Reference Guide

NAVIGATION BOOK

This Reference guide is designed to explain the basic features and functions of the HC5000.
Please take a few moments to familiarise yourself with the printer.

RISO HC5000

Communicate in
Colour
Enhancing Communication
through Colour

ComColor.™ is a RISO innovation for
a "practical, fast and on-demand" printer.
"Become more connected through
the World of ComColor™."
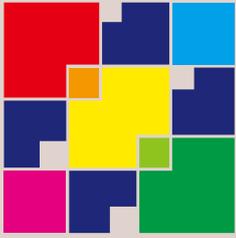
ComColor.™

NAVIGATION BOOK
RISO HC5000

Contents

RISO HC5000 is one of the World's fastest and economical full colour Printer.

HC5000 provides colour printing at an affordable price by using the FORCEJET™ ENGINE.
The core component FORCEJET™ ENGINE combines 4 individual Fixed-Array print heads (YMCK) and high-speed paper feeding capabilities. In addition the HC5000 is equipped with advanced output features such as duplex.
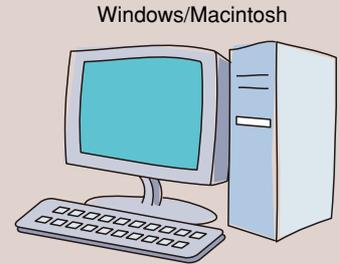
What is ComColor.™ ?

RISO's trademark "ComColor™" is a synthesis of Communication and Colour.

ComColor™ is a new type of printer that satisfies the need for "practical, fast and on-demand" printing for business, as well as for daily life.
The HC5000 will ensure you never have to worry about the high cost and slow printing speed that usually is associated with colour printing.

HC5000 Mechanism

To enable high-speed full-colour printing,
the HC5000 print controller (colour management system: ComColor™ Standard) formats data transferred
from the PC into the most suitable format for the printer.

Windows/Macintosh

Controls ink output and printing speed

FORCEJET™ Engine

Paper

Paper

Paper

Print Controller
(Colour management: ComColor™ Standard)

Order print job
Paper size
Paper Type
Colour Information
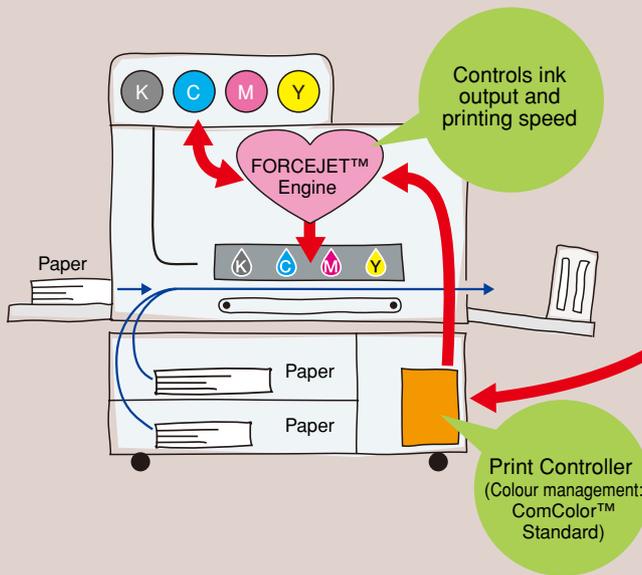
ENGINE TECHNOLOGY
FORCEJET

The "FORCEJET™ ENGINE" is a printing mechanism with a "High Speed Line Ink Jet", and is the heart of the HC5000.
The FORCEJET™ ENGINE was developed to attain the targets of "Full Colour, High Speed, High Durability, and Low Running Cost". Become more connected through the world of ComColor™.

1 INTRODUCTION

Part Names

Ink Compartment Cover

Four different colour cartridges are installed in this compartment. Open this cover to replace an ink cartridge when "Ink Replacement" indicator light up.

📖 **See "Replace the Ink Cartridge" — in this booklet page US/UK-49.**

📖 **See User's Manual for Printer Main Body page 3-16.**

Standard Paper Feed Tray

Heavy paper or custom sized paper (non-standard) needs be loaded into this tray; Paper feed tray 1 and 2 will not accept non-standard sized paper. When not is use, this tray should be kept closed. If unused paper is left on this tray, it will absorb moisture and could cause the paper jamming. It is recommended to return any unused paper back to its original package after printing.

Make sure that you load the paper with the printable side face upward.
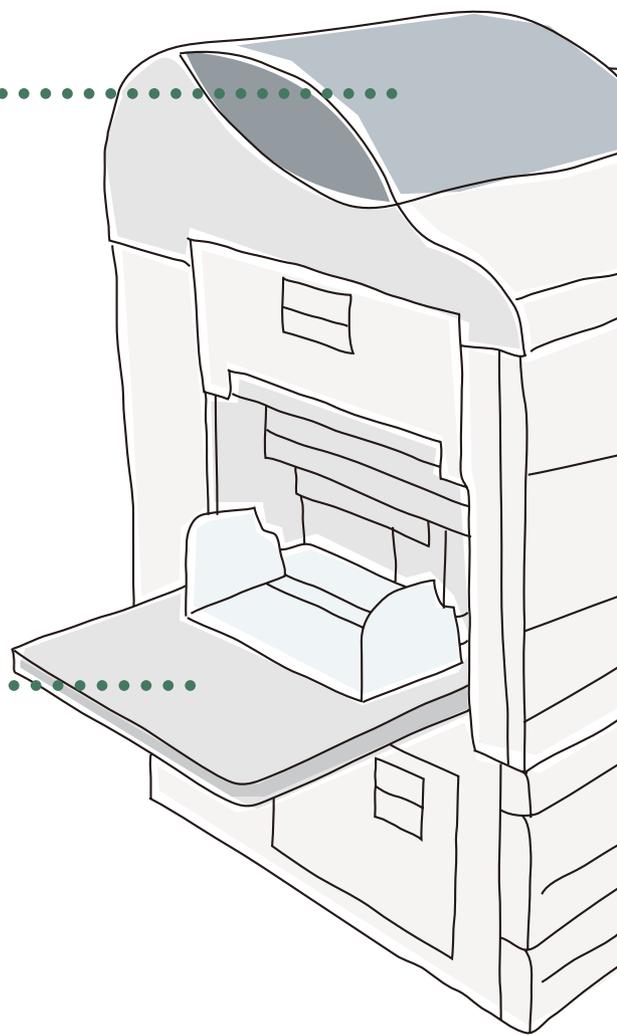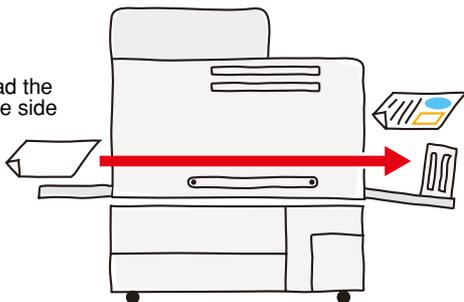
Control Panel

📖 **See "Control Panel" — in this booklet page US/UK-6.**

Main Power Switch and Power Key

The Main Power Switch (located on the right side of the machine) should be kept on. The power can be turned on and off by using the Power Key, which is located on the control panel.
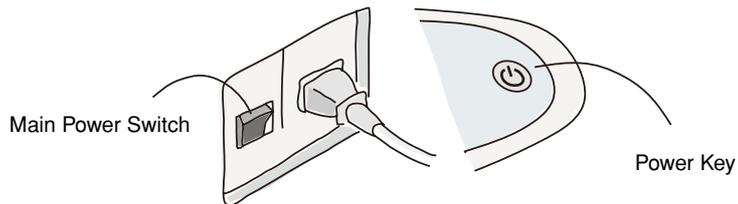
Main Power Switch

Power Key

Stacking Tray

Printed paper is received and stacked on this tray. The paper guides of the stacking tray are adjusted automatically according to the paper size you select (Do not force the paper guide manually).

Stacking guide (side)

Stacking guide (end)
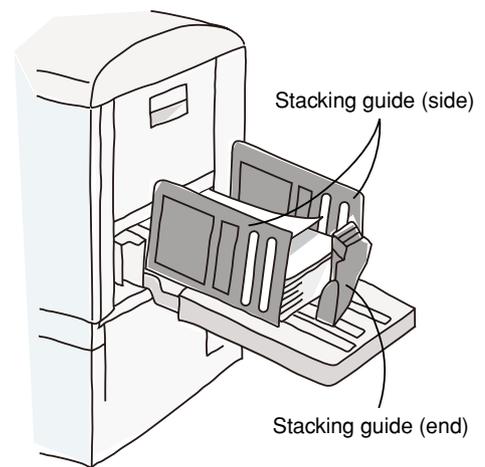
Paper Feed Tray 1/Tray 2

Due to the paper feeding mechanism, avoid loading thick paper which could cause paper jams. For more detail, please refer to the specifications of the recommended paper.
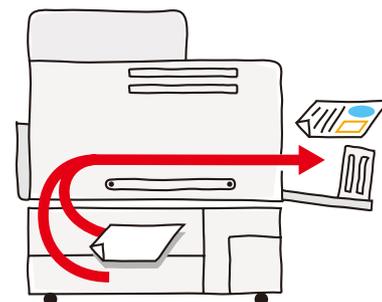
Make sure that you load the paper with the printable side face downward.

Introduction

Control Panel

Use to set the printer and check status.

Remaining Volume Notice Indicators

FORCEJET™ Link Indicator

Message Display

WAKE-UP Key

Ready
Auto

WAKE-UP

INK CARTRIDGE

CHECK SETTINGS

CALL SERVICE

JAM

MAINTENANCE CALL

MENU

CANCEL / BACK

OK

PRINT / PAUSE

Power Key
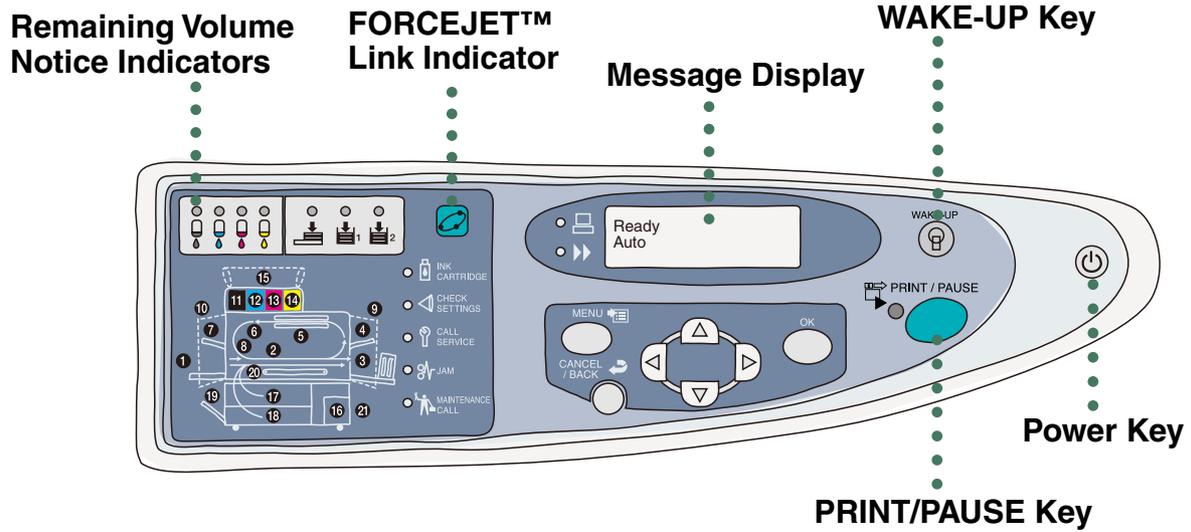
PRINT/PAUSE Key
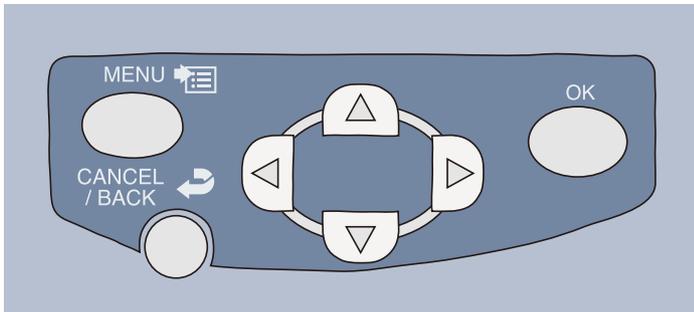
Keys

PRINT/PAUSE Key

Switches Print Mode ON and OFF.

📖 **See "Printing Mode ON/OFF" — in this booklet page US/UK-12.**

MENU Key

Use for "MENU Setting" on the display.

📖 **See User's Manual for Printer Main Body page 2-2.**

Arrow Keys

Use to select the target menu or to change the setting.

OK Key

Confirm a setting.

CANCEL/BACK Key

Explanation of Error Symbols and Display

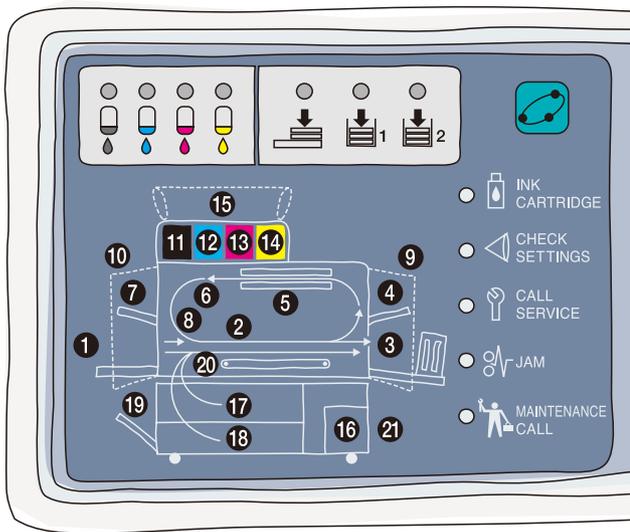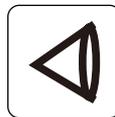If an error occurs during printing, printing stops and an indicator will light up on the Operation Panel. An error message may appear in the display depending on the type of error. Check the display message and error code and follow the recommended procedures listed below.

INK CARTRIDGE

Ink is empty. The Ink cartridge indicated by the light needs to be replaced.

CHECK SETTINGS

Check the location indicated by the light. Some device inside has not correctly been set, or the cover is not securely closed.

CALL SERVICE

Error requiring servicing. If this message persists, write down the error number and contact your local dealer (or service representative).

FORCEJET™ Link Symbol

The FORCEJET™ ENGINE controls printing speed, size and quality of the paper, and the amount of ink used. The symbol shows it is functioning correctly.

📖 **See User's Manual for Printer Main Body page 3-3.**

JAM

Paper jam has occurred. Check the location that the light indicates and remove the jammed paper. A sticker inside the front cover will explain how to remove the paper.

MAINTENANCE CALL

The cleaning tank is full or maintenance is required. Contact your local dealer (or service representative).
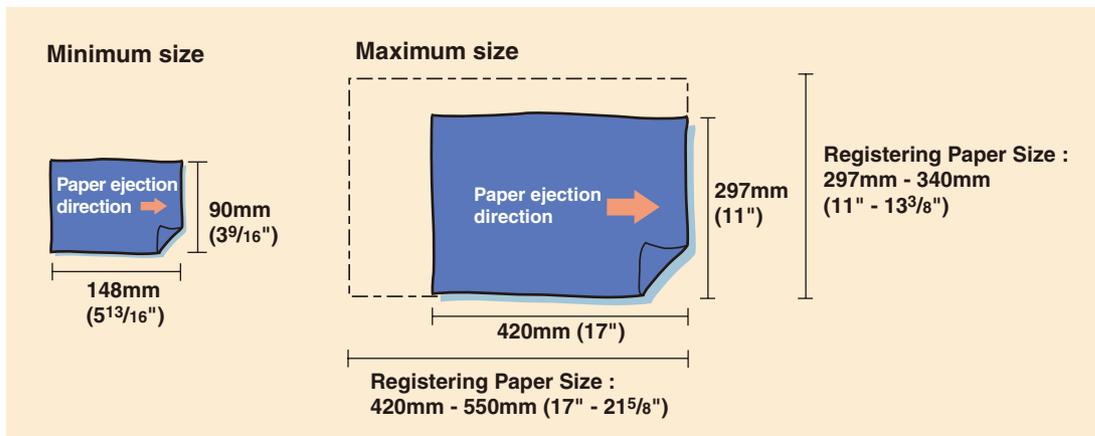
Paper Specifications

Usable Paper:

Paper that conforms to the following restrictions can be used for printing.

