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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 15110.2-2023

**Register systems for photographic materials, foils and paper -
Part 2: Register pin systems for plate making**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules for Standardization Documents" drafting.

This document is the second part of GB/T 15110 "Registration system for photosensitive materials, foils and paper". GB/T 15110 has been issued

The following sections.

--- Part 2. Pin positioning system for plate making.

This document is equivalent to ISO 11084-2:2006 "Registration system for photosensitive materials, foils and papers in printing technology - Part 2. Manufacturing version of the Pin Positioning System".

The following minimal editorial changes have been made to this document.

--- In order to coordinate with the existing standard, the name of the standard is changed to "Registration system for photosensitive materials, foils and paper - Part 2. Pins for plate making

Positioning System".

Introduction

In printing technology, standardization of registration systems can lead to greater adoption by reducing the variety of dowel systems required for prepress operations.

economy and efficiency. This approach helps reduce the number of errors and consumable usage. GB/T 15110 aims to establish the

The positioning pin of the system is proposed to be composed of two parts.

--- Part 1. Three-pin positioning system. The purpose is to establish the size and position of the pins and holes in the three-pin positioning system to realize the original,

Precise positioning of color separations and printing plates on presses and prepress equipment. This part will adopt ISO 11084-1.1993 "Printing technology

Registration systems for technical photosensitive materials, foils and papers - Part 1. Triple pin positioning system", instead of equivalent use ISO 11084.

GB/T 15110-1994 "Printing Positioning System" in.1993.

--- Part 2. Pin positioning system for plate making. The purpose is to establish the shape, size and position of the pins and holes in the double pin positioning system.

In order to achieve precise image positioning on the printing plate during the plate making operation.

This document specifies the dowel structure of the double pin locating system using a metal base plate, describes the shape and size of the pins and holes in the double pin system

and location. Since the printing machine uses a variety of special positioning pin arrangements to achieve rapid and accurate positioning of the printing plate, this document is mainly applicable to

This document specifies the use of the system to ensure precise positioning of images on printing plates and

The bending plate is accurate when brushing and loading. This document also applies to switchable dowel systems that can be switched between different dowel arrangements.

GB/T 15110.2-202x/ISO 11084-2.2006

Registration systems for photosensitive materials, foils and papers

Part 2. Pin positioning systems for plate making

1 Scope

This document specifies the shape, size and location of pins and holes in dowel pin systems, which are used in plate-making operations during printing plate-making

Accurate image positioning on the printing plate. This document also applies to bending machines and switchable types that need to be converted between different pin positioning systems

Locating pin system.

This document is applicable to the pre-press pin positioning system with a printing plate

size of 420mmx594mm (A2) during plate making, and is also applicable to printing presses
A pin-type positioning system similar to the above.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

ISO 11084-1 Registration systems for photosensitive materials, foils and papers in printing technology - Part 1. Triple pin positioning system (Graphic
tems)

3 Terms and Definitions

The terms and definitions defined in ISO 11084-1 and the following apply to this document.

3.1

Positioning hole registerhole

Round or elongated holes that require mutual alignment (positioning) in one or more materials.

3.2

punching centerline punching centreline

A line passing through the centers of the two punched positioning holes (3.1).

3.3

long positioning hole slotted registerhole

Positioning holes (3.1) with parallel sides, the length of the hole is greater than the width of the hole, and the two ends can be curved or square.

4.1 Arrangement of positioning holes and positioning pins

The locating system specified in this document is a double pin system for creating a circular locating hole and a long locating hole in the material. between holes

GB/T 15110.2-202x/ISO 11084-2.2006