INTERNATIONAL STANDARD

ISO 9248

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Earth-moving machinery — Units for dimensions, performance and capacities, and their measurement accuracies

iTeh STANDARD PREVIEW

SEngins de terrassement - Unités pour exprimer les dimensions, les performances et les capacités, et exactitude de leur mesurage

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ISO 9248:1992(E)

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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75% of the member William bodies casting a vote.

International Standard ISO 9248 was prepared by Technical Committee ISO/TC 127, Earth-moving machinery, Sub-Committee SC 1, Test methods relating to machine performance.

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Scope

This International Standard specifies a basic vinits results of the standard specifies a basic vinits results and specifies a basic vinits results and specifies a basic vinits results and seed that the standard specifies a basic vinits results and seed the standard specifies a basic vinits and seed the standard specifies a basic vinits results and seed the standard specifies a basic vinits results and seed the standard specifies a basic vinits results and seed the standard specifies a basic vinits results and seed the seed the standard specifies are specified by the standard specifies a basic vinits results and seed the specifies are specified by the standard specifies and specifies a basic vinits and specifies a basic vinits and specifies a basic vinits are specified by symbols and tolerances for the measurements of general machine dimensions, performance and capacities of earth-moving machinery as defined in ISO 6165.

It does not cover methods and instrumentation to be used.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below.

Members of IEC and ISO maintain registers of cur-ISO 9248:1992 rently valid International Standards.

> o-9248SØ96165:1987, Earth-moving machinery — Basic types — Vocabulary:

Units

Basic and derived units for earth-moving machinery shall be as specified in table 1.

Accuracy

The accuracy of measurements shall be within the tolerances specified in table 1.

Rounding off

The rounding off of measurement results shall be done by adding or subtracting numerical values compatible with the specified tolerance.

Table 1 — Measurement accuracy

NOTE 1 Basic and derived units and symbols in table 1 have been taken from ISO 1000:1981, SI units and recommendations for the use of their multiples and of certain other units.

Quantity	Unit	Symbol	Tolerance ¹⁾
	Basic un	its	
Linear dimension	metre	m	± 0,5 %
Mass	kilogram	kg	<u>+</u> 2 %
Time	second	s	<u>±</u> 1 %
Celsius temperature	degree Celsius	°C	$\begin{cases} & \leq 200 \text{ °C: } \pm 1 \text{ °C} \\ & > 200 \text{ °C: } \pm 2 \text{ %} \end{cases}$
Angle	radian	rad	<u>+</u> 0,02 rad
Frequency	hertz	Hz	<u>+</u> 1 %
	Derived u	nits	I.
Area	square metre	m²	<u>+</u> 2 %
Volume	cubic metre	m³ I, L	± 3 %
Force	,		± 1 %
Pressure	newton eh STAND pascal	Pa	± 2 %
Power	watt (standa	rds.itek.ai)	<u>+</u> 2 %
Angular velocity	radian per second	rad/s	<u>+</u> 2 %
Speed	metre per second ISO	9248:1992 m/s	± 2 %
Acceleration	metresper second signared sta	nndards/sist/53nf <mark>g</mark> 864-8c85-42	e3-b156- <u>+</u> 2 %
Torque	newton metre 8535620fb9	995/iso-9248-11992	± 2 %
Energy	joule	J	± 2 %
Volumetric rate	cubic metre per second	m³/s	<u>+</u> 2 %
Sound pressure level	decibel (ref. 20 μPa)	dB	± 1 dB

¹⁾ These tolerances also apply to other units used for the same quantity.

Tolerances for specific quantities not covered in this International Standard, on a larger or a smaller scale, or for precision measurements, shall be specified in the individual International Standards which require them.

²⁾ $1 I = 1 dm^3$

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Descriptors: earth moving equipment, measurement, units of measurement, tolerances (measurement).

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