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

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Remanufacturing of used copiers and printers

废旧复印机、打印机和速印机再制造通用规范

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard by the National Electrical and Electronic Products and Systems Environmental Standardization Technical Committee (SAC/TC297) and focal point. The main drafting units of this standard. Chinese cultural office equipment manufacturing industry associations, Beihai Chen Air Electronics Technology Co., Ltd., China Quality Recognition Card center, the State Printing Office Automation Consumption Materials Supervision and Inspection Center, China Household Electrical Appliances Research Institute, Ministry of Environmental Protection solid waste and Chemical Management Technology Center, Shanghai Fuji Xerox Co., Ltd., Ideal (China) Science Industry Co., Ltd., Ricoh (China) Investment Co., Ltd. Division, Fuji Xerox Aike Manufacturing (Suzhou) Co., Ltd., Sharp Office Equipment (Changshu) Co., Ltd., Konica Minolta (China) Limited Investment Company, Hewlett-Packard (China) Co., Ltd., Zhuhai Pentium Electronics Co., Ltd., Brother (China) Co., Ltd., Beihai City, product quality inspection Inspection Institute. The main drafters of this standard. Lengxin new, Wang Liqun, Feng Xiaochuan, Hu Nan, Tian Hui, Liu Xin, Cai Dongming, Qiu Xiangru, Yu Jinda, Chen Weiyi, Omori, Cheseng Fook, Deng Guoying, Chen Ting, Xu Junfeng, Liu Fang, Bi Mingzhu, Zeng Shushen, Xie Jiancong, Zhuang Runmiao, Luo Mingfei, He Gang, Nie Xiaoli, Lu Jun and, Marvin, Li Jun, Cai Yi, Huang Jinling, He Jinfeng, Zhang Xian.

Waste copiers (including copy-based digital multifunction machine), printers (including print as the basic functions of digital Multifunction machine) and speed printing machine (including digital plate-making printing machine, offset printing machine) is a large amount of office automation products, but also abandoned Relatively large amount of electrical and electronic products. Waste copiers, printers and printers are professionally remanufactured and continue to be used according to their original purpose To extend the life cycle of products, help save resources and protect the environment. Copiers, printers and speed printing machines and other products involved in a variety of disciplines and technical fields, complex product structure, high precision, the type of material composition Many. In carrying out the remanufacturing process, if the manufacturing enterprises can not meet the requirements to protect the conditions, improper technical measures taken, not only can not be achieved Expected to reuse the purpose, but will cause new environmental problems.

Manufacturing and consumables (including parts) Remanufacturing is one of the earliest industrialized and technology-proven fields. This standard is for waste photocopying Machine, printer and speed press machine according to the remanufacture of three different levels of operation is divided into. New remanufacture, remanufacture and remanufacture and renovation Remanufactured, and are given the definition and basic requirements. This standard also put forward to engage in remanufacturing of production enterprises and employees basic Seeking, the basic requirements for pollution control in the production process, the basic requirements for intellectual property protection and so on. This standard protection of consumer rights, outside The ministry will play a positive role in the regulation of remanufacturing enterprises and remanufactured products and in promoting the healthy development of the office equipment remanufacturing industry. Waste copiers, printers and copiers Remanufacturing generic specifications

1 Scope

China's national standard for remanufacturing used copiers and printers. It specifies the terms and definitions, the basic requirements, the requirements for the remanufactured product, the requirements on remanufacturing businesses and personnel, and the treatment of intellectual property. That last item is why this standard reads differently from the others in the remanufacturing series. Office imaging equipment is where remanufacturing and intellectual property have collided hardest: the business model of the industry places the margin in the consumables rather than the machine, and the manufacturers have used patents, chips and firmware to defend that position. A remanufacturer restoring a machine or a cartridge is operating in a space where the technical question - can this be restored to as-new performance - is settled and the legal one is not. Addressing intellectual property inside a technical standard is an attempt to give the remanufacturing industry a defensible position rather than leaving each firm to litigate its own.

This standard specifies the terms and definitions of remanufacturing of used copiers, printers and copiers, basic requirements, remanufacturing product requirements, Manufacturing businesses and personnel request, re-create the definition of intellectual property, as well as re-create the product logo, logo and packaging requirements. This standard applies to waste copiers, printers and presses and machine remanufacturing enterprises to carry out remanufacturing machine production activities and internal management Activities, and external supervision of their production activities and final products. Other office equipment remanufacturing can refer to use.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the

latest edition (including all amendments) applies to this document.

GB/T 191 Packaging - Pictorial signs

GB 4943.1 Information technology equipment safety Part 1. General requirements

GB/T 13384 mechanical and electrical product packaging General technical conditions

GB 18597 hazardous waste storage pollution control standards

GB 18599 general industrial solid waste storage, disposal site pollution control standards
HJ/T

91 Technical Specifications for Surface Water and Sewerage Monitoring HJ/T 397 fixed
source exhaust gas monitoring technical specifications

HJ527 Waste Electrical and Electronic Product Pollution Control Technical Specifications

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Used copiers, printers and copiers used copier, printer and duplicator Discarded or used copiers based on the principles of electrostatic imaging, inkjet imaging, and digital plate imaging (including copy-to-copy As the basic functions of the digital MFP), printers (including print as a basic function of the digital multifunction machine) and printer (Including digital plate-making printing machine, offset printing machine).

3.2 Recycle take-back Recycling for the purpose of the waste copiers, printers and printers and other products for the collection and storage activities. Remark GB/T 29769-2013, the definition of 3.11.

3.3 Collect collection The activities of gathering, sorting and arranging products such as used copiers, printers and speedy printers. Remark GB/T 29769-2013, the definition of 3.20.