

ICS 25.140.10
CCS J48



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

GB/T 32800.11-2023

**Hand-held non-electric power tools - Safety requirements - Part
11: Nibblers and shears**

手持式非电类动力工具 安全要求 第11部分：冲剪机和剪刀

Issued on: March 17, 2023

Implemented on: October 1, 2023

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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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 11 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 11148-11:2011 "Safety requirements for hand-held non-electric power tools - Part 11: Punching and shearing machines and Scissors": 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: Zhejiang Rongpeng Pneumatic Tools Co., Ltd., Zhongjie Jieding Industrial Co., Ltd., Tianshui Rock Drilling Machinery Pneumatic Engineer tool research institute: The main drafters of this document: Li Xiaorong, Su Guangxi, Li Weijie, Li Xiaopeng, Su Zheyi, Yang Fazheng:

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 32800.11-2023 is Part 11 of the Chinese safety series for hand-held non-electric power tools and covers nibblers and shears. These are pneumatic tools that cut sheet metal by punching or shearing it, and their hazards are specific: the cutting head is close to the hand steadying the workpiece, the offcut leaves as a stream of hot sharp slugs, and the sheet itself has an edge that will cut the operator whatever the tool does. They also vibrate and are loud enough to matter over a working day. The standard sets the safety requirements and protective measures for the general case, machinery safety, thermal safety, noise reduction, vibration, materials and substances, ergonomics and the control devices, then the inspection, with 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 hand-held non-electric power tools for punching and shearing through reciprocating motion (hereinafter referred to as "punching and shearing machines and shears") knife"): Punches and shears can be driven by compressed air, hydraulic oil or an internal combustion engine, with or without suspension (e.g: balancing devices) It can be used by one operator with support of one or two hands:

Note 1: At the time of publication of this document, it was not known that there were punching and shearing machines and scissors driven by internal combustion engines: Once the existence of such power tools is confirmed, this document will be reviewed Amended to

incorporate it: This document applies to the following products:

--- punching and shearing machine;

Note 2: See Appendix B for examples of punching and shearing machines and scissors: This document does not apply to special requirements and modifications for punching and shearing machines and scissors installed on the holding device: This document covers, in addition to the use of punching and shearing machines and scissors in potentially explosive atmospheres, reasonably foreseeable misuse in the intended use and in the factory All noteworthy hazards, hazardous conditions or hazardous occurrences when using the tool under the specified 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 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,

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- surfaces-Part 3: Cold surfaces)

ISO 13851 Functional status and design principles of two-hand control devices for mechanical safety (Safety of machinery-Two-hand

GB/T 19671-2005 Functional conditions and design principles of two-hand controls for mechanical safety (ISO 13851:2002, MOD)

ISO 15744 Hand-held non-electric power tool noise measurement method engineering method (level 2) [Hand-heldnon-electric

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