**SLS ISO 11545: 2020**
**(ISO 11545:2009)**
**UDC 631.347**

# AGRICULTURAL IRRIGATION EQUIPMENT - CENTRE-PIVOT AND MOVING LATERAL IRRIGATION MACHINES WITH SPRAYER OR SPRINKLER NOZZLES - DETERMINATION OF UNIFORMITY OF WATER DISTRIBUTION

**SRI LANKA STANDARDS INSTITUTION**

**Sri Lanka Standard**

# AGRICULTURAL IRRIGATION EQUIPMENT — CENTRE-PIVOT AND MOVING LATERAL IRRIGATION MACHINES WITH SPRAYER OR SPRINKLER NOZZLES — DETERMINATION OF UNIFORMITY OF WATER DISTRIBUTION

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# Sri Lanka Standard
# AGRICULTURAL IRRIGATION EQUIPMENT — CENTRE-PIVOT AND MOVING LATERAL IRRIGATION MACHINES WITH SPRAYER OR SPRINKLER NOZZLES — DETERMINATION OF UNIFORMITY OF WATER DISTRIBUTION

## NATIONAL FOREWORD

This Sri Lanka Standard was approved by the Sectoral Committee on Agriculture and was authorized for adoption and publication as a Sri Lanka Standard by the Director General as vice chairperson of council on 2020-12-21 in the absence of chairman. This was ratified by the Council of Sri Lanka Standards Institution on 2021-01-13.

This Sri Lanka Standard is identical with **ISO 11545:2009** Agricultural irrigation equipment — Centre-pivot and moving lateral irrigation machines with sprayer or sprinkler nozzles — Determination of uniformity of water distribution, published by the International Organization for Standardization (ISO).

ISO 11545:2009 specifies an in-field method for determining the uniformity of water distribution in the field from center-pivot and moving lateral irrigation machines equipped with sprayer or sprinkler nozzles. The calculation of the coefficient of uniformity is also specified.

It 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 center-pivot irrigation machines equipped with various corner arm application devices.

## Terminology and conventions

The text of the International Standard has been accepted as suitable for publication, without deviation, as a Sri Lanka Standard. However, certain terminology and conventions are not identical with those used in Sri Lanka Standards. Attention is therefore drawn to the following:

a) Wherever the words “International Standard” appear referring to this standard, they should be interpreted as “Sri Lanka Standard”.

b) The comma has been used throughout as a decimal marker. In Sri Lanka Standards it is the current practice to use a full point on the baseline as the decimal marker.

c) Wherever page numbers are quoted, they are ISO page numbers.

The test temperature adopted in Sri Lanka is 27 ± 2 $^{0}$C and relative humidity 65 + 5 per cent is recommended.

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*

Reference number
ISO 11545:2009(E)

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# 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.

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.

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.