

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • MEЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANIZATION INTERNATIONALE DE NORMALISATION

Agricultural wheeled tractors — Determination of maximum travel speed

Tracteurs agricoles à roues — Détermination de la vitesse maximale d'avancement

First edition – 1977-03-15 (standards.iteh.ai)

ISO 3965:1977 https://standards.iteh.ai/catalog/standards/sist/b5c2509a-8510-4cbb-8739-fa4e679706a3/iso-3965-1977

UDC 631.372 : 629.1.072 Ref. No. ISO 3965-1977 (E)

Descriptors: agricultural machinery, tractors, tests, velocity measurement.

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 3965 was developed by Technical Committee VIEW ISO/TC 23, Tractors and machinery for agriculture and forestry, and was circulated to the member bodies in August 1975.

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

ISO 3965:1977

Australia | Ifirance and ards. iteh. ai/catalo South Africa/Bep50 fa-8510-4cbb-8739Austria | Germany | fa4e679 Spain/iso-3965-1977 |
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Canada Mexico United Kingdom
Chile Netherlands U.S.A.
Czechoslovakia Poland Yugoslavia

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

India

Agricultural wheeled tractors — Determination of maximum travel speed

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies methods for determining the maximum travel speed (in kilometres per hour) of agricultural wheeled tractors.

2 DEFINITIONS

- **2.1 maximum design speed**: The maximum attainable speed of the unladen tractor, where the engine speed governor has been set at the maximum top idle speed rating recommended by the manufacturer.
- **2.2 unladen tractor**: A tractor in working order, with full tanks, radiators and the mass of the operator, but without removable ballast weights, special equipment or loads.

4 MEASUREMENT OF MAXIMUM TRAVEL SPEED

- **4.1** Carry out the measurement on an unladen tractor, in its highest (fastest) gear at maximum engine speed and full throttle setting.
- **4.2** Measure the maximum tractor driving speed under the following conditions:
- 4.2.1 On a roadway or similar surface
 - which allows the maximum speed to be maintained for a travel test distance of at least 100 m;
- which is swept clean, level, of dry concrete, or similar finish;
 - not having more than 1 % slope in the direction of travel and not having more than 3 % slope at right angles to the direction of travel.

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3 TEST REQUIREMENTS

- 3.1 The fuel specified in the operation manual shall be used
- **3.2** For tractors manufactured in series, the carburettor and ignition settings and/or the fuel injection pump settings shall be the same for all tractors in the series.
- **3.3** The correct coolant and lubrication temperatures shall be maintained during the normal driving of the vehicle.
- **3.4** The tractor shall be equipped with new tyres of maximum size for the tractor being tested as specified by the manufacturer for normal usage. The tyres shall be inflated to a pressure as prescribed for road operation.
- **3.5** The roadway approach shall be of sufficient length, smoothness and uniformity of slope to ensure uniform travel speed of the tractor.

fa4e679706a3/iso-3965**4.2.2** In dry calm weather with the wind velocity not exceeding 3 m/s.

- **4.3** Drive the tractor first in one direction on the test roadway at the maximum speed for at least 100 m, and then in the reverse direction.
- **4.4** Calculate the mean maximum travel speed from the results of the two successive test drives.

5 CALCULATED MAXIMUM TRAVEL SPEED

Calculate the maximum forward ground speed (or maximum travel speed) from parameters as specified by the manufacturer, i.e. :

- the transmission gear ratio for the highest gear;
- the dynamic indices and the maximum size drivewheel tyres;
- the rated engine speed.

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