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

GB/T 8910.4-2008

**Hand-held portable power tools -- Measurement of vibrations at
the handle -- Part 4: Grinders**

手持便携式动力工具 手柄振动测量方法 第4部分：砂轮机

(English Translation)

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Foreword

GB/T 8910 "held portable power tools - Measurement of vibrations at the handle" is divided into the following sections.

- Part 1. General;
- Part 2. shovel and riveting machines;
- Part 3. rock drills and rotary hammers;
- Part 4. Grinders;
- Part 5. Pavement Construction Engineering crushers and hammers;
- Part 6. Impact drills;
- Part 7. impact, impulse, ratchet wrenches, air screwdrivers screwdriver and nuts;
- Part 8. polishing machine, rotary and there is no trace track grinder;
- Part 9. tamping machine;
- Part 10. punching and shearing;
- Part 11. nailing machine;
- Part 12. Reciprocating Saws and files, tilting and rotary saws;
- Part 13. Die grinders;
- Part 14. quarrying tools and needle beam Scaler.

This section GB/T 8910 Part 4.

This part identical with ISO 8662-4:1994 "held portable power tools - Measurement of vibrations at the handle - Part 4. Grinders" (In English).

This section is equivalent translation ISO 8662-4:1994 (E).

This part of ISO 8662-4:1994 technical content the same, but made the following editorial changes.

--- Deleted international standard "Preface" and "Introduction";

--- The "ISO 8662 part of this" be replaced by "this section";

--- With a decimal point "." Instead of a comma as the decimal point "." Appendix A of this section is an informative annex.

This part is proposed by China Machinery Industry Federation.

This part of the drilling machines and pneumatic tools by the National Standardization Technical Committee (SAC/TC173) centralized.

This section is drafted. Tianshui pneumatic drilling machines Tool Institute.

1 Scope

This section GB/T 8910 specifies the test methods for hand-held motorized grinder handle vibration measurements to determine the test tool installation the next round of state has designated the test operation, the vibrations at the handle type testing program size.

This section applies to pneumatically or otherwise driven grinder. A typical grinding machine illustrated in Figure 1.

This section does not apply to the die grinder.

The results of its comparison with measured for different types of grinders between one type, that is using the same grinder wheel (diameter phase Compared with the same maximum line speed) when. If you want to evaluate the vibration exposure is required to be tested under working conditions.

2 Normative references

The following documents contain provisions which, through reference to GB/T 8910 to the present, constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 8910.1-2004 held portable power tools - Measurement of vibrations at the handle - Part 1. General (ISO 8662-1.

1988, IDT)

GB 17957-2005 drilling machines and pneumatic tools - Safety requirements the quantity measured Here is the measurement of.

--- GB/T specified in 3.1 rms 8910.1-2004 (r.m.s) acceleration and GB/T 8910.1-2004 prescribed in 3.3 the weighted acceleration;

--- Rotation speed;

--- Downward thrust.

4.1 General

Instrumentation shall comply with the technical requirements specified in 8910.1-2004 GB/T 4.1 ~ 4.6 in.

4.2 Sensor

Shall comply with the technical requirements of the sensor GB/T 8910.1-2004 4.1 requirements.

4.3 Mechanical filter

When measured in accordance with this section, the general need for a mechanical filter (see GB/T 8910.1-2004 in 3.2).

Mounting 4.4 Sensor

4.4.1 fixed sensors shall comply with GB/T 8910.1-2004 in 4.2. Small sensor available suitable adhesive to stick Handle the plane. Under normal circumstances, the sensor should be fixed according to the sensor manufacturer's instructions (see Figure 2).

4.4.2 If the handle has a soft elastic sleeve, applying a ferrule to firmly clamp and a sensor mounted on the ferrule, or you can use a GB/T 8910.4-2008/ISO 8662-4:1994