



SLOVENSKI STANDARD

SIST EN 500-3:2000

01-april-2000

Mobile road construction machinery - Safety - Part 3: Specific requirements for soil stabilization machines

Mobile road construction machinery - Safety - Part 3: Specific requirements for soil stabilization machines

Bewegliche Straßenbaumaschinen - Sicherheit - Teil 3: Besondere Anforderungen an Bodenstabilisierungsmaschinen

Machines mobiles pour la construction de routes - Sécurité - Partie 3: Exigences spécifiques pour engins de stabilisation de sol

<https://standards.iteh.ai/catalog/standards/sist/61df4a60-3fe3-40f9-80e5-31b554c62a85/sist-en-500-3-2000>

Ta slovenski standard je istoveten z: **EN 500-3:1995**

ICS:

93.080.10 Gradnja cest Road construction

SIST EN 500-3:2000 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 500-3:2000

<https://standards.iteh.ai/catalog/standards/sist/61df4a60-3fe3-40f9-80e5-31b554c62a85/sist-en-500-3-2000>

EUROPEAN STANDARD

EN 500-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 1995

ICS 91.220

Descriptors: roads, construction, site equipment, mobile equipment, stabilization, safety, specifications, accident prevention, hazards, safety measure, signalling, graphic symbol, maintenance

English version

**Mobile road construction machinery - Safety - Part
3: Specific requirements for soil stabilization
machines**

Machines mobiles pour la construction de routes - Sécurité - Partie 3: Exigences spécifiques pour engins de stabilisation de sol

Bewegliche Straßenbaumaschinen - Sicherheit - Teil 3: Besondere Anforderungen an Bodenstabilisierungsmaschinen

(standards.iteh.ai)

SIST EN 500-3:2000

<https://standards.iteh.ai/catalog/standards/sist/61d4a60-3fe3-40f9-80e5-31b554c62a85/sist-en-500-3-2000>

This European Standard was approved by CEN on 1995-06-29. 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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

© 1995

All rights of reproduction and communication in any form and by any means reserved in all countries to CEN and its members.

Ref. No. EN 500-3:1995 E

Contents	page
	3
0	4
1	4
2	4
3	4
4	4
5	4
5.1	4
5.2	5
5.3	5
5.4	5
5.5	5
5.6	5
5.7	5
5.8	5
5.9	5
5.9.1	5
5.9.2	6
5.9.3	6
5.10	6
5.11	6
5.12	7
5.13	7
6	7
7	7
8	7
Annex A (normative) Braking systems	8



Foreword

This European Standard was prepared by the Technical Committee CEN/TC 151 "Construction equipment and building material machines - Safety" of which the secretariat is held by DIN.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EC Directive(s).

The Annex A is normative and contains "Braking systems".

EN 500 "Mobile road construction machinery - Safety" comprises the following parts:

- Part 1: Common requirements
- Part 2: Specific requirements for road-milling machines
- Part 3: Specific requirements for soil stabilization machines
- Part 4: Specific requirements for compaction machines
- Part 5: Specific requirements for joint cutters
- Part 6: Specific requirements for paver-finishers.

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 Mars 1996, and conflicting national standards shall be withdrawn at the latest by Mars 1996.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

SIST EN 500-3:2000

<https://standards.iteh.ai/catalog/standards/sist/61d4a60-3fe3-40f9-80e5-31b554c62a85/sist-en-500-3-2000>



0 Introduction

This part of EN 500 contains additional requirements to EN 500-1: 1995 "Common requirements". The clauses of this standard have the same numbering as those of EN 500-1: 1995.

1 Scope

This part of EN 500 specifies the safety requirements for soil stabilization machines as defined in clause 3 and deals with the significant hazards pertinent to soil stabilization machines, when used as intended and in conditions foreseen by the manufacturer.

2 Normative references

- | | |
|------------------|--|
| EN 500-1: 1995 | Mobile road construction machinery - Safety - Part 1: Common requirements |
| prEN 953: 1992 | Safety of machinery - General requirements for the design and construction of guards (fixed, movable) |
| prEN 23450: 1994 | Earth-moving machinery - Braking systems of rubber-tyred machines - Performance requirements and test procedures |

ITEH STANDARD PREVIEW
(standards.iteh.ai)

3 Definitions

For the purposes of this standard the following definitions apply.

3.1 Soil stabilization machines: Mobile machines used for the purpose of mixing filler, cement, lime, etc. with natural soil to improve the mechanical and physical properties of the soil material.

