



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 12761-3:2001

ICS 65.060.25
65.060.40

**AGRICULTURAL AND FORESTRY
MACHINERY - SPRAYERS AND LIQUID
FERTILISER DISTRIBUTORS -
ENVIRONMENTAL PROTECTION -
PART 3: AIR-ASSISTED SPRAYERS FOR
BUSH AND TREE CROPS**

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*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on
August 24, 2001*

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12761-3

March 2001

ICS 65.060.25; 65.060.40

English version

**Agricultural and forestry machinery - Sprayers and liquid
fertilizer distributors - Environmental protection - Part 3: Air-
assisted sprayers for bush and tree crops**

Matériel agricole et forestier - Pulvérisateurs et distributeurs
d'engrais liquide - Protection de l'environnement - Partie 3:
Pulvérisateurs à jet porte pour arbustes et arboriculture

Land- und Forstmaschinen - Pflanzenschutzgeräte zum
Ausbringen von Pflanzenschutzmitteln und flüssigen
Düngemitteln - Umweltschutz - Teil 3: Sprühgeräte für
Raumkulturen

This European Standard was approved by CEN on 4 February 2001.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 144 "Tractors and machinery for agriculture and forestry", the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by September 2001, and conflicting national standards shall be withdrawn at the latest by September 2001.

This standard consists of the following parts, under the general title *Agricultural and forestry machinery – Sprayers and liquid fertilizer distributors – Environmental protection*:

- *Part 1 : General*
- *Part 2 : Field crop sprayers*
- *Part 3 : Air-assisted sprayers for bush and tree crops*

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This standard specifies requirements and methods for their verification for design and performances of air-assisted sprayers for bush and tree crops with respect to minimizing the risk of environmental contamination.

This part applies in connection with EN 12761-1:2001 which contains general guidelines for agricultural sprayers.

2 Normative references

This European Standard incorporates, by dated or undated reference, provision from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 907:1997, *Agricultural and forestry machinery – Sprayers and liquid fertilizer distributors – Safety.*

EN 12761-1:2001, *Agricultural and forestry machinery - Sprayers and liquid fertilizer distributors - Environmental protection - Part 1 : General.*

ISO 4102, *Equipment for crop protection – Sprayers - Connection threading.*

ISO 4287, *Geometrical Product specification (GPS) – Surface texture: Profile method – Terms, definition and surface texture parameters.*

ISO 4288, *Geometrical Product Specifications (GPS) – Surface texture: Profile method – Rules and procedures for the assessment of surface texture.*

ISO 5682-1, *Equipment for crop protection – Spraying equipment – Part 1 : Test methods for sprayer nozzles.*

ISO 5682-2, *Equipment for crop protection – Spraying equipment – Part 2 : Test methods for hydraulic sprayers.*

ISO 5682-3:1996, *Equipment for crop protection – Spraying equipment – Part 3 : Test method for volume/hectare adjustment systems of agricultural hydraulic pressure sprayers.*

ISO 9357, *Equipment for crop protection – Agricultural sprayers – Tank nominal volume and filling hole diameter.*

ISO 13440: 1996, *Equipment for crop protection – Agricultural sprayers – Determination of the volume of total residues*

ISO 14710, *Equipment for crop protection – Air-assisted sprayers – Dimensions of nozzle swivel nuts.*

3 Terms and definitions

For the purposes of this standard, the terms and definitions given in EN 12761-1:2001 apply.

4 Requirements

4.1 General

4.1.1 Spray tank

4.1.1.1 Surfaces

Depth of roughness of inner and outer walls of the tank shall be such that $R_z \leq 100 \mu\text{m}$ as specified in ISO 4287, and measured according to ISO 4288.

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