

SLOVENSKI STANDARD SIST EN 474-9:2007+A1:2009

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Stroji za zemeljska dela - Varnost - 9. del: Zahteve za stroje za polaganje cevi

Earth-moving machinery - Safety - Part 9: Requirements for pipelayers

Erdbaumaschinen - Sicherheit - Teil 9: Anforderungen für Rohrverleger

Engins de terassement - Sécurité - Partie 9: Prescriptions applicables aux poseurs de canalisations

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EUROPEAN STANDARD

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Earth-moving machinery - Safety - Part 9: Requirements for pipelayers

Engins de terassement - Sécurité - Partie 9: Prescriptions applicables aux poseurs de canalisations

Erdbaumaschinen - Sicherheit - Teil 9: Anforderungen für Rohrverleger

This European Standard was approved by CEN on 17 April 2006 and includes Amendment 1 approved by CEN on 20 December 2008.

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 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 Management Centre has the same status as the official versions.

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

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Foreword

This document (EN 474-9:2006+A1:2009) has been prepared by Technical Committee CEN/TC 151 "Construction equipment and building material machines — Safety", 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of an identical text or by endorsement, at the latest by August 2009, and conflicting national standards shall be withdrawn at the latest by December 2009.

This document includes Amendment 1, approved by CEN on 2008-12-20.

This document supersedes [A1] EN 474-9:2006 (A1].

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

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(s), see informative Annexes ZA and ZB, which are integral parts of this document. (4)

For bibliographic references, see A EN 474-1:2006+A1:2009 (A).

EN 474 "Earth-moving machinery <u>(standards iteh ai)</u> Safety" comprises the following parts:

- Part 1: General requirements SIST EN 474-9:2007+A1:2009
 - https://standards.iteh.ai/catalog/standards/sist/013b3b34-ddb1-4054-
- Part 2: Requirements for tractor-dozers 1b/sist-en-474-9-2007a1-2009
- Part 3: Requirements for loaders
- Part 4: Requirements for backhoe-loaders
- Part 5: Requirements for hydraulic excavators
- Part 6: Requirements for dumpers
- Part 7: Requirements for scrapers
- Part 8: Requirements for graders
- Part 9: Requirements for pipelayers
- Part 10: Requirements for trenchers
- Part 11: Requirements for earth and landfill compactors
- Part 12: Requirements for cable excavators

This European Standard is intended for use in combination with Part 1 of the series.

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.

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Introduction

This part of EN 474 is a type C standard as stated in EN ISO 12100-1:2003.

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

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 according to the provisions of this type C standard.

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1 Scope

This part of EN 474 deals with all significant hazards, hazardous situations and events relevant to pipelayers as defined in EN ISO 6165:2006, when they are used as intended and under conditions of misuse which are reasonably foreseeable by the manufacturer (see Clause 4).

The requirements of this part are complementary to the common requirements formulated in [A] EN 474-1:2006+A1:2009 [A].

This part does not repeat the requirements from EN 474-1:2006+A1:2009 but adds or replaces the requirements for application for pipelayers.

This part specifies the appropriate technical measures to eliminate or reduce risks arising from the significant hazards, hazardous situations and events during commissioning, operation and maintenance of pipelayers.

This part specifies additional requirements for rear mounted winches.

Pipelayers with rotating upper structure are excluded from the scope of this document. However, specific requirements are under development.

This European Standard is not applicable to pipelayers manufactured before the date of publication of this European Standard by CEN.

2 Normative references Teh STANDARD PREVIEW

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies ST EN 474-92007+A12009

https://standards.iteh.ai/catalog/standards/sist/013b3b34-ddb1-4054-

A) EN 474-1:2006+A1:2009 (A), Earth-moving@machinery: Safety-29(Part 200General requirements

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

EN 1677-1:2000, Components for slings — Safety — Part 1: Forged steel components, Grade 8

EN 1677-2:2000, Components for slings — Safety — Part 2: Forged steel lifting hooks with latch, Grade 8

♠ EN ISO 3411:2007, Earth-moving machinery - Physical dimensions of operators and minimum operator space envelope (ISO 3411:2007) ♠

♠ EN ISO 7096:2008 ♠ Earth-moving machinery — Laboratory evaluation of operator seat vibration (ISO 7096:2000)

EN ISO 12100-1:2003, Safety of machinery — Basic concepts, general principles for design — Part 1: Basic terminology, methodology (ISO 12100-1:2003)

ISO 4308-1:2003, Cranes and lifting appliances — Selection of wire ropes — Part 1: General

[A] ISO 6393:2008, Earth-moving machinery - Determination of sound power level - Stationary test conditions (A)

▶ ISO 6394:2008 ﴿ Farth-moving machinery — Determination of emission sound pressure level at operator's position — Stationary test conditions

ISO 6405-2:1993, Earth-moving machinery — Symbols for operator controls and other displays — Part 2: Specific symbols for machines, equipment and accessories

ISO 8813:1992, Earth-moving machinery — Lift capacity of pipelayers and wheeled tractors or loaders equipped with side boom

A ISO 10968:2004 (A), Earth-moving machinery — Operator's controls

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 474-1:2006+A1:2009 (A), EN ISO 12100-1:2003 and the following apply.

NOTE 1 Terminology for pipelayers is specified in ISO 7136:2006 and illustrated in Annex B of this European Standard.

NOTE 2 Definitions used in EN and ISO standards referred to in this European Standard are also valid for this document.

3.1

pipelayer

self-propelled crawler or wheeled machine, having pipe-laying equipment with main frame, a load-hoist mechanism, vertically pivotable side boom, and counterweight, primarily designed to handle and lay pipes (see EN ISO 6165:2006)

4 List of additional significant hazards

See Annex A. iTeh STANDARD PREVIEW

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5 Safety requirements and/or measures

5.1 General

Pipelayers shall comply with the requirements of EN 474-1:2006+A1:2009 as far as not modified or replaced by the requirements of this part.