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Information technology — Office equipment — Method for measuring digital copying productivity of a single one-sided original

Technologies de l'information — Équipement de bureau — Méthode de mesure de la productivité du copiage numérique d'un simple original une face

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 29183 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 28, *Office equipment*.

Introduction

Many digital copying devices produce copied pages at a different rate than their nominal speed when running with different quality modes, different substrate weight, different job content and job lengths. The degree to which a change in productivity is experienced depends significantly on other parameters of the job stream. The most dominant of the parameters of the job stream are

— image quality modes selected,

— job content,

— black-and-white and colour reproduction job stream, and

— run length.

ISO/IEC 24735 addresses the productivity issues for digital copying devices when using both collation and an automatic document feeder, but cannot be used for a single one-sided original.

This International Standard provides a general method for measuring productivity when the above-mentioned job stream parameters for digital copying devices are taken into consideration. This International Standard also includes instructions for the creation of test charts. It allows manufacturers and buyers of digital copying devices to describe the productivity of various digital copying devices with respect to representative office usage.

Information technology — Office equipment — Method for measuring digital copying productivity of a single one-sided original

1 Scope

This International Standard specifies a method for measuring productivity of digital copying devices and multifunctional devices with various copying modes and a single one-sided original. It is applicable to digital copying devices and multifunctional devices. It is intended to be used for black-and-white and colour digital copying devices and multifunctional devices of any underlying marking technology. This International Standard includes instructions for the creation of test charts, test setup procedure, test procedure, and the reporting requirements for the digital copying productivity measurements.

This International Standard is not intended to replace manufacturer's rated speeds.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2470-1:2009, *Paper, board and pulps — Measurement of diffuse blue reflectance factor — Part 1: Indoor daylight conditions (ISO brightness)*

ISO 536:1995, *Paper and board — Determination of grammage*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
full detailed report
presentation of information including machine setup and measured test results

3.2
full report
presentation of results including the **sFCOT** (3.8), **sESAT** (3.7) and **sEFTP** (3.6) values as well as the calculated average for each value

3.3
nominal copying speed
copy rate, excluding time to first page copied, as measured when producing pages in a continuous copy mode with a single static document using a nominal weight substrate

NOTE Nominal copying speed is expressed in copies per minute or images per minute (ipm).