

# SVENSK STANDARD

## SS 550000-2:2017



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### **Vägfordon – Utbytbarhet vid installation – Del 2: Dragögla**

### **Commercial road vehicles – Interchangeability in installation – Part 2: Drawbar eye**

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**SS 550000-2:2017 (En)**

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## **Introduction**

This standard is applied to drawbar eyes for commercial vehicles. This standard is part of the series SS 550000. There are two series of standards which concern interchangeability. The interchangeability is divided into two parts, interchangeability in installation and interchangeability in application.

The series of standards include:

The series of standards include:

SS 550000-1, *Commercial road vehicles – Interchangeability in installation – Part 1: Drawbar coupling*

SS 550000-2, *Commercial road vehicles – Interchangeability in installation – Part 2: Drawbar eye*

SS 550100-1, *Commercial road vehicles – Interchangeability in application – Part 1: Clevis coupling 57 mm*

SS 550100-2, *Commercial road vehicles – Interchangeability in application – Part 2: Drawbar eye 57 mm*

This standard draws on SS-ISO 3584. SS-ISO 3584 defines 50 mm clevis coupling while a standard for 57 mm clevis coupling has hitherto been missing. While introducing a standard for 57 mm clevis couplings a new structure is introduced to this new standard. It is splitting information relevant for OEM:s from information relevant to end users. Furthermore, many non-value adding dimensions are deleted from the standard as compared to SS-ISO 3584. The current series of national standards focus on the geometric compatibility with specific address to 57 mm clevis couplings which are dominating in Sweden. A number of different coupling classes based on different performance values as in SS-ISO 3584 are not adopted. Hence the structure becomes simpler. Further information on interchangeability in installation is needed when mounting the equipment i.e. one or a couple of times during the lifetime of the vehicle. Information on interchangeability in application is needed almost every day. Accordingly, the structure of this series of standards, is tuned to the need of the user at different stages.

## SS 550000-2:2017 (En)

### 1 Scope

This Standard specifies the characteristics of drawbar eyes installations, necessary for interchangeability in installation to a drawbar of a towed trailer.

This Standard is applicable to mechanical connections designed for commercial vehicles and trailers, the maximum mass of which is above 3,5 t.

### 2 Normative references

This paragraph is referencing the below listed documents that are required when applying this document. For dated references only that edition of the document applies. For undated references the latest valid edition of the document applies.

SS-EN ISO 4063, *Welding and allied processes - Nomenclature of processes and reference numbers*

SS 550000-1, *Commercial road vehicles – Interchangeability in installation – Part 1: Drawbar coupling*

SS 550100-1, *Commercial road vehicles – Interchangeability in application – Part 1: Clevis coupling 57 mm*

SS 550100-2, *Commercial road vehicles – Interchangeability in application – Part 2: Drawbar eye 57 mm*

### 3 Terms and definitions

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

**3.1  
drawbar**  
<hinged> structure connected through a hinge to the front end of the towed vehicle through which the towed vehicle is mechanically coupled to the towing vehicle by means of a clevis coupling

**3.2  
drawbar**  
<rigid> structure rigidly connected to the front of the towed vehicle through which the towed vehicle is mechanically coupled to the towing vehicle by means of a clevis coupling

NOTE 1 TO ENTRY: For special applications, hinged drawbars with drawbar eyes in both ends exist.

**3.3  
drawbar eye**  
component fitted to the forward extreme of the drawbar to enable mechanical coupling to a drawbar coupling.

**3.4  
drawbar coupling**  
component that by means of a bolt or hook locks the drawbar eye to the towing vehicle

**3.5  
clevis coupling**  
coupling that has a clevis to hold a bolt that locks the drawbar eye to the towing vehicle

**3.6  
characteristic performance value**  
performance value that shows the capacity of the coupling to transfer longitudinal or vertical forces between towing and towed vehicles

## **4 Designation**

### **4.1 Referencing**

Reference may be made to this standard for drawbar eye mounting dimensions on the drawbar.

### **4.2 Reference**

Drawbar eye installations meeting the requirements of this standard shall be identified by the following information, in the order given:

- a) reference to this standard
- b) number of category according to one of those defined in 5.2

EXAMPLE      SS 550100-2 Category 2

## **5 Installation categories**

### **5.1 General requirements**

The drawbar eye shall not be able to rotate axially. The mounting instruction for any drawbar eye referencing these installation categories shall indicate the distance from the coupling point to the reference plane B in the diagrams below.

Any welding shall be carried out using method 111 in accordance with SS-EN ISO 4063

NOTE      Suitable welding electrodes are according to SS-EN ISO 2560.

