
**Crop protection equipment — Sprayers —
Demonstration track for field crop sprayers**

*Matériel de protection des cultures — Pulvérisateurs — Piste de
démonstration pour les pulvérisateurs*

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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.

In other circumstances, particularly when there is an urgent market requirement for such documents, a technical committee may decide to publish other types of normative document:

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Attention is drawn to the possibility that some of the elements of this Technical Specification may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO/TS 22763 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 6, *Equipment for crop protection*.

Introduction

The movement of the spray boom is an important performance criterion for field crop sprayers. During practical demonstrations, the sprayers are driven on demonstration tracks to give a visual impression of the boom movement. The tracks used are very different.

This Technical Specification specifies a uniform track that can be used for practical demonstrations. As the intention is to show the boom movement visually (and not to measure it), and due to the conditions under which practical demonstrations are normally performed, it gives the main characteristics — but not all details — required in, for example, carrying out laboratory measurements.

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Crop protection equipment — Sprayers — Demonstration track for field crop sprayers

1 Scope

This International Standard specifies a uniform demonstration track for showing the spray boom movement of field crop sprayers in, for example, practical demonstrations. The track specified can be used in demonstrations of mounted, trailed or self-propelled sprayers.

2 Terms and definitions

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

2.1

break-back test obstacle

moveable device showing the break-back operation of the outer spray boom section when coming into contact with obstacles in the field

2.2

bump test object

section higher than the ground surface, representing, for example, the potato dam

2.3

furrow test object

section deeper than the ground surface, representing, for example, hollows or the furrow

3 Specifications

3.1 General

3.1.1 The demonstration track shall be such as to ensure equal conditions for all sprayers independently when the sprayers are passing over the track. Therefore, the ground of the demonstration track and the objects shall be firm and shall keep the shape and specified height/depth. The conditions shall be monitored during the demonstration.

3.1.2 The sequence of the sprayers passing over the demonstration track should be determined by drawing lots.

3.1.3 The ground surface shall be even along the whole boom width.

3.1.4 All sprayers shall have the same track setting, the same height of boom and the same volume of liquid in the tank.

3.1.5 The tyre pressure shall be as recommended by the manufacturer.

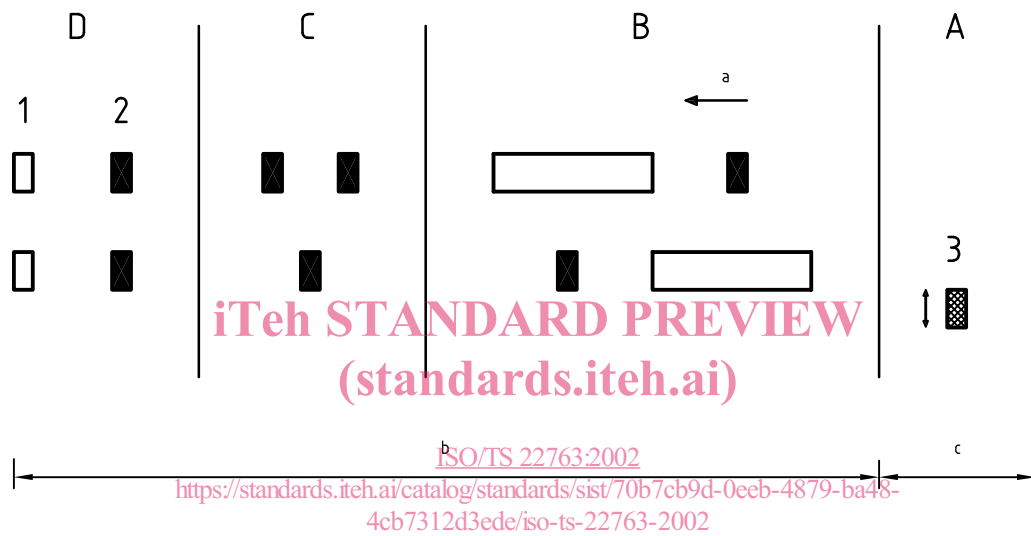
3.1.6 Devices for keeping distance between the boom end and the ground shall not be fitted.

3.2 Shape and positioning

The demonstration track shall include the following sections:

- hitting an object (section A);
- following the furrow (section B);
- passing field irregularities (section C);
- crossing bump and furrow (section D).

The number and arrangement of the bump and furrow test objects shall correspond to the example shown in Figure 1. Objects may be freely located.



NOTE D, C, B and A refer to the track sections.

Key

- 1 Furrow test object
- 2 Bump test object
- 3 Break-back test object

- a Driving direction
- b 6 km/h to 8 km/h
- c 4 km/h

Figure 1 — Demonstration track — Example

3.3 Objects

The objects shall be non-deformable, have a rectangular shape and be

- 5 cm to 15 cm high, and
- 5 cm to 15 cm deep.

3.4 Driving speed

The driving speed shall be

- approximately 4 km/h when passing the moveable object, and
- 6 km/h to 8 km/h for the remainder of the demonstration track.

Driving speeds should be monitored and communicated to visitors. Driving speeds may be changed according to local practice and different categories of sprayers, in which case the driving speed or speeds used shall be communicated to the participants in a timely manner.

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