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

GB/T 32800.2-2023

**Hand-held non-electric power tools - Safety requirements - Part
2: Cutting-off and crimping power tools**

手持式非电类动力工具 安全要求 第2部分：切断和扣压动力工具

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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 2 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 11148-2:2011 "Safety requirements for hand-held non-electric power tools - Part 2: Cutting and crimping Force Tools": Please note that some contents of this document may refer to patents: The issuing agency of this document assumes no responsibility for identifying patents: This document is proposed by China Machinery Industry Federation: This document is under the jurisdiction of the National Standardization Technical Committee for Rock Drilling Machinery and Pneumatic Tools (SAC/TC173): This document is drafted by: Tianshui Rock Drilling Machinery Pneumatic Tool Research Institute, Shaoyang University, Zhejiang Kaishan Heavy Industry Co., Ltd: The main drafters of this document: Wang Jianzu, Gan Li, Xu Xuefeng:

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:

1 Scope

GB/T 32800.2-2023 is Part 2 of the Chinese safety series for hand-held non-electric power tools and covers cutting-off and crimping tools. These are pneumatic and hydraulic tools that develop very large forces in a small hand-held body: a crimping head closes with tonnes of force on a fitting an operator is holding, and a cut-off tool spins an abrasive wheel that can burst. Being non-electric does not make them benign - the pressurised supply is itself a hazard, and the tools are noisy and highly vibrating, so hand-arm vibration is a principal risk. The standard sets the safety requirements and protective measures for the general case, machinery safety, thermal safety, noise reduction, vibration, the materials and substances, ergonomics and the control devices, then the inspection: the general test conditions and the tests for noise, vibration and unexpected start, followed by the information for use. It took effect on 1 October 2023.

This document applies to crimping hand-held non-electrical Class power tools (hereinafter referred to as "cutting and crimping power tools"): Cutting and crimping power tools can be powered by compressed air, hydraulic oil or an internal combustion engine Driven, with or without suspension (such as a balance device) for an operator to use with one or two hands:

Note 1: At the time of publication of this document, it has not been known that there are cut-off and crimping power tools driven by internal combustion engines exist: Once the existence of such power tools is confirmed, the paper will The document was revised to include it: This document applies to the following products:

--- Non-yoke crimping device;

--- cutting tool;

---Cutting pliers;

---Withholding pliers:

Note 2: See Appendix B for examples of cutting and crimping power tools: This document does not apply to special requirements and modifications for the installation of cutting and crimping power tools on fixtures, nor does it apply to Double acting hydraulic rescue tool for firefighting and rescue purposes: This document deals with cut-off and crimping power tools other than those used in potentially explosive atmospheres that are reasonably foreseeable in intended use and at the manufacturer All noteworthy hazards, hazardous conditions or hazardous events when using cutting and crimping power tools under misuse conditions:

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 General Principles of Machinery Safety Design Risk Assessment and Risk Reduction (ISO 12100:2010, IDT) ISO 3857-

3 Vocabulary for compressors, air tools and machinery Part 3: Pneumatic tools and machinery (Compressors,

GB/T 6247:4-2013 Terminology for rock drilling machinery and portable power tools Part 4: Performance test (ISO 3857-3:1989, MOD)

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-