Jalatsi-, naha- ja kunstnahast toodete valmistamise masinad. Masinad eeltöötlemiseks, kõlutustamiseks, läigestamiseks ja servalõikamiseks. Ohutusnõuded

Footwear, leather and imitation leather goods manufacturing machines - Roughing, scouring, polishing and trimming machines - Safety requirements



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN
930:1999 sisaldab Euroopa standardi EN
930:1997 ingliskeelset teksti.

Käesolev dokument on jõustatud 23.11.1999 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 930:1999 consists of the English text of the European standard EN 930:1997.

This document is endorsed on 23.11.1999 with the notification being published in the official publication of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

Käsitlusala:

See standard hõlmab masinaid, mis on ette nähtud jalatsite tootmiseks kasutatavate materjalide töötlemiseks: eeltöötlemise, kõlutustamise ja läigestamise automaat- ja käsitsijuhtimisega masinad, servalõikamise automaat- ja käsitsijuhtimisega masinad. See standard ei laiene jalatsiparanduse moodulmasinatele. Standard määrab kindlaks masinate disaini, konstruktsiooni ja töötamisega seotud ohutusnõuded.

Scope:

ICS 61.060

Võtmesõnad: info, kingad, masinate ohutus, nahatöötlemismasinad, ohtlik seade, ohtlikud piirkonnad, ohud, ohutusmeetmed, ohutusnõuded, töötlemine, utiliseerimine, õnnetusjuhtumite vältimine, ülevaatamine

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 930

August 1997

Ref. No. EN 930: 1997 E

ICS 61.060

Descriptors: Footwear manufacturing machines, safety requirements.

English version

Footwear, leather and imitation leather goods manufacturing machines – Roughing, scouring, polishing and trimming machines

Safety requirements

Machines pour la fabrication de chaussures et d'articles en cuir et matériaux similaires – Machines à carder, à verrer, à polir et à fraiser – Prescriptions de sécurité Maschinen zur Herstellung von Schuhen, Leder- und Kunstlederwaren – Aufrauh-, Ausglas-, Polierund Kantenbearbeitungsmaschinen – Sicherheitsanforderungen

This European Standard was approved by CEN on 1997-07-16.

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, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

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

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

Pag	ge 2	
FΝ	930	1997

CONTENTS

Foreword	3
0 Introduction	4
1 Scope	4
2 Normative references	4
3 Definitions	7
4 List of hazards	12
5 Safety requirements and/or measures	20
6 Verification of the safety requirements and/or measures	25
7 Information for use	33
Annex A (normative) Interlocking guards	35
Annex B (normative) Trip device	37
Annex C (normative) Stop and release control device	38
Annex D (normative) Well tried components and principles	39
Annex E (informative) Bibliography	40
Annex ZA	40

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 201 "Leather and imitation leather goods and footwear manufacturing machinery - Safety", the secretariat of which is held by UNI.

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 February 1998, and conflicting national standards shall be withdrawn at the latest by February 1998.

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 EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this standard.

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

0 Introduction

The extent to which hazards are covered is indicated in the scope of this standard. In addition machinery should comply as appropriate with EN 292-2:1991 for hazards which are not covered by this standard.

This standard contains safety requirements for roughing, scouring, polishing and trimming machinery. It is aimed at designers, manufacturers and importers.

1 Scope

- 1.1 This standard applies to the following machines which are intended to work material for the manufacture of footwear:
 - automatic and manual roughing, scouring and polishing machines
 - automatic and manual edge contour trimming machines
- 1.2 This standard does not apply to modular shoe repair machines.
- 1.3 This standard specifies safety requirements for design, construction and operation.

It takes account of intended use, foreseeable misuse, component and system failure.

1.4 This standard covers all hazards relevant to the footwear, leather and imitation leather goods manufacturing industries.

The use of machines within the scope of this standard in different industries may give rise to hazards which were not taken into account at the time of its preparation.

1.5 This standard applies to machines manufactured after its date of issue.

2 Normative references

This European standard incorporates by dated or undated reference provisions from other publications.

