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

iTeh Standards

Engins 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

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

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1 Scope

This International Standard specifies basic units, 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 currently valid International Standards.

ISO 6165:1987, Earth-moving machinery — Basic types — Vocabulary:

3 Units

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

4 Accuracy

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

5 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 unit	s	
Linear dimension	metre	m	± 0,5 %
Mass	kilogram	kg	<u>+</u> 2 %
Time	second	s	± 1 %
Celsius temperature	degree Celsius	°C	{ ≤ 200 °C: ± 1 °C > 200 °C: ± 2 %
Angle	radian	rad	<u>+</u> 0,02 rad
Frequency	hertz	Hz	<u>+</u> 1 %
	Derived un	its	<u>C.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
Area	square metre	m²	± 2 %
	∫ cubic metre	m³	± 3 %
Volume	litre ²⁾	I, L	T 3 /0
Force	newton Tah S1	andards	± 1 %
Pressure	pascal	Pa	± 2 %
Power	watt ffnc•//sfan	dard itch	± 2 %
Angular velocity	radian per second	rad/s	± 2 %
Speed	metre per second	nt Pim/sview	± 2 %
Acceleration	metre per second squared	m/s²	± 2 %
Torque	newton metre	N·m	± 2 %
Energy	joule <u>ISO 9</u>	248:1992 J	± 2 %
Volumetric rate tandards	ch a cubic metre per second 53 af9	164-8c85 m³/s e3-b156-	8535620fb ± 2/‰-9248-19
Sound pressure level	decibel (ref. 20 μPa)	dB	<u>+</u> 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⁾ $1 I = 1 dm^3$