Digital duplicator

Multicolored Force

Single-pass, two-color printing offers benefits beyond your expectations

RISO

MF 9450

Ledger/150 ppm/600 x 600 dpi/Full-color LCD touch panel/
Versatile connectivity
High-quality two-color printing makes RISO your ideal partner

RISO is renowned globally for the reliability of its digital duplicators. It is the only company in the world that offers two-color digital duplicators, and is now proud to introduce its most advanced two-color model yet. The MF9450 sets a new gold standard for productivity, cost performance, image quality and operability. Its two-drum layout makes two-color printing faster and easier than ever, with versatile options that are suitable even for small-volume print runs.
DOUBLE IMPACT: Two-color printing with 600x600 dpi resolution

EASY TWO-COLOR PRINTING OPERATION: Intuitive interface for single-pass printing

HIGH PRODUCTIVITY: 150 ppm high-speed printing
“We don’t need an expensive full-color printer, but we want well-defined, impressive prints in two colors…”

RISO MF series comes with dual drums, offering high-speed, two-color printing with a professional-looking finish.

Single-pass process for high-speed, two-color printing
RISO MF series employs a single-pass layout, for faster and more efficient two-color printing. Unlike using single-color digital duplicators for two-color output, there’s no need to wait for ink to dry, reinsert paper or change drums.

Two colors to create impressive photo images and enrich your communication
RISO MF series lets you communicate your ideas quickly, beautifully, and usefully. Photos and illustrations can be reproduced with more-defined colors to enhance your power of expression.

Easier master-making with improved color separation function
The MF series makes it simple to create conventional two-color masters (Color Separation, Specified Area, Separation Sheet, Color Editor), but its color separation function has also been greatly improved (available only for scanned documents). Just scan your originals, and you can use the touch panel to specify which areas should be in which color. Color separations can be selected from red/black, green/black, blue/black, warm/cold, and chromatic/achromatic. What’s more, sections of an original document that would previously often have been misjudged regarding the color can now be correctly reproduced.

* Arrows indicate ink color.
RISO offers outstanding image quality, providing better images and text with details and smooth gradations.

Image data processing raises the bar for 600x600 dpi scanning and printing
This achieves sharp and clear output with the highest image quality.

Enhanced features for clearer output
High scanning quality
The newly designed scanner attains smooth tonal gradation even with photo images.
• Reduced blown-out highlights via equalized dot description

Improved image-processing function
Decreases image deterioration through improved image processing, delivering clearer output.
• Minimizes blocked-up shadows through enhanced gamma correction
• Sharp outlines with contour enhancement achieved

Ink color variations
21 standard colors, 50 custom colors and special order-made colors are available. A wide range of printing colors can meet the needs of a variety of print jobs.

Upgraded high-definition masters: RISO MASTER F TYPE HG
More precise master copies can be made for reproducing subtle color gradations, clear photo images and even text written in pencil.

Other various functions for optimum output
• Auto base control
• Tone smooth function
• Four image-processing modes: Line, Photo, Duo, and Pencil
“I wonder if we need a professional operator to run digital duplicators…”

RISO enables simple operation for anyone through its easy-to-master panel and interface design.

Redesigned, full-color control panel
New, easy-to-use control panel provides intuitive operation. Functions for printing, copying, scanning and managing data are all at your fingertips, logically arranged for intuitive operation on a large 7-inch color LCD touch screen.

Various printing approaches
The MF series offers various ways of printing, depending on your specific requirements.
• Standard equipment of PC-I/F
• Direct printing from a USB flash drive
• General SD card compatible for data storage

Print Preview
Scanned documents can be viewed and edited on the LCD panel. This is convenient for confirming the output and avoiding printing errors.

RISO console
The total management system improves convenience by integrating applications in one place. Product, consumables and system information can all be checked easily on your PC.

Preview and Edit to ensure the desired printing result
Using the printer driver installed on your PC, you can assign colors of your choice to documents when printing in two colors by clicking on the Preview and Edit feature box on the PC screen.

Usage report
The MF series provides RISO Copy Count Viewer for counting users’ printouts, useful for understanding expenses and usage restriction. The aggregate results are available via printout, USB flash drive or email.
RISO offers outstanding productivity through high speed and low cost even for a wide variety of short-run prints.

**High-speed, two-color printing at 150 ppm**
Achieving 1000 pages printed in approx. 7 minutes, this surprisingly rapid rate will efficiently support your heavy paperwork requirements.

<table>
<thead>
<tr>
<th>B&amp;W Photocopiers/Laser Printers (40 ppm)</th>
<th>MF9450</th>
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<tbody>
<tr>
<td>25 minutes</td>
<td>7 minutes</td>
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**Quick Master Making mode**
A new function, Quick Master Making mode, shortens the master-making time while still maintaining high image quality.

**Heavy-load paper feeding**
The paper trays have a capacity of 1000 sheets for both feeding and receiving, which ensures uninterrupted printing over a longer period.

*When using the following weight of paper: 17-lb bond to 21-lb bond (64gsm to 80gsm)*

**Versatile paper handling capability**
The MF series plays multiple roles, accepting a wide range of paper types such as recycled paper, coarse paper, cards and envelopes.

