PRODUCT INFORMATION GUIDE

RISO *SF* series

Digital Duplicators

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RISO SF Series Digital Duplicators

The new RISO SF series sets the standard in digital duplicator performance, offering superior print quality while simultaneously delivering the same speed, reliability and durability that RISO is well-known for. This new series includes three digital duplicator models: SF940, SF5450, and SF5130 with new and improved product technology and advanced features over its EZ series predecessors.

New Model	Previous Model	Resolution	Print Size	Print Speed	Operation Panel
SF9450	EZ591	600 x 600 dpi (previous model 300 x 600 dpi)	Ledger	150 ppm (previous model 130 ppm)	Full Color LCD Touch Panel
SF5450	EZ391	300 x 600 dpi	Ledger	130 ppm	Monochrome
SF5130	EZ221	300 x 600 dpi	Letter/Legal	130 ppm	Monochrome

One significant change for the SF Series is a new formulation for its ink. RISO has chosen to produce its SF inks out of a more ecologically responsible and under-utilized material: rice bran. While the ingredient itself is environmentally friendly, rice bran ink has proven to have even better archiving capabilities, by eliminating the yellow paper discoloration that can appear over time. The new ink formula and the SF's environmentally friendly features, such as its extremely low energy consumption, provide an effective way to reduce carbon footprint.

Digital Duplicator Basics and Fit

In 1986, RISO first introduced the digital duplicator to the US market to fill the gap between the copier and the offset press.

1-25 copies

25 to 5,000 copies

5,000 + copies

Digital duplicators offer near press quality output, and are best suited for static print jobs with volumes too high for a copier to handle and too low for an offset press, generally between 25 - 5,000 pages.

Today, the digital duplicator still satisfies a market need for applications that require longer-run lengths, monochrome or spot color, static data documents, envelopes and odd-sized media; and where productivity, reliability, and cost-containment are important factors.

RISO's value proposition 'Productivity, Versatility and Cost Containment' is further exemplified by the new SF series digital duplicators.

- **Productivity**

    - Up to 150 pages per minute (9,000 per hour!)

    - 20 Second Color Change

    - Reliable: No Heat Process; Straight Paper Path increase uptime

- **Versatility**

    - 12 lb. carbonless forms to 220 lb. cardstock (with RISO Special Paper Feed Kit)

    - 3 ½" x 5 ½" to 11" x 17"

    - Color Capability - 70 Different Spot Colors and unlimited custom colors

- **Cost Containment**

    - The lowest-cost method for longer-run static spot color

    - Low energy consumption – 95% less than toner-based MFPs

    - Environmentally friendly – no carbon footprint

RISO duplicators feature a plate-based spot color technology: fast, clean, eco-friendly, high-speed printing at a fraction of a cent per impression. They can print on a wide variety of substrate stocks and sizes such as: newsprint, text and card stock, carbonless and envelopes up to 11" x 17".

Digital duplicators use a heatless process and do not require toner or fusers. The lack of heat and a short, straight paper path allow for extremely reliable handling of a wide range of media and applications that typically cannot be produced using a copier and increased equipment life.

Many organizations overwork their photocopiers and MFPs and overpay for many of the documents printed on them. RISO digital duplicators provide a better, more cost efficient alternative to photocopying. Reducing the workload of the photocopier helps extend the life of the copier and in some instances may allow the organizations to downgrade their copier requirements. The savings alone in operating and capital cost often times can cost-justify the addition of a digital duplicator.

In addition, many organizations outsource their print jobs because they are not capable of being printed on a photocopier or laser printer because they require special media or color.

RISO digital duplicators allow customers to bring these print jobs in-house, enabling them to print what they need, when they need it. Customers won't have to print in large volumes for economical price breaks. The on-demand printing ability of the digital duplicator ensures customers their materials will not be wasted or outdated.

Market Applications

RISO digital duplicators open up a host of applications not previously possible with the traditional office printing equipment. RISO digital duplicators allow customers to print on a wide range of stocks from thick media to odd-sized and die cut stocks, recycled papers, envelopes, and more. Customers can also easily and affordably add spot color to all of their documents.

Religious Market - Newsletters, envelopes, bulletins and flyers, ministry outreach materials, fundraising materials, sermon and hymn books, holiday cards, schedules and calendars, annual church reports, announcements and more.

Education Market - Classroom handouts, homework assignments, forms, bulletins, exams, programs and schedules, sign-up sheets, rules and regulations, parent/teacher communications, and more.

In-plant and Commercial Market - Letterhead, envelopes, business cards, marketing materials, promotional materials, newsletters, flyers, postcards, direct mail pieces, price sheets, directories, forms, bulletins, announcements, training materials, statement stuffers.

The core markets in the U.S. for digital duplicators continue to be education, religion, print for profit, government, and associations. However, with the advancements through the years, the commercial segment represents 26% of RISO's customers which are typically found in an "in-plant" operation.

Who buys RISO Duplicators?
Any type of organization with high volume static printing needs can benefit from a RISO digital duplicator!

- For over 30 years, RISO has led the market in digital duplicator sales.

- Organizations use RISO duplicators more than all other brands combined!

- Over 40,000 customers are productively using RISO digital duplicators!

- 9 out of 10 RISO customers say they would buy another RISO product!

And now with advanced features and higher productivity than ever before RISO brings the SF Series Digital Duplicators.

