

# **SLOVENSKI STANDARD**

## **SIST-TS CEN/TS 15436-3:2009**

**01-maj-2009**

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**Oprema za vzdrževalna dela zimske službe in službe za vzdrževanje cest - 3. del:  
Klasifikacija**

Road service area maintenance equipment - Part 3: Classification

Straßenbetriebsdienstausstattung - Teil 3: Klassifikation

Matériel d'entretien des dépendances routières - Partie 3: Classification

**STANDARD PREVIEW**  
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**Ta slovenski standard je istoveten z: CEN/TS 15436-3:2009**

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**ICS:**

43.160      Vozila za posebne namene      Special purpose vehicles

**SIST-TS CEN/TS 15436-3:2009**

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TECHNICAL SPECIFICATION  
SPÉCIFICATION TECHNIQUE  
TECHNISCHE SPEZIFIKATION

**CEN/TS 15436-3**

February 2009

ICS 43.160

English Version

**Road service area maintenance equipment - Part 3:  
Classification**

Matériel d'entretien des dépendances routières - Partie 3:  
Classification

Straßenbetriebsdienstausstattung - Teil 3: Klassifikation

This Technical Specification (CEN/TS) was approved by CEN on 22 December 2008 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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## Foreword

This document (CEN/TS 15436-3:2009) has been prepared by Technical Committee CEN/TC 337 “Winter maintenance and road service area maintenance equipment”, the secretariat of which is held by AFNOR.

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

This Technical Specification was prepared with the aim of having a 3-year lifetime.

This European standard comprises four parts:

- EN 15436-1, *Road service area maintenance equipment – Part 1: Terminology*;
- EN 15436-2, *Road service area maintenance equipment – Part 2: Performance assessment*;
- CEN/TS 15436-3, *Road service area maintenance equipment – Part 3: Classification*;
- prEN 15436-4, *Road service area maintenance equipment – Part 4: Delivery acceptance of the machines by the users*.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: 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 the United Kingdom.

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## Introduction

Road service area grass cutting, brushcutting and mechanical plant cutting operations require special equipment that meets clearly defined technical criteria. This Technical Specification defines and describes the classification criteria of the machines with respect to their kinematic and power performances.

The performance evaluation is described in part 2 of this European standard.

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## 1 Scope

This Technical Specification defines the classification criteria of the road service area maintenance equipment described in the scope of EN 15436-1 and used for:

- grass cutting and brushcutting;
- mechanical plant cutting.

This equipment is mounted on self-propelled carrying vehicles and is intended, on the one hand, for cutting and shredding grass and brushwood, and, on the other hand, for trimming trees, saplings and bushes in road service areas.

## 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 13524, *Highway maintenance machines – Safety requirements*

EN 15436-1:2008, *Road service area maintenance equipment – Part 1: Terminology*

EN 15436-2:2008, *Road service area maintenance equipment – Part 2: Performance assessment*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 15436-1:2008 and EN 15436-2:2008 apply.

## 4 Definition of machine classes

### 4.1 Machine class

Depending on its composition, its kinematic and power performances as well as on the operating safety elements, a machine belongs to one of the two classes presented in Table 1.

Machine classes are defined by the minimum level of at least one of their characteristics.

Table 1 — Class 1 and 2 related characteristics

Construction characteristics			
		Class 2	Class 1
Cutting tool stopping time	$\leq 1,60$ m	$> 5$ s	$\leq 5$ s
	$> 1,60$ m	$> 7$ s	$\leq 7$ s
Class 1 machines shall be able to support tools up to 1,60 m.			
All requirements of EN 13524 shall be satisfied for both classes.			

Power characteristics			
		Class 2	Class 1
Cutting tool kinetic energy	Ec	Awaiting the determination, after measurement, of the minimum values, the constructor will provide his own values.	
Continuous maximum power	Power ratio γ		
	Efficiency η		
Maximum instantaneous power output	Maximum power output Pu <sub>max</sub>		
NOTE Other requirements, concerning in particular the grass cutting capacity, stemming from tests on a reference material, may be added after the 3-year experimentation period.			
All characteristics likely to qualify the ability of the machine to cut vegetation without loss of efficiency during a 4 hour working unit will also be examined and this together with the possibility of implementing a reference material.			

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Ability to adapt to the power source (mechanical or hydraulic)		
	Class 2	Class 1
Adaptation to the power source	<b>Non mandatory</b>	<b>Mandatory</b>
NOTE Whatever the input rotational speed requested by the purchaser, in particular the economic speed imposed by the carrier vehicle, the machine shall adapt in order to provide the declared power and speed to the cutting tool.		

Controllable ability of cutting head to evade obstacles		
	Class 2	Class 1
Evading force	<b>Non mandatory</b>	<b>Mandatory</b>
NOTE The evading force value will be examined during the 3-year experimentation period.		