



**SLOVENSKI STANDARD**  
**SIST EN 16228-3:2014/oprA1:2019**  
**01-julij-2019**

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**Oprema za vrtanje in temeljenje - Varnost - 3. del: Oprema za vodoravno usmerjeno vrtanje (HDD) - Dopolnilo A1**

Drilling and foundation equipment - Safety - Part 3: Horizontal directional drilling equipment (HDD)

Geräte für Bohr- und Gründungsarbeiten - Sicherheit - Teil 3: Geräte für das Gerichtetete Horizontalbohrverfahren (HDD)

Machines de forage et de fondation - Sécurité - Partie 3 : Machines de forage horizontal dirigé (HDD)

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**Ta slovenski standard je istoveten z: EN 16228-3:2014/prA1**

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**ICS:**

25.080.40	Vrtalniki	Drilling machines
53.100	Stroji za zemeljska dela	Earth-moving machinery
93.020	Zemeljska dela. Izkopavanja. Gradnja temeljev. Dela pod zemljo	Earthworks. Excavations. Foundation construction. Underground works

**SIST EN 16228-3:2014/oprA1:2019**      **en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**EN 16228-3:2014**  
**prA1**

May 2019

ICS 93.020

English Version

## Drilling and foundation equipment - Safety - Part 3: Horizontal directional drilling equipment (HDD)

Machines de forage et de fondation - Sécurité - Partie 3  
: Machines de forage horizontal dirigé (HDD)

Geräte für Bohr- und Gründungsarbeiten - Sicherheit -  
Teil 3: Geräte für das Gerichtete  
Horizontalbohrverfahren (HDD)

This draft amendment is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 151.

This draft amendment A1, if approved, will modify the European Standard EN 16228-3:2014. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

This draft amendment was established by CEN 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-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (EN 16228-3:2014/prA1:2019) 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 document is currently submitted to the CEN Enquiry.

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

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of EN 16228-3:2014

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**EN 16228-3:2014/prA1:2019 (E)****1 Modification to the whole text**

*In the entire document, for all instances found:*

*Replace “EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019”.*

*Replace “EN 16228-3:2014” with “EN 16228-3:2014+prA1:2019”.*

**2 Modification to Clause 4 “List of additional significant hazards”**

*In the first paragraph, first sentence, replace “EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019”.*

*In the second paragraph, first sentence, replace “EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019”.*

**3 Modification to Subclause 5.1 “General”**

*Replace “EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019”.*

**4 Modification to Subclause 5.2.1 “General”**

*In the first paragraph, first sentence, replace “Subclause 5.2.3 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 5.2.3”.*

**5 Modification to Subclause 5.2.2 “Ground pressure”**

*In the first paragraph, first sentence, replace “Subclause 5.2.3.7 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 5.2.3.7”.*

*In the second paragraph, first sentence, replace “Annex F of EN 16228-1:2014+prA1:2019” with “EN 16228-1:2014+prA1:2019, Annex F”.*

**6 Modification to Subclause 5.3.1 “Brakes for travelling”**

*In the first paragraph, first sentence, replace “Subclause 5.7.1 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 5.7.1”.*

**7 Modification to Subclause 5.3.2 “Brakes for slewing”**

*In the first paragraph, first sentence, replace “Subclause 5.7.2 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 5.7.2”.*

**8 Modification to Subclause 5.4.1 “General”**

*In the first paragraph, first sentence, replace “Subclause 5.8 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 5.8”.*

**9 Modification to Subclause 5.4.2 “Roller and leaf chains”**

*In the first paragraph, first sentence, replace “Subclause 5.8.5 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 5.8.5”.*

**10 Modification to Subclause 5.6.1 “General”**

*In the first paragraph, first sentence, replace “Subclause 5.14.1 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 5.14.1”.*

## 11 Modification to Subclause 5.7 “Access to operating positions, intervention and servicing points”

*In the first paragraph, first sentence, replace “Subclause 5.12 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 5.12”.*

## 12 Modification to Subclause 5.8 “Retrieval, transportation, lifting and towing of horizontal directional drills and their parts”

*In the first paragraph, first sentence, replace “Subclause 5.19 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 5.19”.*

## 13 Modification to Subclause 5.10.1 “General”

*In the first paragraph, first sentence, replace “Subclause 5.16 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 5.16”.*

## 14 Modification to Subclause 5.10.3 “Protective measures for stopping of rotation and feed”

*In the first paragraph, first sentence, replace “Subclause 5.16.1, paragraph 3 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 5.16.1, paragraph 3”.*

## 15 Modification to Subclause 5.10.4 “Restricted operating mode”

*In the first paragraph, first sentence, replace “Subclause 5.23.2.2.4 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 5.23.2.2.4”.*

## 16 Modification to Subclause 5.11.2 “Warning devices”

*In the first paragraph, first sentence, replace “Subclause 5.30, paragraph 1 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 5.30, paragraph 1”.*

*In the second paragraph, first sentence, replace “Subclause 5.30, paragraph 2 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 5.30, paragraph 2”.*

## 17 Modification to Subclause 5.12.1 “General”

*In the first paragraph, first sentence, replace “5.2.1 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 5.2.1”.*

## 18 Modification to Subclause 5.14 “Drill frame extensions”

*In the first paragraph, first sentence, replace “Subclause 5.23.2.2.4 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 5.23.2.2.4”.*

## 19 Modification to Subclause 6.2 “Fitness for purpose testing”

*In the first paragraph, first sentence, replace “Subclause 6.2.2.3 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 6.2.2.3”.*

*In the second paragraph, first sentence, replace “6.2.2.1 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 6.2.2.1”.*

**EN 16228-3:2014/prA1:2019 (E)****20 Modification to Subclause 7.2 “Operator’s manual”**

*In the first paragraph, first sentence, replace “Subclause 7.3.2 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 7.3.2”.*

**21 Modification to Subclause 7.3 “Warning signs”**

*In the first paragraph, first sentence, replace “Subclause 7.3.2.2.2 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, 7.3.2.2.2”.*

**22 Modification to Subclause A.1 “General”**

*In the first paragraph, second sentence, replace “EN 16228-1:2014, Annex D” with “EN 16228-1:2014+prA1:2019, Annex D”.*

**23 Modification to Subclause B.1 “General”**

*In the first paragraph, first sentence, replace “Annex B of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, Annex B”.*

**24 Modification to Subclause B.2 “Operating conditions”**

*In the third paragraph, first sentence, replace “Subclause B.2.4 of EN 16228-1:2014” with “EN 16228-1:2014+prA1:2019, B.2.4”.*

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