• **Paper weight**
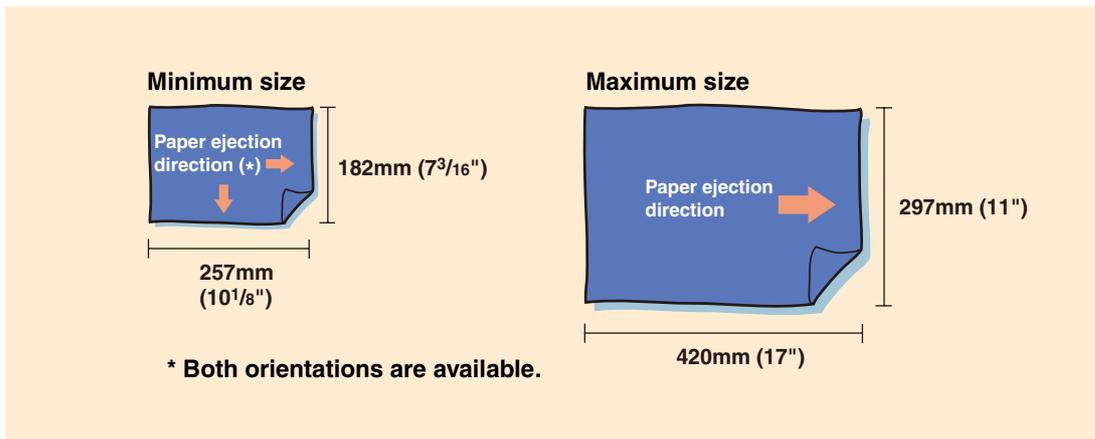
For Standard Paper Feed Tray	46g/m² – 157g/m² (12-lb bond to 42-lb bond)
For Paper Feed Trays	52g/m² – 104g/m² (14-lb bond to 28-lb bond)

• **Paper Sizes That Can Be Used in the Standard Feed Tray**

Minimum size

Maximum size

Paper ejection direction

90mm (3⁹/₁₆")

148mm (5¹³/₁₆")

Paper ejection direction

297mm (11")

420mm (17")

Registering Paper Size :
297mm - 340mm
(11" - 13³/₈")

Registering Paper Size :
420mm - 550mm (17" - 21⁵/₈")

• **Paper Sizes That Can Be Used in Paper Feed Tray 1/Paper Feed Tray 2**

Minimum size

Maximum size

Paper ejection direction (∗)

182mm (7³/₁₆")

257mm (10¹/₈")

∗ Both orientations are available.

Paper ejection direction

297mm (11")

420mm (17")

The following paper should not be used:
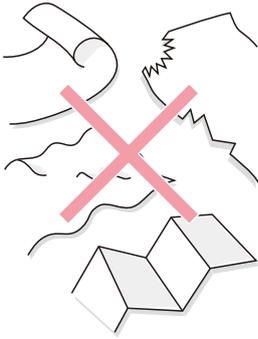
Curled, lipped, waved, folded, wet

Regular inkjet paper

Certain inkjet paper is not suitable for the oil-based ink, such as specialized paper for photos or papers that have glossy surface. Image may not be printed correctly if used.
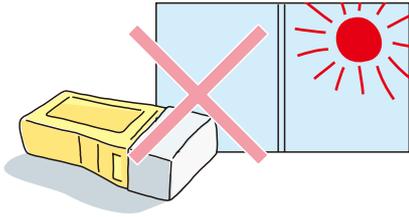

Regular envelopes

You cannot use paper that has flaps on the surface. The surface must be flat.

We provide paper that brings out the best in the machine, for superior quality printing.
Please contact your local dealer (or service representative).

Managing the Cartridge

Do not store The ink for a long period.

Do not expose the ink cartridge to direct sunlight or extreme temperatures. Do not store the ink for a long period of time after purchasing. Use as soon as possible.
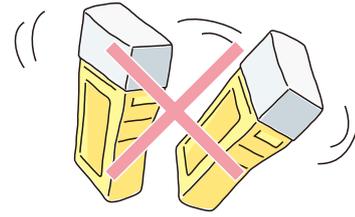
Do not shake.

There is no need to shake the cartridge when you replace it. Shaking creates bubbles inside the cartridge that could cause the print head to clog or affect the colour quality of the print.

Take extreme caution when replacing the ink cartridge.

The oil based pigment ink should be handled carefully to avoid stains. If spilled, immediately use soap to wash off the ink and minimize the risk of a stain.

Air intake cap

Ink feed opening cap
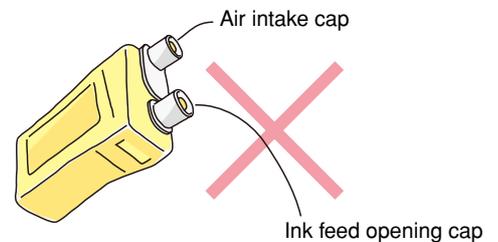
Do not remove the cap.

Although some ink will remain in the cartridge (50ml), do not open the cap. Do not refill with new ink, and do not flush ink down the drain.

Know when to change the cartridge/paper

If the remaining volume of paper in one of the feeding trays or ink in one of the cartridges is low, the relevant Remaining Volume Indicator will light up. For enhanced productivity, prepare paper or ink cartridges for replacement when this occurs.

Black ink is low.

15
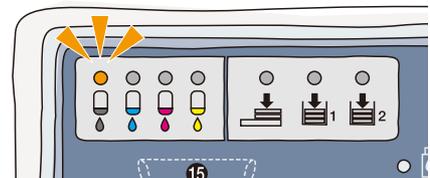
HC5000 Features to Recognize

The HC5000 has some small but important differences when compared to other, ordinary printers. RISO recomends that you learn the characteristics and usage of the HC5000.

Please use recommended oil-based ink and paper.

Personal inkjet printers often use water-based ink. Inkjet paper designed for these printers are developed to maximize the print quality based on the water-based ink used, and not for oil-based ink. The HC5000 is a high-speed full colour printer designed especially for RISO oil-based ink. The advantage of oil-based ink is to have a clear image at a high printing speed. To achieve the best results you should use only recommended paper. When storing the output in a plastic file, use PET made files to retain quality.

Can the printer panel control a printing task?

Usually, we use the printer driver and click the "OK" button on the PC's screen to print. With the HC5000 the process is the same.
However, the HC5000's printing tasks can also be managed through the control panel. For example, the control panel is useful for big volume printing, for changing the paper settings, or to start printing after proof printing has finished.

📖 **See "Useful HC5000 Functions" — in this booklet page US/UK-20.**

Cancel a print-job using [Menu 7 Job Clear]

When you need to stop and cancel printing, press the PRINT/PAUSE Key to stop printing (Printing Mode - Off), and execute [Menu 7 Job Clear]. If the printer has not finished printing the job sent to the printer driver, the CANCEL/BACK Key will not cancel the job. Go to the Menu and select "Job Clear" and then press the PRINT/PAUSE Key again to change to Printing Mode to "ON". Make sure the Printing Mode setting is changed to "ON", otherwise the printer will not print, even if you start another print job from the PC's printer driver.

Margins can be reduced

For its high-speed paper feeding mechanism, the HC5000 has a default 5mm ($3/16$") margin on the top, bottom, left, and right. You can change this margin to 1mm (0.04") by choosing [Maximum] from [Menu 4.10 Image Area].
However, some applications might not allow the setting to be less than 5mm ($3/16$").

Different colour printers have different colour tones

While the three primary colours (RGB: Red, Green, Blue) are used for PC screens and displays, printers define colours in the "three primary printing colours (CMY: Cyan, Magenta, Yellow)". Usually, colours that can be defined with CMY are more limited than those defined by RGB, which makes it is impossible to produce the same colour that you see on the screen. Therefore, to transform RGB to CMY, printers need to use a colour management technique. Every manufacturer's printer has different transformation techniques, and they all use their own original colour chart.
With the basic concept of "low cost, fast, on-demand", the HC5000 focuses on creating matched colour schemes. The HC5000 uses the innovative ComColor™ Standard for colour management.

ComColor™ Standard Features

- **Adjusts colour tone by type of paper.**
- **Adjusts colour tone by Original image (Line-based or Photo-based).**
- **Adjusts colour within a specified colour range to produce the best result for a printed image.**

Using the above features of the HC5000, the paper size and type in the tray should match the setting of the printer driver. If the setting does not match, the printer will not print correctly. The type of ink also has a significant influence on the quality of the print.

HC5000's FORCEJET™ Link Symbol light ⌀ indicates the usage of appropriate ink and correct colour management.
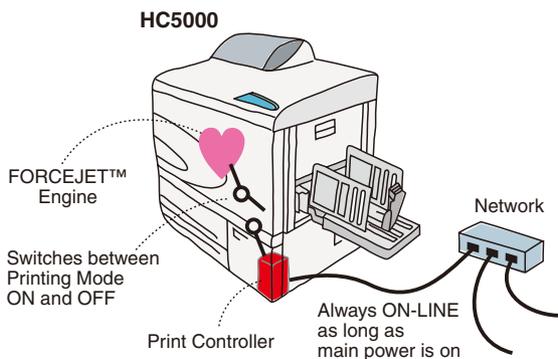
Introduction

Be careful with curled paper

If the paper has more than a 2mm (0.08") curl, correct the curl, or the paper will not pass through the printer.
Paper for the Standard Paper Feed Tray should be taken only from its original package. Any paper remaining after the last print should be placed back in the original package.
Paper left out may curl due to humidity. If the curl is less than 2mm (0.08") and still creates paper jams, flip the paper over so that the curled part faces downwards.

Curl should be less than 2mm (0.08").
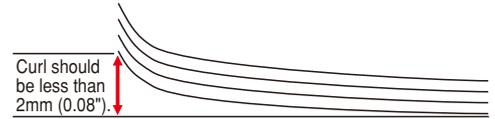
Printing Mode ON/OFF

The [PRINT/PAUSE] Key on the control panel changes the Printing Mode to ON/OFF.
This Printing Mode ON/OFF is different from the ON-LINE/OFF-LINE of other printers.

HC5000

FORCEJET™ Engine

Switches between Printing Mode ON and OFF

Print Controller

Always ON-LINE as long as main power is on

Network

Regular printer

Network

Switches between ON-LINE and OFF-LINE

The HC5000 Print Mode ON/OFF controls the linkage between the FORCEJET™ ENGINE and controller. In other words, the controller will continue receiving data from the pc while it is off.
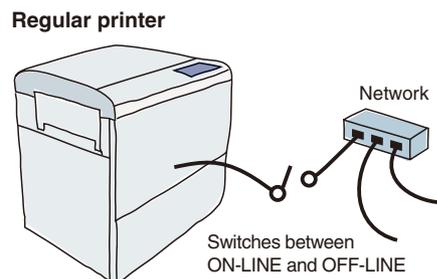
A regular printer's ON-LINE/OFF-LINE switches between the Network and the Print Controller. Therefore, data cannot be sent to the printer while the machine is OFF-LINE.
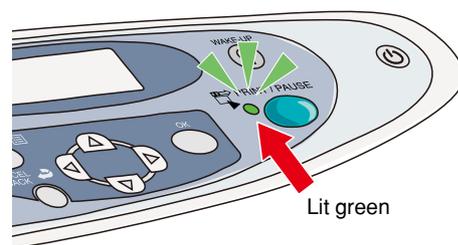
Use the [PRINT/PAUSE] Key on the control panel to switch Printing Mode ON or OFF.
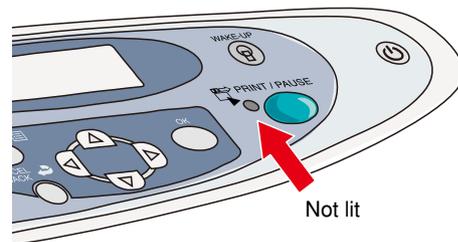
Printing Mode ON

Print controller sends print job.

Printing Mode OFF

Rejects order from the print controller, and accepts order from the control panel. Use the control panel to change settings and to adjust Print Position and Print Density.

Lit green

Printing Mode ON

Not lit

Printing Mode OFF

Duplex Printing = "Switch Back" & "Stackless" system

The HC5000 standard model can perform duplex printing, from postcard size up to A3W size with paper weight of 46g/m^2~157g/m^2 (12-lb bond to 42-lb bond). RISO uses a switch back system: the system reverses the paper after the first side has been printed. To take advantage of fast printing, an Stackless system (the flipped printed paper is immediately sent back to the inkjet heads, without being stacked, to print the second side) is used. Fast and highly efficient duplex printing becomes possible with these systems.

After the first side is printed, the paper will be sent to the Single/Duplex Distributor and then reversed by the Switch Back Paper Guide.
The reversed paper will be inserted between the normal printing papers from the tray and pass under the printer heads again.
According to the printer driver output setting, the paper will then be sent to the stacking tray in the correct order.
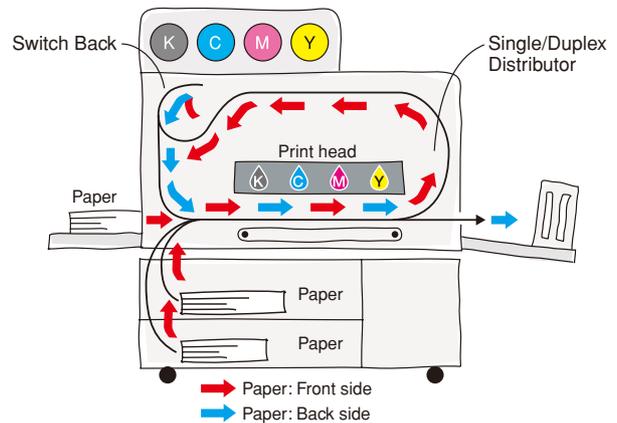
The HC5000 is a Post-Script printer

