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

GB 31146-2014

**Safety of woodworking machines-Double end tenoning and/or
profiling machines fed by chain or chains**

木工机床安全 链式双头开榫机

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Foreword

The standard Chapter 3, Annex A, Annex B is recommended, the rest are mandatory. This standard was drafted in accordance with GB/T 1.1-2009 given rules. The standard proposed by China Machinery Industry Federation. This standard by the National Woodworking Machine and Tool Standardization Technical Committee (SAC/TC84) centralized. This standard drafting unit. Woodworking Machine Tool Research Institute, Fuzhou, Guangdong Rui Asia Machinery Co., Ltd. Shaowu Zhenda Machinery Manufacturing limited liability Any company, Linhai City, Chau Machinery Co., Ltd. Jinhua City-Acer furniture Ltd., Dongguan City, south-furniture Equipment Manufacturing Co. Shares The company, Weihai Wang Yi Machinery Co., Ltd. Weihai Woodworking Machinery

complete. Drafters of this standard. Zheng Li, Zhou Hua standard, Yang Hua, Fan Qingping, Chen Yun root, Dongyan Wen, Yin Yanfeng, Liu new to this. Safety of woodworking machines chain headed tenoners

1 Scope

GB 31146-2014 is the Chinese national standard on safety of woodworking machines-double end tenoning and/or profiling machines fed by chain or chains, in the field of wood technology. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 3 September 2014 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 October 2015. 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 standard specifies the chain headed mortising machine (hereinafter referred to as the machine) for Hazardous and limit risk and/or removal of the measures. This standard applies to cutting wood, particleboard, fiberboard, plywood and plastic, aluminum and other veneer or paste tool edge material. Workpiece Mechanical feed. This standard does not apply in the following machine.

- a) fully enclosed machine (see 3.3.10);
- b) the mobile machine (see 3.3.11). This standard does not apply to the following dangerous situations caused by.
 - a) feeding the mechanical portion of the workpiece;
 - b) in combination with or as part of a production line with other machines;
 - c) the use of cutting tools (see 3.1) between the machine halves;
 - d) using a laser.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document. Determination of sound power levels of noise sources reflecting plane free field engineering method

GB/T 3767-1996 Acoustics sound pressure

GB/T 3768-1996 Determination of sound pressure of sound power levels of noise sources using an enveloping surface reflectance measuring surface Simple Method

GB 4208-2008 shell protection (IP code)

GB/T 5013.1-2008 rated voltage of 450/750V and below rubber insulated cables - Part 1. General requirements

GB/T 5023.1-2008 rated voltage of 450/750V and below PVC insulated cables - Part 1. General requirements

GB 5226.1-2008 Safety of machinery - Electrical machinery and electrical equipment - Part 1. General requirements GB /Determination of sound power levels of noise sources in reverberant fields - small, movable sources Engineering Act T 6881.2-2002 sound pressure Part 1. Comparison method hard walled test rooms GB /Determination of sound power levels of noise sources in reverberant fields - small, movable sources Engineering Act T 6881.3-2002 sound pressure Part 2. special reverberation test rooms Determination of sound power levels of noise sources anechoic and semi-anechoic chamber Precision method

GB/T 6882-2008 Acoustics sound pressure

GB 12557-2010 Safety of woodworking machines General

GB 14048.4-2010 Low-voltage switchgear and control equipment - Part 4-1. Contactors and motor starters electromechanical contact Contactors and motor starters (with motor protection)

GB 14048.5-2008 Low-voltage switchgear and control equipment Part 5-1. Control circuit devices and switching elements - Electromechanical Control circuit devices Declaration and verification of

GB/T 14574-2000 Acoustics machinery and equipment noise emission values

GB/T 15706-2012 Safety of machinery - General principles for design risk assessment and risk reduced

GB 16754-2008 Safety of machinery - Emergency stop design principles

3 Terms and Definitions

GB/T 15706-2012 defined in Chapter 3 and the following terms and definitions apply to this document.

3.1 Terms The term of each part shown in Figure 1. Explanation. 1

--- Machine halves; 2

--- upper platen; 3

--- chain frame; 4

--- infeed drive shaft. The term of each part of the machine 1

3.2 Definitions

3.2.1 Chain headed tenoners doubleendand/orprofilingmachinefedbychainorchains The machine is mainly designed for the use of a step at both ends of the workpiece opening tenon and/or shaping. Tenon or molding surface with a mounted machine A cutter bed each half or more of the spindle, saw and/or wheel processing. Workpiece placed and installed in a continuous chain or the like Transport pad or a pin on the device.

3.2.2 Machine halves machinehalf Part of the machine, from the rack, the chain axis, the upper platen and processing units. Each half of machining a workpiece end machine. One Or two machine halves can be moved to fit different sizes of workpieces.

3.2.3 Forming profile By the cutter, saw and shape of the end/or grinding wheel workpiece. Forming also includes fixed-length processing sheet metal.

3.2.5 Kickback ejection [GB 12557-2010, the definition 3.12]

3.2.6 Mechanical actuator mechanism machineactuator [GB 5226.1-2008, the definition 3.34]

3.2.8 Coasting time unbrakedrun-downtime [GB 12557-2010, the definition 3.15]

3.2.9 Integral closure integralenclosure Machine guards designed to be fused, and a method to reduce the noise of the machine, certain adjustment means in a closed in vitro unit. Each machine has its own half of the guards, on an adjustable half machine guards, according to the workpiece width adjustment.

3.2.10 Closed completeenclosure Fully enclosed machine tools, mainly used to reduce noise, allowing the operator to move freely inside, all machine settings and adjustments Full It included.

3.2.11 Mobile Machine displaceablemachine The machine is placed on the ground, using a fixed, it is equipped with a mobile device to make the machine between place, the device is usually wheel.

4 Dangerous List

Dangerous List (see Table 1) relates to all dangerous this machine.

--- For important risk, safety requirements and/or measures adopted by the law or by indicating the appropriate class B standard;

--- For hazardous unimportant, such as general, subordinate or secondary danger by