



SLOVENSKI STANDARD
SIST HD 400.3R S1:1995
01-marec-1995

**Hand held motor operated tools - Part 3: Particular specifications - Section R:
Trimmers**

Hand-held motor operated tools -- Part 3: Particular specifications -- Section R: Trimmers

Handgeführte Elektrowerkzeuge -- Teil 3: Besondere Bestimmungen -- Hauptabschnitt
R: Kantenfräse

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Outils portatifs à main à moteur -- Partie 3: Règles particulières -- Section R:
Affleureuses

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Ta slovenski standard je istoveten z: HD 400.3R S1:1992

ICS:

25.080.20	Frezalniki	Boring and milling machines
25.140.20	Električna orodja	Electric tools

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HARMONIZATION DOCUMENT

HD 400.3R S1

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

January 1992

UDC 621.914.3-83

Descriptors: Hand-held motor operated tools, trimmers, safety
requirement, protection against electric shock

ENGLISH VERSION

HAND-HELD MOTOR OPERATED TOOLS
PART 3: PARTICULAR SPECIFICATIONS
SECTION R: TRIMMERS

Outils portatifs à main à moteur
Troisième partie: Règles
particulières
Section R: Affleureuses

Handgeführte Elektrowerkzeuge
Teil 3: Besondere Bestimmungen
Hauptabschnitt R: Kantenfräse

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This Harmonization Document was approved by CENELEC on 1991-12-10. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document on a national level.

Up-to-date lists and bibliographical references concerning national implementation may be obtained on application to the Central Secretariat or to any CENELEC member.

This Harmonization Document exists in three official versions (English, French, German).

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

CENELEC

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

FOREWORD

This Harmonization Document was prepared by the CENELEC Technical Committee TC 61F and submitted to the CENELEC members for Unique Acceptance in February 1991 following a decision taken at the CLC/TC 61F meeting held in Brussels in April 1990.

The text of the Harmonization Document was approved by CENELEC as HD 400.3R S1 on 10 December 1991.

This Harmonization Document (Section R of HD 400.3) has to be used together with HD 400.1 (Hand-held motor-operated tools - Part 1: General Specifications).

The clauses of this section supplement or modify the corresponding clauses in Part 1. Where there is no corresponding clause or sub-clause in this section, the clause or sub-clause of Part 1 applies without modification as far as is reasonable. Where the text of this section states "addition", "modification" or "replacement", the relevant requirement, text specification or explanation of Part 1 should be adapted accordingly.

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The following dates were fixed:

- [SIST HD 400.3R S1:1995](http://standards.iteh.ai/catalog/standards/sist/33751c57-f7ac-48ad-95d9-929cc4c84c/sist-hd-400-3r-s1-1995)
- latest date of announcement of the HD at national level (doa) 1992-06-01
 - latest date of publication of a harmonized national standard (dop) 1992-12-01
 - latest date of withdrawal of conflicting national standards (dow) 1992-12-01

For products which have complied with the relevant national standard before 1992-12-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1997-12-01.

THE FOLLOWING PRINT TYPES ARE USED :

-REQUIREMENTS-
-Test
-Notes

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HD 400.3 SECTION R (standards.iteh.ai) PARTICULAR REQUIREMENTS FOR TRIMMERS

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<https://standards.iteh.ai/catalog/standards/sist/53751c57-f7ac-48ad-95d9-722c9ec4c84c/sist-hd-400-3r-s1-1995>

1- SCOPE

1.1 Addition

This standard does not cover Trimmers designed to be used in conjunction with a support or in any other way, such as Stationary or transportable machines.

2- DEFINITIONS

2.2 Modifications

18. NORMAL LOAD

DENOTES THE LOAD OBTAINED WHEN THE TOOL IS OPERATED INTERMITTENTLY EACH CYCLE COMPRISING A PERIOD OF CONTINUOUS OPERATION OF 1 MIN AND A REST PERIOD OF 1 MIN WITH THE TOOL SWITCHED OFF. THE LOAD APPLIED DURING THE PERIOD OF CONTINUOUS OPERATION SHALL BE SUCH THAT THE INPUT, IN WATTS, IS EQUAL TO RATED INPUT.

The introduction of a definition based on a formula is under consideration.

Attention is to be paid that, if eddy-current brakes are used for applying the load, their starting characteristic shall not be detrimental to the load of unit under testing.

