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Earth-moving machinery — Definitions of dimensions and symbols —

Part 1 : Base machine

Engins de terrassement — Définitions des dimensions et des symboles —

Partie 1 : Engin de base

Reference number
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 6746-1 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*.

This second edition cancels and replaces the first edition (ISO 6746-1 : 1982), of which it constitutes a technical revision.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Earth-moving machinery — Definitions of dimensions and symbols —

Part 1 : Base machine

1 Scope and field of application

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

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

2 References

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

ISO 6746-2, *Earth-moving machinery — Definitions of dimensions and symbols — Part 2 : Equipment*.

3 General definitions

For the purposes of this International Standard, the following definitions apply.

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 ISO 6746-2.

4 General

Annexes B, C, D, E and F give the symbols and term definitions relating to the dimensions of the base machine of earth-moving machinery.

5 Coding system

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

5.1 One capital letter indicates a dimension, as follows :

H = height dimensions
W = width dimensions
L = length dimensions
R = radial dimensions
A = angular dimensions

5.2 An International Standard reference number indicates the specific machine (see ISO 6746-1, ISO 7131, ISO 7132, ISO 7133, ISO 7134, ISO 7135 and ISO 7136 as applicable).