SF Series Product Details

The familiar Start button and user adjustment dials and levers have been changed from pale green to a vibrant blue for quick identification and ease of operation. This achieves the Color Universal Design standard, which improves usability for people with color blindness or color vision deficiency.
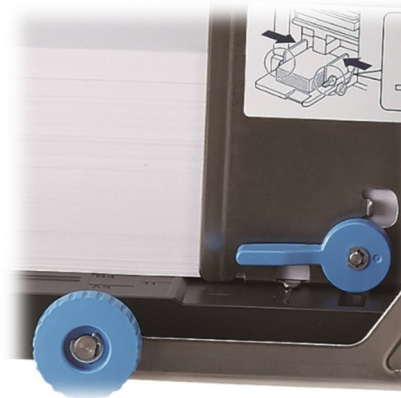
The SF body panels have been updated from the rounded edges and corners found in the EZ series, to a sharp and linear design. A new white color expresses a cleaner image and horizontal lines represent the straight paper path and the sense of speed.
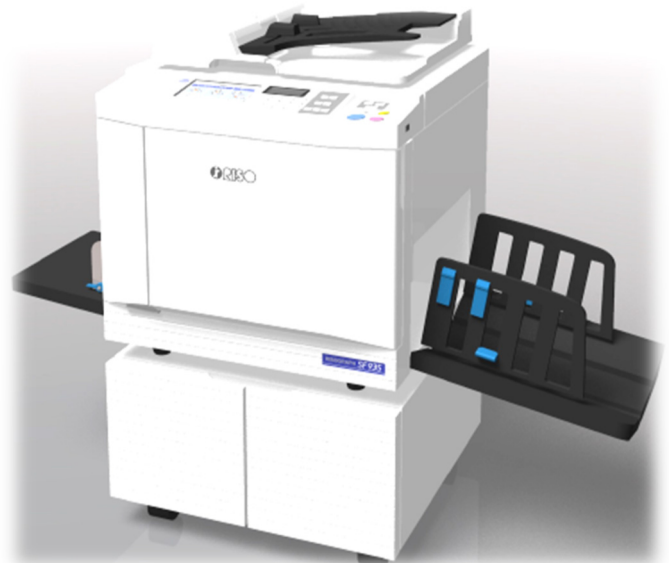
Operation Panel

CUD (Color Universal Design) is the new standard for all RISO products. This provides improved usability.

The SF9450 has a full color LCD panel, which is an improvement over the Monochrome LCD touch screen that was provided with the EZ591.

SF5450 and SF5130 digital duplicators offer a monochrome LCD panel, which is improved from the LED lights found in the EZ series.

New Technology

| Product Specs	Technology (Method of realization)
Maximum Print speed: 150ppm SF9450	• Drum Screen has been strengthened [Printing durability] • Main Motor Power Capacity has been increased [For 150ppm] • Paper feed clutch power is more powerful than the previous generation
LCD Panel Full Color: SF9450	• Upgraded Operation Panel to full color LCD Panel.
Monochrome: SF5450 SF5130	• Upgraded from LED to a monochrome LCD panel
CUD- Color Universal Design	• Change the all lever color from green to blue • New operation panel sheet for CUD • Change the LED color from red to white [CUD improves the experience for people with color blindness or color vision deficiency.]
Easy paper receiving fence adjustment for standard paper sizes	• End fence stop has a click position for each standard paper size • New design of the rail slider in the paper receiving tray fence, for ease of use.
PC-IF (USB_LAN) USB Memory Print	• ROSA-PCB [New CPU] • Integrate ROSA PCB and Mechanical Control PCB
Improved Image Quality 600X600dpi SF9450 Series	• R600dpi Thermal head [Same as high end model Thermal head] • Optimization of prepress pressure / balance combined to normal master

Product Specs	Technology (Method of realization)
Improved Image Quality 300X600dpi SF5450 Series SF5130 Series	• D600dpi Thermal head SF5130, successor to EZ221 model, has been upgraded from 300X300dpi to 300x600dpi. • Added the Pressure Control Function to Lower-end models. [Improved Image Quality] SF5130, successor to EZ221 model, has expanded print image adjustments.
Quick Master Making Mode	• Master feed rate to 1.5 times faster. Images at 400dpi.
Photo image quality improvement	• Error diffusion improvement [Improvement of smoothness • The gamma curve has been improved
Master and Print Counters	• Changed from hardware counters to software counters
EPEAT	• Change the Master Making Unit Rear Cover to Recycled Plastic Material • A 25% minimum of recycled materials are utilized for packing materials
New Drum Connector Prevent Paper dust trouble	• Adopted CV3 series of drum connector.
Noise Reduction	• Noise absorbing material has been added to the inside of the front door panel and under the machine.

New Features

- **Improved Productivity**

  - Print Speed
    - SF9450 and SF5450 maximum print speed improved to 150ppm
      - Maximum print speed of predecessors is 130ppm
      - SF5130 is 130ppm

  - SF 9450 New Quick Master Making Mode
    - Reduces master making time by 2 seconds
    - Allows us to now compete with fastest speed in the duplicator market

