



National Standards Authority of Ireland

IRISH STANDARD

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ICS 25.080.10

**SAFETY OF MACHINE-TOOLS - MANUALLY
CONTROLLED TURNING MACHINES
WITH OR WITHOUT AUTOMATIC CONTROL**

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EUROPEAN STANDARD

EN 12840

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English version

Safety of machine-tools - Manually controlled turning machines with or without automatic control

Sécurité des machines-outils - Machines de tournage à
commande manuelle avec ou sans commande
automatique

Sicherheit von Werkzeugmaschinen - Handgesteuerte
Drehmaschinen mit oder ohne Automatiksteuerung

This European Standard was approved by CEN on 6 July 2000.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Contents	Page
Foreword	3
Introduction	4
1 Scope	4
2 Normative references	4
3 Terms and definitions	6
4 List of significant hazards	10
5 Safety requirements and/or measures	17
6 Information for use	31
Annex A (normative) Noise emission measurement	35
Annex ZA (informative) Clauses of this European Standard addressing essential requirements or other provisions of EU directives	36
Bibliography	37

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 143 "Machine tools – Safety", the secretariat of which is held by SNV.

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 August 2001, and conflicting national standards shall be withdrawn at the latest by August 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 EU Directive(s).

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

Organisations contributing to the preparation of this European standard include the European Manufacturer Association CECIMO.

Annex A is normative.

The European Standards produced by CEN/TC 143 are particular to machine-tools and complement the relevant A and B standards on the subject of general safety (see introduction of EN 292-1:1991 for a description of A, B and C standards).

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 has been prepared to be a Harmonised Standard to provide one means of conforming to the Essential Safety Requirements of the Machinery Directive and associated EFTA regulations.

This European Standard is a type C standard as defined in EN 292:1991.

The extent to which hazards are covered is indicated in the scope of this standard. In addition manually controlled turning machines with or without automatic control shall comply as appropriate with EN 292:1991 part 1 and 2 for hazards which are not covered by this standard.

The requirements of this European Standard concern designers, manufacturers, suppliers and importers of machines described in the scope.

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

1 Scope

This European Standard specifies the requirements and/or measures to remove the hazards and limit the risks on general purpose manually controlled horizontal or vertical spindle turning machines which may have limited or unlimited automatic control which are intended to work cold metal and here in after referred to as "machines".

This standard covers all significant hazards, which are listed in clause 4.

The standard also applies to ancillary devices (e. g. tools, chuck, workpiece handling devices and swarf handling equipment) which are integral to the machines.

This standard also include information to be provided by the manufacturer to the user.

This standard does not apply to NC turning machines which are intended for use as automatic production machines where the manual control is only for the principal purpose of setting the machine up for automatic production (see prEN 12415 and prEN 12478).

Where additional processes are involved this standard can be taken as a basis (see also annex Bibliography).

This standard applies to machines which are manufactured after the date of issue of this standard.

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 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 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 292-2:1991/A1:1995, *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 zone being reached by the upper limbs.*

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