

INTERNATIONAL STANDARD

ISO
789-2

Third edition
1993-08-15

Agricultural tractors — Test procedures — Part 2: Rear three-point linkage lifting capacity

Tracteurs agricoles — Méthodes d'essai —

Partie 2: Capacité de relevage de l'attelage trois points arrière



Reference number
ISO 789-2:1993(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 bodies casting a vote.

International Standard ISO 789-2 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Sub-Committee SC 2, *Common tests*.

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 PTO — 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*

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International Organization for Standardization

Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

— *Part 10: Measurement of hydraulic power — Tractor/implement interface*

— *Part 11: Steering capability — Wheeled tractors*

Annex A forms an integral part of this part of ISO 789.

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Agricultural tractors — Test procedures —

Part 2:

Rear three-point linkage lifting capacity

1 Scope

This part of ISO 789 specifies test procedures for determining the lifting capacity of rear-mounted three-point linkage systems:

- a) the maximum vertical force which can be exerted by the hydraulic lift at the lower hitch points throughout their full range of movement;
- b) the maximum vertical force which can be exerted by the hydraulic lift, at a point 610 mm to the rear of the hitch points on a frame attached to the three-point linkage, throughout its full range of movement;
- c) optionally, the ability of the lifting system to maintain the load in the lifted position without hydraulic power.

NOTES

1 To ensure that the lifting capacity and the hydraulic power are adequate for effective practical use and also to allow for variation in the performance of nominally identical tractors, the measured maximum performance is reported as that which would be obtained with the hydraulic fluid pressure maintained at 90 % of the pressure sustained by the relief valve (see 6.1.3.4).

2 A static test provides an adequate comparison between tractors. It should be recognized that the test results are to be used only as a means of comparing tractors and not as a way of recommending the size of an implement which can be carried by the tractor.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions

of this part of ISO 789. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 789 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 730-1:1990, *Agricultural wheeled tractors — Rear-mounted three-point linkage — Part 1: Categories 1, 2 and 3.*

ISO 730-2:1979, *Agricultural wheeled tractors — Three-point linkage — Part 2: Category 1 N (Narrow hitch).*

ISO 730-3:1982, *Agricultural wheeled tractors — Three-point linkage — Part 3: Category 4.*

ISO 3448:1992, *Industrial liquid lubricants — ISO viscosity classification.*

3 Definitions

For the purposes of this part of ISO 789, the following definitions apply.

3.1 agricultural tractor: Self-propelled wheeled machine having at least two axles, or a track-laying machine, particularly designed to pull, push, carry and operate implements used for agricultural work (including forestry work), which may be provided with a detachable loading platform.

3.2 rated engine speed: Maximum rotational frequency, in reciprocal minutes (min^{-1}), specified by the tractor manufacturer for continuous operation at full load.