The standard OS functions – QuickDraw (Mac), GDI (Windows) – and the page description language– PS (Postscript), PCL– are the two major formatting factors for output of data to printers.
The HC5000 is a PS printer that uses PS page description language.
The HC5000 uses it's printer controller to translate data created in a PC (PS data) into a raster image that the printer can print. (The print controller used is Adobe® PostScript® 3™)
Normal printers create a raster image in the OS (i.e. QuickDraw or GDI), and the image is then sent to the printer for printing. Since the raster image of a non-PostScript format relies on the attached output device, the data can print only with the printer that the data was created and formatted for.
However, with a PostScript printer like the HC5000, the PC sends the Post Scripted data to the printer controller, and the printer controller creates a raster image. As the data transfer speed is faster, the PC's resources can be used for the next DTP job immediately, speeding the entire process independent of any output device activities. The PS data is an independent device that can print graphics and text in exactly the same way with any Post Script output device.
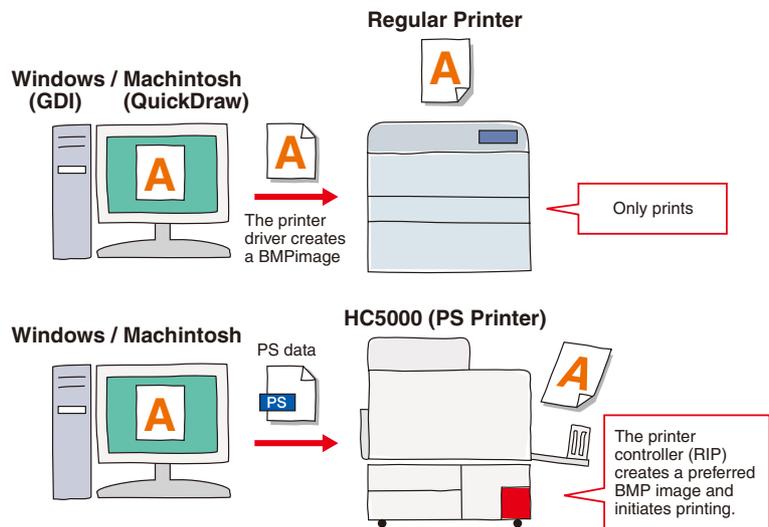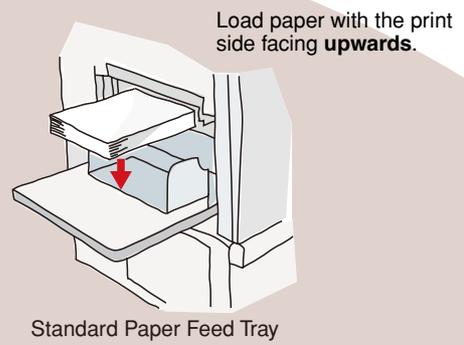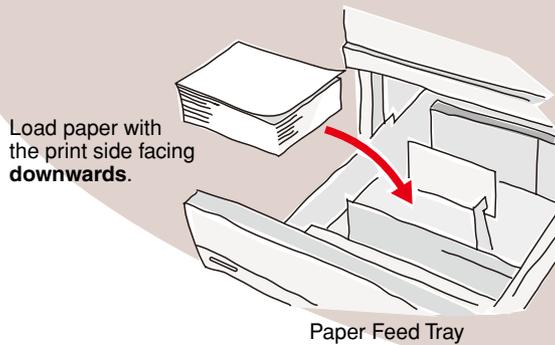
2 Let's Print

Printing Process Overview

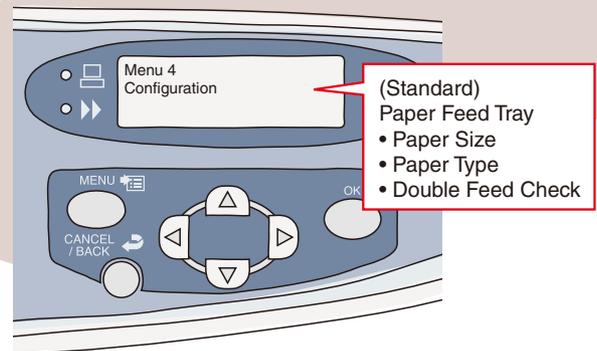This booklet describes steps for Windows use.

1 Load paper

Load paper into the tray.

Load paper with the print side facing **downwards**.
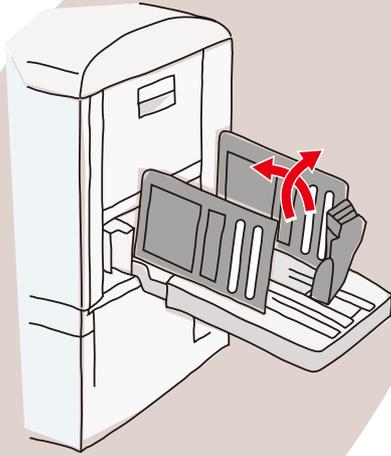
Load paper with the print side facing **upwards**.

Paper Feed Tray

Standard Paper Feed Tray

2 Enter size and type of paper

Set specification of the loaded paper.

📖 See "Set Size and Type of Paper" — in this booklet page US/UK-16.

Menu 4
Configuration

(Standard)
Paper Feed Tray
• Paper Size
• Paper Type
• Double Feed Check

MENU

OK

CANCEL / BACK

③ Prepare the receiving tray.

Open the receiving tray, and then flip up the paper guide.

⑤ Print

Depending on the situation, Test Print, Print Position Adjustment, and Temporary Data Retrieval functions are also available at this point.
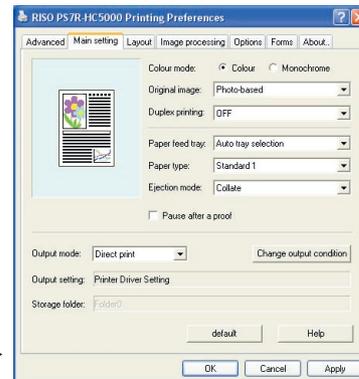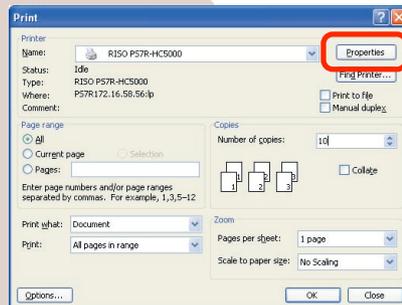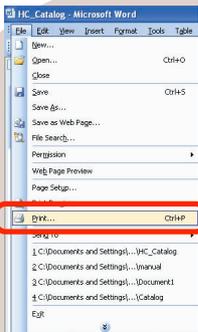
The Stack Guide will automatically adjust to paper size.
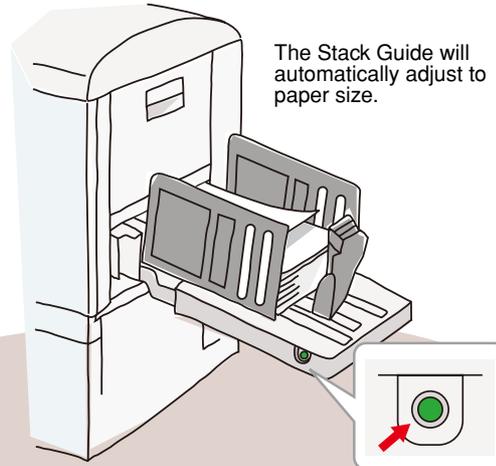
When you finish printing, press the Stack Guide Open Button to remove the paper.

Stack Guide Open Button

④ View print data on PC screen.

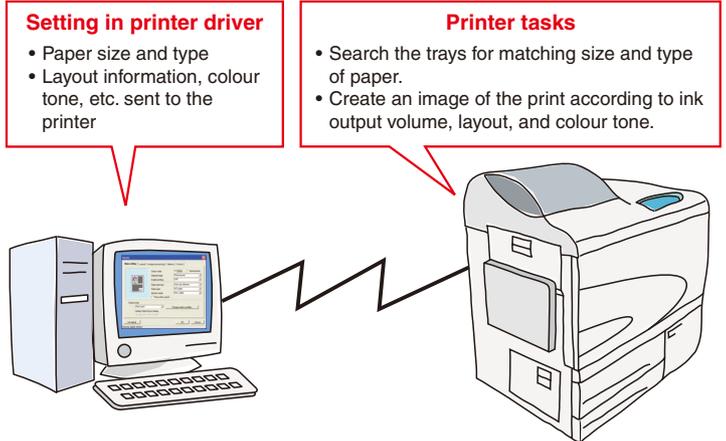Choose [Print] from the [File] menu and if necessary, change settings in the printer driver.

Process stage:

Set Size and Type of Paper

Before sending data from the PC, specify the size and type of paper that you wish to use. You must enter the size and type of the paper loaded in the tray of the HC5000 into the PC's printer driver beforehand.
If the setting is not correct, a "No Paper" error might mistakenly occur, or the printer could print in a different size or Type.

Setting in printer driver
• Paper size and type
• Layout information, colour tone, etc. sent to the printer

Printer tasks
• Search the trays for matching size and type of paper.
• Create an image of the print according to ink output volume, layout, and colour tone.

How to set the paper size and type

① **Press the [MENU] Key.**
Press the [Menu] Key while the printer is not in use.

Menu 1
Print Position Adj
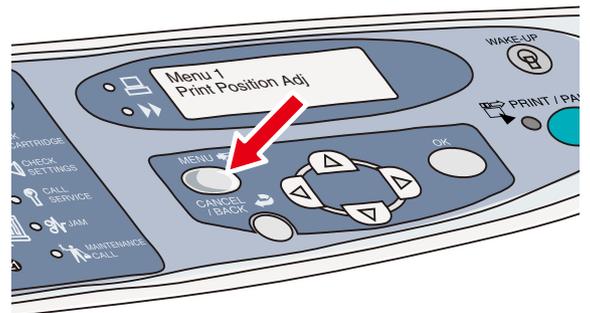
② **Press the △ or ▽ key to display "Configuration", and then press the [OK] Key.**

Menu 4
Configuration

③ **Press the △ or ▽ key to display "Standard Feed Tray", and then press the [OK] Key.**
(For Paper Feed Tray 1 or Paper Feed Tray 2, display "Feed Tray 1" or "Feed Tray 2" in step ③.)

Configuration
4.1
Standard Feed Tray

The printer driver and the printer have different roles in printing and colour management.

Although both the PC printer driver and the menu setting in the printer display the same settings of paper size and type, each plays a different role in setting matched colour management.
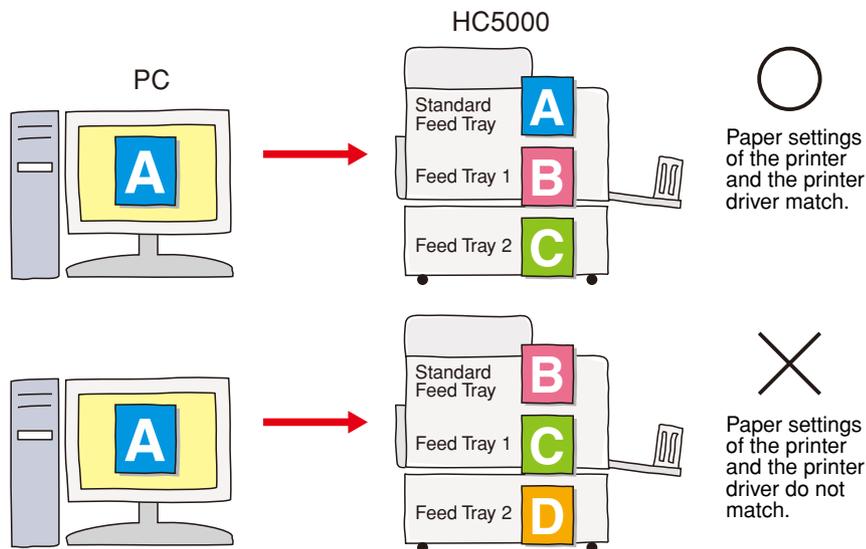
The Printer Driver:
- Chooses paper from a tray
- Orders ink output and colour tone to match the image
- Adjusts print speed

The Printer:
- Adjusts feed pressure
- Adjusts feed timing

The synchronized operation of the printer driver and the printer enables high-speed matched colour printing.

HC5000

PC

Standard Feed Tray **A**
Feed Tray 1 **B**
Feed Tray 2 **C**

○ Paper settings of the printer and the printer driver match.

Standard Feed Tray **B**
Feed Tray 1 **C**
Feed Tray 2 **D**

✕ Paper settings of the printer and the printer driver do not match.

Use the Standard Paper Feed Trays as a multi-function tray.

Refill paper Feed Tray 1 or Paper Feed Tray 2 with standard sizes and type of paper for easy use. Use the Standard Paper Feed Tray for irregular size or type of paper, post cards, and special paper, so that changing paper settings becomes necessary only when using the Standard Paper Feed Tray.

View Data to Print

[Print] dialog box

Prepare the printer and view the data to print.

Choose [Print] from the [File] menu and open the print dialog box. Check the name of the printer and number of pages to be printed.

Content of the [Print] menu might differ depending on the application software. However, it will show basic information on printing, such as which pages and how many pages to print.
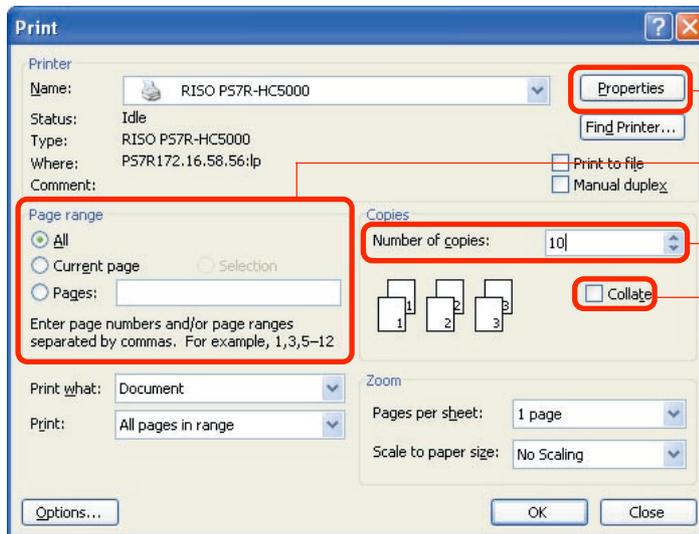
Click the [Properties] button to open the printer driver screen.

Specify the page(s) you wish to print

Select the number of pages to print.

Be sure to clear the check mark.
[Collate] is set in the printer driver screen. Please make sure to clear the check mark whether you use Collate or not.

The Printer Driver Screen

If you click the [Properties] button in the [Print] dialog box, [Printing Preferences] appears.
This screen is called the [Printer Driver Screen].
The printer driver screen consists of seven tabs. Change settings according to your needs.

⑦ ① ② ③ ④ ⑤ ⑥

① **[Main setting] Tab**
  Sets Colour/Monochrome mode and Paper Type.

② **[Layout] Tab**
  Sets Output Zoom size and Pagination.

③ **[Image Processing] Tab**
  Manages quality of the image.

④ **[Options] Tab**
  Sets Job Separation, Print density, and Clustering.

⑤ **[Forms] Tab**
  Sends a chosen Form to output data.

⑥ **[About] Tab**
  Displays printer driver version information.

⑦ **[Advanced] Tab**
  Displays driver screen of PostScript printer.

Click the [OK] button when you finish with settings, and click the [OK] button in the [Print] dialog box to start printing with the settings you have chosen.

The printer driver is the printing control software. All programmable functions for data processing can be set using this screen.

📖 **See User's Manual for Printer Driver page 2-2.**

3 Useful HC5000 Functions
(RISO Extended Print Functions)

Print Position Adjustment

Print positions can be changed during the printing process. The position can be adjusted for binding or stapling. After adjusting the print position, press the [Menu] key and choose [Test Print] to check the result.
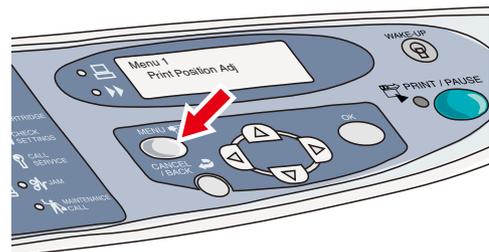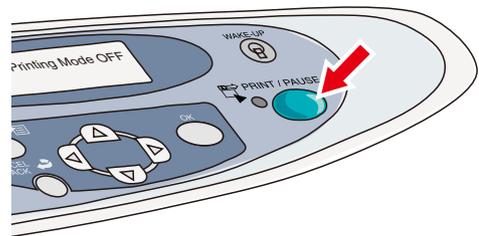
📖 **See User's Manual for Printer Main Body page 2-13.**

↑ 0 – 20.0mm (0" - $^{13}/_{16}$")

Flower

Flower   Flower   Flower

←0 – 20.0mm (0" - $^{13}/_{16}$")   →0 – 20.0mm (0" - $^{13}/_{16}$")
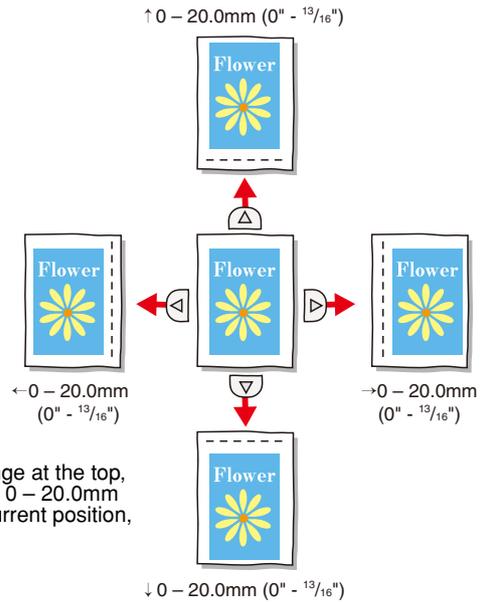
The position can change at the top, bottom, left, and right, 0 – 20.0mm (0" – $^{13}/_{16}$") from the current position, by 0.5mm ($^{3}/_{16}$") units.

