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

GB/T 32800.1-2023

**Hand-held non-electric power tools - Safety requirements - Part
1: Assembly power tools for non-threaded mechanical
fasteners**

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foreword

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

This document is part 1 of GB/T 32800 "Safety Requirements for Handheld Non-electric Power Tools". GB/T 32800 has been released

the following sections.

- Part 1.Assembly power tools for non-threaded structural fasteners;
- Part 2.Cutting off and crimping power tools;
- Part 3.Drilling and tapping machines;
- Part 4.Pure impact power tools;
- Part 10.Squeeze power tools;
- Part 11.Punching and shearing machines and scissors.

This document is equivalent to ISO 11148-1.2011 "Safety requirements for hand-held non-electric power tools - Part 1.Non-threaded tightness

Assembly Power Tools for Firmware".

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

In order to standardize the safety requirements of hand-held non-electric power tools, in order to protect the health of operators and the safety of equipment and the environment, the international standard

The International Organization has released ISO 11148, a total of 13 documents. Our country intends to adopt 13 partial documents of ISO 11148, which are formulated as

The corresponding parts of GB/T 32800 documents. GB/T 32800 is proposed to be constituted as follows.

--- Part 1.Assembly power tools for non-threaded structural fasteners. Covers riveting machines, riveting or plugging tools, broken bar lock bolts

Tools, mandrel riveting tools, rivet nut holders.

--- Part 2.Cutting off and crimping power tools. Covers non-yoke crimpers, cutters, cut-off tools, cutting pliers, crimping pliers.

--- Part 3.Drilling and tapping machines. Covers drills, double handle heavy drills, tapping machines.

--- Part 4.Pure impact power tools. Covers breakers, chisels, shovels, engraving pens, descaling hammers, picks, portable pile drivers, driver

Presses, compactors, stone hammers, shovels, tamping machines.

--- Part 5.Rotary impact drilling tools. Covering small blasthole drills, rock drills, and rotary hammers.

--- Part 6.Assembly power tools for threaded fasteners. Covers hydraulic pulse gas triggers, impact wrenches, fastener installation tools,

Nutrunner, open end wrench, ratchet wrench, screwdriver.

--- Part 7.Grinders. Covers grinding grinders, cut-off grinders, polishers and buffers using pot and leaf wheels.

--- Part 8.Grinders and polishers. Covers belt grinders, slide grinders, polishers, duplex grinders, linear grinders

light machine.

--- Part 9.Grinders for molds. Covering Angle Die Grinders, Reciprocating Files, Rotary Files, Linear Die Grinders

turbine.

--- Part 10.Squeeze power tools. Covers crimping tools, ring part separators, tools for metal forming, nut splitters,

Extruders, printers, extrusion riveters, cutting tools with parallel blades, jaw extrusion pliers.

--- Part 11.Punching and shearing machines and scissors. Covers punching and shearing machines, scissors.

--- Part 12.Disc, pendulum and reciprocating saws. Covers circular saws, circular knives, saw blades with a radius of less than 50 mm or

Oscillating saws with diamond cutting blades up to a radius of 100mm, pendulum knives, reciprocating saws including fine saws and bow saws.

--- Part 13.Fastener driving tools.

Safety requirements for hand-held non-electric power tools

Part 1. Assemblies for non-threaded structural fasteners

power tool

1 Scope

This document applies to blind rivets, solid rivets, bolts, plugs, and other metal, plastic, and other materials that enter from one side of the workpiece.

Hand-held non-electric power tools for installing, fastening or removing fasteners (hereinafter referred to as "assembly power tools for non-threaded structural fasteners tool"). Power tools for assembling non-threaded structural fasteners can be driven by compressed air, hydraulic oil or an internal combustion engine, with or without suspension (e.g. balancing devices) for use by one operator supported by one or both hands.

Note 1. At the time of publication of this document, it has not been known that there are assembly power tools for non-threaded structural fasteners driven by internal combustion engines. Once such dynamics are identified

tool, this document will be revised to incorporate it.

This document applies to the following products.

---Riveting machines, riveting or plugging tools;

---Broken rod locking bolt tool;

--- Mandrel riveting tool;

--- Rivet nut holder.

Note 2. See Appendix B for examples of assembly power tools for non-threaded structural fasteners.

This document does not apply to special requirements and requirements for the installation of non-threaded structural fasteners with assembly power tools on holding devices.

retrofit.

This document deals with the use of power tools for the assembly of non-threaded structural fasteners in potentially explosive atmospheres, in the intended use and manufacture

All noteworthy hazards, hazardous conditions or hazardous events when using the tool under misuse conditions that are reasonably foreseeable by the manufacturer.

Note 3.EN13463-1 gives the requirements for the use of non-electrical equipment in potentially explosive atmospheres.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

GB/T 15706-2012 Risk Assessment and Risk Reduction of Machinery Safety Design General Principles (ISO 12100.2010, IDT)

ISO 3857-3 Vocabulary for compressors, air tools and machinery Part 3.Pneumatic tools and machinery (Compressors,

Note. GB/T 6247.4-2013 Terminology for rock drilling machinery and portable power tools Part 4.Performance test (ISO 3857-3.1989, MOD)

Note. GB/T 6247.1-2013 Terminology for rock drilling machinery and portable power tools 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 the human body's response to touching surfaces - Part 1.Hot surfaces (Ergo-surfaces-Part 1.Hotsurfaces)

ISO 13732-3 Ergonomics of thermal environments - Methods for the evaluation of the human body's response to contact with surfaces - Part 3.Cold surfaces (Ergo-