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Vägfordon – Släpfordon upp till 3,5 t – Krav för stödhjul och stöd för dragstänger (ISO 13052:2013, IDT)

Road vehicles – Trailers up to 3,5 t – Requirements for jockey wheels and drawbar supports (ISO 13052:2013, IDT)

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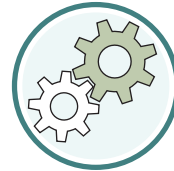
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Foreword

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The committee responsible for this document is ISO/TC 22, *Road vehicles*, Subcommittee SC 4, *Exterior fittings of car/trailer-caravan combinations*.

Road vehicles — Trailers up to 3,5 t — Requirements for jockey wheels and drawbar supports

1 Scope

This International Standard is intended to define safety requirements which apply to jockey wheels and drawbar supports provided to support the single axle (centre axle) rigid drawbar trailers nose weight with a technically permissible maximum laden mass not more than 3,5 tons.

2 Terms and definitions

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

2.1

jockey wheel

device usually mounted on the front of the trailer to support the nose weight of the trailer and to adjust the height of the drawbar if not connected

Note 1 to entry: This device permits the movement of the trailer in any direction at steady-state without the use of a towing road vehicle.

2.2

drawbar support device

device fastened to the drawbar with height-adjustable mechanism, retaining the trailer in horizontal position when being disconnected to the towing vehicle

Note 1 to entry: Built up with a vertical tubular strut and adjustable height provided with a blocking system and/or clamping system activated by handle operation.

Note 2 to entry: When this device is equipped with a lift system, uncoupling the axle of the coupling ball to the coupling ball shall be permitted.

2.3

nose mass

mass on the coupling point which is needed to hold the trailer in horizontal position

Note 1 to entry: The *S* value is the vertical mass, in kilograms, imposed on the coupling, under static conditions, by the centre axle trailer, as defined in ECE R55-01 paragraph 2.13, of technically permissible maximum mass.

2.4

vertical static load

vertical load applied to the coupling device of the towing vehicle expressed in Newton

2.5

nose weight

load holding up the drawbar support device when the trailer is uncoupled, with value depending on ratio of the trailer coupling point distance on its axle expressed in Newton

2.6

lifting force

reacting force on the ground from the nose weight expressed in Newton

2.7

strut

adjustable tubular equipment holding up the nose weight, telescopic or not, fitted with a wheel or not

2.8 clamping system

device used to block the strut by a clamping ring and an operation handle or by a clamping set screw

Note 1 to entry: In these two cases, device shall insure blocking of the strut which supports the nose weight in order to stabilize the uncoupled trailer in horizontal position.

2.9 coupling head

mechanical part fitted to the drawbar of trailers for connecting to the 50 mm diameter coupling ball on the towing vehicle defined in ECE R55 article 2.6.2

2.10 drawbar eyes

mechanical part having a parallel hole suitable for a 50 mm diameter pin and fitted to the drawbar of trailers for connecting to automatic drawbar couplings defined in ECE R55 article 2.6.4

2.11 load lifting capacity

maximum vertical mass, in kg, given by the manufacturer of the jockey wheel or the drawbar support device which can be lifted

3 Jockey wheels – requirements

3.1 Markings

Each jockey wheel and drawbar support shall be permanently and clearly legibly marked with the following information on a component that cannot be lost unintentionally and that cannot be removed without tool:

- manufacturer's identification;
- load lifting capacity.

3.2 Testing

The drawbar support device strength shall be tested by applying a load equal to two times the permissible static vertical load value at the coupling head of the trailer as described in Formula (1):

$$\text{Test load} = 2 \times \text{permitted load lifting capacity} \quad (1)$$

3.2.1 Calculation of the lifting force

The drawbar support device strength shall be tested by applying a load equal to two times the permissible static vertical load value at the coupling head of the trailer or drawbar eyes.

The requisite lifting force shall be calculated as follows:

$$\text{Lifting Force} = \frac{(x + y) \times P \times g}{x} \quad (2)$$