

**Valukoja seadmed.  
Abrasiivjoaseadmete ohutusnõuded**

Foundry Machinery - Safety requirements for  
abrasive blasting equipment

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 1248:2001 sisaldab Euroopa standardi EN 1248:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 19.12.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 1248:2001 consists of the English text of the European standard EN 1248:2001.</p> <p>This document is endorsed on 19.12.2001 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b></p> <p>This standard specifies requirements to be met by the manufacturer of abrasive blasting equipment for the foreseeable significant hazards due to design, construction and installation, during commissioning, operation, maintenance and decommissioning of the equipment which employ either centrifugal force or compressed air as a means of accelerating abrasive to achieve the desired result.</p>	<p><b>Scope:</b></p> <p>This standard specifies requirements to be met by the manufacturer of abrasive blasting equipment for the foreseeable significant hazards due to design, construction and installation, during commissioning, operation, maintenance and decommissioning of the equipment which employ either centrifugal force or compressed air as a means of accelerating abrasive to achieve the desired result.</p>
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ICS 25.120.30

English version

## Foundry Machinery - Safety requirements for abrasive blasting equipment

Machines de fonderie - Prescriptions de sécurité pour  
équipements de grenaillage

Gießereimaschinen - Sicherheitsanforderungen für  
Strahlanlagen

This European Standard was approved by CEN on 8 March 2001.

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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 Management Centre has the same status as the official versions.

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COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

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## FOREWORD

This European Standard has been prepared by Technical Committee CEN/TC 202 "Foundry machinery", 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 October 2001, and conflicting national standards shall be withdrawn at the latest by October 2001.

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).

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

An assessment of the foreseeable risks arising from the use of the equipment was carried out when this standard was drafted by CEN/TC 202/WG 4, comprising experts from the following countries: France, Germany, Italy, Sweden and United Kingdom.

Annex A is normative, and Annex B is informative.

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, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## INTRODUCTION

This European standard is a type C standard as defined in EN 292.

The equipment and hazards covered by this standard are shown in the scope. In addition, abrasive blasting machinery shall comply, as appropriate with EN 292-1 and EN 292-2 for hazards which are not covered by this standard.

## **1 SCOPE**

This standard specifies requirements to be met by the manufacturer of abrasive blasting equipment for the foreseeable significant hazards due to design, construction and installation, during commissioning, operation, maintenance and decommissioning of the equipment which employ either centrifugal force or compressed air as a means of accelerating abrasive to achieve the desired result.

Abrasive blasting equipment covers:

- centrifugal blasting machines;
- air blasting machines;
- loading, conveying and unloading systems for the workpieces.

See Annex A for more details.

This standard covers all foreseeable significant hazards which could be encountered during the lifetime of the machine as listed in clause 5.

This standard does not apply to:

- mobile centrifugal blasting equipment;
- mobile air blasting equipment;
- wet blasting equipment;
- the general works compressed air supply system.

## 2 NORMATIVE REFERENCES

This Standard incorporates by dated or undated references provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, 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 (including amendments).

EN 271	Respiratory protective devices - Compressed air line or powered fresh air hose breathing apparatus incorporating a hood for use in abrasive blasting operations
EN 286-1	Simple unfired pressure vessels designed to contain air or nitrogen Part 1: Design manufacture and testing
EN 292-1:1991	Safety of machinery - Basic concepts, general principles for design Part 1: Basic terminology, methodology
EN 292-2:1991+A1:1995	Safety of machinery - Basic concepts, general principles for design - Part 2: Technical principles and specifications
EN 294	Safety of machinery - Safety distances to prevent danger zones being reached by the upper limbs
EN 349	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
EN 626-1	Safety of machinery – Reduction of risks to health from hazardous substances emitted by machinery Part 1: Principles and specifications for machinery manufacturers
EN 775+AC:1993	Manipulating Industrial robots – safety (ISO 10218:1992, modified)
EN 953	Safety of machinery – General requirements for the design and construction of guards (fixed, moveable)
EN 954-1:1996	Safety of machinery - Safety related parts of control systems Part 1: General principles for design
EN 982	Safety of machinery - Safety requirements for fluid power systems and their components - hydraulics
EN 999	Safety of machinery – The positioning of protective equipment in respect of approach speeds of parts of the human body

EN 1037	Safety of machinery - Prevention of unexpected start-up
EN 1070	Safety of machinery - Terminology
EN 1088:1995	Safety of machinery - Interlocking devices associated with guards – Principles for design and selection
EN 1265	Noise test code for foundry machines and equipment
EN 60204-1:1997	Safety of machinery - Electrical equipment of machines - Part 1: General requirements. (IEC 60204-1:1997)
EN 60529	Degrees of protection provided by enclosures (IP-Code); (IEC 60529:1989)
prEN 620:1992	Continuous handling equipment and systems – Fixed belt conveyors for bulk material – Special safety requirements for design, manufacturing, erection and commissioning stages
prEN 1005-3:1993	Safety of machinery - Human physical performance Part 3: Recommended force limits for machinery operation
EN ISO 11124-1	Preparation of steel substrates before application of paints and related products - Specifications for metallic blast-cleaning abrasives - Part 1: General introduction and classification (ISO 11124-1:1993)
EN ISO 11126-1	Preparation of steel substrates before application of paints and related products - Specifications for non-metallic blast-cleaning abrasives - Part 1: General introduction and classification (ISO 11126-1:1993, including Technical Corrigenda 1:1997 and 2:1997)
EN ISO 11688-1	Acoustics - Recommended practice for the design of low-noise machinery and equipment Part 1: Planning (ISO/TR 11688-1:1995)
CENELEC R044-001, February 1999	Safety of machinery – Guidance and recommendations for the avoidance of hazards due to static electricity