

Terminology (including definitions of dimensions and symbols) for earth-moving machinery —

Part 3: Glossary of terms for equipment

[ISO title: Earth-moving machinery — Definitions of dimensions and symbols — Part 2: Equipment]

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Committees responsible for this British Standard

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- Associated Offices Technical Committee
- Construction Industry Training Board
- Construction Plant-hire Association
- Department of Trade and Industry [Mechanical Engineering and Manufacturing Technology Division (Mmt)]
- Federation of Civil Engineering Contractors
- Federation of Manufacturers of Construction Equipment and Cranes
- Health and Safety Executive
- Institution of Civil Engineers
- Institution of Highways and Transportation
- Ministry of Defence

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National foreword

This Part of BS 6914 is a revision of BS 6295-2:1982 and has been prepared under the direction of the Road Engineering Standards Committee. It is identical with ISO 6746-2:1987 “*Earth-moving machinery — Definitions of dimensions and symbols — Part 2: Equipment*”, published by the International Organization for Standardization (ISO). This Part of BS 6914 supersedes BS 6295-2:1982 which is withdrawn.

ISO 6746-2 was produced as a result of international discussion in which the UK took an active part.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

Wherever the words “part of ISO 6746” appear, referring to this standard, they should be read as “Part of BS 6914”.

Cross-references

International Standard	Corresponding British Standard
	BS 6914 <i>Terminology (including definitions of dimensions and symbols) for earth-moving machinery</i>
ISO 6165:1987	Part 1:1988 <i>Glossary of terms for basic types of earth-moving machinery</i> (Identical)
ISO 6746-1:1987	Part 2:1988 <i>Glossary of terms for base machine</i> (Identical)
ISO 7131:1984	BS 6685:1986 <i>Glossary of terms for loaders used for earth-moving</i> (Identical)

Reference is made in the text to ISO 7134:1985 for which no corresponding British Standard exists; this does not adversely affect the validity of the standard. A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 10, an inside back cover 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.

1 Scope and field of application

This part of ISO 6746 defines terms and symbols relating to dimensions of earth-moving machinery equipment.

It applies to the equipment of basic types of earth-moving machines as defined in ISO 6165.

2 References

ISO 6165, *Earth-moving machinery — Basic types — Vocabulary*.

ISO 6746-1, *Earth-moving machinery — Definitions of dimensions and symbols — Part 1: Base machine*.

3 General definitions

For the purposes of this part of ISO 6746, the following definitions apply.

NOTE Definitions 3.1, 3.2 and 3.3 are repeated from ISO 6746-1 for the convenience of the user.

3.1

three-dimensional reference system

see Annex A

3.2

ground reference plane (GRP)

zero *Z* plane on which the machine is placed for the measurements

The plane is:

- a) for wheeled machines, a hard level surface;
- b) for crawler machines:
 - 1) tractors, pipelayers
 - the face for grouser-type shoe (see *H5*),
 - 2) loaders, excavators
 - the tip of the grouser (see *H5*),
 - 3) low ground pressure
 - for triangular section shoe, one-half of the distance between the track link bolting surface and the tip of the grouser (see *H5*).

3.3

base machine

machine, without equipment, as described by the manufacturer's specifications

the machine should be provided with the necessary mountings to secure equipment as detailed in this part of ISO 6746

3.4

equipment

set of components mounted onto the base machine to fulfil the primary design function

3.5

attachment

optional assembly of components that can be mounted onto the base machine for a specific use

3.6

component

part or an assembly of parts of a base machine, equipment or an attachment

4 General

Annex B, Annex C, Annex D and Annex E give the symbols and term definitions relating to dimensions of the equipment of earth-moving machines.

5 Coding system

Each dimension listed in Annex B, Annex C, Annex D and Annex E is assigned a code which is composed of two capital letters (see 5.1) and an International Standard reference number (see 5.2).

5.1 Two capital letters indicate a dimension, as follows:

HH = height dimensions

WW = width dimensions

LL = length dimensions

RR = radial dimensions

AA = angle dimensions

5.2 An International Standard reference number indicates the specific machine (see ISO 6746-2, ISO 7131 and ISO 7134 as applicable).