Flower

↓ 0 – 20.0mm (0" - $^{13}/_{16}$")

How to adjust the print position

① Press the [Print/Pause] Key while printing.

② Press the [Menu] Key.

③ Adjust the print position by using the arrow keys and press the [Print/Pause] Key to start printing.
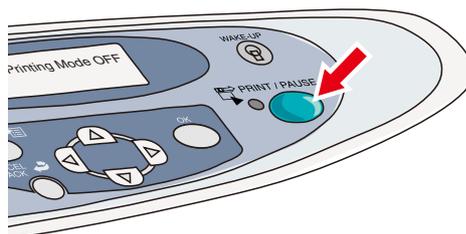
Test Print

Check the result after adjustment of print position and print tone.

📖 **See User's Manual for Printer Main Body page 2-15.**

How to test print

1 **Press the [Print/Pause] Key while printing**

2 **Press the [Menu] Key.**

3 **Show [Test Print] on the display and confirm with the [OK] Key.**

Menu 2
  Test Print

4 **Press the [OK] Key and check the test print.**

Ready to Print ?
  Cancel/OK
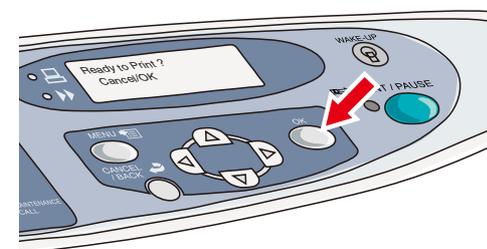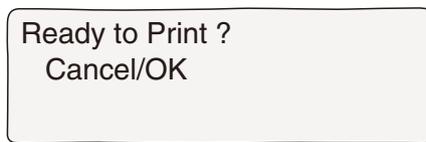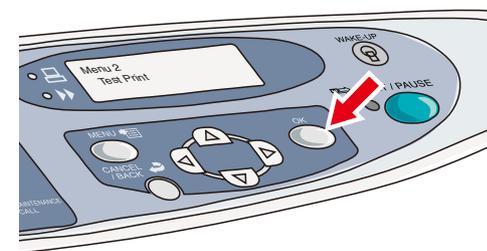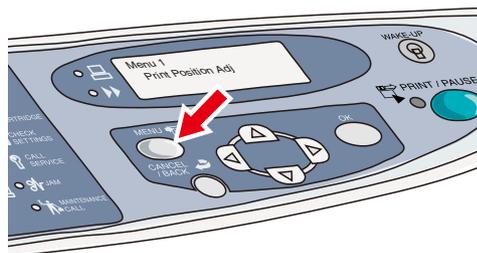
Reprint (Temporary Data Retrieval)

The last page that was sent to the printer can be retrieved and reprinted. This function can be used when there is a need to print more copies than was originaly set up in the printer driver. To use this function, set [Menu 5.8.6 Temp Data Retention] to [ON] in [Menu 5 Administration].

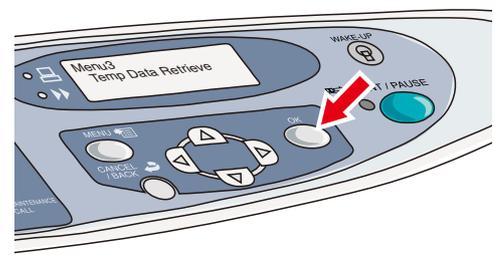📖 **See User's Manual for Printer Main Body page 2-16.**

Use the printer's control panel to enter the number of pages to be reprinted.
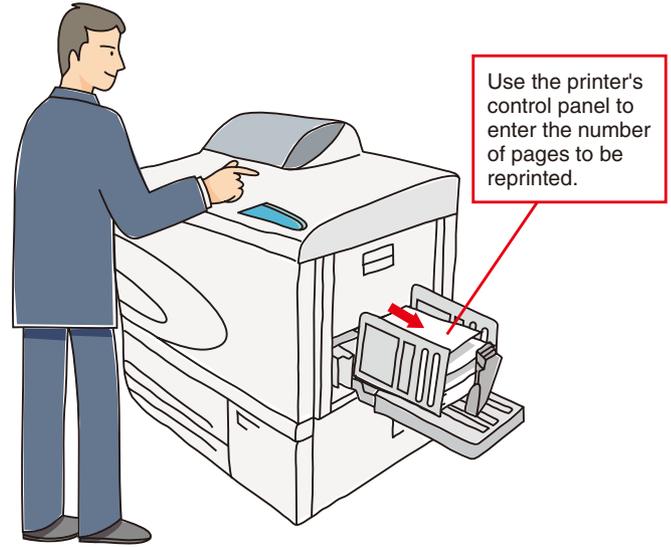
How to reprint

1 **Press the [Menu] Key when [Ready] is displayed.**

Ready
Auto
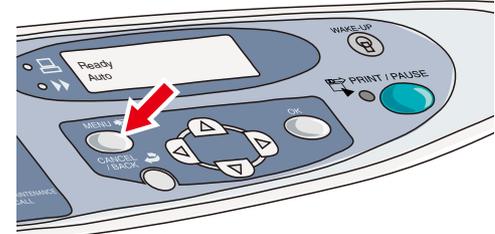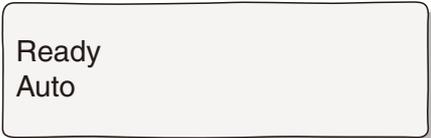
2 **When the display shows [Temp Data Retrieve], confirm with the [OK] Key.**

Menu3
Temp Data Retrieve

3 **Enter the print quantity by using the arrow keys and press [Print/Pause] key to start printing.**

◁ ▷ : Used to move the cursor

△ ▽ : Used to set the number of pages to be printed

Print Quantity
0100
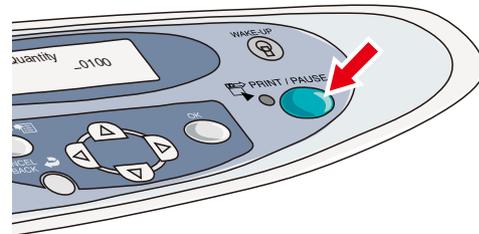
Temporary Data Retention

The printer function that saves the last page of data after completing printing is called [Temporary Data Retention]. With this function, the last page's data remains in the printer until the next print job arrives. For duplex printing, the data for the last two pages (the data on both sides of the last page) are retained. It can be used in the following manner by switching between Temporary Data Retention ON (retain data) and OFF (do not retain data).

Temporary Data Retention OFF (do not retain data)

The factory setting for [Temporary Data Retention] is OFF (do not save data in the printer). For example when printing exams, confidential customer lists or other important documents, keep it [OFF] to protect against unauthorised re-printing by a third party.

Temporary Data Retention ON (retain data)

Choose [Administration] from the Menu setting and change the setting to [Temporary Data Retention] ON. Enter the required quantity and the last page will be re-printed accordingly. This function is useful when you need to print more than your initial set-up in the printer driver.

Storage

Usually, the printer receives data from the PC and prints out its content. However, for a printing situation that requires many functional setting changes in the printer driver, you can save the data and its driver settings together in the printer. This function is called Storage. With this function, the printer saves the data in its output format. The Storage function can also be used to merely store, or to print, according to your needs.

📖 **See User's Manual for Printer Driver page 2-9.**
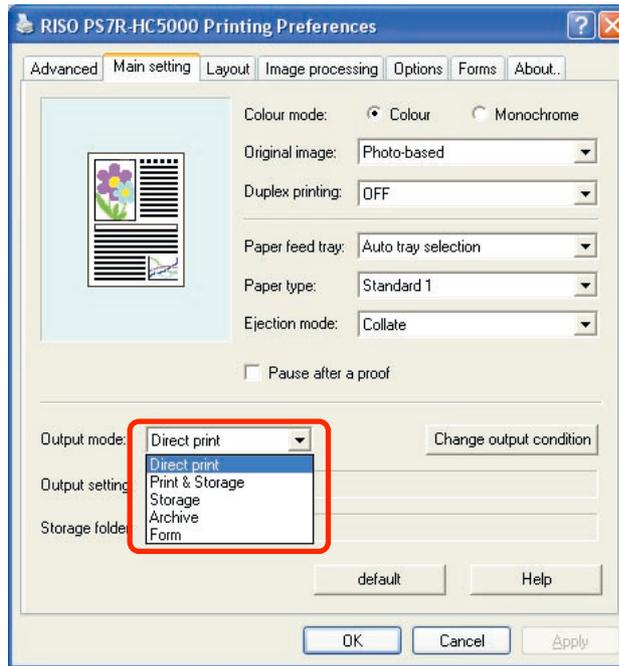
Five output functions.

Direct Print

Print directly to paper.

Print & Storage

Print data and also save (store) data in its output condition in the printer.

Storage

Save data to the printer. The output condition is also saved.

Note: To retrieve the saved Storage data and print, go to [Job manager] in [RISO console PS7R].
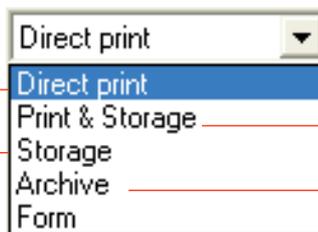
Form

Save data as a Form in the printer.
The saved Form data can be used with other data for printing.

Note: To retrieve the saved Form data and print, go to [Job manager] in [RISO console PS7R].

Archive

Data that has been processed with RIP can be stored (archived) in the printer. (Only if RISO Controller PS7R-9000 is connected).
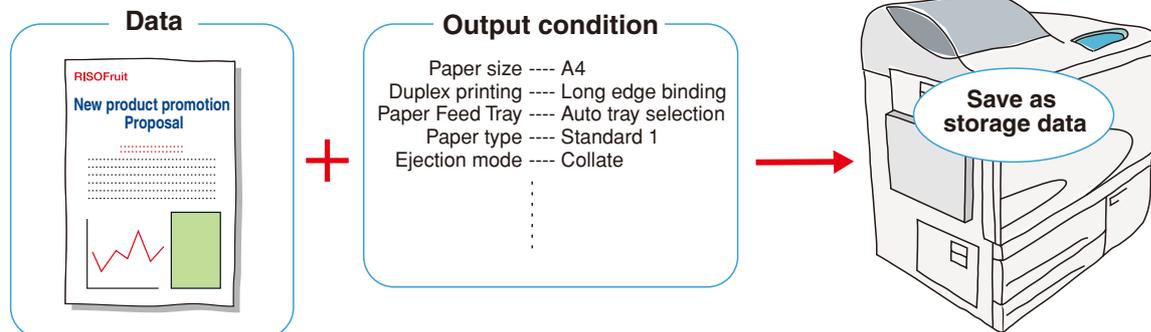
Note: To retrieve the saved Archive data and print, go to [Job manager] in [RISO console PS7R].

Useful functions: [Storage]

Often-used data can be saved to the printer as storage data. The Storage function has the following two features.

Feature 1: Saves output settings.

The saved data can be printed in the same output format eliminating the need to change settings each time the job is reprinted. The nine folders allow you to save and manage data by separating type and purpose.

Data

RISOFruit
New product promotion Proposal

+

Output condition

Paper size ---- A4
Duplex printing ---- Long edge binding
Paper Feed Tray ---- Auto tray selection
Paper type ---- Standard 1
Ejection mode ---- Collate

Save as storage data

Feature 2: The function is independent of the OS.

When the PC sends data to save in the printer as storage data, this data becomes PS data. Any OS, whether Windows or Mac, or any type of PC, can relay this data and print with the designated format, such as duplex printing and pagination etc.

Transforming data to PS data prevents output errors that occur when you use different kinds of OS and versions for printout. Since the print job does not need to resend data, it also shortens printing time.

Print PS data using FTP.

The HC5000 can print PS data using FTP.
The login name and password for a FTP connection is described below.

Login name: risops7r
Password: risops7r

4 Potential Print Solutions and Applications

Compared with monochrome or single colour printing, full colour printing creates a stronger impact and higher recognition with the viewer.
The HC5000 can enhance the value of every document.

1. Flyers – as sales tools –

"Forms" 📖 See this booklet page US/UK-39.

The variable printing functions with electric sorting and a wide range of paper sizes of the printer (postcard to A3/Ledger) make creating sales tools such as flyers, direct mailers and shop displays much easier. Community-based sales advertisements can be printed cost effectively.
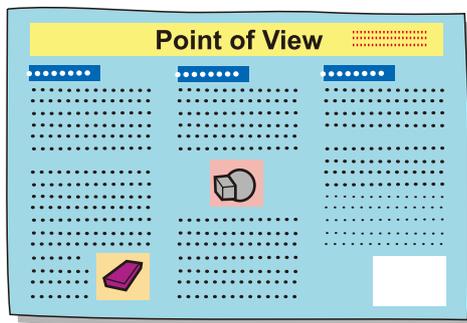
Brochure

Flyer

2. Office – Presentation Documents –

"Duplex printing", "Multi-up", "Job separation" 📖 See this booklet page US/UK-28, US/UK-30, US/UK-35.

Without worrying about cost, you can create attractive materials for presentations with full colour printing.
Business sales tools and internal/external company documents can be reprinted easily.

Business document
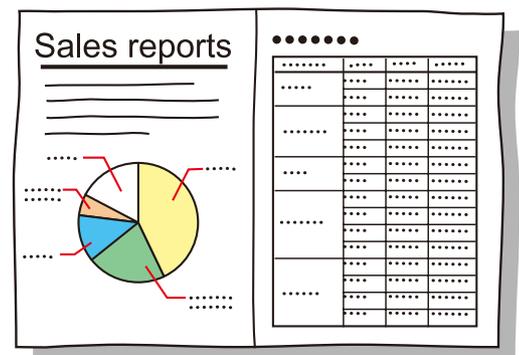
Business document

Business document

3. Religious Newsletters – Administrative reports, direct mail –

4. Public Relations & Newspapers
– News Flash printing, Local News Information –

Useful Features   📖 See "Useful Features" in this booklet page US/UK-42.

When you have news that needs to be published quickly, use high-speed printing. The clear and easy-to-read colour paper printing is effective for newsletters, notices and news or news flashes.
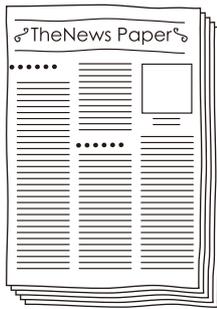
Newspaper
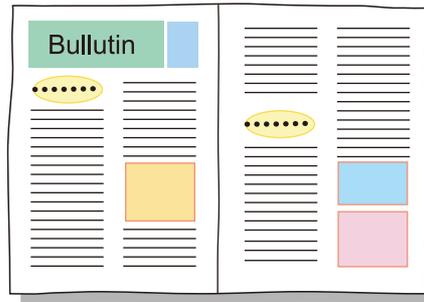
Administrative Report

5. Publishing, Local Retailers – Manuals, Brochures –

6. Education – Training Session Documents, Text, Classroom Materials –

"Pagination", "Job separation"   📖 See this booklet page US/UK-32, US/UK-35.

