联强集团
UP GROUP

PRINT QUALITY INSPECTION SYSTEM



Shanghai UPG International Industry&Trade Group Co., Ltd.

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Company Profle

UP Group was founded in August 2001 which has become one of the most famous groups in manufacturing and supplying the Printing, Packaging, Plastic, Food processing, Converting machinery and related consumables ete, In local and international market, its products are ver'y popular in China and also have been exported to more than 100 countries for years.

UP Group's values are Sincerity, Efficiency, Profession, Pragmatism, Innovation, Valuation.

UP Group's vision is to be a brand supplier to provide profesional for customers in printing, packaging and plastic industries. Besides the 18 members of group, Up Group also has established the long terms strategy collaborations with more than 20 associated factories.

UP Group's mission is Ffocusing on the profesion, Upgrading the expertise, Satisfying the customers, Building the future. We will spare no elforts to build UP Group into an integrated international printing and packaging machinery manufacturing base.At the same time, On the behalf of the ideas of leading technology and innovative business, We also provide the printing and packaging industry an end-to-end services and focuses on customers' needs to provide customers the value-added solutions to help them improve production efficiency,improve profitability and achieve business success. There we has more than 30 offices have been established in foreign countries.

UP Group will lead all employees of the company to adhere to the principles of technological innovation, management innovation and business culture innovation, provide customers with high-performance and high-quality printing and packaging machines, And taking to meet the needs of customers and helping customers succeed as the company's business purpose.





Superiority

A famous brand enterprise which has been trusted by industry and customers for 20 years. High efficieney, rich experience, stable and professional team work.Customizing suitable and satisfactory for production lines and solutions for various customers. Continuously developing new products to meet the demand of marketer On-line platforms can worldwide exhibitions are easy for customers to reach us in different way.

Export Markets

Southeast Asia

Thailand, Indonesia, Singapore, Malaysia, Brunei, the Philippines, Japan, Korea, Vietnam, Cambodia, India, Sri Lanka, Nepal, Dubai, Kuwait Saudi, Syria, Lebanon, Maldives, Bahrain, Jordan, Sudan, Mongolia, Myanmar, Pakistan, Iran, Turkey and Bangladesh.

European

Britain, France, Germany, Italy, Holland, Spain, Portugal, Georgians, Slovakia Finland, Poland. the Czech Republic, Russia, Ukraine, Belarus, Kazakhstan, Uzbekistan, Sweden, Bosnia. Herzegovina and Albania.

Afica

South Africa, Kenya, Ethiopia, Egypt, Morocco, Algeria, Tunisia, Madagascar, Mauritius, Nigeria, Ivory Coast, Ghana, Mali, Liberia and Cameroon.

America

The United States, Canada, Mexico, Panama, Costa Rica, Brazil, Argentina, Columbia, Bolivia, Uruguay, Paraguay, Chile, Peru, Eeuador and Honduras.

Print-Offline Inspection System for Print Quality (Lower Inspection)



DY-DPS1040



DY-DPS1450







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Features

- Proof: through the off-line detection system to collect high-precision images of printed product and compare them with pdf files, carry out automatic inspection of the integrity of printed content, and find printing defects such as plate scratches, missing words, and text content errors.
- Spot check: The off-line inspection system is used to spot check the products in the printing process to prevent continuous scrap.
- One controlling multiples: one quality inspection machine can control six printing machines.
- It can realize simultaneous inspection of front and back or multiple pages.
- The quality control can be carried out from the source, and the printed plate-making documents can be used to check the printed content, so as to prevent printing defects from pre-printing to the printing process.
- Qc personnel carry out spot check and check the test results. The data check results can be sent to the machine to remind the captain to pay attention to relevant defect information and prevent false inspection caused by visual fatigue, and improve machine working efficiency.
- The system adopts intelligent (non) modeling, which is ready to use when opening it; one standard sample can be used for sample comparison.
- Simple operation, it can be used after simple training.
- The test time of each product is within 30s.
- The test results can be statistically printed to a table to realize the quality management data, and it is convenient to match the Mes with ERP system.