**Overwhelmingly economical print costs**
The MF series makes prints from a master. As a result, the more pages generated from each master the lower the cost per print, making it highly economical for medium- to high-volume printing.

**Energy Saving**
Energy system with low power consumption.
The MF series consumes 1/10th the energy, compared with ENERGY STAR guidelines.

* ENERGY STAR qualified and RoHS certified
* Complies with the ErP directive in Europe

**Rice bran oil ink**
The rice bran oil ink contributes to environment sustainability. Rice bran, which would be otherwise wasted, is a raw material with no VOCs, so after the oil is extracted for the ink. It can subsequently be used as fertilizer or animal feed.

**Heartful: Environmental**
“The environment is very important to us...”

RISO strongly cares about global environmental issues as well.
Specifications

Master Making / Printing Methods
High-speed digital master-making/Fully automatic printing

Original type
Book or Sheet

Master Making Time (Letter short edge feed)

Quick Master Making Mode
Dual color print: approx. 53 seconds
Mono color print with drum (cylinder) 1: approx. 22 seconds
Mono color print with drum (cylinder) 2: approx. 32 seconds

Normal Master Making Mode
Dual color print: approx. 57 seconds
Mono color print with drum (cylinder) 1: approx. 24 seconds
Mono color print with drum (cylinder) 2: approx. 34 seconds

Resolution
Scanning
600 dpi × 1200 dpi
Printing
600 dpi × 600 dpi, Quick Master Making Mode: 600 dpi × 4800 dpi

Maximum Scanning Area
11.15/16 inches × 17 inches (297 mm × 432 mm)

Print paper weight
12-lb bond to 116-lb index (46 gsm to 210 gsm)

Print Paper Size
Dual color print: Ledger, Letter, Legal, B5, A4, B4, A3, Foolscap
Mono color print with drum (cylinder) 1: Standard: Ledger, Letter, Legal, Statement, B5, B4 (long edge feed), A4, A4 (long edge feed), B4, A3, Foolscap
Mono color print with drum (cylinder) 2: Standard: Ledger, Legal, B5, A4, B4, A3, Foolscap

Maximum Printing Area
11 15/32 inches × 16 23/32 inches (297 mm × 432 mm)

Paper Receiving Tray Capacity
1000 sheets (stacking height of 4 11/32 inches [110 mm] or less)

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Print Speed
6 levels: 60, 80, 100, 120, and 150 (High Speed)

Print Position Adjustment
Horizontal: ±1/32 inches, Vertical: ±13/32 inches (Horizontal: ±15 mm, Vertical: ±10 mm)

Image Processing Mode
Line, Photo (Standard/Portrait), Duo (Standard/Line/Photo/Shadow off), Pencil (Barker/Lighter)

Print Reproduction Ratio
Zoom (50% to 200%), Free, 100% reduction ratio, Margin+ (90% to 99%), Enlargement (200%, 104%, 129%, 121%), Reduction (78%, 65%, 61%, 50%)

User Interface
Color touch panel

Functions

PC Interface
USB2.0, Ethernet: 10BASE-T/100BASE-TX

Ink Supply
Full automatic (1000 ml/ cartridge)

Master Supply/Disposal
Full automatic (Ledge: approx. 215 sheets per roll/Disposal capacity: approx. 80 sheets)

Power Source
AC 100-240 V, 50-60 Hz 2.3±0.6 A

Power Consumption
Maximum: 630 W (AC 100-120V), 580 W (AC 220-240V), Ready: 50 W or lower, Sleep: (Standard) 5 W or lower, (Low) 0.5 W or lower, Power-Off: 0.5 W or lower

Dimensions (WxDxH)*1
In use
67 13/32 inches × 28 15/16 inches × 43 33/64 inches (1715 mm × 735 mm × 1115 mm)

Required Space (W×D×H)
67 13/32 inches × 26 15/16 inches × 43 33/64 inches (1715 mm × 630 mm × 1115 mm)

Weight*2
Approx. 362 lb (164 kg)

*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 13 3/8 inches × 27 21/32 inches (340mm × 695mm) by setting Custom Paper Entry. *3 The print position may not be stabilized when a Letter, B5 or A4 size sheet is printed in a single color with print drum (cylinder) 2. When printing at [High Speed] and using paper with a horizontal length of less than 3 15/16 inches (84 mm), the print position may not be stabilized. *4 When using the following weight of paper: 17-lb bond to 21-lb bond (64gsm to 80gsm). *5 If the temperature of the inside of the print drum (cylinder) is less than 59°F (15°C) [High Speed] is not usable. In order to use [High Speed] when you print in mono-color mode with print drum (cylinder) 2 while print drum (cylinder) 1 is removed, use paper with a length of 14 11/32 inches to 17 inches (364 mm to 432 mm) in the horizontal direction. *8 Usable when the optional auto document feeder is installed. *10 Usable when the optional Job Separator is installed. *11 When all the following optional accessories are installed: Auto Document Feeder, Job Separator and K. Card Reader *9 The height includes the dedicated rack. *10 The weight does not include the ink, master roll, and rack.

Notes: Specifications are subject to change without notice.

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