29. TRIMMER

DENOTES A TOOL DESIGNED TO BE FITTED WITH A SUITABLE ROTARY CUTTER AND AN APPROPRIATE BASE, FOR TRIMMING AND FINISHING THE EDGE OF PLASTIC LAMINATE SHEET, WOOD VENEER OR THE LIKE, INCLUDING WHEN THEY ARE FIXED TO A SUBSTRATE. (SEE FIG. 1)

Trimmers are gripped by only one hand around their body and do not generally have additional handles or gripping areas. They shall be equipped with one or more of the following base plates:

30. FIXED BASE PLATE

DENOTES AN HEIGHT ADJUSTABLE PLATE BASE PROVIDED WITH ROLLER TO GUIDE THE TOOL RELAYIVE TO THE WORK PIECE. IT CAN BE EQUIPPED BY AN ATTACHEMENT FOR TRIMMING TO SIZE TWO LAMINATE SHEETS TO BE BUTTED TOGETHER. (SEE FIG.2)

31. TILT BASE PLATE

DENOTES AN HEIGHT ADJUSTABLE PLATE BASE PROVIDED WITH PIVOTS TO CUT THE ANGLE. (SEE FIG.3)

32. OFF-SET BASE PLATE

DENOTES A BASE PLATE WITH AN HEIGHT ADJUSTABLE CUTTER AND WHERE THE TRIMMER SPINDLE IS OFF-SET FROM THE MOTOR TO GET INTO AWKWARD SPACES. (SEE FIG.4)

7-MARKING

7.1 Modification

THE TOOL SHALL BE MARKED WITH THE MAXIMUM SPEED(S) IN REVOLUTION PER MINUTES.

7.13 Addition

THE INSTRUCTION SHEET SHALL GIVE DETAILS OF TYPE OF CUTTERS FOR WHICH THE TOOL IS DESIGNED AND DRAW ATTENTION TO THE NEED TO USE BITS OF THE CORRECT SHANK DIAMETER AND SUITABLE FOR THE SPEED OF THE TOOL.

THE INSTRUCTION SHEET SHALL ALSO GIVE INFORMATIONS CONCERNING THE DIAMETERS OF SHANK(S) FOR WHICH THE COLLECT(S) ARE DESIGNED.

10- INPUT AND CURRENT

10.1 Modification

THE TEST IS NOT MADE

11-HEATING

11.1 Modification

The tool is operated under normal load for 30 cycles. The temperature rises are measured at the end of the period of continuous operation.

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[732c9cc4c84c/sist-hd-400-3r-s1-1995](https://standards.iteh.ai/catalog/standards/sist/33751c57-f7ac-48ad-95d9-732c9cc4c84c/sist-hd-400-3r-s1-1995)

18-MECHANICAL HAZARD

Additions:

18.2 HANDLE

THE MOTOR HOUSING IS CONSIDERED AS THE ONLY GRIPPING AREA AND SHALL BE SO SHAPED SO AS TO MINIMIZE THE RISK OF INADVERTENT CONTACT OF THE HAND OF THE USER WITH ROTATING PARTS.

Inadvertent contact with the hand of the user, is considered to be sufficiently prevented when the main switch area is at least 120 mm far from the cutter, taking into account any base which may be fitted.

Compliance is checked by inspection and measurement.

18.3 BASE PLATES

BASE PLATES SHALL BE SO DESIGNED AS TO PREVENT THE HAND FROM INADVERTENT CONTACT OF THE HANDLE HOLDING THE TRIMMER WITH THE CUTTER WHILE IN OPERATION.

Compliance is checked by inspection.

18.4 ADJUSTING ELEMENTS

ELEMENTS INTENDED TO BE READJUSTED WHILE THE TRIMMER IS IN OPERATION SHALL BE LOCATED IN SUCH A WAY THAT TOUCHING THE CUTTER IS AVOIDED.

Compliance is checked by inspection.

18.5 MAXIMUM SPEED

THE MAXIMUM SPEED OF THE SPINDLE AT RATED VOLTAGE OR AT THE UPPER LIMIT OF THE VOLTAGE RANGE SHALL NOT EXCEED THE SPEED MARKED ON THE NAMEPLATE OF THE TOOL.

Compliance is checked by measuring the speed of the spindle after the tool has been operating for 15 minutes with no load.

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