INTERNATIONAL STANDARD

ISO 5395-1

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Garden equipment — Safety requirements for combustion-enginepowered lawnmowers —

Part 1: Terminology and common tests

Matériel de jardinage — Exigences de sécurité pour les tondeuses à ge , comt ...mologie et . gazon à moteur à combustion interne —

Partie 1: Terminologie et essais communs





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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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.

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

ISO 5395-1 was prepared by the European Committee for Standarization (CEN) Technical Committee CEN/TC 144, Tractors and machinery for agriculture and forestry in collaboration with ISO Technical Committee TC 23, Tractors and machinery for agriculture and forestry, Subcommittee SC 13, Powered lawn and garden equipment, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition of ISO 5395-1, together with ISO 5395-2 and ISO 5395-3, cancels and replaces ISO 5395:1990, which has been technically revised. These three parts also incorporate the Amendment ISO 5395:1990/Amd.1:1992.

ISO 5395 consists of the following parts, under the general title *Garden equipment — Safety requirements* for combustion-engine-powered lawnmowers

- Part 1: Terminology and common tests
- Part 2: Pedestrian-controlled lawnmowers
- Part 3: Ride-on lawnmowers with seated operator

Introduction

This document is a type-C standard as stated in ISO 12100.

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 requestion mac. 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.

This document is a preview general ded by tills

Garden equipment — Safety requirements for combustionengine-powered lawnmowers —

Part 1:

Terminology and common tests

1 Scope

This part of ISO 5395 specifies terminology and common test methods used for verification of safety requirements for combustion engine powered rotary lawnmowers and cylinder lawnmowers including pedestrian-controlled (with or without sulky) and ride-on types (hereafter named "lawnmower"), and equipped with:

- metallic cutting means and/or;
- non-metallic cutting means with one or more cutting elements pivotally mounted on a generally circular drive unit, where these cutting elements rely on centrifugal force to achieve cutting, and have a kinetic energy for each single cutting element of 10 J or more.

This document does not apply to:

- robotic and remote-controlled lawnmowers, flail mowers, grassland mowers, sickle bar mowers, towed/semi-mounted grass cutting machines, and scrub-clearing machines;
- cutting-means assembly when used in combination with an agricultural tractor;
- electrically powered and battery-powered lawnmowers.

NOTE IEC 60335-1[1] together with IEC 60335-2-77[2] give requirements for pedestrian-controlled walkbehind electrically powered lawnmowers.

This document is not applicable to lawnmowers which are manufactured before the date of publication of this document.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1032:2003+A1:2008, Mechanical vibration — Testing of mobile machinery in order to determine the vibration emission value

IEC 61672-1:2002, Electroacoustics — Sound level meters — Part 1: Specifications

ISO 354:2003, Acoustics — Measurement of sound absorption in a reverberation room

ISO 683-9:1988, Heat-treatable steels, alloy steels and free-cutting steels — Part 9: Wrought free-cutting steels

ISO 3744:2010, Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Engineering methods for an essentially free field over a reflecting plane

ISO 4871, Acoustics — Declaration and verification of noise emission values of machinery and equipment