

This is a preview of "ISO/IEC 29183:2010". [Click here to purchase the full version from the ANSI store.](#)

First edition  
2010-12-15

---

---

## 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*

---

---

Reference number  
ISO/IEC 29183:2010(E)



© ISO/IEC 2010

This is a preview of "ISO/IEC 29183:2010". [Click here to purchase the full version from the ANSI store.](#)

**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.



**COPYRIGHT PROTECTED DOCUMENT**

© ISO/IEC 2010

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

This is a preview of "ISO/IEC 29183:2010". Click here to purchase the full version from the ANSI store.

## Contents

Page

|   |    |
|---|----|
| Foreword .....  | iv |
| Introduction.....   | v  |
| 1 Scope.....  | 1  |
| 2 Normative references.....   | 1  |
| 3 Terms and definitions .....   | 1  |
| 4 Test parameters and conditions .....  | 3  |
| 4.1 Environment.....  | 3  |
| 4.2 Voltage.....  | 3  |
| 4.3 Copying device setup .....  | 3  |
| 4.4 Paper.....  | 4  |
| 4.5 Maintenance .....   | 4  |
| 4.6 Preparation of test targets (test charts).....                            | 4  |
| 5 Test method .....   | 5  |
| 5.1 Test setup.....   | 5  |
| 5.2 Test measurement procedure.....   | 5  |
| 5.3 Test method process .....   | 8  |
| 5.3.1 Suggested test method process flow chart.....                           | 8  |
| 5.3.2 Single test target criteria .....                                       | 9  |
| 5.3.3 Estimating the copy count .....   | 9  |
| 5.3.4 5% consistency criteria.....  | 10 |
| 5.4 Performance test .....  | 10 |
| 6 Calculations and treatment of data .....                                    | 10 |
| 6.1 Performance test .....  | 11 |
| 6.1.1 1 Copy Test .....   | 11 |
| 6.1.2 1 Copy + 30 Seconds Test.....   | 11 |
| 6.1.3 1 Copy + 4 Minutes Test .....   | 12 |
| 7 Presentation of results.....  | 12 |
| 7.1 Performance test .....  | 12 |
| Annex A (informative) Examples of report presentation .....                   | 14 |
| Annex B (informative) Example of full detailed report .....                   | 15 |
| Annex C (normative) Test targets for measurement of copying productivity..... | 17 |
| Bibliography.....   | 18 |

## 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*.

This is a preview of "ISO/IEC 29183:2010". [Click here to purchase the full version from the ANSI store.](#)

## 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.