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

GB/T 28386-2012

**Noise measurement methods for printing, paper converting,
paper making machines and auxiliary equipment -- Accuracy
grades 2 and 3**

印刷、纸加工、造纸机械和辅助设备的噪声测量方法 准确度等级2和3
(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard technical content and BSEN13023:2003 Noise measurement "printing, paper processing, paper making machinery and auxiliary equipment method is accurate Grade 2 and 3 "are basically the same.

Correspondence between the consistency of the standards of international documents and normative references of the following documents.

- GB/T 148-1997 printing, writing and drawing paper format size (ISO 216. 1975, NEQ);
- Determination of sound power levels of noise sources reflecting plane free field engineering method GB/T 3767-1996 Acoustics sound pressure (Eqv ISO 3744:1994);
- GB/T 3768-1996 Determination of sound pressure of sound power levels of noise sources using an enveloping surface reflectance measurement surface Level 3 Accuracy law (eqv ISO 3746:1995);
- GB/T 14367-2006 Determination of acoustic noise source sound power levels based on the standard instructions for use (ISO 3740:2000, MOD);
- Declaration and verification of GB/T 14574-2000 Acoustics machinery and equipment noise emission values (eqv ISO 4871:1996);
- GB/T 15706.2-2007 Safety of machinery - Basic concepts, general principles for design - Part 2. Technical principles (ISO 12100-2:2003, IDT);

NOTE: EN292-2:1991 has been ISO 12100-2:2003 instead.

- GB /measurement unit of sound power levels of noise sources paragraph 1 T 16404-1996 sound intensity method. Measurement at discrete points (Eqv ISO 9614-1:1993);
- GB/T 16404.2-1999 sound intensity Determination of sound power levels of noise sources - Part 2. Measurement by scanning (eqv ISO 9614-2:1996).
- GB/T 17248.1-2000 Acoustics machinery and equipment noise emission measurement operating position and at other specified positions launch SPL Guidelines for the use of basic standards (eqv ISO 11200:1995);
- GB/T 17248.3-1999 Acoustics - Noise emitted by machinery and equipment and other operating positions specified position emission sound pressure Level measurement under operating conditions the measurement accuracy of three methods (eqv ISO 11202:1995);
- GB/T 17248.4-1998 Acoustics - Noise emitted by machinery and equipment is determined by the sound power level and other working position means Emission sound pressure level given location (eqv ISO 11203:1995);
- GB/T 17248.5-1999 Acoustics - Noise emitted by machinery and equipment and other operating positions specified position emission sound pressure Level measurement environment Amendment Act (eqv ISO 11204:1995).

This standard made the following editorial changes.

- The Chapter 12 "EN number" replaced by "standard number";
- The example Chapter 12 "Noise Measurement EN13023H.2.2-2 level" to "noise measurement GB/T 28386H.2.2-2 class";

--- Increase the number of tables in the appendix.

--- Original Appendix J to Appendix I, so that the number of Appendices according to the English alphabetical order continuous arrangement;

--- Removed BSEN13023:2003 The informative annex ZA "the basic requirements of European standards or other provisions of EU directives." the standard proposed by China Machinery Industry Federation.

This standard by the National Printing Machinery Standardization Technical Committee (SAC/TC192) centralized.

This standard was drafted. Beijing Printing Machinery Research Institute, the North Printing Machinery Co., Ltd. Ruian City, Quality and Technical Supervision and Inspection Institute.

1 Scope

This standard specifies the conditions under specified measurement measuring, marking, verification print GB/T 28387 involved, and paper processing machinery Paper, binding air noise emission values \u200b\u200b of machinery finishing requirements EN1034 involved; this also provides noise measurement criteria used Method and installation and operating conditions of the test.

This standard applies to the mechanical (for example. machines and machine parts are listed in Appendix A ~ Appendix I) Determination of noise emission, standard Display and verification. Test report recommended that all arrangements with the assembly, installation and operating conditions and work-related position measuring noise when recording information.

Noise emission values \u200b\u200bare sound power level LW emission sound pressure level LP and machines working position.

Note 1: The sound power level value reflects the noise level of the machine; emission sound pressure level reflects the impact of labor environment.

Note 2: The noise emission values \u200b\u200b of machinery and equipment can be labeled and used printing machinery and paper processing corresponding noise emission values \u200b\u200b of machinery on the market for comparison.

Noise measurement methods specified in this standard, including engineering method (accuracy class 2) and the barrel Trade Law (accuracy level 3). Use of this standard noise Determination of acoustic emission values \u200b\u200b will ensure that its reproducibility within a specific range. These range from the precision level of noise measurement method used to determine.

Position measurements and other emission sound pressure level specified by the position based on the standard (ENISO 11200:1995, ENISO 11202).

1995, ENISO 11203:1995 and ENISO 11204:1995) to establish, sound power level measured by the basic standards (ENISO 3740.

2000, ENISO 3744:1995, ENISO 3746:1995, ENISO 9614-1:1995 and ENISO 9614-2:1996) to establish.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

EN292-2:1991 Safety of machinery - Basic concepts and general principles for design - Part 2. Technical principles (Safetyofmachinery-Basicconcepts, generalprinciplesfordesign-Part 2. Technicalprinciplesandspecifications) ENISO 216 print and writing paper cutting size cutting size determination level A series and B series (Writingpaper andcertainclassesofprintedmatter-Trimmedsizes-AandBseries) (ISO 216. 1975) ENISO 3740. 1980 Determination of acoustic noise source sound power levels based on the standard user guide (Acoustics-Determina-tionofsoundpowerlevelsofnoisesources-Guidelinesfortheuseofbasicstandardsforthe prepara-tionofnoisetestcodes) (ISO 3740:2000) ENISO 3744:1994 Determination of sound pressure of sound power levels of noise sources reflecting plane free field engineering method (Acoustics-Determinationofsoundpowerlevelsofnoisesourcesusingsoundpressure-Engineeri ng methodinanessentiallyfreefieldoverareflectingplane) (ISO 3744:1994) ENISO 3746:1995 Determination of sound pressure of sound power levels of noise sources using an enveloping surface reflectance measuring surface level 3 the accuracy of the method (Acoustics-Determinationofsoundpowerlevelsofnoisesourcesusingsoundpressure-Surveym ethodusinganenvelopingmeasurementsurfaceoverareflectingplaneforaccuracygrade3) (ISO 3746:1995)

1996 Declaration and verification of acoustic emission values \u200b\u200b of machinery and equipment (Acoustics-Declarationandverifi-. ENISO 4871