

ANSI®
B65-5:2011
(ISO 12643-5:2010 MOD)

AMERICAN NATIONAL STANDARD

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

Part 5: Stand-alone platen presses

SECRETARIAT
NPES THE ASSOCIATION FOR SUPPLIERS OF PRINTING, PUBLISHING
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B65



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Foreword

B65-5:2011 is a revision of B65.5:2006, *Safety standard — Stand-alone platen presses*. It is a modified national adoption of ISO 12643-5:2010, *Graphic technology — Safety requirements for graphic technology equipment and systems — Part 5: Stand-alone platen presses*. 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.

This standard was prepared by B65 Subcommittee 4 (Safety of Platen Presses) 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 B65-5 differs technically from ISO 12643-5:2010 are identified 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 SC4 that both B65.5:2006 and this version of B65-5 be applicable through December 31, 2012. B65.5:2006 is thus provisionally retained until this date. As from January 1, 2013, B65-5:2011 will cancel and replace B65.5:2006. Accordingly, as from January 1, 2013, only B65-5:2011 will be applicable to new equipment.

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.

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 not be held responsible for identifying any or all such patent rights.

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.

Introduction

During the development of this B65 Standard an effort was made to harmonize the requirements of ISO 12643-5:2010, with the requirements of B65.5:2006. Therefore, this edition of B65-5 is an adoption of ISO 12643-5:2010, 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 12643-5:2010. In addition to the modifications of ISO 12643-5:2010 shown in Annex S, other editorial changes have been made to the standard in accordance with the formatting requirements of an ANSI standard. Editorial changes include renumbering the clauses and sub clauses following Clause 4. Such editorial changes have no impact on the requirements of this standard.

The purpose of this standard is to reduce the risk of injury to operating personnel working on stand-alone platen presses.

This standard provides requirements for controls, and for guarding residual hazards and hazards created by point of operation of manually-fed and automatically-fed platen presses. It also provides requirements specific to the use of a flywheel, and specifies safe operating practices and training requirements.

During the development of ISO 12643-5, existing relevant standards of other countries were taken into consideration. An effort has been 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 12643-5, which has been noted.

ISO 12643-5 was developed to harmonize the following U.S. and European safety standards:

ANSI B65.5, *Safety standard — Stand-alone platen presses*

EN 1010-5^[1], *Safety of machinery — Safety requirements for the design and construction of printing and paper converting machines — Part 5: Machines for the production of corrugated board and machines for the conversion of flat and corrugated board*

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

Part 5: Stand-alone platen presses

1 Scope

This standard provides safety requirements specific to stand-alone platen presses. It is intended to be used in conjunction with the general requirements given in B65-1.

This standard provides additional press design safety requirements for the design and construction of new manually-fed or automatic stand-alone platen press systems intended for diecutting, creasing, embossing, foil stamping and/or printing of paper, board and other materials processed in a similar manner.

This standard is not applicable to presses designed to handle metal material other than foil.

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 B65-5.

ISO 4414, *Pneumatic fluid power — General rules and safety requirements for systems and their components*

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

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

ISO 13856-2, *Safety of machinery — Pressure-sensitive protective devices — Part 2: General principles for the design and testing of pressure-sensitive edges and pressure-sensitive bars*

ISO 14120, *Safety of machinery — Guards — General requirements for the design and construction of fixed and movable guards*

IEC 61496-1, *Safety of machinery — Electro-sensitive protective equipment — Part 1: General requirements and tests*

IEC 61496-3, *Safety of machinery — Electro-sensitive protective equipment — Part 3: Particular requirements for Active Opto-electronic Protective Devices responsive to Diffuse Reflection (AOPDDR)*

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