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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 22663-2008

**Electrical equipment of industrial machines -- Electromagnetic
compatibility -- Immunity requirements for machine tools**

工业机械电气设备 电磁兼容 机床抗扰度要求

(English Translation)

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Foreword

This standard is identical with European standard EN50370-2:2003 "Electromagnetic compatibility (EMC) - Product family standard machines - Part 2. Anti Disturbed degree requirements "(in English).

This standard is equivalent translation EN50370-2:2003.

For ease of use, this standard made the following editorial changes.

--- Will apply European standards to apply to the presentation of the standard formulation

(including punctuation);

--- The EN50370-2:2003 standard name "Electromagnetic compatibility (EMC) - Product family standard machines - Part 2. Immunity To Seeking "to the name of the standard" industrial machinery and electrical equipment EMC immunity machine requirements ";

--- Deleting EN standard preface.

The Standard Appendix A, Appendix B, Appendix C is a normative appendix, Appendix D, Appendix E is informative appendix.

The standard proposed by China Machinery Industry Federation.

The standard mechanical and electrical systems by the National Standardization Technical Committee (SAC/TC231) centralized.

1 Scope 1)

1) EN50370-2 standard is to coordinate the EU EMC Directive.

If the machine tool exports to the EU and the use of this standard, please note the following.

- a) This standard does not separate into the market for components EMC conformity assessment;
- b) This standard is not used for 98/37/EC Machinery Directive conformity assessment, and therefore does not include the safety requirements;
- c) This standard does not include fixed facilities 2004/108/EC Electromagnetic Compatibility Directive defined.

The standard provides for an industrial environment or similar purposes, the line rated voltage not exceeding 1000Va. c. Or 1500Vd. c. Machine Bed EMC immunity requirements.

NOTE: The machine can be equipped with a motor, a heating element or a combination thereof, may comprise. electrical or electronic circuits, may be mains or other power supply.

The immunity standards can also be used to evaluate the machine for use in other environments, these environments (residential, light industrial environment, etc.) than the industrial environment Low immunity level required.

This standard does not apply to machines installed in a special electromagnetic environment, for example. the presence of strong electromagnetic fields (such as near the station broadcast transmitter), or There are intense pulsed power grid in the environment (such as a power station) machine. Equipment and systems used in these situations, the need to act accordingly to reduce electromagnetic the impact of the measures.

This standard relates to electromagnetic immunity frequency range of 0Hz to 400GHz.

Other frequencies are not taken into account by this standard.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 17626.2-2006 Electromagnetic compatibility - Testing and measurement techniques - Electrostatic discharge immunity test (IEC 61000-4-2:2001, IDT) GB/T 17626.3-2006 Electromagnetic compatibility - Testing and measurement techniques RFEMS test (IEC 61000-4-3:2002, IDT) GB/T 17626.4-2008 Electromagnetic compatibility - Testing and measurement techniques - Electrical fast transient burst immunity test (IEC 61000-4-4:2004, IDT) GB/T 17626.5-2008 Electromagnetic compatibility - Testing and measurement techniques - Surge (impact) immunity test (IEC 61000-4-5.

2005, IDT)

GB/T 17626.6-2008 Electromagnetic compatibility - Testing and measurement techniques - conducted disturbances induced by RF field immunity (IEC 61000-4-6:2006, IDT) GB/T 17626.8-2006 Electromagnetic compatibility - Testing and measurement techniques - Power frequency magnetic field immunity test (IEC 61000-4-8:2001, IDT) GB/T 17626.11-2008 Electromagnetic compatibility Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity Test (IEC 61000-4-11:2004, IDT) GB/T 21067-2007 industrial machinery and electrical equipment Electromagnetic compatibility - Generic immunity requirements