



National Standards Authority of Ireland
Údarás um Chaighdeáin Náisiúnta na hÉireann

IRISH STANDARD

I.S. EN 15164:2008

ICS 73.120

**MACHINES AND PLANTS FOR MINING AND
TOOLING OF NATURAL STONE - SAFETY -
REQUIREMENTS FOR CHAIN- AND BELT-
SLOTING MACHINES**

National Standards
Authority of Ireland
Northwood, Dublin 9
Ireland

Tel: +353 1 807 3800
Fax: +353 1 807 3838
<http://www.nsai.ie>

Sales

<http://www.standards.ie>

*This Irish Standard was
published under the authority
of the National Standards
Authority of Ireland and
comes into effect on:
22 July 2008*

**NO COPYING WITHOUT NSAI
PERMISSION EXCEPT AS
PERMITTED BY COPYRIGHT
LAW**

© NSAI 2008

Price Code I

Údarás um Chaighdeáin Náisiúnta na hÉireann

This page is intentionally left BLANK.

ICS 73.120

English Version

Machines and plants for mining and tooling of natural stone - Safety - Requirements for chain- and belt-slotting machines

Machines et installations d'extraction et d'usinage des
pierres naturelles - Sécurité - Prescriptions relatives aux
coupeuses à chaîne et à sangle

Maschinen und Anlagen zur Gewinnung und Bearbeitung
von Naturstein - Sicherheit - Anforderungen für Ketten- und
Gurt-Steinschrämmmaschinen

This European Standard was approved by CEN on 18 April 2008.

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 CEN Management Centre or to any CEN member.

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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

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

Contents

Page

Foreword.....	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	7
4 List of significant hazards	10
5 Safety requirements and/or protective measures	10
5.1 General.....	10
5.2 Mechanical hazards	11
5.2.1 Protection against moving parts.....	11
5.2.2 Positioning and stabilizing devices for transportable machines	11
5.3 Movement of machines on the rails.....	12
5.3.1 General requirements.....	12
5.3.2 Requirements for transportable machines	12
5.3.3 Requirements for machines with powered trolley movement	13
5.4 Loss of stability.....	13
5.5 Transport and positioning of machines and sub-assemblies	13
5.5.1 Transport of the machines.....	13
5.5.2 Positioning of the machines.....	13
5.4.3 Transport of rails sections.....	14
5.4.4 Handling of the cutting arm	15
5.6 Maintenance	15
5.7 Ergonomic aspects.....	15
5.8 Electrical equipment and energy supply.....	15
5.8.1 Connectors and cables	15
5.8.2 Cable-less remote control.....	15
5.8.3 Electric plug and socket	15
5.8.4 Emergency stop	15
5.8.5 Safety-related parts of the control systems.....	15
5.8.6 Mode selector switch	16
5.8.7 Supply disconnecting device	16
5.8.8 Protection degree of the enclosures	16
5.9 Electrical hazards	16
5.9.1 General.....	16
5.9.2 Safety requirements related to electromagnetic phenomena.....	16
5.10 Power failure	16
5.11 Hydraulic and pneumatic components.....	17
6 Verification of safety requirements and/or protective measures	17
7 Information for use	17
7.1 General.....	17
7.2 Signals and warning devices.....	17
7.3 Instruction handbook	17
7.3.1 General.....	17
7.3.2 Description of the machine.....	17
7.3.3 Instructions for transport, handling and storage of the machine and its dismantlable parts	18
7.3.4 Instructions for the installation and the use of the machine	19
7.3.5 Maintenance instructions	20

7.3.6	Spare parts list.....	20
7.4	Marking.....	20
Annex ZA (informative)	Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC.....	22
Annex ZB (informative)	Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC.....	23

Figures

Figure 1 —	Transportable chain- or belt-slotting machine for open-cast quarries	8
Figure 2 —	Chain-slotting machine for underground quarries	8
Figure 3 —	Stationary chain- or belt-slotting machine.....	9
Figure 4 —	Gantry chain- or belt-slotting machine.....	9
Figure 5 —	Fixed and adjustable guards	11
Figure 6 —	Stabilizing and positioning devices.....	12
Figure 7 —	Machine-lifting by ropes	13
Figure 8 —	Machine-lifting by a rocker arm.....	14
Figure 9 —	Example of rails-lifting points	14

Tables

Table 1 —	List of significant hazards	10
------------------	--	-----------

Foreword

This document (EN 15164:2008) 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 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 November 2008, and conflicting national standards shall be withdrawn at the latest by November 2008.

This document 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 Annexes ZA and ZB, which are integral parts of this document.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-