



SLOVENSKI STANDARD

SIST ISO 612:2000

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Cestna vozila - Mere motornih in priklopnih vozil - Izrazi in definicije

Road vehicles -- Dimensions of motor vehicles and towed vehicles -- Terms and definitions

Véhicules routiers -- Dimensions des automobiles et véhicules tractés -- Dénominations et définitions

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Ta slovenski standard je istoveten z: **ISO 612:1978**

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ICS:

43.020 Cestna vozila na splošno Road vehicles in general

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INTERNATIONAL STANDARD



612

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Road vehicles – Dimensions of motor vehicles and towed vehicles – Terms and definitions

Véhicules routiers – Dimensions des automobiles et véhicules tractés – Dénominations et définitions

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Descriptors : road vehicles, motor vehicles, towed road vehicles, dimensions, vocabulary.

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 612 was developed by Technical Committee ISO/TC 22, *Road vehicles*, and was circulated to the member bodies in november 1976.

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It has been approved by the member bodies of the following countries :

Austria	Iran	New Zealand
Brazil	Italy	Poland
Bulgaria	Japan	Romania
France	Korea, Dem. P. Rep. of	South Africa, Rep. of
Germany	Korea, Rep. of	Spain
Hungary	Mexico	Sweden
India	Netherlands	Switzerland

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Australia
Belgium
United Kingdom

This International Standard cancels and replaces ISO Recommendation R 612-1967, of which it constitutes a technical revision.

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Road vehicles – Dimensions of motor vehicles and towed vehicles – Terms and definitions

1 SCOPE

This International Standard defines terms relating to dimensions of motor vehicles and towed vehicles.

It does not deal with methods of measurement, the units used in reporting the results or the accuracy required or the order of magnitude of the dimensions defined.

NOTE – Other terms, definitions and symbols are given in the following International Standards :

ISO 3877/I, *Tyres, valves and tubes – List of equivalent terms – Part I : Tyres.*

ISO 3877/II, *Tyres, valves and tubes – List of equivalent terms – Part II : Tyres valves.*

ISO 3877/III, *Tyres, valves and tubes – List of equivalent terms – Part III : Tubes.*

ISO 3911, *Wheels/rims – Nomenclature, designation, marking, and units of measurement.*

ISO 4131, *Road vehicles – Dimensional symbols for passenger cars.*¹⁾

ISO 4223/I, *Definitions of some terms used in the tyre industry – Part I : Pneumatic tyres.*

2 FIELD OF APPLICATION

The provisions of this International Standard apply to motor vehicles and towed vehicles as defined in ISO 3833 (terms 3.1 and 3.2).

This International Standard does not cover road vehicles such as motorcycles and mopeds, or other vehicles, such as agricultural tractors, which are only incidentally used for the carriage of persons or goods by road or for towing on the road vehicles used for the carriage of persons or goods.

3 REFERENCES

ISO 1176, *Road vehicles – Weights – Vocabulary.*

ISO 1726, *Road vehicles – Mechanical coupling between tractors and semi-trailers – Interchangeability.*

ISO 3833, *Road vehicles – Types – Terms and definitions.*

ISO 4130, *Road vehicles – Three-dimensional reference system and fiducial marks.*¹⁾

4 GENERAL

Unless otherwise stated with regard to one or more of the items mentioned below, it should be understood that :

- a) the supporting surface is horizontal; lengths and widths are measured in the horizontal plane, and heights in the vertical plane;
- b) the total weight of the vehicle is the maximum authorized total weight (see ISO 1176), the load being distributed according to the manufacturer's instructions;
- c) the tyres are inflated to the pressure corresponding to the maximum authorized total weight of the vehicle;
- d) the vehicle is stationary; its doors and windows are closed, and its wheels and articulated elements are in positions corresponding to movements in a straight line;
- e) the vehicle is new from the factory and normally equipped;
- f) all wheels of the vehicle are resting on the ground;
- g) the expression "mid-plane of the wheel", that occurs in a number of definitions, designates the plane equidistant from the inner edges of the rim.