Image Difference Quick Master Making vs. Normal Mode
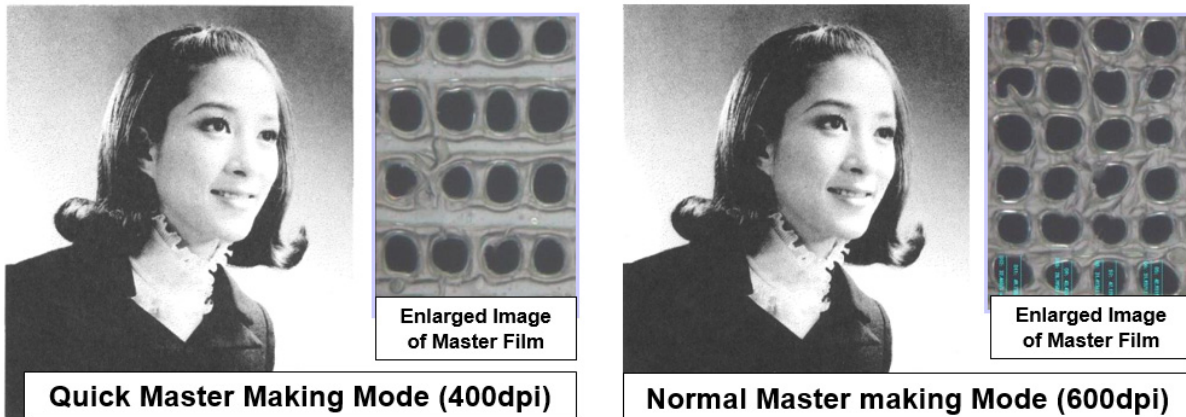
SF9450 has a standard 16 second master making time. However, when maximum speed is required, Quick Master Making Mode is an option for producing a master in 14 seconds. It does however slightly lower the print dpi.

This feature helps spec out our competition. In comparison our competitors Duplo master making time is 18 seconds and Ricoh is up 19 seconds.

- **Improved Print Quality**

  - SF9450 has 600x600 dpi print resolution, which is higher quality output over its predecessor EZ591's 300x600 dpi

  - SF5450 and SF5130 has 300x600 dpi print resolution
    - SF5130's predecessor EZ221 300x300 dpi

- New Color Scanner (improved scan quality)

- Improved Error Diffusion which improves smoothness of scanned images

- New image processing (photo quality has been improved)

- Improved Error Diffusion
    - Looks at a picture and helps eliminate gap between the pixels

- Improved Print Quality
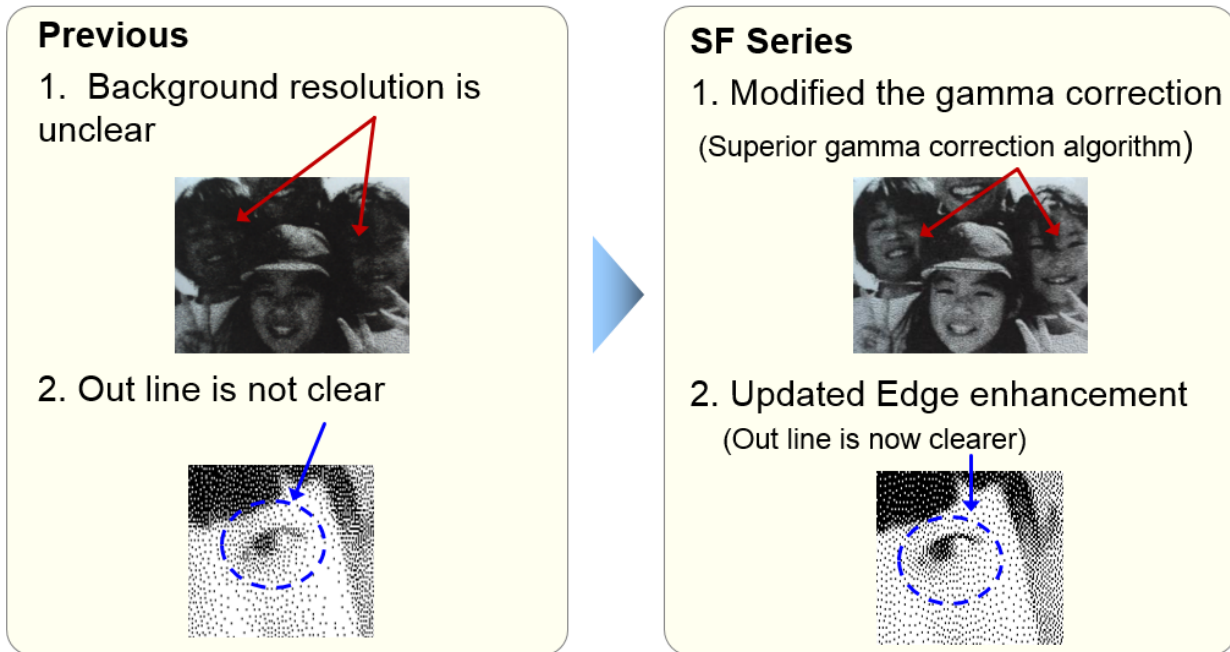
The SF series has improved the quality of text, graphics, and photographs.

The new image processing algorithm has enhanced gamma correction. This greatly improves the reproduction of dark areas in photographs that were taken in low light conditions.

Updated edge enhancement processing improves outlines.

New Rice Bran Ink Formulation
- In 2001 RISO released first Soy based ink
- In 2016 RISO released first Rice Bran ink

As an environmentally focused company, RISO has found Rice Bran to be a superior base for duplicator ink, while making use of a waste product, whereas, since the introduction of Soy ink in 2001, the soy market has been impacted by growth and demand in multiple industries.