These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated reference, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 292-1:1991 Safety of machinery; basic concepts; general principles for design - Part 1: Basic terminology, methodology

EN 292-2:1991 Safety of machinery; basic concepts; general principles for design - Part 2: Technical principles and specifications

EN 294:1992 Safety of machinery - Safety distances to prevent danger zones being reached by the upper limbs

EN 349:1992 Safety of machinery - Minimum distances to avoid crushing of parts of the human body

EN 418:1992 Safety of machinery - Emergency stop equipment; functional aspects - Principles for design

prEN 547-2:1991 Safety of machinery - Human body dimensions - Part 2: Principles for determining the dimensions required for access openings

prEN 574:1995 Safety of machinery - Two-hand control devices

EN 626-1:1994 Safety of machinery - Reduction of risks to health from hazardous substances emitted by machinery - Part 1: Principles and specifications for machinery manufacturers

prEN 894-1:1992 Safety of machinery - Ergonomic requirements and data for the design of displays and control actuators - Part 1: Human interaction with displays and control actuators

prEN 953:1992 Safety of machinery - General requirements for the design and the construction of guards (fixed, movable)

EN 954-1:1996 Safety-related parts of control systems - Part 1: General principles for the design

EN 982:1996 Safety of machinery - Safety requirements for fluid power systems and their components - Hydraulics.

EN 983:1996 Safety of machinery - Safety requirements for fluid power systems and their components - Pneumatics

prEN 999:1993 Safety of machinery - Hand/arm speed - Approach speed of parts of the body for the positioning of safety devices

prEN 1005-1:1993 Safety of machinery - Human physical performance - Part 1: Terms and definitions

prEN 1005-2:1993 Safety of machinery - Human physical performance - Part 2: Manual handling of heavy weights associated with machinery

Page 6 EN 930 : 1997

prEN 1005-3:1993 Safety of machinery - Human physical performance - Part 3: Recommended force limits for machinery operation

EN 1037:1995 Safety of machinery - Isolation and energy dissipation - Prevention of unexpected start-up

ENV 1070:1993 Safety of machinery - Terminology

EN 1088:1995 Safety of machinery - Interlocking devices with or without guard locking - General principles and provisions for design

prEN 1093-1:1993 Safety of machinery - Evaluation of the emission of airbone hazardous substances - Part 1: Selection of the test method

prEN 1127-1:1993 Safety of machinery - Fire and explosions - Part 1: Explosion prevention and protection

EN 23740 series 1) Acoustics - Determination of sound power levels of noise sources

EN ISO 4871 ¹⁾ Acoustics - Declaration and Verification of noise emission values of machinery and equipment (ISO 4871:1996)

EN ISO 9614 ¹⁾ Acoustics - Determination of sound power level of noise sources using sound intensity

EN ISO 11200 series ¹⁾ Acoustics - Noise emitted by machinery and equipment - Guidelines for the use of basic standards for the determination of emission sound pressure levels at the work station and at other specified positions (ISO 11200:1995)

EN ISO 11689 1) Acoustics - Systematic collection and comparison of noise emission data for machinery and equipment (ISO 11689:1996)

¹⁾ These standards are in progress in ISO (revision of ISO 6081 in the case of the EN ISO 11200 series, revision of the ISO 3740 series, revision of ISO 4871, publication of ISO 9614 and 11689 pending).

prEN 50100-l:1993 Safety of machinery - Electrosensitive protective devices - Part 1: Specification for general requirements

prEN 50100-2:1993 Safety of machinery - Electrosensitive protective devices - Part 2: Particular requirements for an active optoelectronic protective device

EN 60204-1:1992 Safety of machinery - Electrical equipment of machines - Part 1: General requirements

EN 60947-5-1:1992 Control circuit devices and switching elements; Electro-mechanical control circuit devices

3 Definitions

For the purposes of this European Standard the definitions given in ENV 1070:1993 as well as the following definitions are applicable.

3.1 roughing machine

A machine which transmits energy from a prime mover to a tool for the purpose of roughing surfaces of material used in the manufacture of footwear, leather and imitation leather goods and other related components prior to cementing.

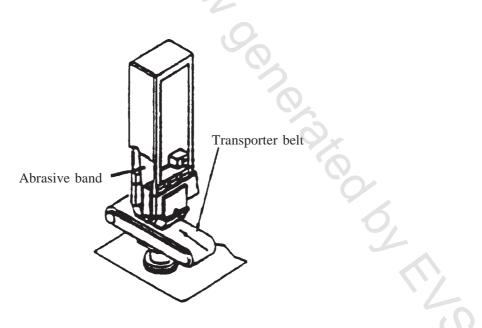


Figure 1: Roughing machine