



NSAI
Standards

Irish Standard
I.S. EN 13309:2000

Construction machinery - Electromagnetic compatibility of machines with internal electrical power supply

I.S. EN 13309:2000

Incorporating amendments/corrigenda issued since publication:

<i>This document replaces:</i>	<i>This document is based on:</i> EN 13309:2000	<i>Published:</i>	
This document was published under the authority of the NSAI and comes into effect on: 27 October, 2000		ICS number: 33.100 91.220	
NSAI 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie	Price Code: N
Údarás um Chaighdeáin Náisiúnta na hÉireann			

EUROPEAN STANDARD

EN 13309

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2000

ICS 33.100; 91.220

English version

Construction machinery - Electromagnetic compatibility of machines with internal electrical power supply

Machines de génie civil - Compatibilité électromagnétique
des machines équipées de réseau électrique de distribution
interne

Baumaschinen - Elektromagnetische Verträglichkeit von
Maschinen mit internem elektrischen Bordnetz

This European Standard was approved by CEN on 26 June 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 Central Secretariat 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 Central Secretariat 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
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

Contents

	Page
Foreword	4
0 Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	7
3.1 Electromagnetic compatibility (EMC)	7
3.2 Electromagnetic disturbance	7
3.3 Electromagnetic immunity	8
3.4 Electromagnetic environment	8
3.5 Reference limit	8
3.6 Reference antenna	8
3.7 Broadband emission	8
3.8 Narrowband emission	8
3.9 Electrical/electronic system	8
3.10 Electrical/Electronic sub-assembly (ESA)	8
3.11 Construction machinery type	9
3.12 ESA type	9
3.13 Electrostatic discharge (ESD)	9
3.14 Conducted transients	9
4 Requirements	9
4.1 General requirements	9
4.2 Specifications concerning broadband electromagnetic emission radiated from construction machinery	10
4.3 Specifications concerning narrowband electromagnetic emission radiated from construction machinery	11
4.4 Specifications concerning the immunity of construction machinery to electromagnetic radiation	11
4.5 Specifications concerning broadband electromagnetic emissions radiated from ESA's	12
4.6 Specifications concerning narrowband electromagnetic emissions radiated from ESA's	12
4.7 Specifications concerning the immunity of ESA's to electromagnetic radiation	12
4.8 Electrostatic discharge (ESD)	13
4.9 Conducted transients	13
5 Exceptions	15
6 Test report	15
Annex A (normative) Reference limits	17
Annex B (normative) Method of measurement of radiated broadband electromagnetic emissions from construction machinery	23
Annex C (normative) Method of measurement of radiated narrowband electromagnetic emissions from construction machinery	29
Annex D (normative) Method of measurement of radiated broadband electromagnetic emissions from electrical/electronic sub-assembly	33

Annex E (normative) Method of measurement of radiated narrowband electromagnetic emissions from electrical/electronic sub-assemblies	38
Annex F (informative) A Guideline for selecting the test specimen configuration	42
Annex ZA (informative) Clauses of this European Standard addressing essential requirements or other provisions of EU Directives	44
Bibliography	45

Foreword

This European Standard 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 January 2001, and conflicting national standards shall be withdrawn at the latest by January 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.

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.

The annex A is normative and contains „Figures of the reference limits“, the annex B is normative and contains „Method of measurement of radiated broadband electromagnetic emissions from construction machinery“, the annex C is normative and contains „Method of measurement of radiated narrowband electromagnetic emissions from construction machinery“, the annex D is normative and contains „Method of measurement of radiated broadband electromagnetic emissions from electrical/electronic sub-assembly“, the annex E is normative and contains „Method of measurement of radiated narrowband electromagnetic emissions from electrical/electronic sub-assemblies“ and the annex F is informative and contains „A guideline for selecting the test specimen configuration“.

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](#)
-