
**Agricultural tractors — Test
procedures —**

**Part 3:
Turning and clearance diameters**

Tracteurs agricoles — Méthodes d'essai —

Partie 3: Diamètres de braquage et de dégagement





COPYRIGHT PROTECTED DOCUMENT

© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

	Page
Foreword	iv
1 Scope	1
2 Terms and definitions	1
3 Apparatus	5
4 General requirements	5
4.1 Test area.....	5
4.2 Tractor test requirements.....	5
4.2.1 Tire and wheel equipment.....	5
4.2.2 Track (tread) setting.....	5
4.2.3 Other settings.....	5
5 Procedure	6
5.1 Right-hand turn, without brakes.....	6
5.1.1 Direct measurement.....	6
5.1.2 Alternate GPS method.....	6
5.2 Left-hand turn, without brakes.....	6
5.3 Right-hand turn, with brakes.....	7
5.4 Left-hand turn, with brakes.....	7
6 Test report	10
Annex A (informative) Specimen test report	11

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.

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee 2, *Common tests*.

This third edition cancels and replaces the second edition (ISO 789-3:1993), which has been technically revised.

ISO 789 consists of the following parts, under the general title *Agricultural tractors — Test procedures*:

- *Part 1: Power tests for power take-off*
- *Part 2: Rear three-point linkage lifting capacity*
- *Part 3: Turning and clearance diameters*
- *Part 4: Measurement of exhaust smoke*
- *Part 5: Partial power PT_0 – Non-mechanically transmitted power*
- *Part 6: Centre of gravity*
- *Part 7: Axle power determination*
- *Part 8: Engine air cleaner*
- *Part 9: Power tests for drawbar*
- *Part 11: Steering capability of wheeled tractors*
- *Part 12: Low temperature starting*

ISO/OECD 789 consists of the following parts, under the general title *Agricultural tractors – Test procedures*:

- *Part 10: Hydraulic power at tractor/implement interface*

Agricultural tractors — Test procedures —

Part 3: Turning and clearance diameters

1 Scope

This part of ISO 789 specifies a method of determining the turning and clearance diameters of wheeled agricultural tractors.

It applies to wheeled agricultural tractors having at least two axles fitted with pneumatic tyres.

2 Terms and definitions

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

2.1

agricultural tractor

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

2.2

track

tread

<wheeled tractor> distance at ground level between two vertical planes passing through the centreline of ground contact of the tires parallel to the median 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.

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