1) At present at the stage of draft.

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5 DEFINITION OF THE LONGITUDINAL MEDIAN PLANE (OF THE VEHICLE)

longitudinal median plane (of the vehicle) : The vertical plane Y passing through the mid-points of AB, perpendicular to AB, A and B being defined as follows : as follows :

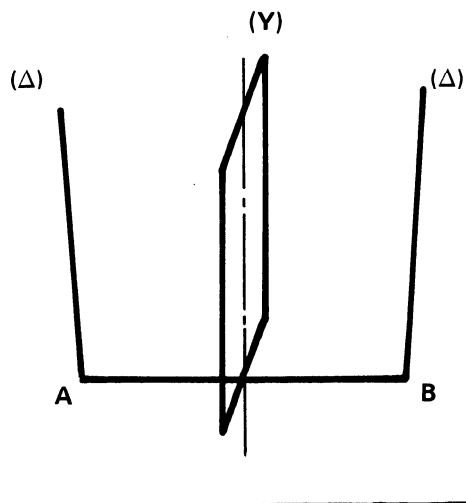
- for each wheel, the vertical plane passing through its axis cuts the mid-plane of the wheel [see g), clause 4] following a straight line Δ which meets the supporting surface of the vehicle at one point;
- A and B are two points thus defined which correspond to two wheels, both of which are either steering or powered wheels, situated respectively at the two ends of the same real or imaginary axle.

NOTES

1 The longitudinal median plane (of the vehicle) is also called the "longitudinal plane of symmetry" or "zero Y plane" (see ISO 4130).

2 Case of dual wheels

The mid-plane of the dual wheels is equidistant from the inner edge of one wheel and the outer edge of the other. The straight line Δ is, in this particular case, the intersection of the mid-plane of the dual wheels and the vertical plane passing through the axis of the axle pin.

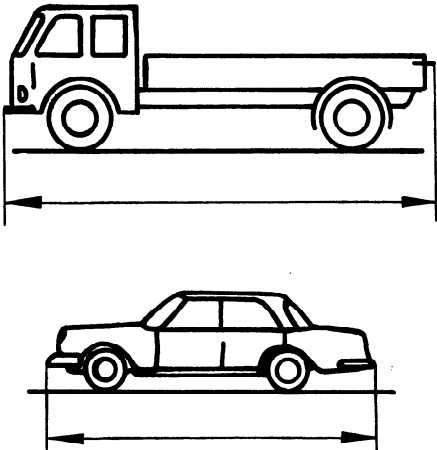
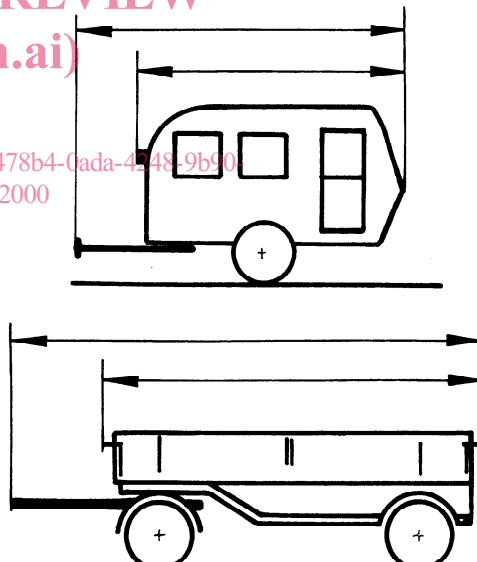
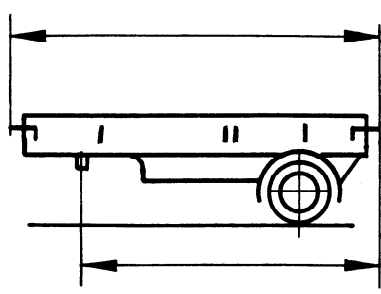