For product manuals, company manuals, training sessions and human resources documents, notices for parents or classroom newspapers.
The HC5000 lets you print high speed and low running cost. Materials are printed in a clear and understandable fashion.

Point of View

Brochure

Pagination
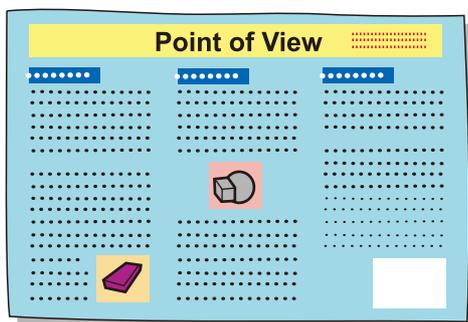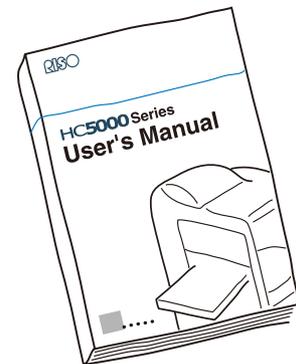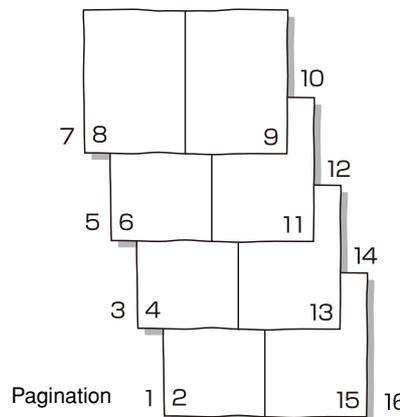
Manual

7. Information Systems
– Full-colour Designed Forms & Suggestions for POD (Print On Demand) –

Useful full colour printing for invoices, direct mail, letterhead and proposals that are stored in the system. You can establish new business models and work flows.

Potential Print Solutions and Applications
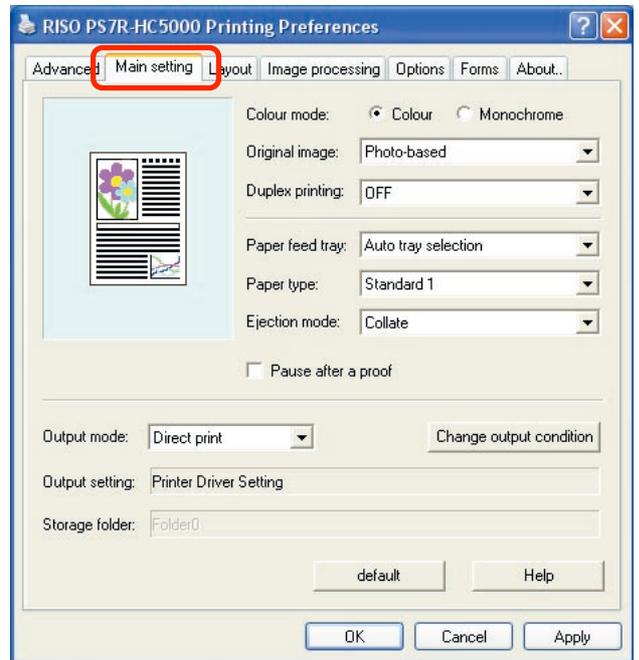
Duplex Printing

Print on both sides of the paper. With the Multi-up function, material can be compacted. Use of "RISO Paper IJ" is recommended.

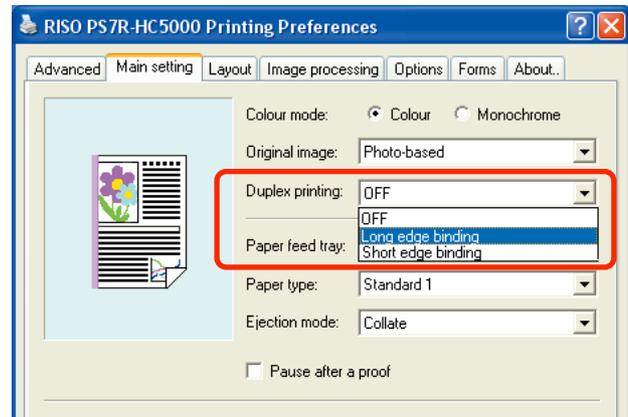📖 **See User's Manual for Printer Driver page 2-6.**

Duplex printing
(Long edge binding)

Duplex printing
(Short edge binding)
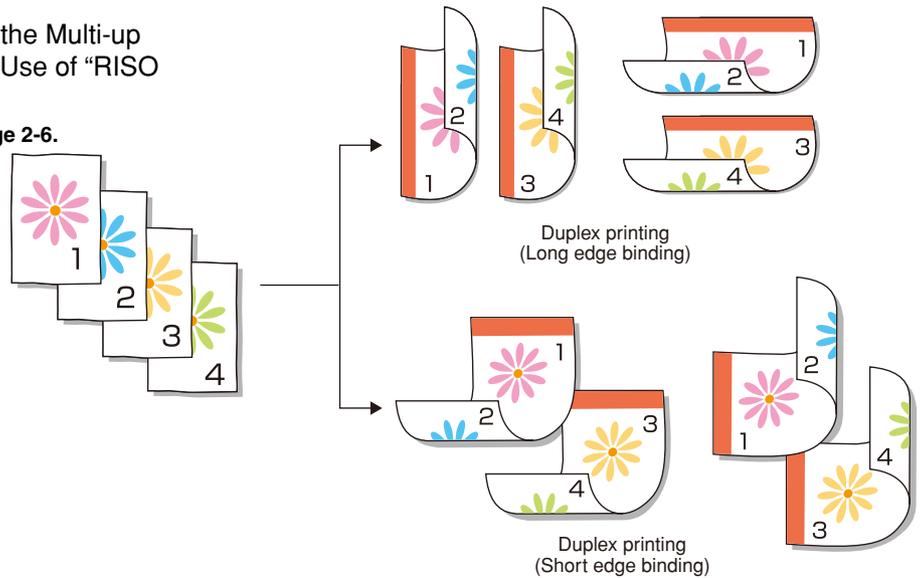
Process of Duplex Printing

① **Click the [Main Setting] tab in the printer driver screen.**

(2) **Choose a binding setting in [Duplex Printing].**

When a paper jam occurs during Duplex Printing

Paper loads at high speed during duplex printing.
Therefore, not only the jammed paper, but any paper
within the transfer unit also needs to be removed.
Because there might be more than a few papers in the
duplex transfer unit, keep turning dial B inside the
printer until all paper is cleared.
Please refer to the paper jam removal instructions
graphic located on the inside of the Front cover of the
HC5000.

📖 **See User's Manual for Printer Main Body page 3-10.**
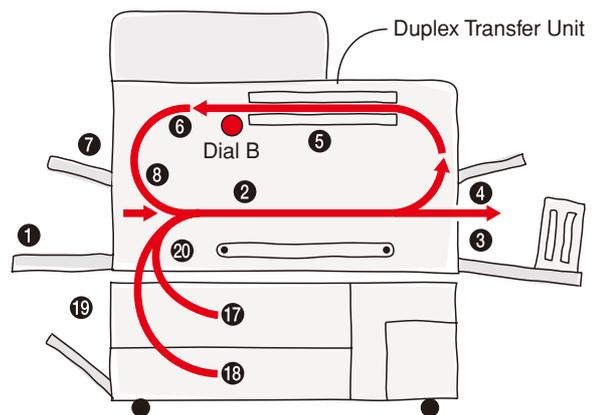
Potential Print Solutions and Applications

Multi-up

Duplex printing and 2-in-1 printing are commonly used printing applications in the office. The HC5000 also has useful functions that will help you save paper.

* You can print 2 pages on a single sheet of paper.
  This feature provides a cost-effective way to print.

Multi-up
(Two pages in one)
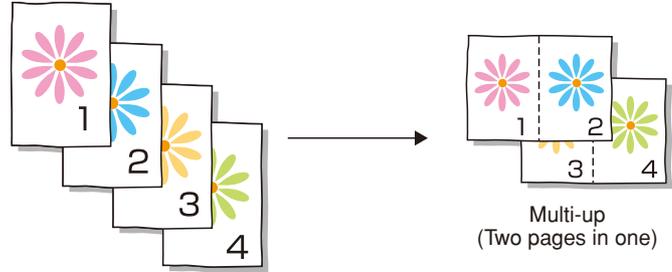
Enables several pages to be placed on one sheet and printed. It is possible to select the page order and the number of pages per sheet at 2, 4, 8, and 16.

How to use Multi-up

1 **Click the [Layout] tab in the printer driver screen.**
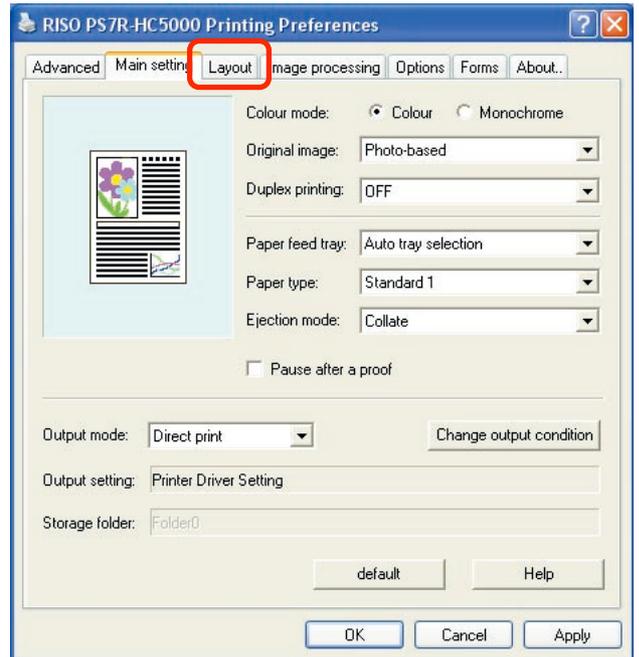
② Choose [Multi-up].

Select the number of pages per sheet.

Order setting can be combined.

Normally, set to Auto.
(Only if RISO Controller Controller
PS7R-9000 is connected)

Orientation: Vertical
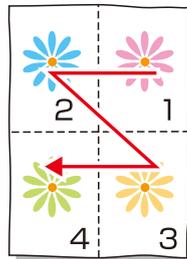Pagenation: Multi-up
Pages per sheet: 4 pages
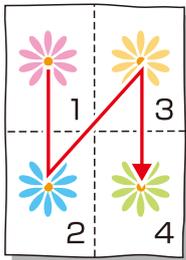
Orientation: Vertical & Reverse Order (from right to left)
Pagenation: Multi-up
Pages per sheet: 4 pages
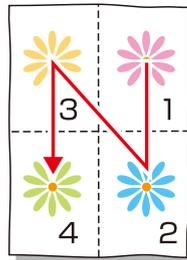
Orientation: Horizontal
Pagenation: Multi-up
Pages per sheet: 4 pages
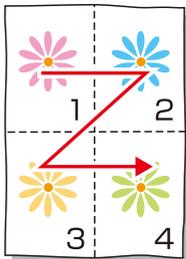
Orientation: Horizontal & Reverse Order (from right to left)
Pagenation: Multi-up
Pages per sheet: 4 pages

Pagination for Booklet Formats

Pagination for booklet formats can be done with [Layout] in the printer driver without using software applications. Since it is a direct print, there is no fading in image quality and the printing time is shortened.

📖 **See User's Manual for Printer Driver page 2-13.**
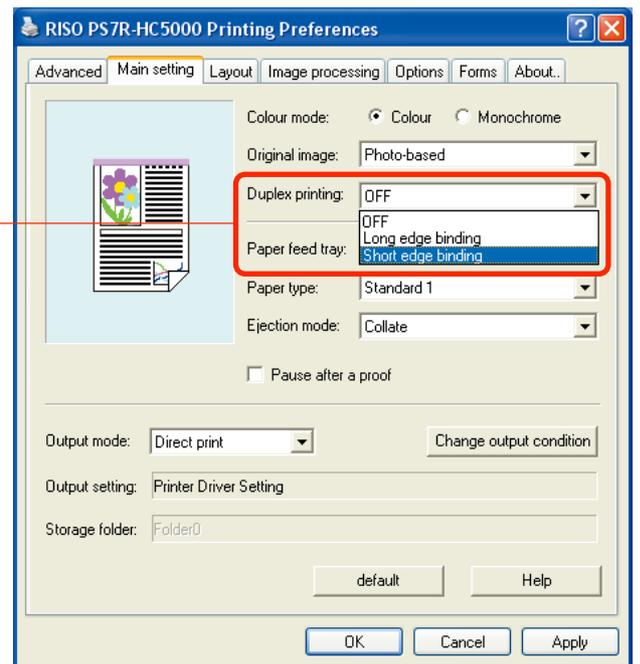
Choose booklet
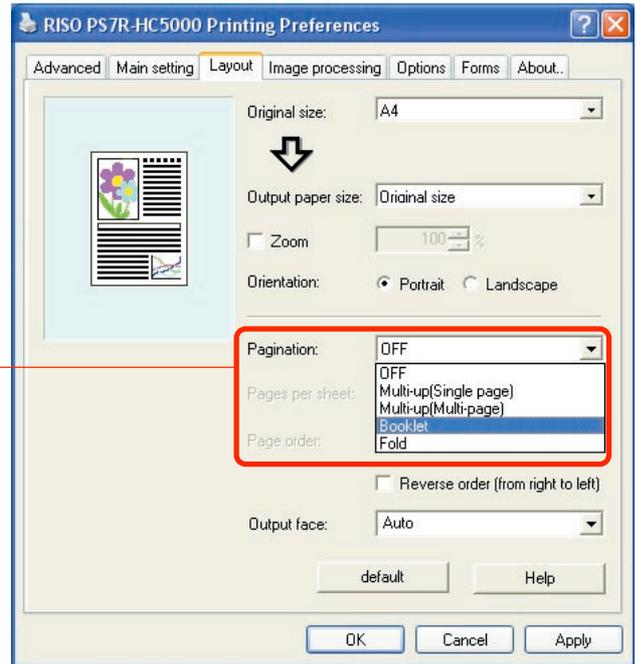
How to use Booklet

1   **Click [Main setting] tab and from the [Duplex Printing] menu choose [Short edge binding].**
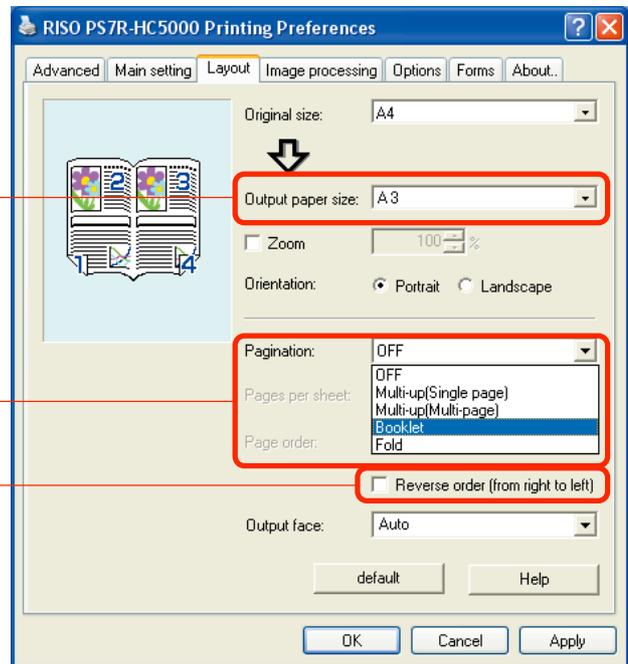
Choose Short edge binding

② **Select [Booklet] on the [Layout] tab.**

Output paper size
If you wish to make a booklet with the original manuscript's size, choose double the original size.