3.2 Mixing equipment: Power-driven drums, which rotate during the mixing operation. The surface of the drums is equipped with tools for the mixing process.

4 List of hazards

See EN 500-1: 1995.

5 Safety requirements

5.1 Lighting

See EN 500-1: 1995.

5.2 Design of the machine in relation to its operation and handling

See EN 500-1: 1995.

5.3 Operator's Station

The operator's station shall be provided with a cab to protect the operator against dust generated by the mixing process.

NOTE: Verifiable safety requirements for the protection against dust cannot be given at present.

5.4 Operator's seat

See EN 500-1: 1995.

5.5 Controls

See EN 500-1: 1995.

5.6 Starting

See EN 500-1: 1995.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

5.7 Stopping

<https://standards.iteh.ai/catalog/standards/sist/61df4a60-3fe3-40f9-80e5->
Brake systems on wheeled soil stabilization machines shall comply with Annex A.

[SIST EN 500-3:2000](#)

5.8 Danger of falling off, access to operator's station

See EN 500-1: 1995.

5.9 Precautions against hazards caused by moving parts

5.9.1 General

Soil stabilization machines shall be designed so that the rotation of the mixing equipment can be stopped with the engine (motor) still running.

5.9.2 Drum guards

The drum (the mixing equipment) shall be safeguarded to prevent accidental physical contacts and to retain debris and parts that can be possibly ejected.

Guards shall comply with clauses 6 and 7 of prEN 953: 1992.

Guards and flaps shall remain permanently attached, even when they are opened.

With regard to hazards present in the foot area, one of the following combinations for the dimensions A and B shall be observed (see figure 1).

Combination	A mm	B mm
1	≥ 250	≤ 100
2	≥ 280	≤ 120

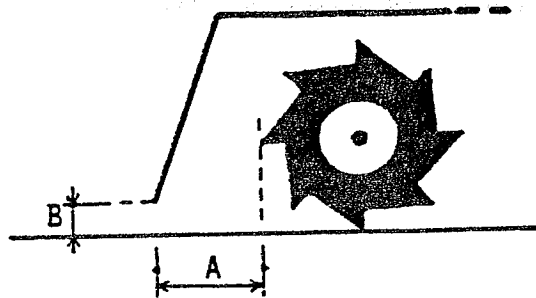


Figure 1: Mixing drum

Power-operated side panels of the drum guards, intended to be controlled during operation of the machine, shall comply with the following design criteria:

- the control device (handle) shall not lock in any position except in neutral (hold-to-move control);
- the control (handle) shall be located away from dangerous areas;
- a yellow flashing light shall be fitted in the danger areas and shall be activated whenever the control devices (handles) are operated, and
- side panels shall automatically return again to their normal (pre-set) position when the control device (handle) is released.

5.9.3 Elevating devices

Elevating devices on the machines shall be provided with a mechanical locking device to ensure safe elevation when maintenance is to be performed under the elevated devices.

NOTE: The mechanical locking device can be integrated with the elevating devices or can be a permanently attached separate unit. The instruction handbook should include instruction on the use of the mechanical locking device.

5.10 Precautions against hazards

See EN 500-1: 1995.

5.11 Fire protection

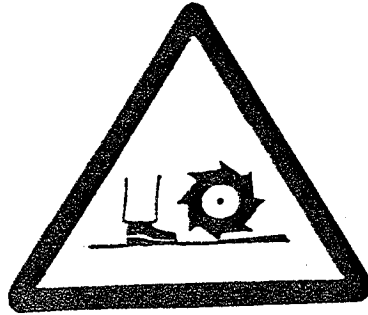
See EN 500-1: 1995.

5.12 Hazards due to extreme temperatures

See EN 500-1: 1995.

5.13 Signal devices and warning signs

A clearly visible and permanent warning sign shall be applied on both sides of the movable guards, or on the protective devices around the mixing tool. The marking shall have the form of a warning triangle in accordance with figure 2. The sides of the triangle shall measure at least 60 mm.



"WARNING! ROTATING MIXING DRUM!"
(Black print on yellow background)

iTeh STANDARD PREVIEW
Figure 2: Warning sign
(standards.iteh.ai)

6 Instruction handbook

[SIST EN 500-3:2000](#)

See EN 500-1: 1995. <https://standards.iteh.ai/catalog/standards/sist/61df4a60-3fe3-40f9-80e5-31b554c62a85/sist-en-500-3-2000>

7 Marking

See EN 500-1: 1995.

8 Verification of safety requirements/measures

See EN 500-1: 1995.