Benefits of Rice Bran Ink

- Reduce added amount of antioxidants that can cause yellowing in the ink

- Maintain quality for archiving

- Corresponding environmental regulations

- Effective utilization of waste resources

  - Environmentally friendly use of the waste product – Rice Bran

Compatibility

SF F Type supplies can only be used with SF product lines
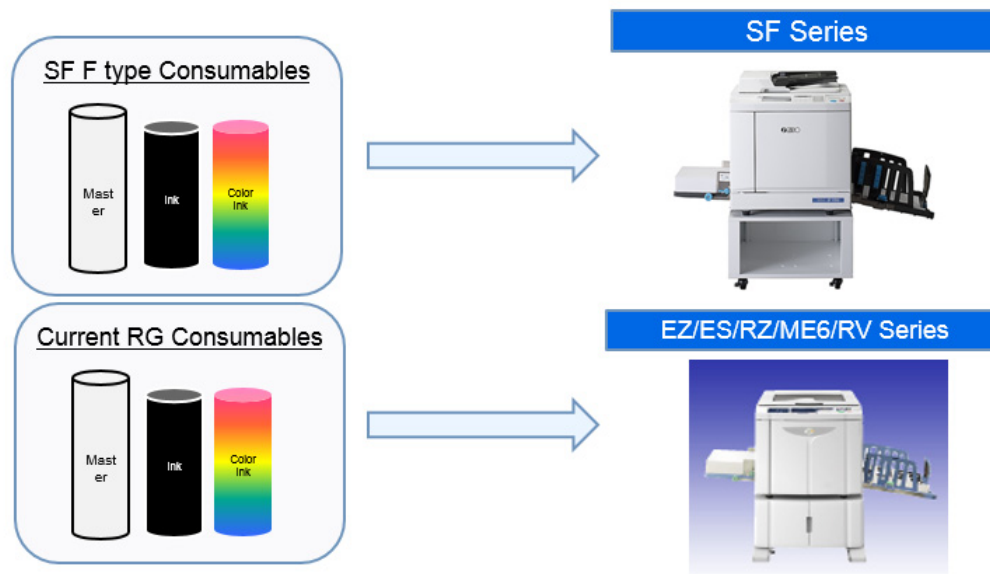
Color ink will still be a soy based product but it will phase into rice bran ink over time.

RISO iQuality System™

The SF series is equipped with an advanced iQuality System. This two-way communication between RISO i Quality System equipped printers and their supplies is made via integrated RF (Radio Frequency) tags. These tags relay information to the printer, assuring optimum first print quality and superior output throughout the entire job.

Consumables expiration date and the thinking of operations

Panel message
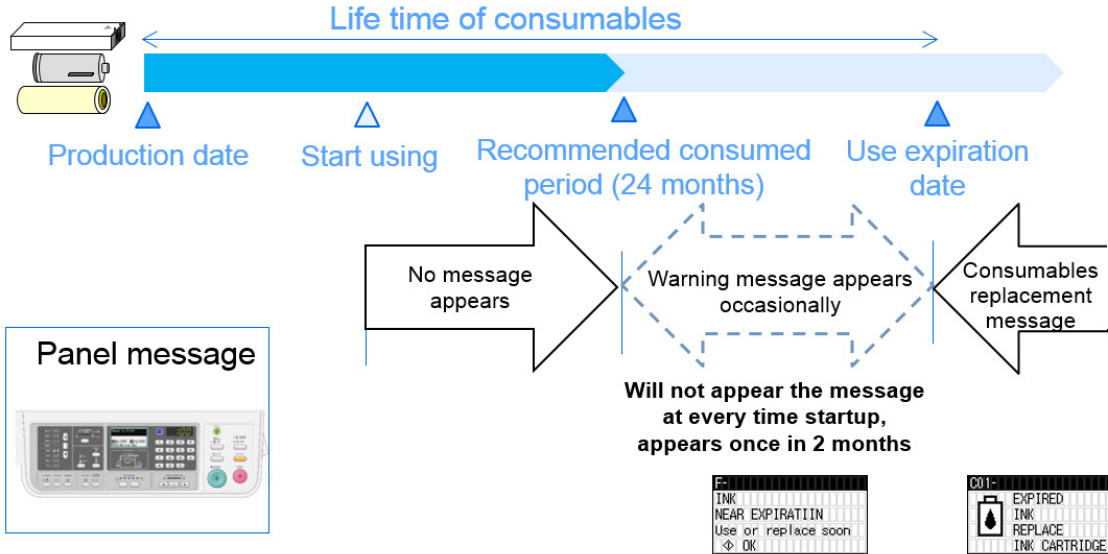
Every ink has an RF tag. This is a computer chip that tells the duplicator information about the ink including color and production date. The ink is good for 24 months, when you put a new ink in the machine it will read the computer chip on the RF tag and tell the duplicator when the ink was made. At 24 months the user interface will alert the user when the ink is about to expire or running low. If the ink is a non OEM ink it will ask the user to manually enter the expiration date at each power on cycle.

iQuality System New Features

- Identifies date of supplies and when they are going to expire

- If machine cannot read the expiration date from the ink cartridge's RF tag the user will be asked to enter supply date at each power on cycle

