

STN	Pol'nohospodárske a lesnícke stroje Environmentálne požiadavky na aplikátor granúl prípravkov na ochranu rastlín	STN EN 17745 47 4135
------------	---	--

Agricultural and forestry machinery - Environmental requirements for granule applicator of Plant Protection Products

Táto norma obsahuje anglickú verziu európskej normy.

This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/26

Obsahuje: EN 17745:2025

141902

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2026

Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 17745

September 2025

ICS 65.060.40

English Version

**Agricultural and forestry machinery - Environmental
requirements for granule applicator of Plant Protection
Products**

Matériel agricole et forestier - Exigences
environnementales relatives aux épandeurs de
granulés pour la protection des plantes

Land- und forstwirtschaftliche Maschinen -
Umweltanforderungen für Granulatstreuer für
Pflanzenschutzmittel

This European Standard was approved by CEN on 23 June 2025.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN 17745:2025 (E)**Contents**

Page

European foreword.....	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Requirements	6
4.1 General.....	6
4.2 Hoppers	7
4.2.1 Filling opening.....	7
4.2.2 Level indicator	7
4.2.3 Lid	7
4.2.4 Accessibility	7
4.2.5 Emptying system	7
4.2.6 Material output continuity.....	7
4.3 Metering system	8
4.3.1 General.....	8
4.3.2 Activation system.....	8
4.3.3 Flow rate setting.....	8
4.4 Distribution systems, controls and regulation systems.....	8
4.4.1 General.....	8
4.4.2 Flow rate uniformity (<i>only for Type A</i>)	8
4.4.3 Broadcast distribution (<i>only for Type B</i>)	8
5 Test methods	9
5.1 Test materials and equipment	9
5.1.1 Materials.....	9
5.1.2 Test equipment needed	9
5.2 Verification of hopper volume and the graduation scale	9
5.3 Residual amount in the hopper.....	10
5.4 Flow rate.....	10
5.5 Flow rate uniformity	10
5.6 Material output continuity.....	11
5.7 Broadcast distribution (<i>only for Type B</i>)	11
6 Operator's manual	11
Annex A (informative) Example of testing material for the tests	13
A.1 Main features of the material.....	13
Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2006/42/EC aimed to be covered	14
Bibliography.....	15

European foreword

This document (EN 17745:2025) 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 March 2026, and conflicting national standards shall be withdrawn at the latest by March 2026.

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

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

EN 17745:2025 (E)**Introduction**

The Amendment of the Machinery Directive considers also the environmental requirements of the equipment for the pesticide application (PAE).

To allow the fulfilment of these requirements, the harmonized standard series EN ISO 16119 has been produced. However, these standards do not include the granule applicators of Plant Protection Products (PPP) that are widely distributed in Europe and abroad.

This document defines the environmental requirements of the granule applicators of PPP and the methods to measure them.

Therefore, this document will have the following major benefits to the manufacturers and authorities.

It will help granule applicator manufacturers in fulfilling the environmental requirements mentioned in the amendment of the Machinery Directive.

This document is a type-C standard as stated in EN ISO 12100. This document is of relevance, in particular, for the following stakeholder groups representing the market players with regard to machinery safety:

- machine manufacturers (small, medium and large enterprises);
- health and safety bodies (regulators, accident prevention organizations, market surveillance, etc.).

Others can be affected by the level of machinery safety achieved with the means of the document by the above-mentioned stakeholder groups:

- machine users/employers (small, medium and large enterprises);
- machine users/employees (e.g. trade unions, organizations for people with special needs);
- service providers, e.g. for maintenance (small, medium and large enterprises);
- consumers (in case of machinery intended for use by consumers).

The above-mentioned stakeholder groups have been given the possibility to participate at the drafting process of this document. The machinery concerned and the extent to which hazards, hazardous situations or hazardous events are covered are indicated in the Scope of this document. When requirements of this type-C standard are different from those which are stated in type-A or type-B standards, the requirements of this type-C standard take precedence over the requirements of the other standards for machines that have been designed and built according to the requirements of this type-C standard.

1 Scope

This document specifies general constructive and functional requirements and their test methods for granule applicator with regard to minimizing the potential risk of environmental contamination during use.

This document deals with all the significant environmental hazards related to the granule applicators.

This document does not deal with safety requirements for protection of the operator only.

NOTE General safety requirements are covered by EN ISO 4254-1:2015 and EN ISO 4254-1:2015/A1:2021.

This document is not applicable to granule applicators manufactured before the date of its publication.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13739-2:2011, *Agricultural machinery — Solid fertilizer broadcasters and full width distributors — Environmental protection — Part 2: Test methods*

ISO 5681:2020, *Equipment for crop protection — Vocabulary*

ISO 8524:1986, *Equipment for distributing granulated pesticides or herbicides — Test method*

ISO 9357:1990, *Equipment for crop protection — Agricultural sprayers — Tank nominal volume and filling hole diameter*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN