

ICS 73.100.10
CCS J 84



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

GB/T 5621-2008

Replacing GB/T 5621-1999

**Test methods of performance for rock drilling machines and
pneumatic tools**

凿岩机械与气动工具 性能试验方法

(English Translation)

Issued on: July 9, 2008

Implemented on: February 1, 2009

Issued by: Standardization Administration of China

Table of Contents

Preface
1 Scope
2 Normative references
3 Terms, quantities and units Symbol
4 Product Category
5 Performance Test Method
Appendix A (informative) drilling machines and pneumatic tools Test Report Form (Rotary Product)
Annex B (informative) drilling machines and pneumatic tools Test Report Form (impact products)
Annex C (normative) Measuring Stress Wave program impact energy
Annex D (informative) This standard reg number and ISO 2787. 1984 reg control number
Annex E (informative) This standard and ISO 2787. 1984 technical differences and their causes

Foreword

This revised standard adopts ISO 2787. 1984 "Rotary pneumatic tools and impact performance test" (in English).

This standard is based on ISO 2787. 1984 re-drafted. For comparison, in information listed in Appendix D of this standard and national List of international control standard clauses.

This standard adopts ISO 2787. 1984 when modified. The technical differences between a single vertical line identifies the article to which they are involved Paragraph margin, and gives a list of the technical differences and their causes in the informative Appendix E for reference.

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

- "This International Standard" be replaced by "this standard";
- Instead of using the decimal point as a decimal point ",", " ";
- Delete international standard "foreword", "Catalog" and "Introduction";
- Cancel the ISO 2787 in the "definition" of the entire contents of a chapter;
- To ISO 2787. 1984 Annex C of the individual errors were modified.

This standard is a revision of GB/T 5621-1999 "drilling machines and pneumatic tools

performance test method", and with GB/T 5621-1999 compared to the main changes are as follows.

- Increased directory;
- Remove the "ISO foreword";
- Increasing the GB/T 6374-2004 normative reference documents;
- 5.1.2 of the "ambient temperature. $20\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ " and "press temperature. $20\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ " were changed to "Ambient temperature. $10 \sim 35\text{ }^{\circ}\text{C}$ " and "press temperature. $15 \sim 35\text{ }^{\circ}\text{C}$ ";
- 5.6.1 After the "magnetic sensor" increased "pressure sensor";
- According to the actual characteristics of the product, the original standard C. 1.7a) content re-defined as C. 1.7a) (see Appendix E);
- Increase the informative Appendix D and Appendix E.

This standard replaces GB/T 5621-1999.

Appendix C of this standard is a normative appendix, Appendix A, Appendix B, Appendix D and Appendix E is an informative annex.

The standard proposed by China Machinery Industry Federation.

The standard drilling machines and pneumatic tools by the National Standardization Technical Committee (SAC/TC173) centralized.

This standard was drafted. Tianshui pneumatic drilling machines Tool Institute.

1 Scope

This standard specifies the drilling machines and pneumatic tools (hereinafter referred to as the product) performance test methods and criteria.

This standard applies to performance test drilling machines and pneumatic tools, do not apply to air screwdriver impact gas trigger.

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 3100-1993 and Its Application to the International System of Units (eqv ISO 1000:1992)

GB 3101-1993 General principles relating to amounts, units and symbols (eqv ISO

31-0:1992) GB/T 4974-2005 compressors, drilling machines and pneumatic tools -

Preferred pressures (ISO 5941. 1979, MOD) GB/T 6247-2004 term drilling machines and pneumatic tools (ISO 3857-3. 1989, MOD) GB/T 6374-2004 drilling machines and pneumatic tools and fitting dimensions of chuck bushings (ISO 1180. 1983, MOD)

3.1 Terms

Terms and definitions GB/T 6247-2004 established apply to this standard.

3.2 Volume, units and symbols

Quantity and unit symbols used in this standard shall comply with the provisions of GB 3100-1993 and GB 3101-1993 Table 1.

Table 1

The name of the volume quantity	Name	Symbol	Unit	Symbol	Mm	mm	piston diameter	D
Newton force	F	N	Length	L	m or m	or mm	M	Newton meters torque
	Nm	Me	N · m	Mass	m1	kg	kg	Like rpm spindle speed
	r/min	Power	P	kW	Mm	mm	piston stroke	Ju
	Liter per second	volume flow	q	V	L/s			