- Designed to improve overall operation efficiency, print quality, and customer satisfaction
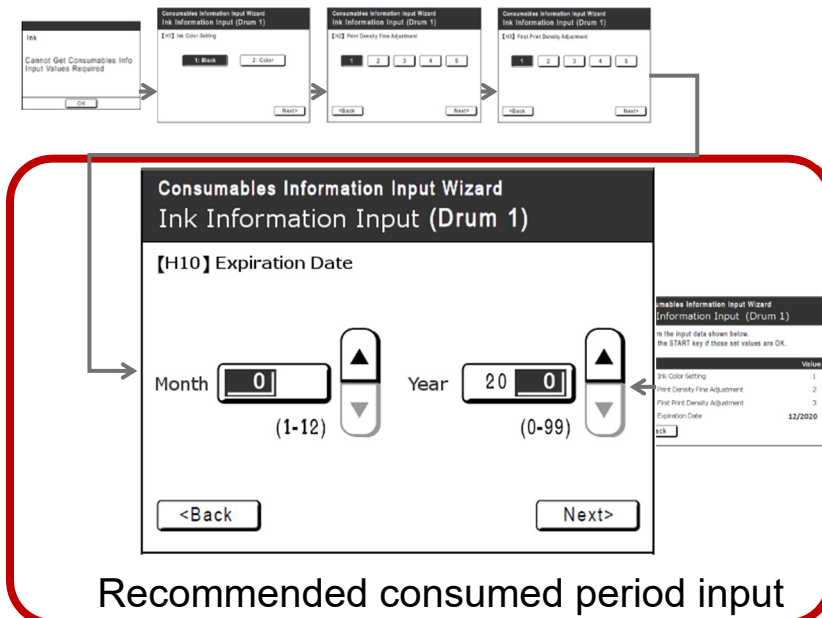
Recommended consumed period input

SF Series Line Up

Product	Previous Model	Resolution	Print Size	Print Speed	Operation Panel
SF9450	EZ591	600x600 DPI (Previously 300x600)	Ledger	150 ppm (Previous 130 ppm)	Full Color LCD Panel
SF5450	EZ391	300x600 DPI	Ledger	130 ppm	Monochrome
SF5130	EZ221	300x600 DPI	Letter/Legal	130 ppm	Monochrome

Shaded cells represent improved function from EZ Series

Model	SF 9450	SF5450	SF5130
Print Speed	150	150	130
Print Resolution	R600	D600	D600
Scan Resolution	600 x 600 dpi	600 x 600 dpi	600 x 600 dpi
Operation Panel	Color Touch Panel	Monochrome	Monochrome
PC-IF (Lan)	Standard	Standard	Optional
PC-IF (USB)	Standard	Standard	Standard
USB Memory Print	Standard	Standard	Standard
SD Card Slot	Standard	N/A	N/A
Quick Master Making Time (A3, A4)			
Normal Master Making Time (A3, A4)			
Print Size A3, Ledger	Yes	Yes	Yes
Print Size Legal	Yes	Yes	Yes
Print Size A4, Letter	Yes	Yes	Yes

Specs to win

Model	RISO		DUPLO	RICOH
	SF9450	EZ5	DP-F550	4450C
Resolution (dpi)	600×600	300×600	300 × 600	400 × 600
Print Speed (ppm)	150	130	130 (150) ※Less than B4	130
Operation Panel	Full Color (Touch Panel)	Monochrome (Touch Panel)	Monochrome No Touch Panel	Monochrome No Touch Panel
Master Making Time Letter LEF	16 Sec. 14Sec.(Quick Master Making)	16 Sec.	18 Sec.	19 Sec.
Master Making Time Letter SEF	20 Sec. 18 Sec.(Quick Master Making)	20 Sec.	20 Sec.	20 Sec.
PC Interface (LAN)	Standard	Option	Option	Standard
PC Interface (USB)	Standard	Standard	Standard	Standard
USB memory print	Yes	Yes	N/A	N/A

SF Series Options

- New options for SF Series

    - RISO SF50/30 Drum (A3, Ledger, B4, A4W, Legal, A4/Letter)

    - RISO Stand III (D Type –w/door, N Type –No door)

    - RISO Auto Document Feeder VII

    - RISO Network Kit RG

    - IC Card Activation Kit RG

- Usable current options on SF series

    - IS300

    - Job Separator

    - Wide Staking Tray

    - Key Card Counter

- Existing options that cannot use by SF series

    - RISO EZ Drum

- o RISO Network Card
- o RISO Auto Document Feeder VI
- o DM128CF / DM512CF
- o RISO PC Interface Card USB2.0
- o RISO ADMIN, RISO Hold Manager, RISO Monitor
- o RISO accounting manager

Options and Accessories Compatibility Chart

		SF9450	SF5450	SF5130	EZ5	EZ3	EZ2	SE	ME
New	RISO SF50/30 Drum (A3, Ledger, B4, A4W, Legal, A4/Letter)	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A
	RISO Stand III (D Type, N type)	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A
	RISO Auto Document Feeder VII	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A
	RISO Network Kit RG	Standard	Standard	Yes	N/A	N/A	N/A	N/A	N/A
	IC Card Activation Kit RG	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A
	SD Card Function *SD card is not option	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Existing	IS300	Yes	N/A	N/A	Yes	N/A	N/A	Yes	Yes
	Job Separator IV: NIII	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Wide Stacking Tray	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Key Card Counter IV: N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	RISO EZ Drum	N/A	N/A	N/A	Yes	Yes	N/A	N/A	N/A
	RISO EZ2 Drum	N/A	N/A	N/A	N/A	N/A	Yes	N/A	N/A
	RISO Network Card	N/A	N/A	N/A	Yes	Yes	Yes	Standard	Standard
	RISO PC Interface Card USB2.0	N/A	N/A	N/A	Yes	Yes	Yes	Standard	Standard
	AUTO DOCUMENT FEEDER AF-VI II	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes
	AUTO DOCUMENT FEEDER DX-I	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Yes
	Memory Card DM128CF/DM512CF	N/A	N/A	N/A	Yes	N/A	N/A	Yes	Yes
	RISO Accounting Manager	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes

