



NSAI
Standards

Irish Standard
I.S. EN 16564:2014

Machines and plants for mining and tooling of natural stone - Safety - Requirements for bridge type sawing/milling machines, included numerical control (NC/CNC) versions

I.S. EN 16564:2014

Incorporating amendments/corrigenda/National Annexes issued since publication:

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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**Machines and plants for mining and tooling of natural stone -
Safety - Requirements for bridge type sawing/milling machines,
included numerical control (NC/CNC) versions**

Machines et équipements pour l'exploitation et l'usinage de pierres naturelles - Sécurité - Prescriptions relatives aux machines à scier/fraiseuses de type pont, y compris les versions à commande numérique (NC/CNC)

Maschinen und Anlagen zur Gewinnung und Bearbeitung von Naturstein - Sicherheit - Anforderungen an Brücken-Säge-/Fräsmaschinen einschließlich numerischer Steuerungsversionen (NC/CNC)

This European Standard was approved by CEN on 13 September 2014.

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EN 16564:2014 (E)

Foreword

This document (EN 16564:2014) 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of an identical text or by endorsement, at the latest by June 2015 and conflicting national standards shall be withdrawn at the latest by June 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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 2006/42/EC, see informative Annex ZA, which is an integral part 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, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

This European Standard has been prepared to be a harmonized standard to provide one means of conforming to the essential health and safety requirements of the Machinery Directive and associated EFTA Regulations.

This European Standard is a type C standard as stated in EN ISO 12100:2010.

The machinery concerned and the extent to which hazards, hazardous situations and events are covered are indicated in the scope of this document.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the provisions of the other standards for machines that have been designed and built according to the provisions of this type C standard.

The requirements of this document are directed to manufacturers and their authorized representatives of bridge type sawing/milling machines included numerical control (NC/CNC) versions. It is also useful for designers.

This also includes examples of information to be provided by the manufacturer to the user.

EN 16564:2014 (E)

1 Scope

This European Standard deals with all significant hazards, hazardous situations and events, as listed in Clause 4, which are relevant to bridge type machines: sawing, sawing and milling, milling, included numerical control (NC/CNC) versions, designed to saw and mill natural stone and engineered/agglomerated stone as defined by EN 14618:2009, when they are used as intended and under conditions of misuse which are reasonably foreseeable by the manufacturer (see Clause 4).

This European Standard specifies the appropriate technical measures to eliminate or reduce risks arising from the significant hazards.

This European Standard deals with the foreseeable lifetime of the machinery including the phases of transport, assembly, dismantling, disabling and scrapping.

This European Standard also applies to machines fitted with the following facilities/devices:

- mechanical, pneumatic, hydraulic or vacuum workpiece clamping;
- automatic tool change;
- loading and unloading conveyor system;
- tilting and/or rotating head axis;
- rotating workpiece support(s);
- tilting workpiece support(s) when loading;
- lathe unit;
- undercut grooving unit;
- axes operating in accordance with an NC work programme.

This European Standard does not apply to:

- machines intended for operation in a potentially explosive atmosphere;
- machines operating in severe environmental conditions (e.g. extreme temperatures, corrosive environment);
- machines intended for outdoor operation;
- machines which are manufactured before the date of its publication as EN.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 166:2001, *Personal eye-protection - Specifications*

EN 349:1993+A1:2008, *Safety of machinery - Minimum gaps to avoid crushing of parts of the human body*

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