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

GB/T 32800.8-2023

**Hand-held non-electric power tools - Safety requirements - Part
8: Sanders and polishers**

手持式非电类动力工具 安全要求 第8部分：磨光机和抛光机

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

This document is Part 8 of GB/T 32800 "Safety Requirements for Handheld Non-Electric Power Tools": GB/T 32800 has been released the following sections:

- Part 1: Power tools for assembly of non-threaded structural fasteners;
- Part 2: Cutting off and withholding power tools;
- Part 3: Drilling and tapping machines;
- Part 4: Pure impact power tools;
- Part 5: Rotary impact drilling tools;
- Part 6: Power tools for assembly of threaded fasteners;
- Part 8: Grinding and polishing machines;
- Part 9: Grinding machines for molds;

--Part 10: Extrusion power tools;

--Part 11: Punching machines and scissors:

This document is equivalent to ISO 11148-8:2011 "Safety requirements for hand-held non-electric power tools - Part 8: Grinders and polishers" Opto-mechanics":

Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

Introduction

In order to standardize the safety requirements for hand-held non-electric power tools to protect the personal health of operators and the safety of equipment and the environment, international standards the international organization has released ISO 11148, a total of 13 parts of documents: Our country plans to adopt the 13 partial documents of ISO 11148 on an equal basis and formulate them as Corresponding documents of each part of GB/T 32800: GB/T 32800 is proposed to be composed as follows:

--Part 1: Power tools for assembly of non-threaded structural fasteners: Covers riveting machines, riveting or plug tools, break rod locking bolters Tools, mandrel riveting tools, rivet nut holders:

--Part 2: Cutting off and Withholding Power Tools: Covers non-yoke crimpers, cutters, cutting tools, cutting pliers, and crimping pliers:

--Part 3: Drilling and Tapping Machines: Covers drills, double-handle heavy-duty drills, and tapping machines:

--Part 4: Pure impact power tools: Covers crushers, chisels, shovels, engraving pens, rust removal hammers, picks, portable pile drivers, Printing machine, tamping machine, stone hammer, shovel, tamping machine:

--Part 5: Rotary impact drilling tools: Covers small blasthole drills, rock drills, and rotary hammers:

--Part 6: Power tools for assembly of threaded fasteners: Covers hydraulic pulse gas triggers, impact wrenches, fastener installation tools, Nut wrenches, open end wrenches, ratchet wrenches, screwdrivers:

--Part 7: Grinder: Covers grinding grinders, cutting grinders, polishers and grinders using bowl and leaf wheels:

--Part 8: Grinders and polishers: Covers belt polishers, skateboard polishers, polishing machines, compound polishers, and rotary polishers machine, linear polishing machine:

--Part 9: Grinding machines for molds: Covers grinders for angle molds, reciprocating files, rotary files, and sand for linear molds Turbine:

--Part 10: Extrusion power tools: Covers crimping tools, ring parts separators, metal forming tools, nut splitters, Extruders, printers, extrusion riveters, cutting tools with parallel blades, jaw extrusion pliers:

--Part 11: Punching machines and scissors: Covers punching and shearing machines and scissors:

--Part 12: Disc, pendulum and reciprocating saws: Covers circular saws, circular cutters, saw blades with a radius of less than 50 mm or Oscillating saws, oscillating cutters, and reciprocating saws including fine saws and hack saws with diamond cutting blades with a radius of less than 100 mm:

--Part 13: Fastener driving tools:

Safety requirements for handheld non-electric power tools Part 8: Grinders and polishers

1 Scope

This document stipulates the requirements for sand-covered items, various soft material products and seamless transmission in motion modes such as rotation, orbit and reciprocation:

Safety requirements for hand-held non-electric power tools with moving belts for polishing and polishing (hereinafter referred to as "sanders and polishers"): Grinders and Polishers the light machine can be driven by compressed air, hydraulic oil or internal combustion engine, with or without the use of suspension devices (such as balancing devices), for one person the operator can use it with one or two hands:

NOTE 1: At the time of publication of this document, the existence of grinding and polishing machines powered by internal combustion engines was not known to exist: Once this type of machine is confirmed, this document will be Revised to incorporate it:

This document applies to the following products:

--Belt grinder;

--Skateboard polisher;

--polisher;

--Compound polishing machine;

--Rotary polishing machine;

--Linear polishing machine:

Note 2: See Appendix B for examples of grinders and polishers:

This document does not apply to special requirements and modifications of grinders and polishers for mounting them on clamping devices:

This document covers use of grinders and polishers other than those used in potentially explosive atmospheres, their intended use and misuse reasonably foreseeable by the manufacturer:

All noteworthy hazards, dangerous situations or hazardous events when using the tool under the conditions in which it was used:

Note 3: EN 13463-1 gives requirements for the use of non-electrical equipment in potentially explosive atmospheres:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations for undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

document:

GB/T 15706-2012 General principles for mechanical safety design risk assessment and risk reduction (ISO 12100::2010, IDT) ISO 3857-3 Glossary of compressors, pneumatic tools and machinery Part 3: Compressors, pneumatic tools and machines-Vocabulary-Part 3: Pneumatic tools and machines) Note: GB/T 6247.4-2013 Rock drilling machinery and portable power tools terminology Part 4: Performance test (ISO 3857-3:1989, MOD) ISO 5391 Pneumatic tools and machines-Vocabulary Note: GB/T 6247.1-2013 Rock drilling machinery and portable power tools terminology Part 1: Rock drilling machinery, pneumatic tools and pneumatic machinery (ISO 5391:2003, MOD) ISO 13732-1 Ergonomics of thermal environments Methods for the evaluation of human reactions to contact surfaces Part 1: Thermal surfaces (Ergo-nomics of the thermal environment-Methods for the assessment of human responses to contact with surfac-es-Part 1: Hot surfaces) ISO 13732-3 Ergonomics of thermal environments Methods for the evaluation of human reactions to contact surfaces Part 3: Cold surfaces (Ergo-