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Second edition  
2010-12-15

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## **Graphic technology — Safety requirements for graphic technology equipment and systems —**

### **Part 2: Prepress and press equipment and systems**

*Technologie graphique — Exigences de sécurité pour les systèmes et l'équipement de technologie graphique —*

*Partie 2: Systèmes et équipement pour la préimpression et la presse*



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## Contents

Page

Foreword .....	v
Introduction.....	vi
<b>1 Scope.....</b>	<b>1</b>
<b>2 Normative references.....</b>	<b>1</b>
<b>3 Terms and definitions .....</b>	<b>2</b>
<b>4 Conformity with this part of ISO 12643 .....</b>	<b>4</b>
<b>5 Equipment subject to requirements .....</b>	<b>5</b>
5.1 General .....	5
5.2 Prepress equipment.....	5
5.3 Printing presses and coating/varnishing machines .....	5
5.4 Other equipment covered by this part of ISO 12643.....	6
<b>6 Guarding of significant hazards .....</b>	<b>7</b>
6.1 General .....	7
6.2 Guard openings.....	7
6.3 Guarding in-running nips .....	7
6.4 Interlocks.....	8
6.5 Hold-to-run controls.....	9
6.6 Automatic format-setting operations .....	9
6.7 Additional safeguarding methods for machine devices and components .....	10
<b>7 Changing of printing plates.....</b>	<b>23</b>
7.1 General .....	23
7.2 Automatic printing plate changes .....	23
7.3 Semi-automatic printing plate changes .....	23
<b>8 Requirements for protection against other hazards.....</b>	<b>24</b>
8.1 General .....	24
8.2 Protection against fire and explosion in continuous-flow devices.....	24
8.3 Explosion protection exceptions.....	26
8.4 Spillage from washing devices .....	26
8.5 Working platforms, access stairs, passageways and raised workplaces.....	27
8.6 Electrostatic toner dust .....	27
8.7 Washing equipment for printing plates, rollers and doctor blades .....	27
8.8 Alcohol dosing devices .....	28
8.9 Refrigerating devices in ink and dampening units .....	28
8.10 Powder-spraying devices .....	28
8.11 Hazardous emissions of sheet-fed presses .....	28
<b>9 Additional requirements for functions, operations, colours and mechanical specifications of manual control devices .....</b>	<b>28</b>
9.1 General .....	28
9.2 Emergency stop and ink, dampening, metering, coating or fountain rollers .....	29
9.3 Emergency stop on auxiliary draw nips.....	29
9.4 Alternative controls for stop/safe function on sheet-fed presses .....	29
9.5 Ready control.....	30
9.6 Speed limit control .....	30
9.7 Plate position control.....	30
9.8 Colours for manual control devices .....	30
<b>10 Control systems for screen printing presses.....</b>	<b>30</b>

This is a preview of "ISO 12643-2:2010". [Click here to purchase the full version from the ANSI store.](#)

11	Safety requirements for prepress equipment.....	31
11.1	Electrical equipment of prepress machinery.....	31
11.2	Electric/electronic control system of prepress machinery .....	31
11.3	Exposing equipment .....	31
11.4	Safeguarding the discharge of liquids .....	31
11.5	Safeguarding in-running nips on engraving machines .....	31
11.6	Safeguarding against copper swarf hazard .....	32
11.7	Safeguarding bending unit on printing plate bending machines .....	32
11.8	Safeguarding printing plate punching devices .....	32
12	Signals and warning devices.....	32
13	Control zones for web presses having multiple folders.....	33
14	Contents of instruction handbook .....	33
14.1	General.....	33
14.2	Sheet-fed printing press systems .....	34
14.3	Web-fed printing press systems .....	34
14.4	Screen printing presses.....	35
14.5	Automatic cylinder and roller washing device .....	35
14.6	Continuous-flow drying devices .....	35
14.7	Oxidizers, incinerators and thermal cleaning plants .....	36
14.8	Alcohol dosing devices.....	36
14.9	Washing equipment for printing plates.....	36
14.10	Prepress machinery .....	36
Annex A	(informative) Hazards associated with printing press systems.....	37
Annex B	(informative) Protection zones against explosion.....	40
Annex C	(informative) Emission levels of sheet-fed presses resulting from tests conducted in Europe.....	43
Bibliography	.....	49

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member 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 shall not be held responsible for identifying any or all such patent rights.

ISO 12643-2 was prepared by Technical Committee ISO/TC 130, *Graphic technology*.

This second edition of ISO 12643-2 constitutes a technical revision of the first edition (ISO 12643-2:2007). Significant changes incorporated into this second edition include, but are not limited to, the following:

- inclusion of prepress equipment;
- requirements for performance levels (PL) or safety integrity levels (SIL) as defined in the current version of ISO 13849-1 and IEC 62061, respectively;
- addition of requirements for printing plate changes;
- addition of requirements for emergency stop on auxiliary draw nips.

It is the intent of ISO/TC 130 that both the first and second editions of ISO 12643-2 be applicable until 2011-12-31. ISO 12643-2:2007 is thus provisionally retained until this date.

As from 2012-01-01, ISO 12643-2:2010 will cancel and replace ISO 12643-2:2007. Accordingly, as from 2012-01-01, only ISO 12643-2:2010 will be applicable to new equipment manufactured.

ISO 12643 consists of the following parts, under the general title *Graphic technology — Safety requirements for graphic technology equipment and systems*:

- *Part 1: General requirements*
- *Part 2: Prepress and press equipment and systems*
- *Part 3: Binding and finishing equipment and systems*
- *Part 4: Converting equipment and systems*
- *Part 5: Stand-alone platen presses*

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## Introduction

During the development of this part of ISO 12643, existing relevant standards of other countries were taken into consideration. An effort has been made to harmonize the requirements of all countries, recognizing that national standards or laws may dictate national requirements. In cases where it was known that there is a national requirement that differs from this part of ISO 12643, that has been noted.

This part of ISO 12643 was developed to harmonize the requirements of the following US and European safety standards:

- ANSI B65.1, *Graphic technology — Safety standard — Printing press systems*
- EN 1010-1, *Safety of machinery — Safety requirements for the design and construction of printing and paper converting machines — Part 1: Common requirements*
- EN 1010-2, *Safety of machinery — Safety requirements for the design and construction of printing and paper converting machines — Part 2: Printing and varnishing machines including pre-press machinery*