Specifications

Main function	Compare the printed product with the PDF file to check the integrity of the printed product; Conduct spot check during printing to prevent continuous waste
File comparison mode	Support the comparison of PDF, AI, BMP, JPG and other format files with the first sample without modeling
Real sample comparison mode	Support the comparison between the first sample and the product without modeling
Inspection speed	Inspection time ≤ 30s/face
Detectable maximum paper size	1040×720 mm / 1450×1060 mm
Detectable paper weight	60 to 400g/m^2
System optical resolution	508dpi / 363dpi
Detectable defect type	The printing ink spot is missing, the character strokes are missing, the color difference, the punctuation marks are missing, and the key strokes in foreign languages are missing. Overprint movement, text content movement, etc
One pixel scanning can connect multiple presses	Support multi-client data browsing
Size and weight	2420×1200×1900mm / 2600×1550×2150mm Weight: 680kg / 750kg Power: 4kw / 6kw

Print-In-Print-Offline Inspection System for Print Quality (lower inspection)



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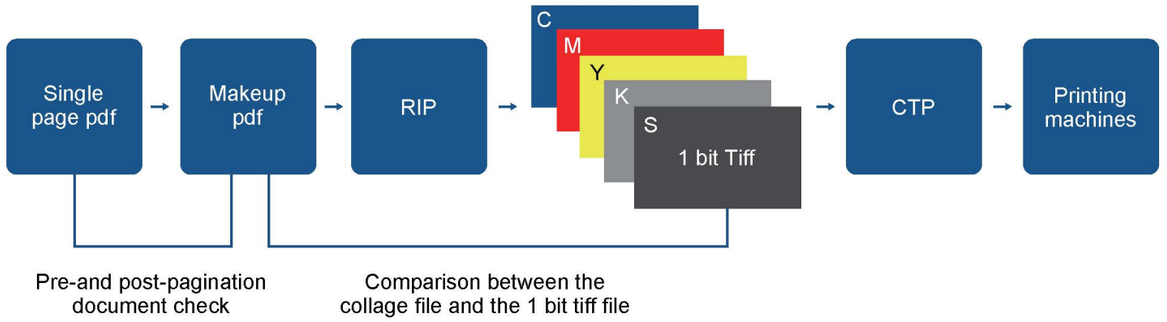
Features

- First check: Print and PDF documents are compared to check the integrity of the printed content.
- Spot check: Spot checks during the printing process to prevent continuous rejects.
- Casepiece inspection: Detects quality defects and colour differences in case pieces.
- Finished box inspection: Finished boxes can be inspected for quality defects and colour differences.

Specifications

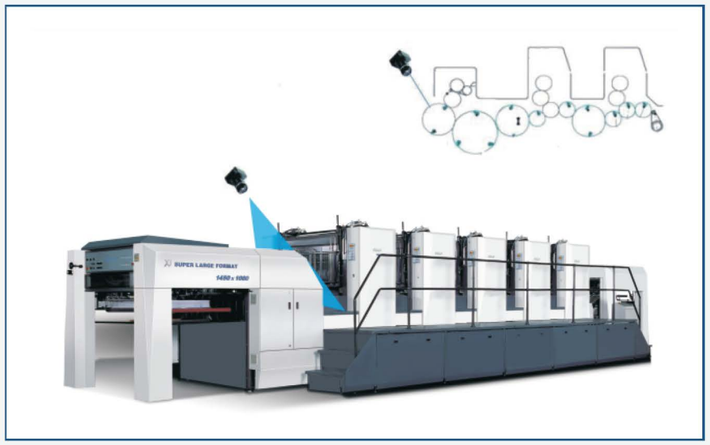
Supported file formats	PDF, AI, BMP, JPG
Detection speed	Detection time ≤30s
Max paper size detectable	1450×1060 mm
Range of paper can be checked	60 to 400g/m^2
System optical resolution	363 dpi
Detectable defect type	Printing ink spots, missing prints, missing text strokes, missing punctuation marks, missing key strokes in foreign languages, overprinting out of position text content out of position, color differences, etc.
1 with multi-machine view	Support for multi-client data browsing
Dimensions and weight	Size 2000×1300×850mm excluding monitor size; Weight: 350kg; Power: 1.8kw