### **5.2 Drawbar eyes, mounting bosses, flanges and clamps**

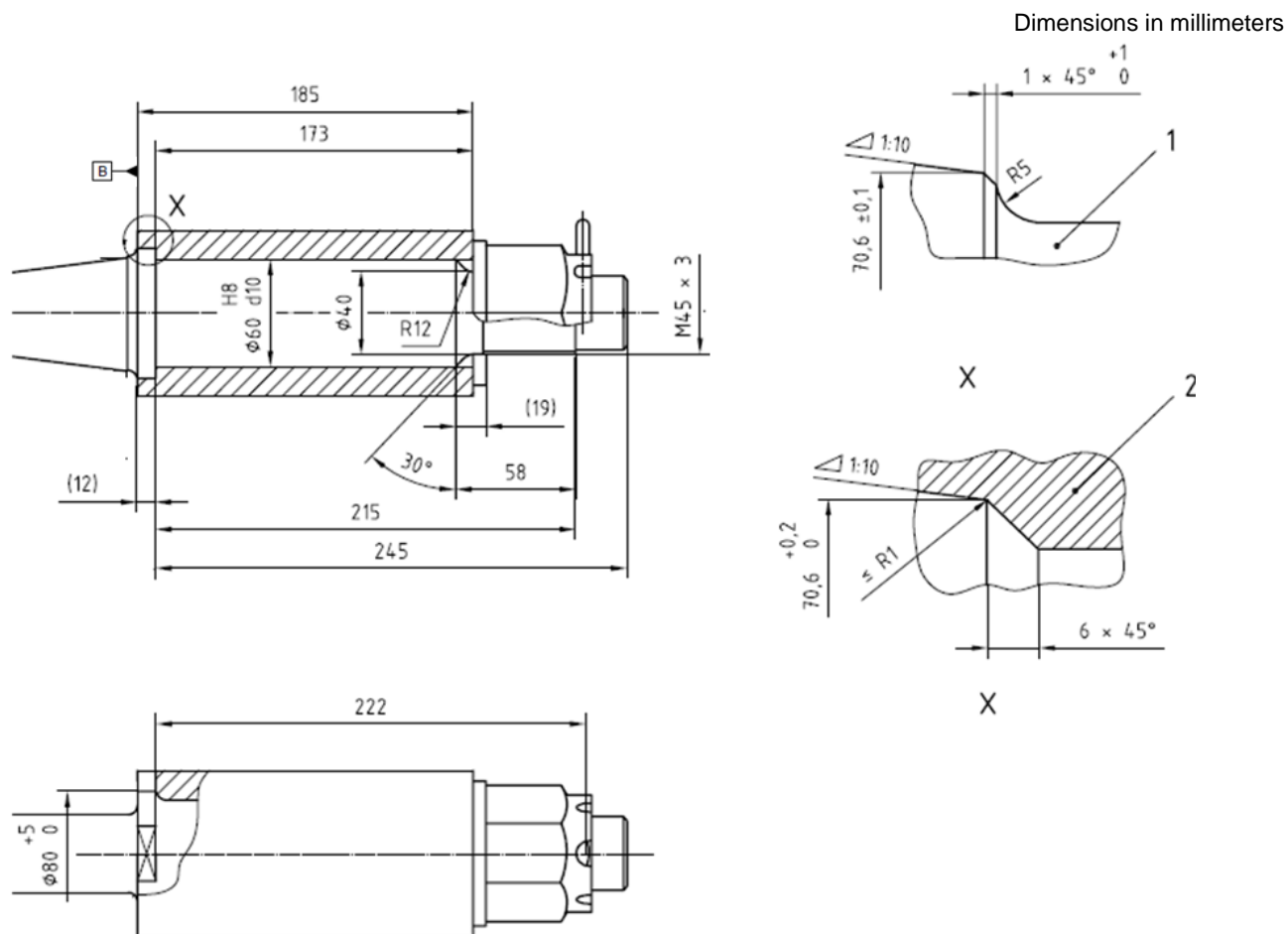
#### **5.2.1. General**

Drawbar eyes may be installed to a drawbar in different ways. This section defines different installation categories. Each drawbar eye shall have an installation category assigned. Each category includes a reference plane B that defines from where to measure the distance to the center of the ring of the drawbar eye.

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**5.2.2. Category 1, welded sleeve**

Details of Category 1 are shown in Figure 1.



**Figure 1 – Drawbar eye installation category 1 – welded sleeve**

There shall be at least 15 mm radial clearance around the M45 nut.

The distance from the coupling point of the drawbar eye to the reference plane B in figure 1 shall not exceed 168 mm.

**5.2.3. Category 2 and 3, bolted flanges**

Details of Category 2 and 3 are shown in Figure 2 and 3.