
**Agricultural tractors — Test
procedures —**

**Part 13:
Vocabulary and specimen test report**

Tracteurs agricoles — Méthodes d'essai —

Partie 13: Vocabulaire et modèle de rapport d'essai

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 2, *Common tests*.

A list of all the parts in the ISO 789 series can be found on the ISO website.

[ISO 789-13:2018](https://standards.iteh.ai/catalog/standards/iso/e62350a2-529b-4877-9328-654d681bc8f8/iso-789-13-2018)

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Agricultural tractors — Test procedures —

Part 13: Vocabulary and specimen test report

1 Scope

This document gives terms and definitions for use in the other parts of ISO 789. [Annex A](#) provides a specimen test report for all parts of ISO 789.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

agricultural tractor

self-propelled agricultural vehicle having at least two axles and wheels, or endless tracks, particularly designed to pull agricultural trailers and pull, push, carry and operate implements used for agricultural work (including forestry work), which may be provided with a detachable loading platform

Note 1 to entry: The agricultural vehicle has a maximum design speed of not less than 6 km/h and may be equipped with one or more seats.

[SOURCE: ISO 12934:2013, 3.1]

3.2

wheelbase

distance at ground level between two vertical planes passing through the centres of the front wheels and the rear wheels with tractor and wheels in the same straight ahead position

Note 1 to entry: See [Figure 1](#).

3.3

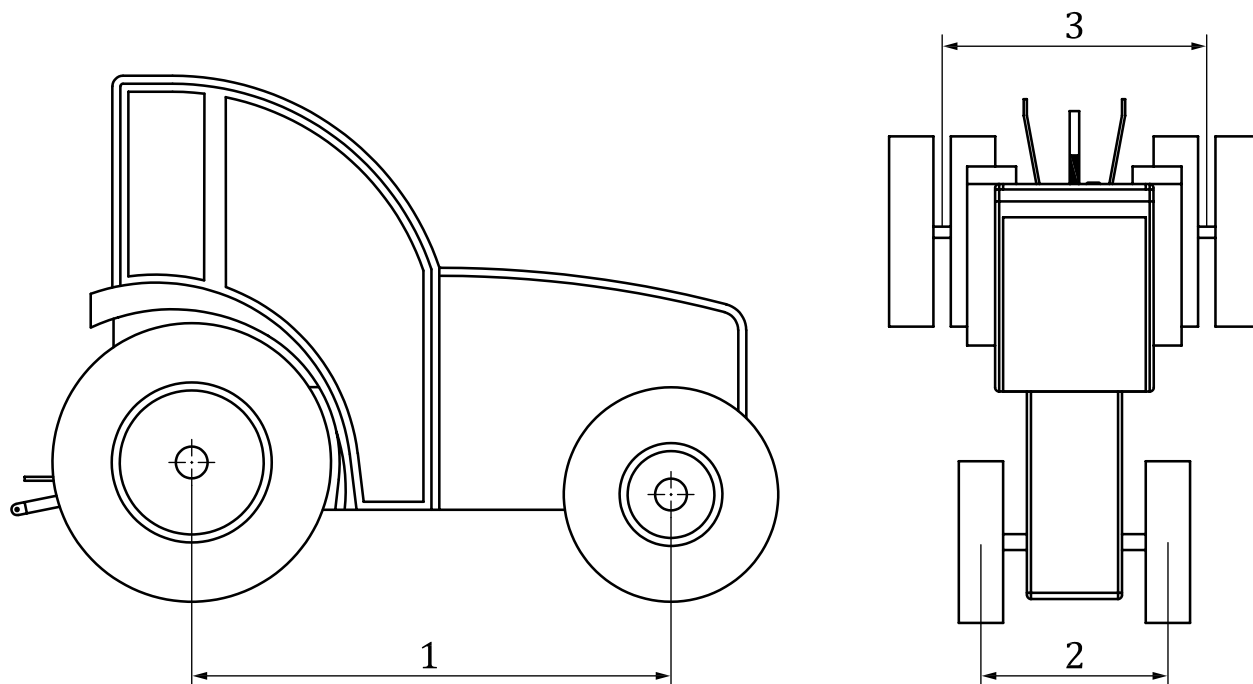
track

tread

distance at ground level between two vertical planes passing through the centreline of ground contact of the tyres parallel to the median longitudinal plane of the tractor with the wheels in the straight ahead position

Note 1 to entry: In the case of dual wheels, it is the distance at ground level between two planes passing through the centreline of the dual wheels. In the case of track-laying tractors, it is the distance between the two vertical planes passing through the centreline of ground contact of the tracks.

Note 2 to entry: See [Figure 1](#).



Key

- 1 wheelbase
- 2 track
- 3 track (dual wheels)

Figure 1 — Track and wheelbase of wheeled tractor

3.4

tractor mass

mass of a tractor as submitted for test

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3.5

ballasted mass

mass of the tractor with ballasting devices and without the driver mass while the tractor is in running order with tanks, circuits and radiator full, and any track equipment or additional front wheel drive components required for a normal use included; and in the case of tractors with pneumatic tyres, sometimes with liquid ballast in the tyres

[SOURCE: OECD Code 2: February 2017, 2.12]

3.6

unballasted mass

mass of the tractor in working order with tanks and radiators full, roll-over protective structure with cladding, and any track equipment or additional front-wheel drive components required for normal use

Note 1 to entry: Not included are the operator, optional ballast weights, additional wheel equipment, special equipment and loads.

[SOURCE: ISO 5700:2013, 3.2]

3.7

rated engine speed

engine speed specified by the tractor manufacturer for continuous operation at full load

3.8

maximum engine speed

engine speed at which the throttle control is at the maximum setting

3.9**engine power**

power measured at the flywheel or the crankshaft

[SOURCE: OECD Code 2: February 2017, 2.2]

3.10**power take-off power**

power measured at any shaft (with the tractor stationary) designed by the tractor manufacturer to be used as a power take-off

3.11**axle power**

sum of the powers measured at all powered axles

3.12**power at the drawbar**

power available at the drawbar which can be sustained for at least 20 s, or the time needed to cover a distance of at least 20 m, whichever is longer

3.13**maximum drawbar pull**

mean maximum sustained pull the tractor can maintain at the drawbar over a given distance where the pull is being exerted horizontally and in the vertical plane containing the longitudinal axis of the tractor

[SOURCE: OECD Code 2: February 2017, 2.6]

3.14**maximum permissible torque**

maximum torque specified by the manufacturer for the purpose of a test

3.15**external hydraulic service**

source of hydraulic power, derived from the hydraulic system of the *agricultural tractor* (3.1), available for use on an implement mounted on, coupled to or otherwise used in conjunction with it

[SOURCE: ISO 10448:1994, 3.1]

3.16**coupler pair**

pair of female hydraulic couplers compatible with male couplers as specified in ISO 5675, mounted on *agricultural tractors* (3.1) and connected to the hydraulic system to allow flow from one coupler to the other

[SOURCE: ISO 10448:1994, 3.2]

3.17**available differential pressure**

steady state difference of the hydraulic pressure between two male coupler parts on the implement side

[SOURCE: ISO 10448:1994, 3.3]

3.18**maximum pressure**

maximum steady state hydraulic pressure at either male coupler connected to a *coupler pair* (3.16)

[SOURCE: ISO 10448:1994, 3.4]