SF9450 Specifications

Master Making/Printing Methods		High-speed digital master-making/Fully automatic printing
Original Type		Book or sheet
Master Making Time*1	Quick Master Making Mode	Approx. 15 seconds (Letter, long-edge feed) Approx. 17 seconds (Letter, short-edge feed)
	Normal Master Making Mode	Approx. 17 seconds (Letter, long-edge feed) Approx. 19 seconds (Letter, short-edge feed)
Resolution	Scanning	600 dpi x 600 dpi
	Printing	600 dpi x 600 dpi, Quick Master Making mode: 600 dpi x 400 dpi
Maximum Scanning Area		11 11/16 x 17 inches (297 mm x 432 mm)
Print Paper Weight		12-lb bond to 42-lb bond (46 gsm to 157 gsm)
Print Paper Size*2		3 15/16 inches x 5 13/16 inches to 12 7/32 inches x 17 inches (100 mm x 148 mm to 310 mm x 432 mm)
Maximum Printing Area		11 15/32 inches x 16 23/32 inches (291 mm x 425 mm)
Paper Feed Tray Stacking Capacity		1000 sheets*3, stacking height of 4 11/32 inches (110 mm or lower)
Paper Receive Tray Stacking Capacity		1000 sheets*3, stacking height of 4 11/32 inches (110 mm or lower)
Print Speed		6 levels: 60, 80, 100, 120, 130 and 150ppm*4
Print Position Adjustment		Horizontal: +- 19/32 inches, Vertical +- 13/32 inches (Horizontal +- 15 mm, Vertical +- 10 mm)
Image Processing Mode		Line, Photo (Standard/Portrait), Duo (standard/Line/Photo), Pencil (Darker/Lighter)
Print Reproduction Ratio		Type: inch Zoom: (50% to 200%), Free, 100% reduction ratio, Margin + (90% to 99%), 4 levels of enlargement (200%, 154%, 129%, 121%), 4 levels of reduction (78%, 65%, 61%, 50%) Type: mm Zoom: (50% to 200%), Free, 100% reduction ratio, Margin + (90% to 99%) 4 levels of enlargement (1635, 141%, 122%, 116%), 4 levels of reduction (87%, 82%, 71%, 61%)
User Interface		LCD panel
Functions		Original Scanning mode, Scanning Level, Enlargement/Reproduction, Dot Process, 2-Up, Book, Ink Saving, Quick Master Making, ADF-Semi-Auto*5, Speed, Density, Print Position, Program A/B, Job Separation*5, Idling, Confidential, Meter Display, Count Report Output. Proof, Direct Printing, USB Flash-via-Printing, Auto Sleep Setting, Auto Power-Off Setting, ECO mode, RISO iQuality System
Ink Supply		Full automatic (1000 ml/cartridge)
Master Supply/Disposal		Full automatic (Legal: approx. 215 sheets per roll)/ Disposal capacity: approx. 100 sheets
Power Source		AC 100-120 V 3.4A, AC 220-240 V 1.6A, 50-60Hz
Power Consumption	Standard	Max: 300 W, Ready: 20 W or lower, Sleep: 5 W or lower, Power-Off: 0.5 W or lower
	Optional Accessories Connected*6	Max: 315 W, Ready: 30 W or lower, Sleep: 10 W or lower, Power-Off: 0.5 W or lower
Dimensions (W x D x H)	In Use	55 23/32 inches x 26 3/8 inches*7 x 41 15/16 inches*8 (1415 mm x 670 mm*7 x 1065 mm*8)
	In Storage	30 23/32 inches x 26 3/8 inches*7 x 41 15/16 inches*8 (780 mm x 670 mm*7 x 1065 mm*8)
Required Space (W x D x H)		55 23/32 inches x 48 13/16 inches x 59 21/32 inches*8 (1415 mm x 1240 mm x 1515 mm*8)
Weight		225 lb (101 kg)*9
Safety Information		IEC-60950-1 compliant, indoor, pollution degree 2*10, at altitude of 2000 m or lower

*1 Measurement value when set to 100% reproduction ratio
*2 When the optional Wide Stacking Tray is installed, you can use paper up to a size of 12 7/32 inches x 21 27/32 inches (310 mm x 555 mm) by setting [Custom Paper Entry].
*3 When using the following weight of paper: 17-lb bond to 21-lb bond (64 gsm to 80 gsm)
*4 If the temperature of the inside of the print drum (cylinder) is less than 59°F (15°), [150 ppm] is not usable.
*5 Optional accessories required
*6 When all the following optional accessories are installed. Auto Document Feeder, Job Separator Key/Card Counter
*7 The depth does not include the stabilizers for the stand.
*8 The height includes the stand.
*9 The weight does not include the ink, master roll, and stand.
*10 The pollution degree of the usage environment do to dirt and dust in the air. Degree "2" corresponds to a general indoor environment.
Notes: The specifications are subject to change without prior notice.