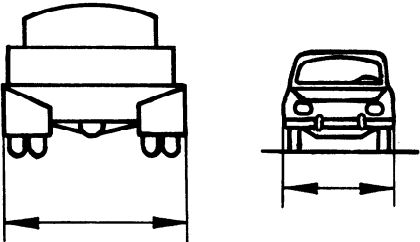
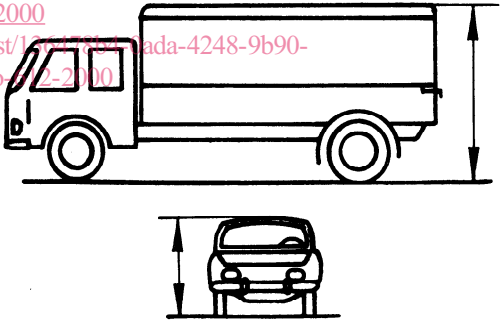
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6 TERMS AND DEFINITIONS OF MOTOR VEHICLES AND TOWED VEHICLES

No.	Term	Definition	Drawing
6.1	vehicle length	See 6.1.1 to 6.1.3.	
6.1.1	motor vehicle length	<p>The distance between two vertical planes perpendicular to the longitudinal median plane (of the vehicle) (see clause 5) and touching the front and rear of the vehicle respectively.</p> <p>NOTE — All parts of the vehicle, including any parts projecting from front or rear (towing-hooks, bumpers, etc.) are contained between these two planes.</p>	
6.1.2	trailer length	<p>The lengths with and without drawgear, defined as in 6.1.1, the second value being placed in parentheses :</p> <p><i>Example : 5 500 (3 700)</i></p> <p>NOTE — To determine the length with drawgear, the drawbar is assumed to be located so that the axis of the drawbar eye or coupling head is vertical and lies within the foremost vertical plane.</p>	
6.1.3	semi-trailer length	<p>The length of the semi-trailer, defined as in 6.1.1, and the distance between kingpin axis and rear end of semi-trailer, the second value being placed in parentheses :</p> <p><i>Example : 10 800 (7 800)</i></p>	

No.	Term	Definition	Drawing
6.2	vehicle width	<p>The distance between two planes parallel to the longitudinal median plane (of the vehicle) (see clause 5) and touching the vehicle on either side of the said plane.</p> <p>NOTE — All parts of the vehicle, including any lateral projections of fixed parts (wheel hubs, door-handles, bumpers, etc.) are contained between these two planes, except the rear-view mirrors, side marker lamps, tyre pressure indicators, direction indicator lamps, position lights, customs seals, flexible mud-guards, retractable steps, snow chains and the deflected part of the tyre walls immediately above the point of contact with the ground.</p>	
6.3	vehicle height (unladen)	<p>The distance between the supporting surface and a horizontal plane touching the topmost part of a vehicle.</p> <p>NOTES</p> <ol style="list-style-type: none"> 1 All fixed parts of the vehicle are contained between these two planes. 2 The vehicle is in operating order and unladen. 	

No.	Term	Definition	Drawing
6.4	wheel space	See 6.4.1 and 6.4.2.	
6.4.1	motor vehicle or trailer wheel space	<p>The distance between the perpendicular lines constructed to the longitudinal median plane (of the vehicle) (see clause 5) from the previously defined points A or B corresponding to two consecutive wheels situated on the same side of the vehicle.</p> <p>NOTES</p> <p>1 If the values of right and left wheel spaces are different, both dimensions are stated, separated by a dash, the first corresponding to the left wheels.</p> <p>2 For vehicles with three or more axles, the wheel spaces between consecutive wheels are indicated, going from the foremost to the rearmost wheel : the total wheel space for right or for left is the sum of these distances.</p>	
6.4.2	semi-trailer wheel space	<p>The distance from the axis of the fifth wheel kingpin in a vertical position to the vertical plane through the axis of the semi-trailer's first axle.</p> <p>NOTE — In the case of a semi-trailer with two or more axles, the same rule should be applied as for vehicles with three or more axles.</p>	

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