Choose Booklet

Direction of pagination

RISO PS7R-HC5000 Printing Preferences

Advanced | Main setting | Layout | Image processing | Options | Forms | About..

Original size: A4

Output paper size: A3

Zoom 100 %

Orientation: Portrait Landscape

Pagination: OFF
OFF
Multi-up(Single page)
Multi-up(Multi-page)
Booklet
Fold

Pages per sheet:

Page order:

Reverse order (from right to left)

Output face: Auto

default | Help

OK | Cancel | Apply

Create Booklet with Data

Flower

Data

Duplex print / both sides
2-in-1 pagination

Booklet completed
with binding.
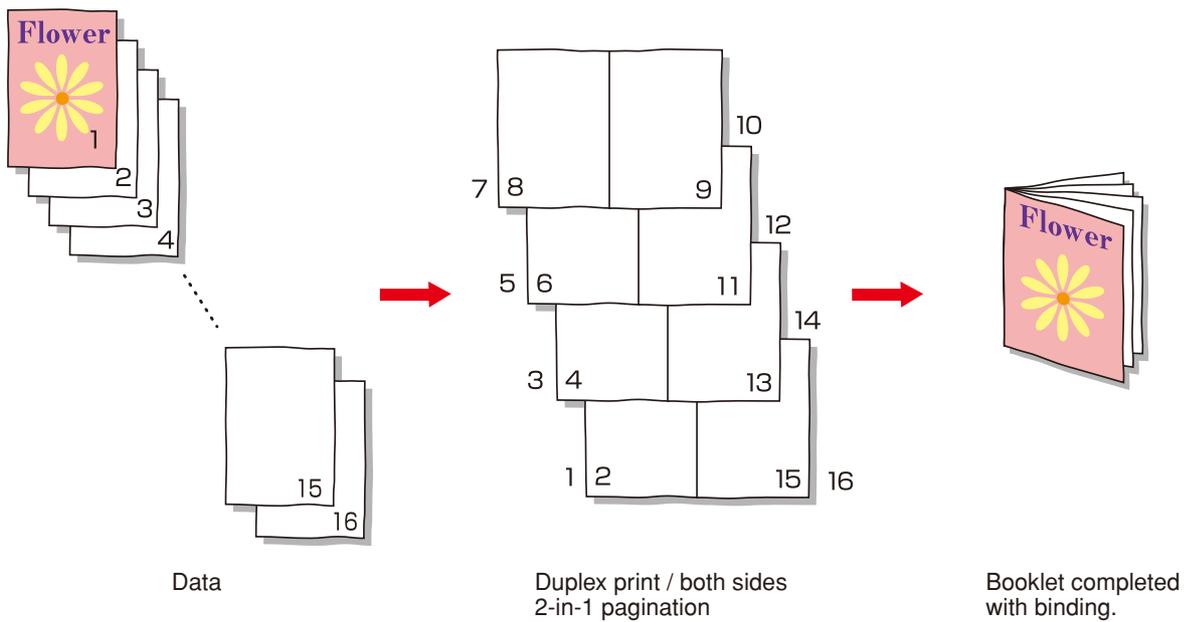
Potential Print Solutions and Applications

How to Bind

- Booklets need duplex printing, so load paper for duplex printing use.

- Four pages will be printed on one sheet, so consider printing size and set the paper.

- Choose page order from left → right (left binding) and reverse order (right binding).

☐ Reverse order (from right to left)

4 3   2 1   2 1 / 3 / 4

☑ Reverse order (from right to left)

1 2   3 4   1 2 / 3 / 4
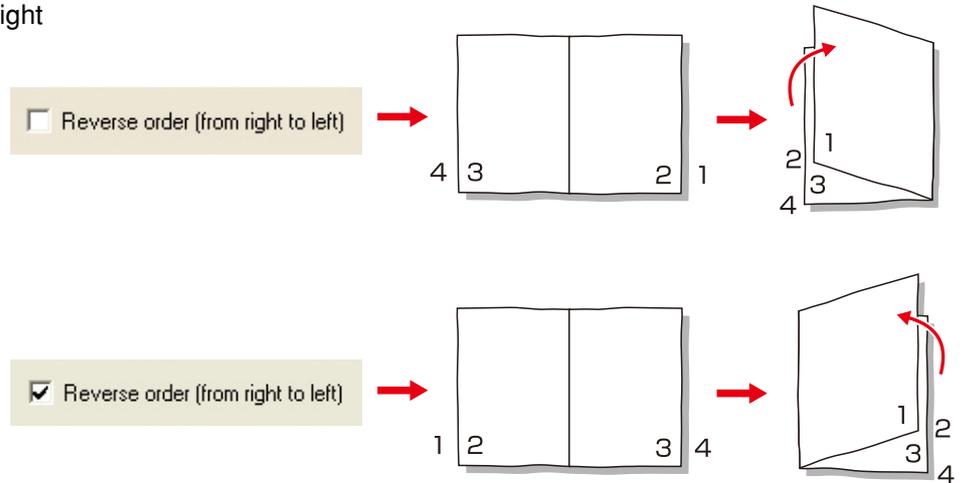
To print over-size paper

Do not use the Stacking Guide when the printing paper size is more than 320mm x 432mm ($12^{5}/_{8}$" x 17").
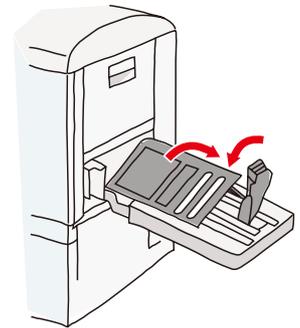
Job Separation

Prepare large volume meeting material faster with the job separation function.

📖 **See User's Manual for Printer Driver page 2-23.**

Types of Job Separation

Between Jobs
After finishing printing, place separation paper in every job.
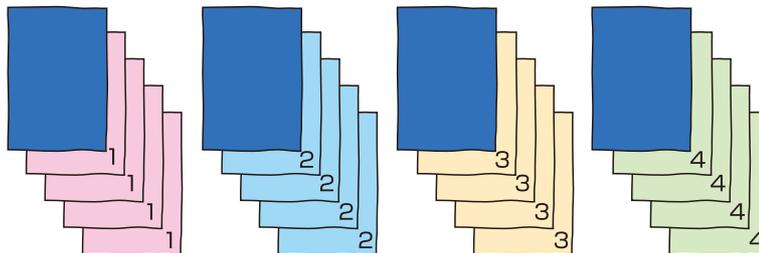
■ :Separation Paper
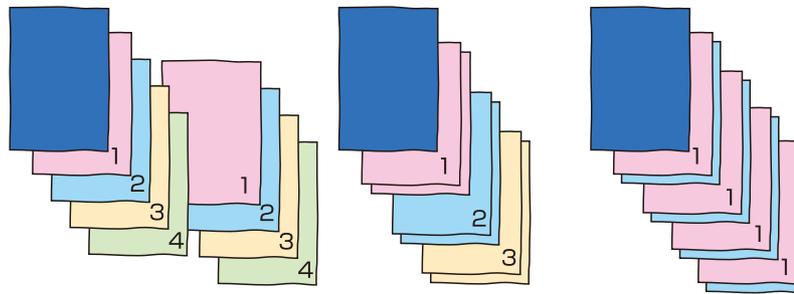
Every division
• **For Collate printing**
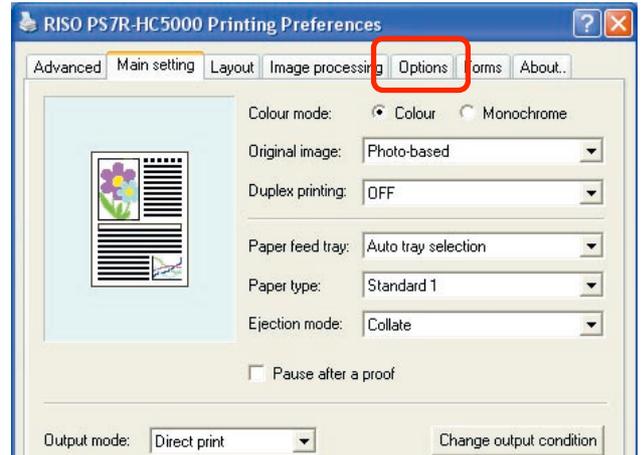 Place separation paper by every collate
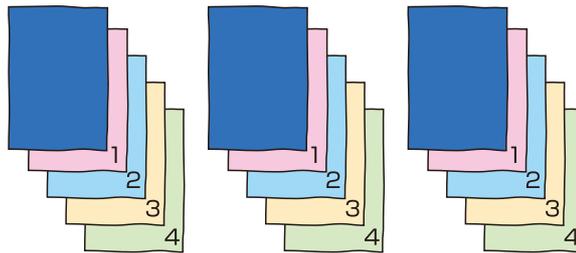
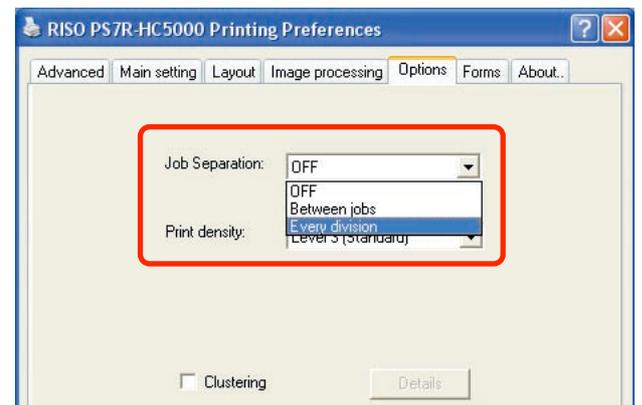• **For Non-collate printing**
  Place separation paper by page

Choose the Type of Job Separation

① **Click the [Options] tab in the printer driver. Choose the type of job separation.**

② **When [Every division] is chosen, the [Ejection mode] in the [Main setting] tab inserts separation paper.**
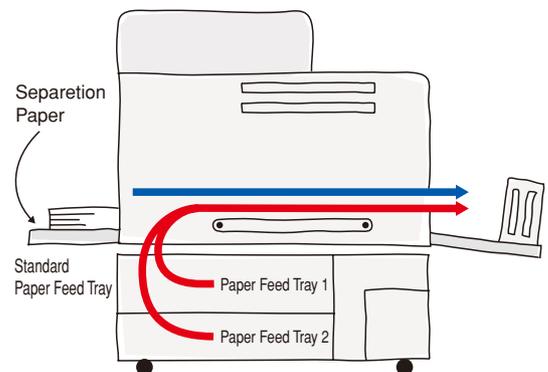

Set separation paper.

Set and load the tray for the separation paper in advance. The following is an example of setting the separation paper in the Standard Paper Feed Tray.
① Load the separation paper into the Standard Paper Feeding Tray.
② Press the [Menu] Key on the printer
③ Display [Menu 5 Administration] - [5.3 Separation paper] and choose [Standard Feed Tray].
📖 **See User's Manual for Printer Main Body page 2-36.**

If you choose [OFF], the printer will stop for a few seconds at every separation point. You can put a tag or insert the prepared paper manually during the pause.

Use paper in Paper Feed Tray 1 or Paper Feed Tray 2 for printing

The tray (Standard Paper Feed Tray) set as the separation paper tray cannot be used when the feeding tray setting in the printer driver is [Auto tray selection]. When you use the tray for normal printing, change setting to [OFF].
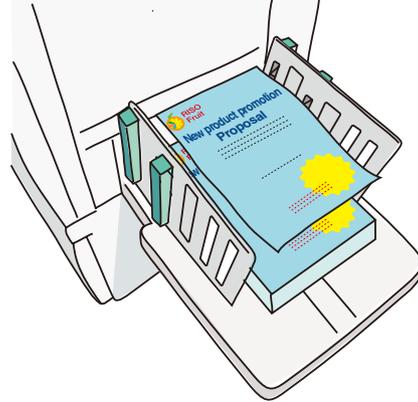
Use Function to Insert Separation Paper

The following is an example of inserting different colors of paper, using the separation function. If the first page of the booklet is the cover, you can print and prepare the cover beforehand and use it as a separation paper.

1 **Print the cover paper in advance.**

**2** **Load the printed cover paper into the separation paper tray as a separation paper.**
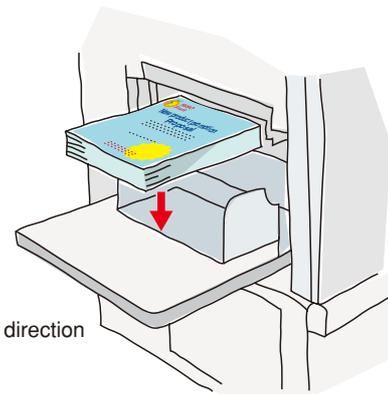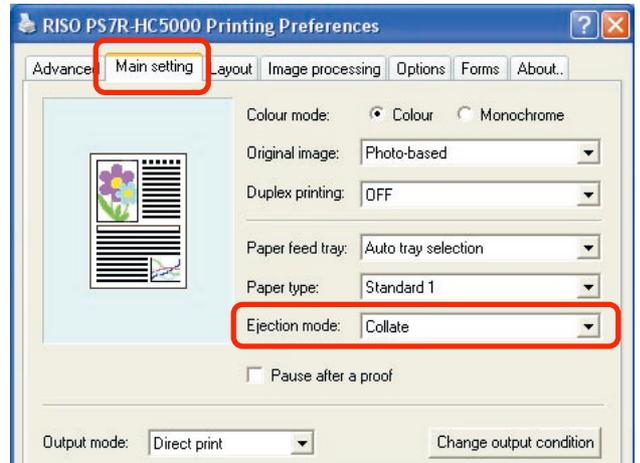

Make sure the setting direction of paper is correct

3 **Set [5.3 Separation paper] in [Menu].**
Set [Separation Paper Tray] according to which tray you used for the separation paper.

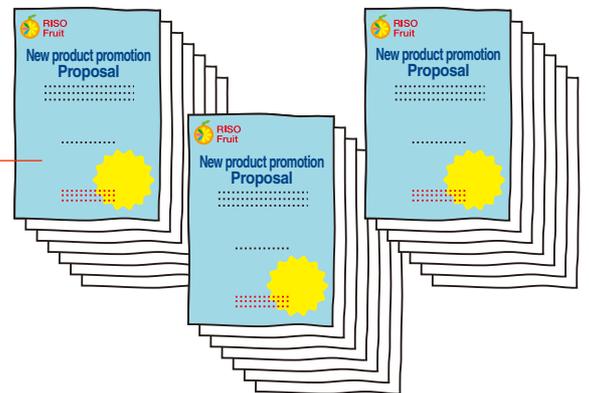📖 **See "Set separetion paper." — in this booklet page US/UK-35.**

Potential Print Solutions and Applications

4 Choose the type of job separation
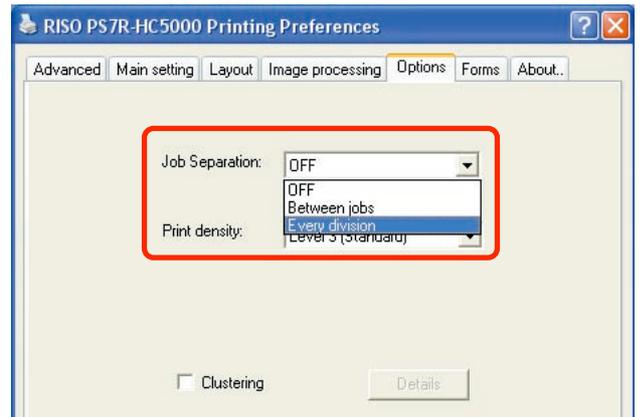
5 Print the contents page of the materials or booklet.

