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B65-2:2011
(ISO 12643-2:2010 MOD)

AMERICAN NATIONAL STANDARD

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

Part 2:

Prepress and press equipment and systems

SECRETARIAT
NPES THE ASSOCIATION FOR SUPPLIERS OF PRINTING, PUBLISHING
AND CONVERTING TECHNOLOGIES

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Contents

Page

Foreword	v
Introduction.....	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions.....	2
4 Conformity with this standard	4
5 Equipment subject to requirements	5
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 standard	6
6 Guarding of significant hazards.....	7
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
7 Changing of printing plates.....	23
7.1 General	23
7.2 Automatic printing plate changes.....	23
7.3 Semi-automatic printing plate changes	23
8 Requirements for protection against other hazards	24
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
9 Additional requirements for functions, operations, colours and mechanical specifications of manual control devices	28
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
10 Control systems for screen printing presses	30
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 discharging 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) Explosion-protection zones	40
	Annex C (informative) Emission levels of sheet-fed presses resulting from tests conducted in Europe.....	43
	Annex S (normative) Supplement to B65-2 — Additional U.S. requirements, including deviations from ISO 12643-2:2010.....	49
	Bibliography.....	51

Foreword

B65-2:2011 is a modified national adoption of ISO 12643-2:2010, *Graphic technology — Safety requirements for graphic technology equipment and systems — Part 2: Prepress and press equipment and systems*. It is to be used in conjunction with B65-1-2011. The purpose of this adoption is to harmonize this ANSI standard with international standards to facilitate international trade while adhering to U.S. safety regulations.

The B65 Committee was accredited by the American National Standards Institute in 1983 to develop safety standards for the printing and publishing industry.

The B65 Committee recommends the voluntary adoption and use of this standard by the printing industry and its suppliers. It is hoped that individual companies will not only use it in the purchase of new equipment, but will also apply the requirements of this standard during any major change or alternation of existing equipment.

It is recommended that this standard, or applicable parts of it, be referenced in purchase orders for equipment, when appropriate, thus making its provisions a part of the purchase contract.

It is also recommended that this standard be a part of the total safety program in the workplace. Application of this standard will promote safety, and management at all levels is urged to recommend its implementation.

Requests for interpretation must be sent in writing to the B65 Secretariat. This request will be forwarded to the appropriate committee, which will review the request in accordance with the B65 Committee Procedures for Interpretations and will provide a written response. A statement, written or oral, that is not processed in accordance with the procedures noted above will not be considered the official position of the B65 Committee, and should not be relied upon as a Formal Interpretation.

Suggestions for improving this standard are welcome. They should be sent to the B65 Secretariat, NPES The Association for Suppliers of Printing, Publishing and Converting Technologies, 1899 Preston White Drive, Reston, VA 20191-4367.

This standard was prepared by B65 Subcommittee 1 and was processed and approved for submittal to ANSI by the members of the subcommittee. Committee approval of the standard does not necessarily imply that all committee members voted for its approval.

Areas in which B65-2 differs technically from ISO 12643-2:2010 are noted throughout the document and are identified in detail in Annex S. Other editorial changes have been made that do not affect the technical content of the standard.

It is the intent of B65 SC1 that both B65.1:2005 and this version of B65-2 be applicable through December 31, 2012. B65.1:2005 is thus provisionally retained until this date. As from January 1, 2013, B65-2:2011 will cancel and replace B65.1-2005. Accordingly, as from January 1, 2013, only B65-2:2011 will be applicable to new equipment.

Introduction

During the development of this B65 Standard an effort was made to harmonize the requirements of ISO 12643-2:2010, with the requirements of the corresponding B65 standard. Therefore, this version of B65-2 is an adoption of ISO 12643-2:2010, modified with **specific requirements for the U.S., which are noted throughout this document and are listed in Annex S**. Such requirements may be an addition to, or a deviation from, the requirements of ISO 12643-2. In addition to the modifications of ISO 12643-2 shown in Annex S, other editorial changes have been made to the standard in accordance with the formatting requirements of an ANSI standard. Such editorial changes have no impact on the requirements of this standard.

During the development of ISO 12643-2, existing relevant standards of other countries were taken into consideration. An effort was made to take into consideration the requirements of many 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 ISO 12643-2, those differences were noted.

ISO 12643-2 was developed to harmonize the requirements of the following U.S. 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;

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. Neither ISO, ANSI nor NPES shall be held responsible for identifying any or all such patent rights.

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

Part 2: Prepress and press equipment and systems

1 Scope

This standard provides safety requirements specific to prepress and press equipment and systems. It is to be used in conjunction with the general requirements given in B65-1.

This standard provides additional safety requirements for the design and construction of new prepress and press equipment, and the auxiliary equipment integrated into the press control system.

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.

See S.1 for changes in, or additions to, normative references for B65-2.

ISO 12643-1, *Graphic technology — Safety requirements for graphic technology equipment and systems — Part 1: General requirements*

ISO 13732-1, *Ergonomics of the thermal environment — Methods for the assessment of human responses to contact with surfaces — Part 1: Hot surfaces*

ISO 13849-1, *Safety of machinery — Safety-related parts of control systems — Part 1: General principles for design*

ISO 13855, *Safety of machinery — Positioning of protective equipment with respect to the approach speeds of parts of the human body*

ISO 13857, *Safety of machinery — Safety distances to prevent hazard zones being reached by upper and lower limbs*

IEC 62061, *Safety of machinery — Functional safety of safety-related electrical, electronic and programmable electronic control systems*

EN 378-1, *Refrigerating systems and heat pumps — Safety and environmental requirements — Basic requirements, definitions, classification and selection criteria*

EN 1539, *Dryers and ovens in which flammable substances are released — Safety requirements*