SF5450 Specifications

Master Making/Printing Methods		High-speed digital master-making/Fully automatic printing
Original Type		Book or sheet
Master Making Time*1	Quick Master Making Mode	Approx. 15 seconds (Letter, long-edge feed) Approx. 17 seconds (Letter, short-edge feed)
	Normal Master Making Mode	Approx. 17 seconds (Letter, long-edge feed) Approx. 19 seconds (Letter, short-edge feed)
Resolution	Scanning	600 dpi x 600 dpi
	Printing	300 dpi x 600 dpi, Quick Master Making mode: 300 dpi x 400 dpi
Maximum Scanning Area		11 11/16 x 17 inches (297 mm x 432 mm)
Print Paper Weight		12-lb bond to 42-lb bond (46 gsm to 157 gsm)
Print Paper Size		3 15/16 inches x 5 13/16 inches to 12 7/32 inches x 17 inches (100 mm x 148 mm to 310 mm x 432 mm)
Maximum Printing Area		11 15/32 inches x 16 23/32 inches (291 mm x 425 mm)
Paper Feed Tray Stacking Capacity		1000 sheets*2, stacking height of 4 11/32 inches (110 mm or lower)
Paper Receive Tray Stacking Capacity		1000 sheets*2, stacking height of 4 11/32 inches (110 mm or lower)
Print Speed		6 levels: 60, 80, 100, 120, 130 and 150ppm*3
Print Position Adjustment		Horizontal: +- 19/32 inches, Vertical +- 13/32 inches (Horizontal +- 15 mm, Vertical +- 10 mm)
Image Processing Mode		Line, Photo, Duo, Pencil
Print Reproduction Ratio		Type: inch Zoom: (50% to 200%), Free, 100% reduction ratio, 3 levels of enlargement (154%, 129%, 121%), 4 levels of reduction (94%, 78%, 65%, 61%) Type: mm Zoom: (50% to 200%), Free, 100% reduction ratio, 3 levels of enlargement (141%, 122%, 116%), 4 levels of reduction (94%, 87%, 82%, 71%)
User Interface		LCD panel
Functions		Original Scanning mode, Scanning Level, Enlargement/Reproduction, Dot Process, 2-Up, Book, Ink Saving, Quick Master Making, ADF-Semi-Auto*4, Speed, Density, Print Position, Program A/B, Job Separation*4, Idling, Confidential, Meter Display, Count Report Output. Proof, Direct Printing, USB Flash-via-Printing, Auto Sleep Setting, Auto Power-Off Setting, ECO mode, RISO iQuality System
Ink Supply		Full automatic (1000 ml/cartridge)
Master Supply/Disposal		Full automatic (Legal: approx. 215 sheets per roll)/ Disposal capacity: approx. 100 sheets
Power Source		AC 100-120 V 3.4A, AC 220-240 V 1.6A, 50-60Hz
Power Consumption	Standard	Max: 300 W, Ready: 20 W or lower, Sleep: 5 W or lower, Power-Off: 0.5 W or lower
	Optional Accessories Connected*5	Max: 315 W, Ready: 30 W or lower, Sleep: 10 W or lower, Power-Off: 0.5 W or lower
Dimensions (W x D x H)	In Use	55 23/32 inches x 26 3/8 inches*5 x 41 15/16 inches*6 (1415 mm x 670 mm*5 x 1065 mm*7)
	In Storage	30 23/32 inches x 26 3/8 inches*5 x 41 15/16 inches*6 (780 mm x 670 mm*5 x 1065 mm*7)
Required Space (W x D x H)		55 23/32 inches x 48 13/16 inches x 59 21/32 inches*6 (1415 mm x 1240 mm x 1515 mm*7)
Weight		223 lb (101 kg)*8
Safety Information		IEC-60950-1 compliant, indoor, pollution degree 2*9, at altitude of 2000 m or lower

*1 Measurement value when set to 100% reproduction ratio
*2 When using the following weight of paper: 17-lb bond to 21-lb bond (64 gsm to 80 gsm)
*3 If the temperature of the inside of the print drum (cylinder) is less than 59°F (15°), [150 ppm] is not usable.
*4 Optional accessories required
*5 When all the following optional accessories are installed. Auto Document Feeder, Job Separator Key/Card Counter
*6 The depth does not include the stabilizers for the stand.
*7 The height includes the stand.
*8 The weight does not include the ink, master roll, and stand.
*9 The pollution degree of the usage environment do to dirt and dust in the air. Degree "2" corresponds to a general indoor environment.
Notes: The specifications are subject to change without prior notice.

