

Definitions for a three-dimensional reference system and fiducial marks

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Foreword

This British Standard has been prepared, under the direction of the Automobile Standards Committee, to implement International Standard ISO 4130:1978 “Road vehicles — Three-dimensional reference system and fiducial marks — Definitions” prepared by Technical Committee ISO/TO 22, Road vehicles, of the International Organization for Standardization (ISO).

The technical content of this British Standard is identical with that of ISO 4130 except that no definition is given of the longitudinal median plane of the vehicle, whereas ISO 4130 defines it by reference to a definition in another International Standard which is not acceptable to the United Kingdom. In addition, the scope is not restricted to particular road vehicles defined elsewhere, as is the case in ISO 4130.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 and 2 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Amendments issued since publication

Amd. No.	Date of issue	Comments

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The following BSI references relate to the work on this standard:

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Contents

	Page
Foreword	Inside front cover
1 Scope	1
2 Definitions	1
Figure 1 — Three-dimensional reference system	1

1 Scope

This British Standard defines a three-dimensional reference system and fiducial marks which are used to define dimensional data relating to road vehicles except motorcycles and mopeds.

2 Definitions

No.	Term	Definition	Symbol
2.1	three-dimensional reference system	Three orthogonal planes established by the vehicle manufacturer in the initial design stage (see Figure 1).	X, Y, Z
2.1.1	zero Y plane	The longitudinal median plane of the vehicle.	Y
2.1.2	zero X plane	A plane, conventionally vertical, normal to the zero Y plane.	X
2.1.3	zero Z plane	A plane, conventionally horizontal, normal to the zero X and Y planes.	Z
		NOTE 1 With the exception of dimensions related to the supporting surface, each point on the vehicle is defined in the three-dimensional reference system by its three coordinates: X, Y and Z.	
		NOTE 2 Distances forward of the zero X plane, to the left of the zero Y plane and below the zero Z plane are regarded as negative dimensions.	
		NOTE 3 The zero X plane and zero Z plane may be located outside the vehicle profile.	
2.2	fiducial marks	Three or more physical points (holes, surfaces, marks or indentations), on the vehicle body as defined by the manufacturer.	
		NOTE These points are dimensioned in relation to the three-dimensional reference system. They are also used to define the position of the vehicle relative to the supporting surface in various loading conditions.	