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GB/T 22665.1-2008

Measurement of vibrations at the handle of hand-held electric tools -- Part 1: Drills and impact drills

手持式电动工具手柄的振动测量方法 第1部分：电钻和冲击钻

(English Translation)

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Foreword

This section GB/T 22665 "Measurement of vibrations at the handle of hand-held electric tools" series of standards in Part 1. The standard series Prospective structure and names are as follows.

GB/T 22665.1 handheld power tool handle vibration measurement - Part 1. drills and impact drills Vibration measurement methods GB/T 22665.2 handheld power tool handle - Part 2. screwdrivers and impact wrenches GB/T 22665.3 handheld power tool handle vibration measurement - Part 3. Grinders, polishers and disc sanders Vibration measurement methods GB/T 22665.4 handheld power tool handle - Part 4. Non-disc sanders and polishers GB/T 22665.5 Vibration Measurement Methods handheld power tool handle 5. Circular Saw GB/T 22665.6 Measuring methods for vibration - Part 6 hand-held power tool handle. Hammer Tools GB/T 22665.8 Vibration Measurement Methods handheld power tool handle 8. electric shears and GB/T 22665.9 handheld power tool handle vibration measurement - Part 9. Tapping machine GB/T 22665.11 handheld power tool vibration measurement methods handle - Part 11. Reciprocating saws (jig saws, saber saws) GB/T 22665.13 vibration measuring methods - Part handheld power tool handle 13. Chain Saw GB/T 22665.14 vibration measuring methods - Part handheld power tool handle 14. Planer GB/T 22665.15 Measuring methods for vibration - Part 15 hand-held power tool handle. pruning shears GB/T 22665.17 handheld power tool handle vibration measurement - Part 17. routers and trimmers GB/T 22665.18 vibration measuring methods - Part handheld power tool handle 18. Binder GB/T 22665.20 handheld power tool handle vibration measurement - Part 20. bandsaw GB/T 22665.21 handheld power tool handle vibration measurement methods Part 21. drain cleaners the section on technical content and EN60745-1:2006 "hand-held electric tools - Safety - Part 1. General requirements" and EN60745-2-1:2003 + A11.2007 "hand-held electric tools - Safety - Part 2-1. drills and impact drills special requirements" Coordinated approach on vibration measurements.

This part of the Annex A, Annex B normative appendix.

This part is proposed by the China Electrical Equipment Industrial Association.

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This part of the National Power Tools Standardization Technical Committee.

This section is drafted. Shanghai Electric Tool Research Institute.

1 Scope

This section GB/T 22665 specifies the general method of hand-held drills and impact drills in three orthogonal axes measuring hand-transmitted vibration the center frequency of octave band measurements of 8Hz ~ 1000Hz.

This section applies to the frequency weighted vibration acceleration by hand-transmitted vibration evaluation method not specified vibration limits.

In human exposure to hand-transmitted vibration workplace conditions assessments may be ISO 5349-1 and ISO 5349-2.

2 Normative references

The following documents contain provisions which, through reference GB/T 22665 in this section 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 15619-2005 Mechanical vibration and shock human exposure vocabulary GB/T 2900.28-2007 Electrotechnical terminology - Power Tools GB/T 2298-1991 Mechanical vibration and shock term (neq ISO 2041:1990) GB/T 3241 octave and fractional octave filters ISO 5349-1 Mechanical vibration of human exposure to hand-transmitted vibration measurement and evaluation - Part 1. General requirements ISO 5349-2 Mechanical vibration of human exposure to hand-transmitted vibration measurement and evaluation - Part 2. Application to the measurement of the workplace guide ISO 8041:2005 Human response to vibration measuring instruments

3 Terms and definitions, symbols

GB/T 15619, GB/T 2900.28, terms and definitions GB/T 2298 provisions, the following terms and definitions apply to this section.

Usually applied directly or mechanical vibration transmitted to the human arm system (impact) by holding the tool or workpiece palm or fingers.

An acceleration weighted according to the laws of human physiological effects of different frequencies of vibration and feel the response generated.

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3.3 Symbol

This section uses the following symbols.

Rao hw frequency-weighted hand-transmitted vibration rms axis acceleration, m/s2 Rao hw x, y hw Rao, Rao hw z at a predetermined X, Y and Z directions Rao hw value, m/s2 Rao hv frequency weighted rms acceleration vibration total value, m/s2; it is a three-axis measurement Rms vibration value of the sum of squares Rao hw Rao h all operators of the arithmetic mean of the measurement results, the total vibration value, m/s2, ie test

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