Prepressing-Proofing System



In-Printing-Printing Quality Inline Inspection System





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Features

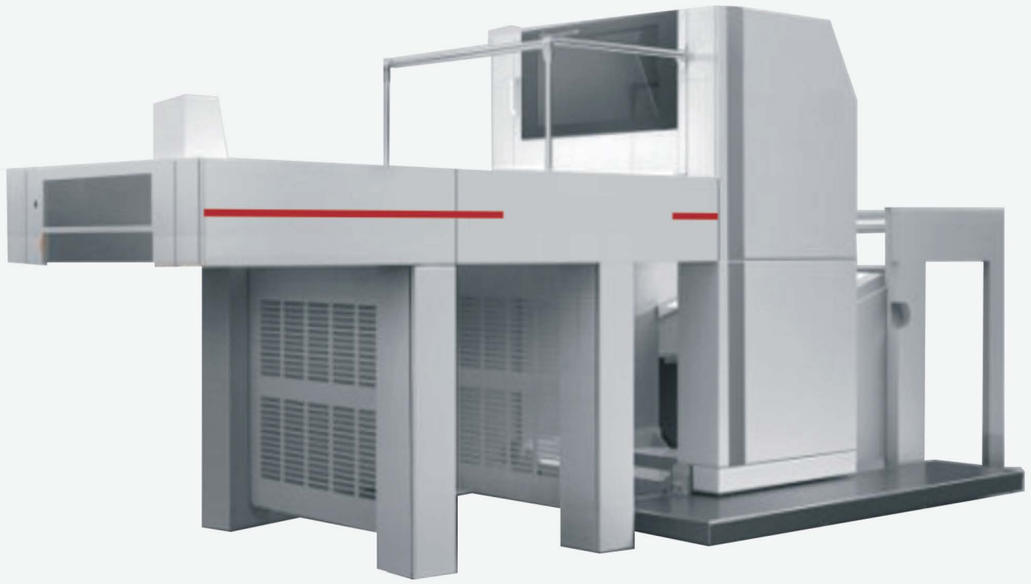
The system is installed on a high-speed web printing machine or sheet printing machine to conduct real-time inline quality inspection of each printed product and intercept the continuous waste and serious waste in the printing process. If printing defects are found, they can be alarmed, identified or eliminated, which is convenient for machine operators to adjust and improve the equipment failure or printing process.

- Installed on the printing machine, it can conduct 100% printing quality inspection on the product in real time, greatly reducing the printing scrap rate.
- It can replace labor, reduce labor costs and improve production efficiency.
- It can reduce false inspection caused by fatigue, emotion, visual deviation and human error, and greatly improve product quality.
- Simple operation, it can be used after simple training.
- The system adopts intelligent modeling, which can be completed in 1 minute.
- The data interface format and data transmission standard are extensible, which can facilitate the connection with the Mesh or ERP system, and provide the process quality data and statistical results of product inspection.
- The first sheet inspection function can be selected, and separate software can be installed to detect the first sheet proof before the official printing to ensure the consistency of the first sheet and the large size collage document.