The cover paper will be automatically inserted as a separation paper.
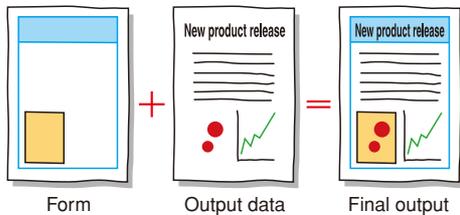
Form

Add the same mark or sentences to the print document. This additional sentence or image is called a [Form].
To use a Form, you need to create the image on a PC and save it to the printer in advance. These saved Forms
can be added to the printout using a simple operation.

See User's Manual for Printer Driver page 2-27.

Uses for Form

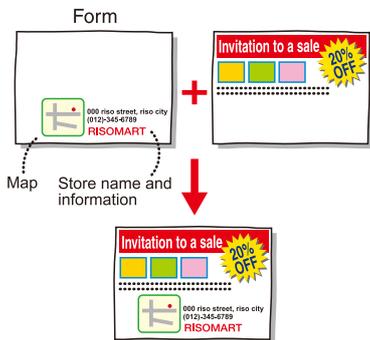### In the office

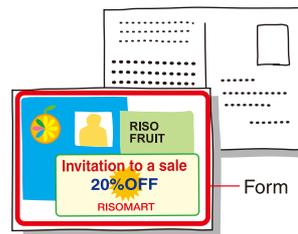• For a confidential document in a meeting

Form   Output data   Final output

• Print company's logo in a letter head

Form

For Flyers and DM

• Save a frame or shop logo as the form
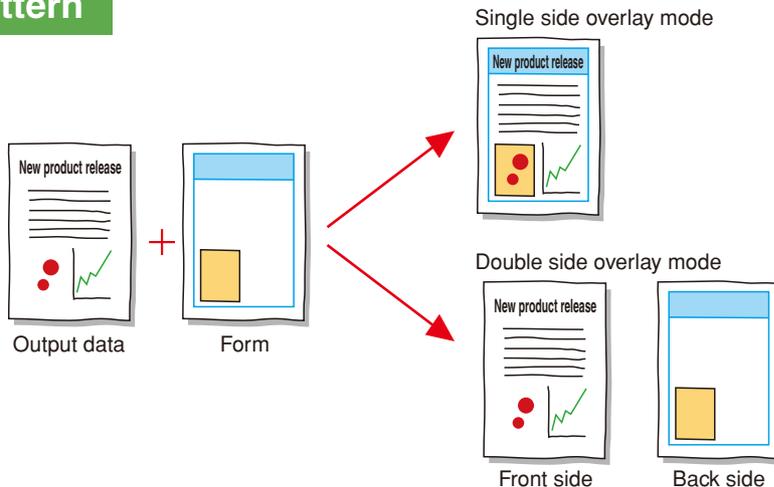

Form

Map   Store name and information

• Postcard DM
You can combine shop data or promotion
content with application software, e.g. inserting
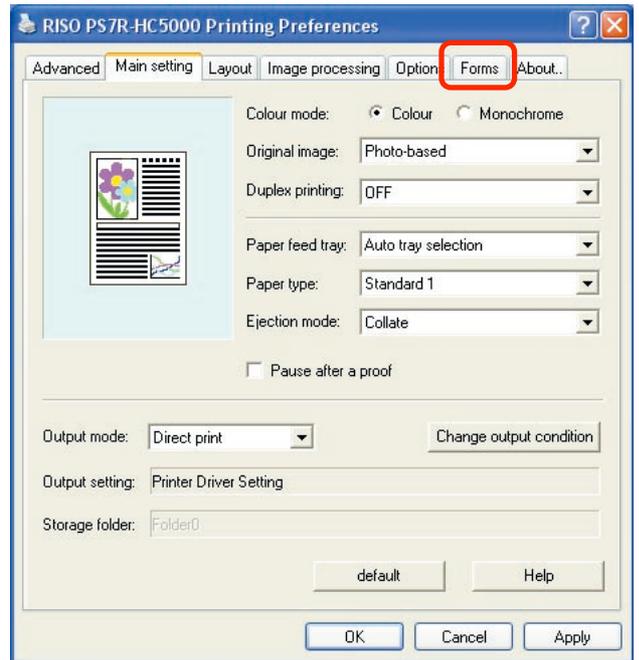addresses, then printing content with different
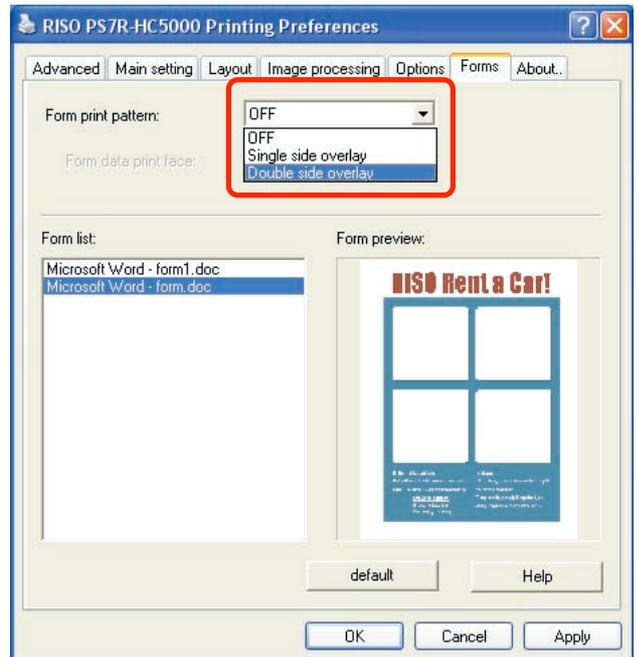addresses.

Form

Form Print Pattern

Single side overlay mode

Double side overlay mode

Output data   Form

Front side   Back side

How to Choose Form

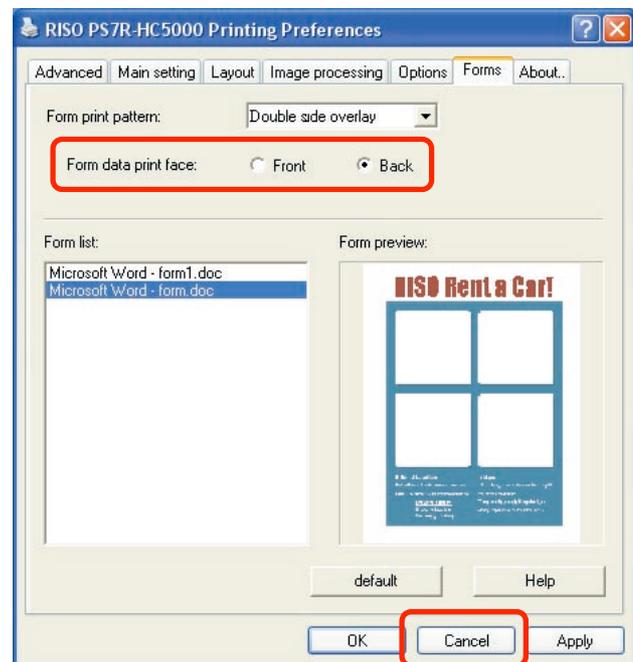**①** **Click the [Form] tab in the printer driver screen.**

② **Choose whether you wish to have duplex printing in [Form print pattern].**

3 **Select the appropriate data [Form List] and click [OK].**
If [Double side overlay] is selected, choose the Form data print face.

5 Useful Features

The processing of half tone images can be adjusted by using the printer driver. This adjustment applies to the whole image and cannot apply only to parts. If you wish to adjust the colour or the image quality of a photo with the document, this should be done with software such as Photoshop before the photo is embedded in the document.

To adjust image quality, click the [Image processing] tab in the printer driver.
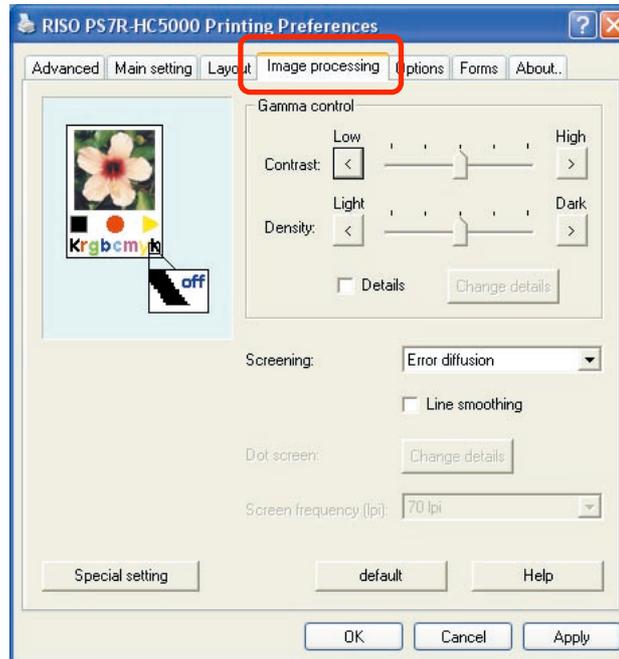
Adjust Contrast

When the colour image is not clear, you can adjust contrast.
[High] is used to enhance the contrast between light and dark areas, making the image sharper and clearer. [Low] is to minimize the difference between light and dark areas: the image becomes grayish.
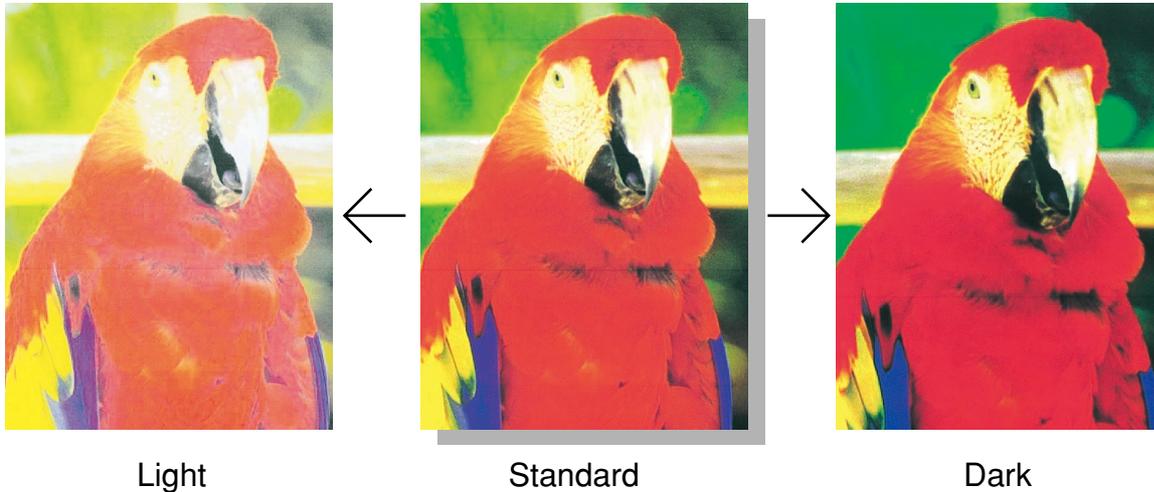
📖 See User's Manual for Printer Driver page 2-17.

| Low | Standard | High |
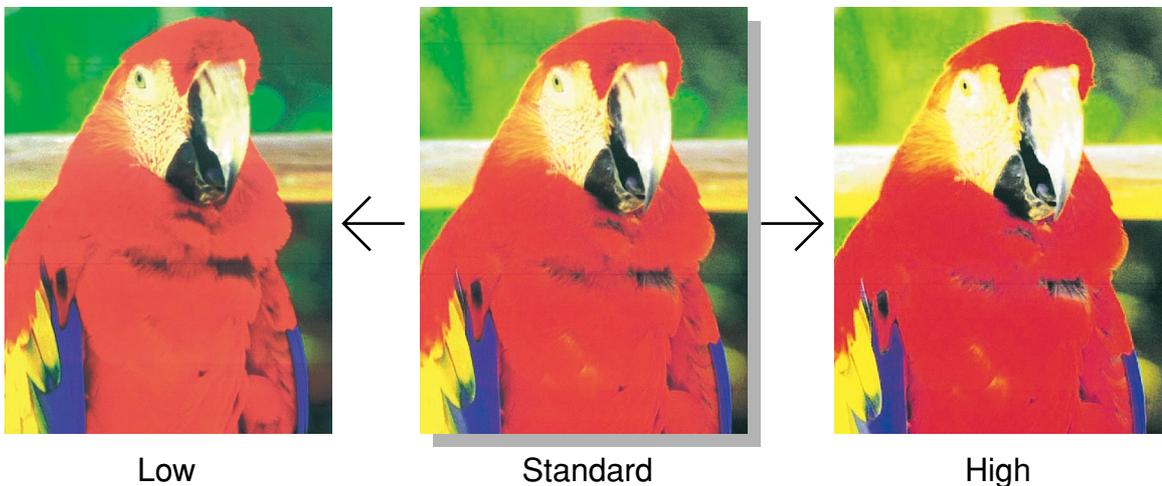
Adjust Density

Adjust the density of the entire image. See examples below.

📖 **See User's Manual for Printer Driver page 2-17.**

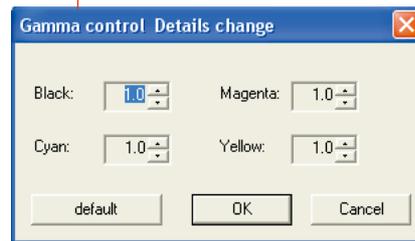| Light | Standard | Dark |

Adjust gamma level

Check [Details] and click the [Change details] button, adjust the gamma level of C(cyan), M(Magenta), Y(Yellow), K(Black).

📖 **See User's Manual for Printer Driver page 2-17.**
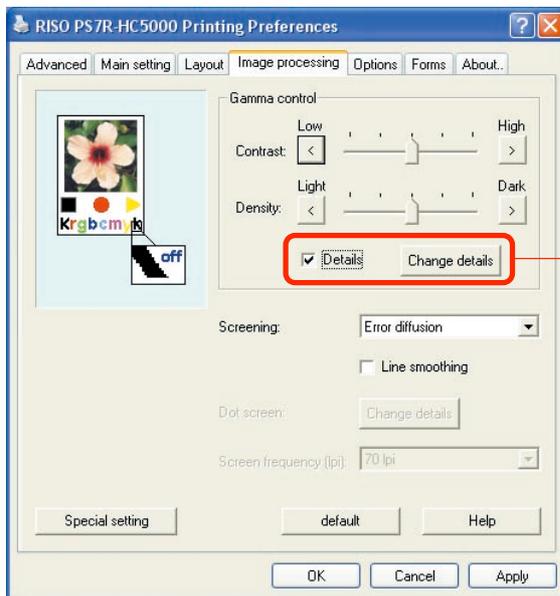
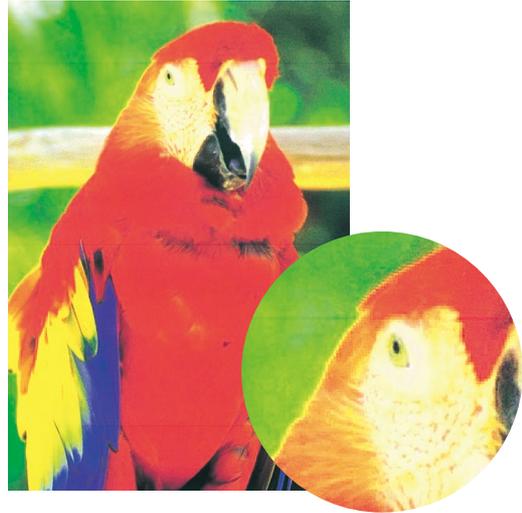Set the gamma level of the colour that needs to be adjusted

Smaller numbers for lighter colours, greater numbers for darker colours.

