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6746/2

International Standard

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION+ME#ДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ+ORGANISATION INTERNATIONALE DE NORMALISATION

Earth-moving machinery – Definitions of dimensions and symbols – Part 2 : Equipment

Engins de terrassement – Définitions des dimensions et des symboles – Partie 2 : Équipement iTeh STANDARD PREVIEW First edition – 1982-06-01 (standards.iteh.ai)

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Descriptors : earth handling equipment, definitions.

Ref. No. ISO 6746/2-1982 (E)

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 6746/2 wash developed by Technical Committee ISO/TC 127, Earth-moving machinery, and was circulated to the member bodies in January 1980. anuar **US.**II en.al

It has been approved by the member bodies of the following countries: 1982

Austria	
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The member body of the following country expressed disapproval of the document on technical grounds :

Czechoslovakia

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INTERNATIONAL STANDARD

Earth-moving machinery — Definitions of dimensions and symbols — Part 2 : Equipment

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1 Scope

The plane is :

This part of ISO 6746 defines terms and symbols relating to ds/sist/ac a)e for wheel machines, a hard level surface; dimensions of earth-moving machinery equipment 8744ae57/iso-6746-2-1982 b) for crawler machines :

2 Field of application

This part of ISO 6746 applies to the equipment of basic types of earth-moving machines as defined in ISO 6165.

3 References

ISO 6165, Earth-moving machinery – Basic types – Vocabulary.

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

4 General definitions

For the purpose of this International Standard, the following definitions shall apply :

4.1 three dimensional reference system : See annex A.

4.2 ground reference plane (GRP) : The zero "Z" plane on which the machine is placed for the measurements.

1) tractors - the lowest face of the shoe;

2) loaders - the bottom tip of the grouser.

5 General

In the annexes B, C, D and E are contained the symbols and the term definitions relating to dimensions of the equipment of earth-moving machines.

6 Coding system

Each dimension listed in the annexes B, C, D and E is assigned a code which is composed of :

- 6.1 Two capital letters describing :
 - HH = height dimensions
 - WW = width dimensions
 - LL = length dimensions
 - AA = angle dimensions

6.2 A number issued in sequence.

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Annex A

Three-dimensional reference system — Definitions

1 Scope

This annex defines the three-dimensional reference system used to determine dimensions of equipment of earth-moving machines.

The above system shall not be used for commercial documents.

3 Definitions

3.1 zero "Y" plane : Vertical plane which passes through the longitudinal centre-line of the machine.

3.2 "X" plane : Any vertical plane normal to the "Y" plane.

3.3 "Z" plane : Any horizontal plane normal to the "X" and "Y" planes.

2 Field of application

This annex applies to the equipment of earth-moving machines as defined in ISO 6165.

3.4 positive coordinate : The positive direction is forward of the zero "X" plane, right of the zero "Y" plane, and above the zero "Z" plane.



Figure 1 – Three-dimensional reference system

NOTES

1 The intersection of the X, Y, Z axes (zero planes) is normally located at well defined base point (i.e. SIP for a seat; crankshaft centre-line for an engine; sprocket or rear axle centre-line for a tractor; ground line for machine measurements).

2 If only equipment for a machine (i.e. dozer, ripper) are shown, the location and positive direction of the axis from the intersection of the X, Y, Z axes (zero planes) shall assume normally expected orientation of the equipment to a machine (i.e. the dozer cutting edge to the front of the machine, ripper to the rear).

3 If a machine and/or its equipment are shown, a machine driving from right to left shall be shown.

Annex B

Height dimensions — Terms and symbols



3

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4

Symbol	Term	Definition	Drawing
<i>HH</i> 6	Winch Centre of drum height	Distance on "Z" coordinate between the GRP and the centre of drum.	
ННТ	Drawbar height	Distance on "Z" coordinate between the GRP and the centre-line of the drawbar clevis (fork).	
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<i>HH</i> 8	Clevis width	Distance on "Z" coordinate between two "Z" planes passing through the inside sur- face of the drawbar clevis (fork).	HH B

Annex C

Width dimensions — Terms and symbols



Symbol	Term	Definition	Drawing
 WW4	Shanks working width	Distance on "Y" coordinate between two "Y" planes passing through the outermost points of the teeth of the external shanks.	
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<i>WW</i> 5	Shanks centre distance	Distance on "Y" coordinate between the centre-line of two adjoining shanks.	
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