Specifications

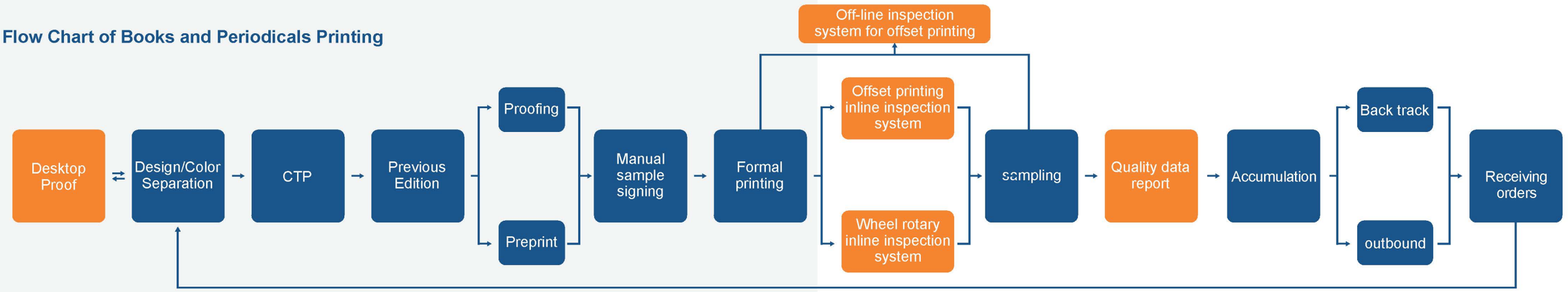
Main function	Real-time inline full inspection of printed products can intercept continuous waste and serious waste
Applicable models	All kinds of single sheet-fed offset printing machine and web printing machine
Inspection station	Web printing machine: two stations of front and back. Sheet printing machine: generally one station; double-sided printing machine having two stations
Inspection speed	Web printing speed: ≥ 40000 sheets/hour Sheet printing machine: ≥ 15000 sheets/hour
Detectable paper size	Adaptable to printing size of various printing machines
Paper weight	Adaptable to various printing machines
Online versioning is possible	Adaptable to various printing machines
Detectable defect type	Missing printing, ink spots, ink dirt, paper tearing, ink leakage, dry version, paste version, wrong version, color difference, etc.
Waste disposal method	Audible and visual alarm, label insertion, spray marking, manual waste removal, optional automatic waste removal device

High-Speed Double-Sided Large Sheet Inspection System After Printing



The high-speed double-sided large sheet inspection machine independently developed by the company adopts the offset press Feida and transmission mechanism, which is characterized by compact structure, stable operation, high paper feeding and inspection accuracy. It is mainly applicable to full-format inspection of large double-sided products such as manuals, test papers, answer cards, books and periodicals, maps and business printing, which well solves the problems of manual full-format inspection and low efficiency of such products and can 100% guarantee the quality of ex-factory products. The two inspection stations on the front and back of the equipment adopt high-speed linear array camera, which has high inspection accuracy and speed, and is equipped with a good product warehouse and a waste product warehouse. The good and bad products can be placed separately and stacked neatly.

Flow Chart of Books and Periodicals Printing



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Features

- Paper feeder: high-speed offset press paper feeder, Standard pre-stack paper, Dual controller, Antistatic device.
- Paper transfer mechanism: Specified position accuracy of front gauge side ± 0.15mm, Front gauge empty or skew can be checked.
- Inspection Department: There are two inspection stations on the front and back, The product is equipped with a self-made flattening mechanism.
- Paper receiving: Two sets of standard paper receiving bins are equipped, and the paper receiving of the positive and waste products is neat, The positive waste paper stack can be customized, Standard counting and 1 labeling machine.
- Electrical appliances: PLC control, frequency conversion speed regulation, touch screen operation, waste removal monitor monitoring.
- Air supply: The air compressor is not provided, and the centralized air supply of the customer is required, or the air compressor is separately configured by the customer.

Specifications

Max inspection width	1040×740 mm
Min inspection size	546×360 mm
Applicable paper weight	40-250 g
Max paper feeding speed	13000 sheets/hour
Max inspection speed	10000 sheets/hour
Height of paper feeding stack	1050 mm
Paper receiving height of good product warehouse and waste product warehouse	950 mm
Inspection resolution	0.07×0.07 mm
The strictest detection accuracy	Area≥0.02mm^2, contrast>15DN
Front / Back inspection station	Rubbing dirt, missing printing, ink dirt, holes, mosquitoes, corners, tearing paper, wrinkles, oil dirt, ink, strike-through, overall offset of printing and other defects etc.