Express halftone images with dot density (Error Diffusion)

The density of printing dots will express halftone images or photographs. Recommended for colour printing.
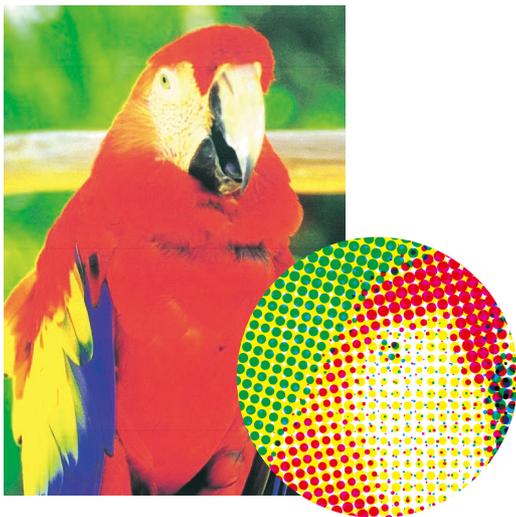
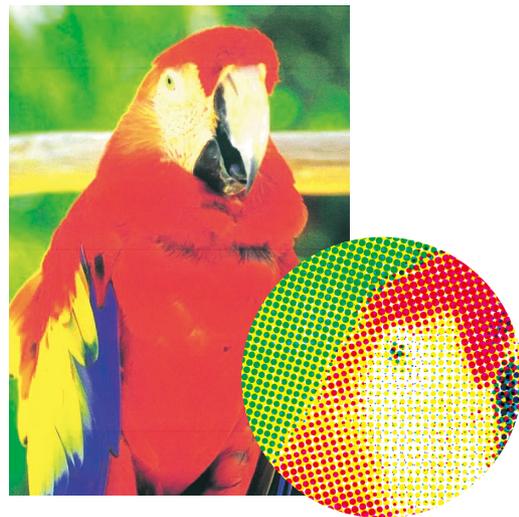📖 **See User's Manual for Printer Driver page 2-18.**

Express halftone images with dot size (Dot Screen)

The size of printing dots will express halftone or photographs. Recommended for monotone or document which use minimal colour.

📖 **See User's Manual for Printer Driver page 2-18.**
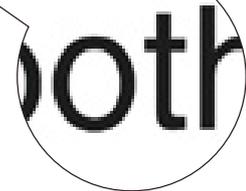
70lines

100lines

The magnified picture is an image.

To make character outlines smoother

In order to print characters with smoother edges, check [Line smoothing] in the [Image processing] tab.

📖 **See User's Manual for Printer Driver page 2-19.**

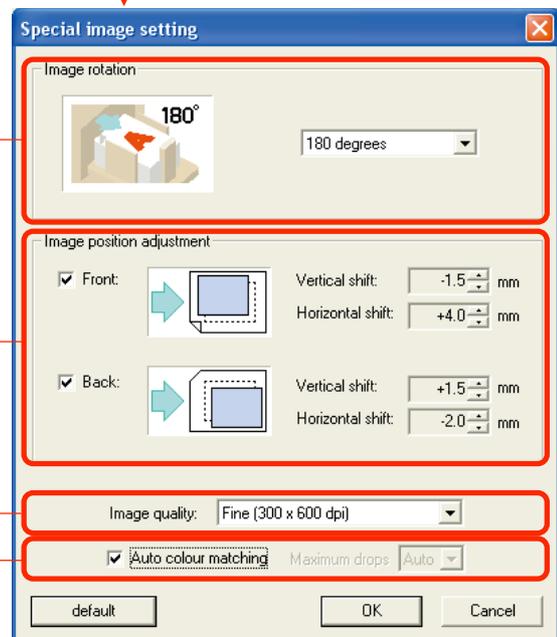Print characters in smoothed line. Check [Line smoothing] in the [Image processing] tab.

Special image setting features

Click the [Special setting] button in the [Image processing] tab.

📖 **See User's Manual for Printer Driver page 2-20.**

Rotate the image

Adjust the printing positions of both sides

Set the quality of print (dpi)

Set whether ComColor™ Standard should perform colour matching or not.

6 Printer Monitoring

RISO Console PS7R

An HC5000 connected to a LAN can be used in many different ways to use networking and send high-speed data. You can also check to see if the printer is ready, without going to the printer. Open your browser and enter the IP address of the HC5000 and the console screen will appear.
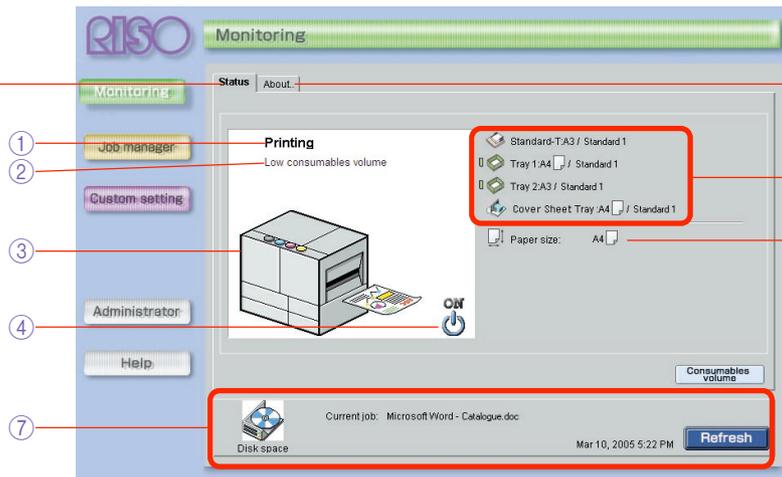
📖 **See User's Manual for Console page 1-3.**
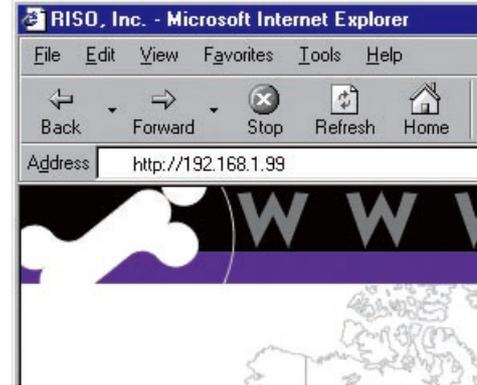
Monitoring

Checks the current operational status of the printer. Icons and messages indicate paper and ink information.

📖 **See User's Manual for Console page 1-4.**

Status
Current status of the printer is displayed.

About ..
The status of the print controller and printer is displayed.

① **Message**
Status of the printer is displayed.

② **Comment**
Supplementary information for a message is displayed.

③ **Printer icon**
Status of the printer is displayed.

④ **Power icon**
Status of the printer power supply is displayed

⑤ **Paper information**
The size, type, and orientation of paper set in the Standard Paper Feeding Tray and other Feeding Trays are displayed.

⑥ **Printer information**
Paper size in the selected tray is displayed. If [Auto tray selection] is selected in printing, [Auto] is displayed.

⑦ **Controller information**
The disk space available in the built-in hard disk, the data reception status, and the current job name (if a job is being processed) are displayed.

Job Manager

The current status of jobs processed by the printer is displayed.

📖 **See User's Manual for Console page 1-6.**

Archive
A job stored in the printer for which data has been processed with RIP can be checked or output. (Only if RISO Controller Controller PS7R-9000 is connected).
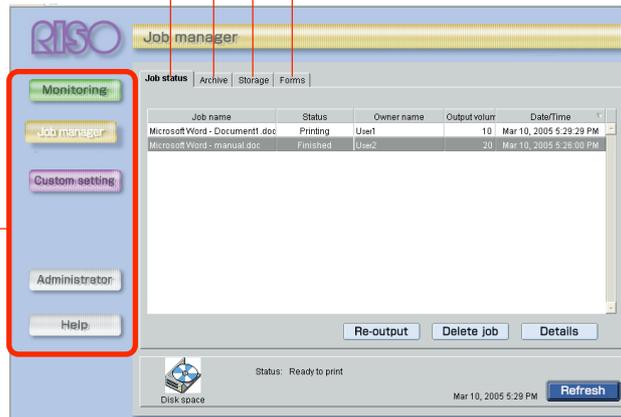
Job status
The Job name, Status, Owner name, Output volume, and Date/Time of the currently processed job are displayed.

Storage
Registered jobs can be checked and output.

Forms
Registered jobs can be checked and output.

Every screen can be displayed by clicking relevant buttons.

Other functions

Custom setting ..... The job history of the printer can be checked.

Administrator .... Settings for the print controller in the printer.
Only users who login with passwords can access this menu to change settings.

Help .... Help support to use the RISO Console.

7 **Trouble shooting**

Out put Does Not Look Clear And Sharp

Change the paper

Check that you are using the proper paper or printing on the correct side of the paper.

📖 **See "Paper Specifications" — in this booklet page US/UK-8.**

📖 **See User's Manual for Printer Main Body page 1-6.**

Clean the Print head.

The printer head can clog. Use the head cleaning function in the control panel.

📖 **See "Head Maintenance" — in this booklet page US/UK-50.**

📖 **See User's Manual for Printer Main Body page 2-40.**

Adjust the original data or adjust colour

The output quality can be improved by adjusting the data resolution and colour.

📖 **See "Useful Features" — in this booklet page US/UK-42.**

📖 **See User's Manual for Printer Main Body page 2-16.**
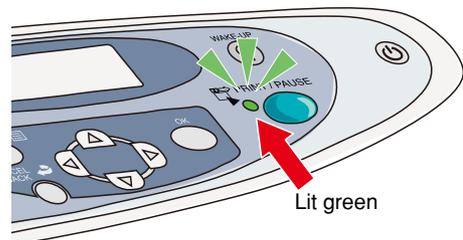
When the Printer Stops...

① **Check the display on the control panel**
Is there an error?
Confirm on display panel.

② **Check Printing Mode**
Is the Printing Mode ON?
When the Printing Mode is ON, the indicator is lit, and when the Printing Mode is OFF, the indicator is not lit.
Press the [Print/Pause] Key to Printing Mode ON.

Lit green

3 **Is the printer waiting for a confirmation?**
If the [Pause after a proof] check box is marked in the [Main Setting] tab, the printer will wait for confirmation to print after the proof printing finishes. Find the printout in the receiving tray, confirm the print and Press the [Print / Pause] key to restart printing.
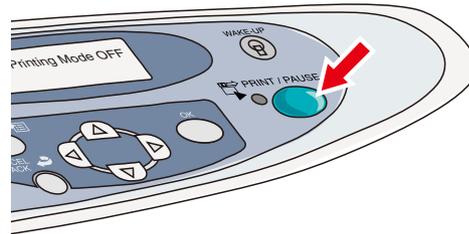
Press the [Print/Pause] Key to restart printing

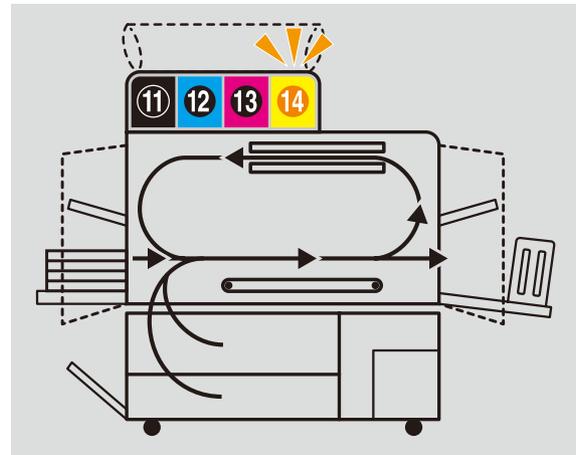**4** **Contact service provider**
See "Chapter3 Troubleshooting" in User's Manual for Printer Main Body. If the printer still does not work, contact your local dealer (or service representative).

Replace the Ink Cartridge

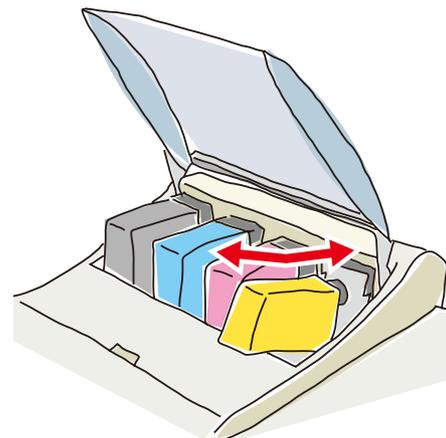📖 **See User's Manual for Printer Main Body page 3-16.**

1 **Check the colour that lights up**

2 **Remove the cartridge* and replace with a new cartridge**

* Used Ink Cartridges are collated by a service representative. After use is complete, attach the cap and put the cartridge into the inner bag and packing material.
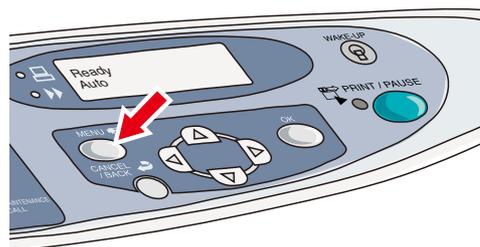
Head Maintenance

📖 **See User's Manual for Printer Main Body page 2-40.**

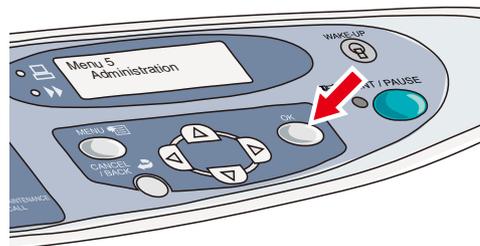**①** **Display [Ready] and press the [Menu] Key**

Ready
Auto

② **Display [Administration] and press the [OK] Key**
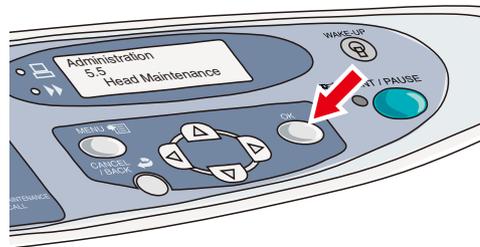
Menu 5
    Administration

③ **Use the arrow keys to display [Head Maintenance] and press the [OK] key**

Administration
    5.5
        Head Maintenance

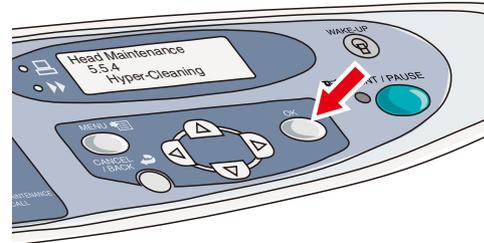**④** **Use the arrow keys to set a maintenance job and press [OK] key.**

Hyper-Cleaning
Rigorously clean each head individually

Normal-Cleaning
Clean all heads together

Head Maintenance
5.5.4
Hyper-Cleaning

Accessories

Ink Cartridge

RISO HC Ink Cyan
RISO HC Ink Magenta
RISO HC Ink Yellow
RISO HC Ink Black

Scan Function

If you connect a specified scanner to the printer by using optional scanner connection kits, the printer can be used as a colour copy machine. Use the touch panel to manage the Scan Function.

Finisher Function

If an HC Finisher is connected to the printer, finisher functions such as Stapler, Punching, and Booklet creation can be used. Also if an HC Z Folder Unit is connected additionally, the Outer 3 fold, Inner 3 fold, and Z fold functions can be used.

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