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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/Z 41595-2022

Safety requirements for woodworking tools - Requirements for the shank of shank mounted milling tools

木工刀具安全 柄铣刀柄部的要求

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Table of Contents

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 of Standardization Documents" drafted. Please note that some content of this document may be patented. 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 of Woodworking Machine Tools and Cutting Tools (SAC/TC84). This document is drafted by: Fuzhou Woodworking Machine Tool Research Institute, Fujian Agriculture and Forestry University, Shunde Vocational and Technical College, Jinfengli Cutting Tools (Shenzhen) Co., Ltd. Company, Guangdong Institute of Product Quality Supervision and Inspection, Nanxing Equipment Co., Ltd. The main drafters of this document. Xiao Xiaohui, Zeng Qinzhi, Wang Rongfa, Li Dejun, Cheng Mianlong, Lin Wangnan. Requirements for the shank of woodworking tool safety shank milling cutters

1 Scope

GB/Z 41595-2022 is the Chinese national standard on safety requirements for woodworking tools - requirements for the shank of shank mounted milling tools, in the field of wood technology. The /Z suffix marks it as a guiding technical document: it does not prescribe requirements that can be certified against, but sets out the technique, the method or the state of the art that the standards bodies recommend following. It was issued on 12 October 2022 by the State Administration for Market Regulation; Standardization Administration of China. As a guiding technical document it carries no separate date of entry into force: it applies from publication. Classification: ICS 79.120.10, CCS J65. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the method for determining the maximum speed of the shank milling cutter when the eccentric distance is given on the clamping device, and gives the content of the tool marking. This document applies to cylindrical shank cutters, tapered shank cutters, mandrel-mounted hole cutters or circular saw blades.

2 Normative references

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

GB/T 1800.2-2020 Product Geometric Specifications (GPS) Linear Dimensional Tolerance ISO Code System Part

3 Terms and Definitions

The terms and definitions defined in GB/T 18955-2003 and the following apply to this document. 3.1 7/

24 Shank 7/24shank;SK Shank with 7/24 taper ratio.

3.2 Hollow taper shank holowtapershank;HSK The taper is 1/10, and it is in contact with the two sides of the spindle, and has a hollow short tapered shank with high positioning accuracy and high rigidity.

3.3 mandrel arbor A tool holder mounted on the machine tool spindle for combining and driving hole-shaped cutting tools.

4 Hazard List

See Table 1 for a list of hazards. Table

1 Hazard List Hazard Causes or conditions of hazards associated with the tool Corresponding clauses in this document Mechanically dangerous tool breakage due to insufficient mechanical strength Chapter