SF5130 Specifications

Master Making/Printing Methods		High-speed digital master-making/Fully automatic printing
Original Type		Book or sheet
Master Making Time*1	Quick Master Making Mode	Approx. 17 seconds (Letter, short-edge feed)
	Normal Master Making Mode	Approx. 19 seconds (Letter, short-edge feed)
Resolution	Scanning	600 dpi x 600 dpi
	Printing	300 dpi x 600 dpi, Quick Master Making mode: 300 dpi x 400 dpi
Maximum Scanning Area		11 11/16 x 17 inches (297 mm x 432 mm)
Print Paper Weight		12-lb bond to 42-lb bond (46 gsm to 157 gsm)
Print Paper Size		3 15/16 inches x 5 13/16 inches to 12 7/32 inches x 17 inches (100 mm x 148 mm to 310 mm x 432 mm)
Maximum Printing Area		8 ¼ inches x 14 1/16 inches (210 mm x 357 mm)
Paper Feed Tray Stacking Capacity		1000 sheets*2, stacking height of 4 11/32 inches (110 mm or lower)
Paper Receive Tray Stacking Capacity		1000 sheets*2, stacking height of 4 11/32 inches (110 mm or lower)
Print Speed		5 levels: 60, 80, 100, 120 and 130 ppm
Print Position Adjustment		Horizontal: +- 19/32 inches, Vertical +- 13/32 inches (Horizontal +- 15 mm, Vertical +- 10 mm)
Image Processing Mode		Line, Photo, Duo, Pencil
Print Reproduction Ratio		Type: inch Zoom: (50% to 200%), Free, 100% reduction ratio, 3 levels of enlargement (154%, 129%, 121%), 4 levels of reduction (94%, 78%, 65%, 61%) Type: mm Zoom: (50% to 200%), Free, 100% reduction ratio, 3 levels of enlargement (141%, 122%, 116%), 4 levels of reduction (94%, 87%, 82%, 71%)
User Interface		LCD panel
Functions		Original Scanning mode, Scanning Level, Enlargement/Reproduction, Dot Process, 2-Up, Book, Ink Saving, Quick Master Making, ADF-Semi-Auto*3, Speed, Density, Print Position, Program A/B, Job Separation*3, Idling, Confidential, Meter Display, Count Report Output. Proof, Direct Printing, USB Flash-via-Printing, Auto Sleep Setting, Auto Power-Off Setting, ECO mode, RISO iQuality System
Ink Supply		Full automatic (1000 ml/cartridge)
Master Supply/Disposal		Full automatic (Legal: approx. 250 sheets per roll)/ Disposal capacity: approx. 100 sheets
Power Source		AC 100-120 V 3.4A, AC 220-240 V 1.6A, 50-60Hz
Power Consumption	Standard	Max: 300 W, Ready: 20 W or lower, Sleep: 5 W or lower, Power-Off: 0.5 W or lower
	Optional Accessories Connected*4	Max: 315 W, Ready: 30 W or lower, Sleep: 10 W or lower, Power-Off: 0.5 W or lower
Dimensions (W x D x H)	In Use	55 23/32 inches x 26 3/8 inches*5 x 41 15/16 inches*6 (1415 mm x 670 mm*5 x 1065 mm*6)
	In Storage	30 23/32 inches x 26 3/8 inches*5 x 41 15/16 inches*6 (780 mm x 670 mm*5 x 1065 mm*6)
Required Space (W x D x H)		55 23/32 inches x 48 13/16 inches x 59 21/32 inches*6 (1415 mm x 1240 mm x 1515 mm*6)
Weight		221 lb (100 kg)*7
Safety Information		IEC-60950-1 compliant, indoor, pollution degree 2*8, at altitude of 2000 m or lower

*1 Measurement value when set to 100% reproduction ratio
*2 When using the following weight of paper: 17-lb bond to 21-lb bond (64 gsm to 80 gsm)
*3 Optional accessories required
*4 When all the following optional accessories are installed. Auto Document Feeder, Job Separator Key/Card Counter
*5 The depth does not include the stabilizers for the stand.
*6 The height includes the stand.
*7 The weight does not include the ink, master roll, and stand.
*8 The pollution degree of the usage environment do to dirt and dust in the air. Degree "2" corresponds to a general indoor environment.
Notes: The specifications are subject to change without prior notice.

SF Series Item Numbers

Description	Product Code	Unit of Measure
SF9450U RISO SF9450U (100-120V/220-240V) WITH LG/A3 DRUM Ships with stand (S-4308FM).	S-7154U	Each
SF5450U RISO SF5450U (100-120V/220-240V) WITH LG/A3 DRUM Ships with stand (S-4308FM).	S-7155U	Each
SF5130U RISO SF5130U (100-120V/220-240V) WITH LEGAL DRUM Ships with stand (S-4307FM).	S-7158U	Each
Print Cylinders		
RISO SF50/30 Drum Ledger/A3 For black or color ink	S-7141U	Each
RISO SF50 Drum A4/Letter W A7:A10 Compatible with SF9450 only. Letter size cylinders have a 10.92" x 8.36" image area.	S-7143W	Each
RISO SF30 Drum Legal For black or color ink	S-8092W	Each
System Controller		
IC CARD READER ACTIVATION KIT RG *Comes with the SF9450/SF5450. For replacement purposes only. Users can add optional network card for network connectivity.*	S-8112G	Each
RISO Controller IS300	S-2768G	Each
RISO NETWORK KIT S10 *Required for networking. For SF/EZ series and MZ790/RZ990 only*	S-8111G	Each
Mac Driver for MZ/RZ/SF/EZ Series Macintosh driver for OS X10.4, 10.5 and 10.6	S-7624	Each
Automatic Document Feeder RISO AUTO DOCUMENT FEEDER AF-VII	S-7135	Each
Job Separator IV: NIII (for SF/EZ/MZ/RZ)	S-6361	Each
Colored Tape (132 ft. per roll - 12" length strips).	S-631	Pack/10
Key Card Counter Key Card Counter IV: N (ships with first 30 cards) *Requires Mounting Bracket MH for Counter IV (112-50002-000)*	S-4309	Each
Stand		
SF/EZ/RZ Replacement Stand *SF9450/SF5450 ships with stand included. Only to be purchased as a replacement unit.B35*	S-4308FM	Each
SF/EZ/RZ Replacement Stand *SF5130 ships with stand included. Only to be purchased as a replacement unit.*	S-4307FM	Each
Other Accessories		
Card Feed Kit See SF-EZ-RZ-MZ Accessories pages and Accessories Compatibility Chart for more details.	S-3451	Each
SF Master		
SF9450/SF5450 215 masters per roll	S-6948UA	Two rolls per box
SF5130 250/295 masters per roll	S-6977UA	Two rolls per box.
SF Black Ink **SF9450/SF5450/SF5130**	S-6930U	Two cartridges per box.