

SLOVENSKI STANDARD SIST EN ISO 11545:2011

01-november-2011

Nadomešča:

SIST EN ISO 11545:2001

Oprema za namakanje kmetijskih površin - Naprave z vrtljivimi in bočnimi krili s škropilnimi in razpršilnimi šobami - Določanje enakomernosti porazdelitve vode (ISO 11545:2009)

Agricultural irrigation equipment - Centre-pivot and moving lateral irrigation machines with sprayer or sprinkler nozzles - Determination of uniformity of water distribution (ISO 11545:2009)

iTeh STANDARD PREVIEW

Landwirtschaftliche Bewässerungsausrüstung Skreis- und Linearberegnungsmaschinen mit Düsen oder Regnern - Bestimmung der Gleichförmigkeit der Wasserverteilung (ISO 11545:2009)

https://standards.iteh.ai/catalog/standards/sist/3f90a282-981d-4687-ac21-dedccb899190/sist-en-iso-11545-2011

Matériel agricole d'irrigation - Pivots et rampes frontales équipés de buses d'arrosage ou d'asperseurs - Méthode de détermination de l'uniformité de la distribution d'eau (ISO 11545:2009)

Ta slovenski standard je istoveten z: EN ISO 11545:2009

ICS:

65.060.35 Namakalna in drenažna Irrigation and drainage

oprema equipment

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SIST EN ISO 11545:2011

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 11545

November 2009

ICS 65.060.35

Supersedes EN ISO 11545:2001

English Version

Agricultural irrigation equipment - Centre-pivot and moving lateral irrigation machines with sprayer or sprinkler nozzles - Determination of uniformity of water distribution (ISO 11545:2009)

Matériel agricole d'irrigation - Pivots et rampes frontales équipés de buses d'arrosage ou d'asperseurs -Détermination de l'uniformité de la distribution d'eau (ISO 11545:2009) Landwirtschaftliche Bewässerungsausrüstung - Kreis- und Linearberegnungsmaschinen mit Düsen oder Regnern -Bestimmung der Gleichförmigkeit der Wasserverteilung (ISO 11545:2009)

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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EN ISO 11545:2009 (E)

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EN ISO 11545:2009 (E)

Foreword

This document (EN ISO 11545:2009) has been prepared by Technical Committee ISO/TC 23 "Tractors and machinery for agriculture and forestry" in collaboration with Technical Committee CEN/TC 334 "Irrigation techniques" the secretariat of which is held by AENOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2010, and conflicting national standards shall be withdrawn at the latest by May 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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(stan Endorsement notice)

The text of ISO 11545:2009 has been approved by CEN as a EN ISO 11545:2009 without any modification.

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INTERNATIONAL STANDARD

ISO 11545

Third edition 2009-11-15

Agricultural irrigation equipment — Centre-pivot and moving lateral irrigation machines with sprayer or sprinkler nozzles — Determination of uniformity of water distribution

Matériel agricole d'irrigation — Pivots et rampes frontales équipés de buses d'arrosage ou d'asperseurs — Détermination de l'uniformité de la distribution d'eau (standards.iteh.ai)



ISO 11545:2009(E)

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ISO 11545:2009(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

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ISO 11545 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 18, *Irrigation and drainage equipment and systems*.

This third edition cancels and replaces the second edition (ISO 11545:2001), which has been technically revised.

(standards.iteh.ai)

Agricultural irrigation equipment — Centre-pivot and moving lateral irrigation machines with sprayer or sprinkler nozzles — Determination of uniformity of water distribution

1 Scope

This International Standard specifies an in-field method for determining the uniformity of water distribution in the field from centre-pivot and moving lateral irrigation machines equipped with sprayer or sprinkler nozzles. The calculation of the coefficient of uniformity is also specified.

This International Standard is applicable to agricultural irrigation machines for which the water application device is more than 1,5 m above the soil surface and for which the water distribution from successive devices overlaps.

It is not applicable to the evaluation of centre-pivot irrigation machines equipped with various corner arm application devices.

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2 Terms and definitions (standards.iteh.ai)

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

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centre-pivot irrigation machine

automated irrigation machine consisting of a number of self-propelled towers supporting a pipeline rotating around a pivot point and through which water supplied at the pivot point flows radially outward for distribution by sprayers or sprinklers located along the pipeline

2.2

moving lateral irrigation machine

automated irrigation machine consisting of a number of self-propelled towers supporting a pipeline transverse to the direction of travel moving in such a way that the pipeline remains generally in a straight line, traversing the field in a straight path, and through which water supplied to the irrigation machine at any point along the pipeline is distributed over a basically rectangular area by sprayers or sprinklers located along the pipeline

2.3

sprinkler

water-distribution device of a variety of sizes and types

EXAMPLE Impact sprinkler, fixed nozzle sprinkler, irrigation gun.

2.4

irrigation sprayer

device that discharges water in the form of fine jets or in a fan shape without rotational movement of its parts

2.5

sprinkler package

collection of water-distribution devices fitted to the outlets of either centre-pivot or moving lateral irrigation machines, either with or without moving components, piping, pressure or flow-control devices and supporting plumbing designed for a specific irrigation machine and set of operating parameters