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I.S. EN 15432:2008

Winter and road service area maintenance equipments - Frontmounted equipments - Interchangeability

I.S. EN 15432:2008

Incorporating amendments/corrigenda/National Annexes issued since publication:
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Winter and road service area maintenance equipments - Front-mounted equipments - Interchangeability

Matériels de viabilité hivernale et d'entretien des dépendances routières - Matériels montés à l'avant - Interchangeabilité

Winterdienst- und Straßenbetriebsdienstausstattung - Mechanische Schnittstelle an Fahrzeugen für frontangebaute Maschinen - Austauschbarkeit

This corrigendum becomes effective on 23 June 2010 for incorporation in the three official language versions of the EN.

Ce corrigendum prendra effet le 23 juin 2010 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 23.Juni 2010 zur Einarbeitung in die drei offiziellen Sprachfassungen der EN in Kraft.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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English Version

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This European Standard was approved by CEN on 21 October 2007.

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Foreword

This document (EN 15432:2008) has been prepared by CEN/TC 337/WG 3 "Interface between tools and vehicle", the secretariat of which is held by UNI-CUNA, under the direction of Technical Committee CEN/TC 337 "Winter maintenance and road service area maintenance equipment", 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of an identical text or by endorsement, at the latest by July 2008, and conflicting national standards shall be withdrawn at the latest by July 2008.

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

1 Scope

This European Standard specifies the requirements for the various elements of carrying vehicles to ensure interchangeability between a vehicle and different equipments that are frontally mounted. It specifies certain interchangeability dimensions of the front mounting plate, including its height above the ground, as well as the locations of coupling devices for electrical and hydraulic connections and for mechanical power take off (PTO).

This European Standard specifies two different classes of mounting plates in order to cover road vehicles, having a maximum design total mass higher than 3,5 t, of the greatest possible variety (commercial vehicles, multi-purpose vehicles, communal vehicles, ...), which are capable of carrying front-mounted equipments for winter maintenance and for road service area maintenance.

This European Standard specifies, with regard to electrical and hydraulic connections and to PTO, only location areas, clearance spaces and preferred layout in order to ensure interchangeability. Requirements applying to connectors, coupling devices and PTO splines are given in EN 15431.

Normative Annex A specifies provisions for an advanced front coupling system that is able to allow for mounting and demounting equipments without the use of tools. Users having to address specific needs (e.g. extreme weather conditions) may require the vehicle be fitted with such automatic coupling system.

Normative Annex B gives provisions for a compact and light front mounting plate intended for combined road and off-road applications.

2 Normative references

The following referenced documents are indispensable for the application 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 15431, *Winter and road service area maintenance equipments – Power system and related controls – Interchangeability and performance requirements*

3 Interchangeability requirements

3.1 Front mounting plate

3.1.1 General provisions

Mounting plates of all classes, as defined in following 3.1.2, shall be designed and installed to the carrying vehicle to allow for safe and easy tilting of the cabin (if the vehicle has been designed to provide for this facility).

Mounting plates of all classes, as defined in following 3.1.2, shall be designed and installed to the carrying vehicle so as to allow for mounting a front towing hitch (if the vehicle has been designed to provide for this facility).

Compliance to this requirement may be achieved in different ways, e.g. by a pivoting or folding mounting plate, by an appropriate non-obstructing design or by provisions for direct mounting of the hitch to the mounting plate itself.

Characteristics of the quick-coupling system designed to allow for mounting and demounting of equipments without the use of tools are given in Annex A.

Characteristics of the compact mounting plate designed for combined road and off-road applications are given in Annex B.

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