SVENSK STANDARD
SS-EN 16486:2014+A1:2020

Maskiner för kompaktering av avfall eller återvinningsfraktioner – Kompaktorer – Säkerhetskrav

Machines for compacting waste materials or recyclable fractions – Compactors – Safety requirements

Svenska Institutet för Standarder

Språk: engelska/English

Utgåva: 1

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Fastställd: 2020-08-27
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Europastandarden EN 16486:2014+A1:2020 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 16486:2014+A1:2020.

Denna standard ersätter SS-EN 16486:2014, utgåva 1.

The European Standard EN 16486:2014+A1:2020 has the status of a Swedish Standard. This document contains the official version of EN 16486:2014+A1:2020.

This standard supersedes the SS-EN 16486:2014, edition 1.

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 16486:2014+A1

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ICS 43.160

Supersedes EN 16486:2014

English Version

Machines for compacting waste materials or recyclable fractions - Compactors - Safety requirements

Machines de compactage pour déchets ou matières recyclables - Compacteurs - Prescriptions de sécurité

Maschinen zum Verdichten von Abfällen oder recyclebaren Materialien - Verdichter - Sicherheitsanforderungen

This European Standard was approved by CEN on 28 May 2014 and includes Amendment 1 approved by CEN on 7 March 2020.

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

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European foreword

This document (EN 16486:2014+A1:2020) has been prepared by Technical Committee CEN/TC 397 “Project Committee - Baling presses - Safety requirements”, the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by November 2020 and conflicting national standards shall be withdrawn at the latest by November 2020.

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 supersedes A1 EN 16486:2014 A1.

This document includes Amendment 1 approved by CEN on 3 March 2020.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive.

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

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, Turkey and the United Kingdom.

Introduction

This European Standard is a type C standard as stated in EN ISO 12100:2010.

The machinery concerned and the extent to which hazards, hazardous situations and hazardous events are covered are indicated in the scope of this document.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the provisions of the other standards for machines that have been designed and built in accordance with the provisions of this type C standard.

1 Scope

This European Standard specifies the safety requirements for the design, manufacture and information for the safe use of compactors that compact waste material or recyclable fractions (e. g. paper, plastics, textiles, cans, cardboard, mixed waste), hereafter referred to as materials.

This European Standard applies to:

— compactors using a horizontally moving screw, pendulum or plate as compacting part and where the materials move horizontally; and

— compactors that are mechanically fed and/or fed by hand.

These compactors can be:

— static compactors;

— transportable compactors;

— traversing systems.

The scope includes:

— any integral mechanical feed equipment (e.g. bin lift);

— feed hoppers/openings;

— any integral pre-conditioning equipment in the hopper (e.g. perforators, pre-crushing devices and shredders);

— any integral material flow control equipment;

— the interface between the compactor and any feed equipment (except those excluded from the scope).

The scope of this European Standard does not cover:

— compactors that are covered by EN 1501 (all parts);

— underground compactors, however if these compactors can be used above ground this standard applies;

— compactors using thermal technologies for compaction;

— vacuum compactors;

— compactors where materials are compacted vertically;

— containers for static compactors, however the interface between the compaction unit and the container is included;

— bins in which materials are collected for feeding into the compactor;

— any up-stream pre-treatment equipment that is not integral to the machine and is used to treat the materials before they are fed into the feed opening of the compactor;

— vehicles including lifting equipment used to collect and transport the compactor or container;

— cranes, lift trucks or other transportable plant used to load materials into the feed hopper/opening and the hazards arising out of using this equipment to load;

— any suction or dust control equipment.

This European standard does not cover the lifting and transport of transportable compactors.

This European Standard does not apply to hazards arising from the materials being processed (e.g. asbestos, clinical waste, aerosol containers).

All hazards mentioned in Clause 4 are dealt with in this European Standard.

This European Standard is not applicable for compactors which are manufactured before the date of its publication as an EN.

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 349:1993+A1:2008, *Safety of machinery - Minimum gaps to avoid crushing of parts of the human body*

EN 574:1996+A1:2008, *Safety of machinery - Two-hand control devices - Functional aspects - Principles for design*

EN 620:2002+A1:2010, *Continuous handling equipment and systems - Safety and EMC requirements for fixed belt conveyors for bulk materials*

EN 953:1997+A1:2009, *Safety of machinery - Guards - General requirements for the design and construction of fixed and movable guards*

EN 1837:1999+A1:2009, *Safety of machinery - Integral lighting of machines*

EN 60204-1:2006, *Safety of machinery - Electrical equipment of machines - Part 1: General requirements*

EN 60529:1991, *Degrees of protection provided by enclosures (IP Code)*

EN 61496-1:2004, *Safety of machinery - Electro-sensitive protective equipment - Part 1: General requirements and tests*

CLC/TS 61496-2:2006, *Safety of machinery – Electro-sensitive protective equipment – Part 2: Particular requirements for active opto-electronic protective devices (AOPDs) (IEC 61496-2:2006)*

CLC/TS 61496-3:2008, *Safety of machinery – Electro-sensitive protective equipment – Part 3: Particular requirements for active opto-electronic protective devices responsive to diffuse reflection (AOPDDR) (IEC 61496-3:2008)*

EN 62262:2002, *Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code) (IEC 62262:2002)*

EN 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 3744:2010)*