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

GB/T 44201-2024

Ultra-thin glass cutting machine

超薄玻璃切割机

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Table of Contents

- 1 Scope
- 2 Normative references
- 3 Acceptance conditions and acceptance inspection
- 12 Painting

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 is required. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document was proposed by China Building Materials Federation. This document is under the jurisdiction of the National Technical Committee for Standardization of Building Materials and Equipment (SAC/TC 465). This document was drafted by: Anhui Zhicheng CNC Technology Co., Ltd., Bengbu Chaoyang Glass Machinery Co., Ltd., China Building Materials Machinery Industry Association Association, Tianjin Sinoma Engineering Research Center Co., Ltd. The main drafters of this document are. Zhang Jiazhu, Ren Mingjin, Wang Yumin, Zhang Li, Su Dongpo, Wang Liuzhu, Zhang Qirui, Huang Kuncheng, Wang Yanbing, Yu Shaoye, and Cai Zhongjie. Ultra-thin glass cutting machine

1 Scope

GB/T 44201-2024 is the Chinese standard for ultra-thin glass cutting machines. Ultra-thin glass, the sub-millimetre substrate used for display panels, touch sensors and cover glass, is cut in enormous volumes in China, and the cutting is the step where yield is won or lost: the score must be placed within microns, the edge produced determines the strength of the finished part, and the sheet is flexible enough that handling itself can break it. The standard sets the types and basic parameters, then the technical requirements: the positioning and repeatability accuracy of the axes, the cutting quality in terms of score depth, edge chipping and break accuracy, the requirements on the cutting head, the table and the sheet support and handling, the control system, the electrical and pneumatic systems, the cleanliness, the safety and the reliability. It then gives the test methods for each, the inspection rules and the marking, packaging, transport and storage. It takes effect on 1 February 2025.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies. in this document.

GB/T 191 Pictorial markings for packaging, storage and transportation

GB/T 699-2015 High-quality carbon structural steel

GB/T 700-2006 Carbon structural steel

GB/T 1184-1996 Shape and position tolerances without tolerance values

GB/T 1804-2000 General tolerances Tolerances of linear and angular dimensions without tolerance indication

GB 2894 Safety signs and their use guidelines

GB/T 5226.1 Electrical safety of machinery Electrical equipment of machinery Part

GB/T 6576 Machine tool lubrication system

GB/T 7251 (all parts) Low voltage switchgear and controlgear

GB/T 7344 General technical requirements for AC servo motors

GB/T 7932 General rules and safety requirements for pneumatic systems and their components

GB/T 8196 Mechanical safety guards - General requirements for the design and manufacture of fixed and movable guards

GB/T 9969 General principles for instructions for use of industrial products GB/T 13306 Labels

GB/T 13384 General technical requirements for packaging of electromechanical products

GB/T 16754 Design principles for mechanical safety emergency stop function

GB/T 17248.3 Acoustics Noise emitted by machines and equipment measured at working position and other specified positions using approximate environmental correction The emission sound pressure level

GB/T 17421.2 General rules for machine tool inspection Part

3 Acceptance conditions and acceptance inspection

GB/T 18684-2002 Technical requirements for zinc-chromium coating

GB/T 18831 Design and selection principles for interlocking devices related to mechanical

safety and protective devices

GB/T 19804-2005 General dimensional tolerances and geometric tolerances of welded structures

GB/T 20428-2006 Rock slab

GB/T 37400.12 General technical requirements for heavy machinery Part

12 Painting

JB/T 13813.5 Reliability and life of rolling functional components Part

5. Test specification for accuracy retention of rolling linear guide pairs JC/T 402-2006
Technical requirements for anti-rust coating of cement machinery