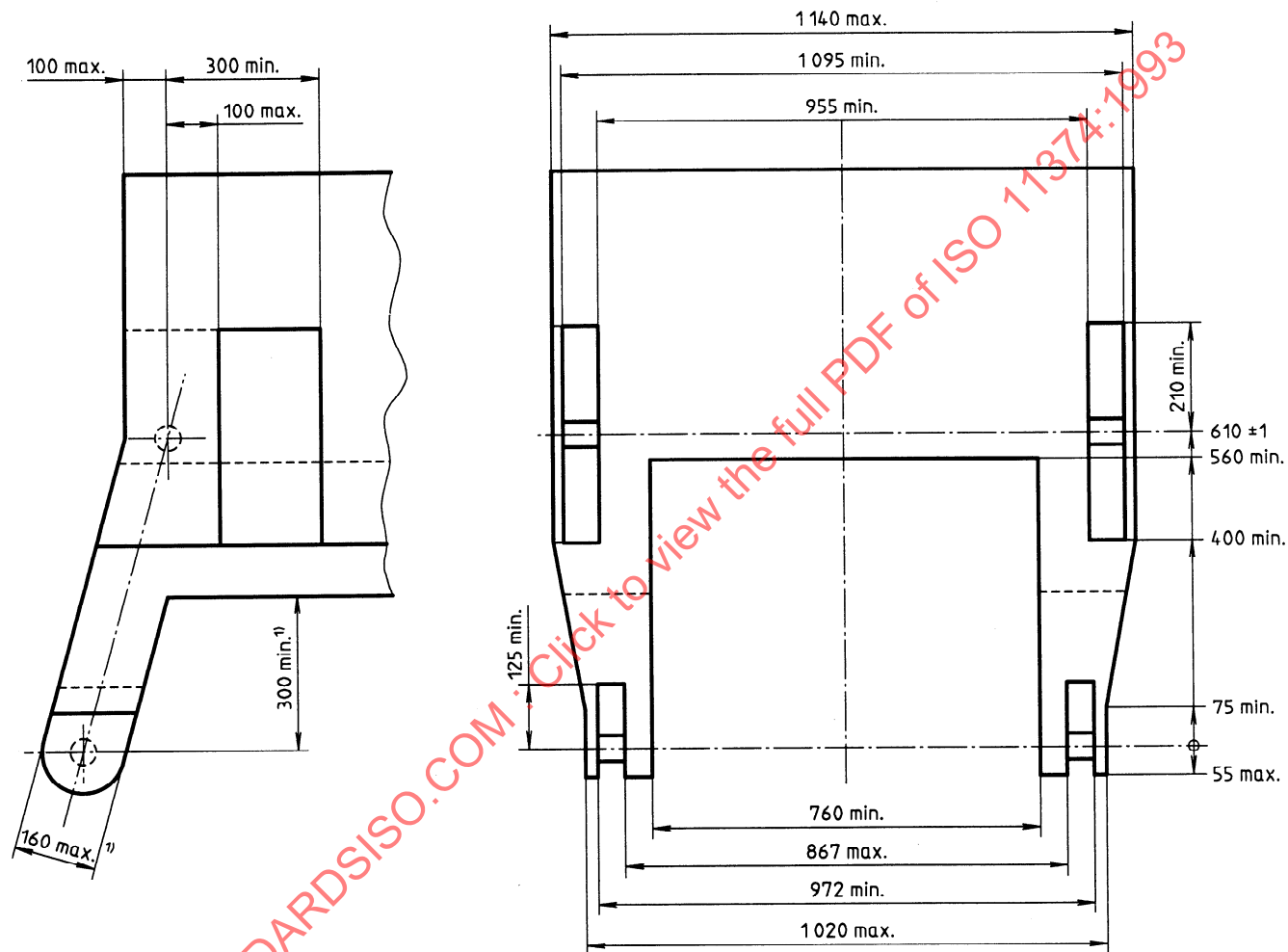


Figure 4 — Implement zone

Dimensions in millimetres



1) See 7.2.

Figure 5 — Zone dimensions

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