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

GB 31145-2014

**Safety of woodworking machines - Circular saw
benches/up-cutting cross-cut sawing machines**

木工机床安全 带上切式横截手动进给圆锯机

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Foreword

The standard Chapter 3, Appendix A 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. The standard by the Fuzhou Woodworking Machine Tool Research Institute, Asian workers (Weihai) Co., Ltd. Shaowu Zhenda Machinery Manufacturing Co., Ltd., Jiangsu Jiangjia Machinery Co., Changting County of Fujian Province Quality and Technical Supervision, Guangdong Rui Asia Machinery Co., Ltd., Weihai Wang Yi Machinery Co., Jiangsu tide Technology Co., Ltd., Weihai City Product Quality Supervision and Inspection is responsible for drafting. Drafters of this standard. Xiao Xiaohui, Song Zhimin, Yang Hua, Wang Dong, Chung Chang-xin, Zhou Hua standard, Yin Yanfeng, Yang Gaohuai, Liwen Xiao. Safety of woodworking machines Bring-cut cross-section of the manual feed circular

saws

1 Scope

GB 31145-2014 is the Chinese national standard on safety of woodworking machines - circular saw benches/up-cutting cross-cut sawing machines, 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 belt-cut cross-section of the manual feed circular saws (hereinafter referred to as the machine) on removal of dangerous and risk-limiting requirements and/or Measures. This standard applies to cutting wood, particleboard, fiberboard, plywood and veneer or plastic material welt machine. This standard does not apply to hand-held tools and desktop machines.

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 7247.1-2012 Safety of laser products - Part 1. Equipment classification, requirements

GB 12557-2010 Safety of woodworking machines General

GB 13960.1-2008 Safety of transportable electric tools - Part 1. General requirements

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

GB/T 14303-2008 Woodworking machine saw blade circular saws term sheets and precision Declaration and verification of

3 Terms and Definitions

GB 5226.1 and GB 12557 and defined by the following terms and definitions apply to this document.

3.1 Terms Some of the terms of each machine is shown in Figure 1. Explanation. 1

--- table below the suction port; 2

--- controller; 3

--- table lower part of the fixed guards; 5

--- table; Rotating portion 6

--- riving knife; 8

--- blade guard;

--- Suction port 10 on the blade guard; . 11

--- supporting the blade guard; 12

--- movable roller table locking device; 13

--- guide plate; 14

--- table movable supporting roller; 15

--- movable roller table; 16

3.2.2 Feed table infeedtable Machine Tool Feed when another table for. Vertical

a) table sectional support guide plate for the auxiliary feeding machine longitudinal sectional time; Mobile

b) cross-section for the saw unit at a fixed position of the table; C) When used as an upper-cut cross-section, the work of auxiliary support.

3.2.3 The operator's position operatorposition When the machine for transverse or longitudinal section mode, the operator uses the region, according to the region shown in Figure 5. Explanation. 1

--- discharge table; 2

--- feed table; 3

--- workpiece; 4

--- for longitudinal and cross-sectional area transverse mode operation. Figure 5 the operator's position

3.2.4 Movable machine displaceablemachine The machine is placed on the ground, the use of stationary, it is equipped with a mobile device to make the machine between place, the device is usually wheel.

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

3.2.6 Manual feed handfeed [GB 12557-2010, the definition 3.3].

3.2.7 Detachable motorized feed device demountablepowerfeedunit [GB 12557-2010, the definition 3.4].

3.2.8 Projectile ejection [GB 12557-2010, the definition 3.11].

3.2.9 Kickback kickback [GB 12557-2010, the definition 3.12].

3.2.10 Non-return device anti-kickbackdevice [GB 12557-2010, the definition 3.13].

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 indicating the appropriate Class A standards, especially GB/T 15706-2012. These risks are