



KONICA MINOLTA

The essentials of imaging

# **bizhub PRO** **1200/1200P/1051**

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## **User's Guide**

Printer (PostScript3 Plug-in Driver)



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# 1 Introduction

Welcome to the Konica Minolta bizhub PRO 1200/1200P/1051 printer driver!

The printer driver allows you to print PostScript jobs on the bizhub PRO 1200/1200P/1051 from Windows and Macintosh applications.

The printer driver comprises a PPD which drives the standard Windows and Macintosh PostScript drivers plus a Plug-in which adds advanced printing functions to the standard drivers within an easy user interface. Windows printer installation is made easy by the Printer Installer.

The bizhub PRO 1200/1200P/1051 printer driver is described in this manual.

Additional information is available as Adobe PS printer driver help – this can be called from the printer driver.

The user's guide is stored in machine readable form (PDF format) on the User's Guide CD. You may print it for use with your bizhub PRO 1200/1200P/1051 system.

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### **Patent Notice**

The product includes an implementation of LZW licensed under U.S. Patent 4,558,302.

### **Built-in Fonts**

The image controller includes support for Adobe PostScript 3 (PS3) and includes the 136 built-in Adobe fonts. For a complete list, refer to "Font List" on Page 10-1.

## 1.2 About this Manual

This document describes how to operate bizhub PRO 1200/1200P/1051 as a printer from various computers and networks.

This manual assumes you are familiar with the basic operation of your operating system and the KONICA MINOLTA copier.

Refer to "User's Guide (POD Administrator's Reference)", "User's Guide (Copier)" or "User's Guide (Main Body)" as required for the copier operating method.

For detailed operations of Windows and Mac OS, refer to the operating manuals for each operating system. For application operations, refer to the operating manuals provided with each application.

This manual is composed of the following chapters and appendices:

Chapter	Content
Chapter 1 Introduction	This chapter contains legal notices, Copyrights and FCC terms
Chapter 2 Overview	This chapter describes the concept of the product
Chapter 3 Installation	This chapter describes how to install on Windows and Mac OS X
Chapter 4 Uninstallation	This chapter describes how to remove the software from your system
Chapter 5 Basic Printing	This chapter describes first steps to perform printing
Chapter 6 Windows Printing	This chapter gives detailed explanation of printing features and driver capabilities
Chapter 7 Mac OS X Printing	This chapter gives detailed explanation of Mac OS X specific features
Chapter 8 Printing from Special Applications	This chapter describes alternative printing methods used by some applications
Chapter 9 Troubleshooting	This chapter describes how to fix printing problems
Chapter 10 Font List	This chapter lists all fonts included in the product
Chapter 11 Paper Sizes	This chapter lists all Paper Sizes supported by the product
Chapter 12 Glossary	This chapter gives explanations about frequently used terms

### 1.3 Notation of each product

The following abbreviations are used in this manual:

1.	bizhub PRO 1200/1200P/1051 Image controller	Image controller
2.	bizhub PRO 1200/1200P/1051 Printer/Copier	copier (or main body printer)
3.	A printing system that combines the above (1) and (2) products:	printing system
4.	Microsoft Windows 2000 (Service Pack 4 or more)	Windows 2000
5.	Microsoft Windows XP: Professional/Home Edition (Service Pack 1 or more with both) /Professional x64	Windows XP
6.	Microsoft Windows Server 2003: (Service Pack 1) /Server 2003 x64	Server 2003
7.	Microsoft Windows Vista/Vista x64	Windows Vista
8.	Microsoft Windows 7/ 7 x64	Windows 7
9.	Microsoft Windows Server 2008/ Server 2008 x64	Server 2008
10.	Mac OS X v10.3x - v10.5x:	Mac OS X
11.	Above OSs:	Windows 2000/XP/ Server2003/Vista/7/ Server 2008 Mac OS X

# 1.4 How to read this Manual

Basic Printing 5

## 5 Basic Printing

This section describes basic printing from applications and the use of common printing functions.

### 5.1 Basic Printing

#### 5.1.1 Printing from Windows

This section describes basic printing from Windows.

**Shows an object and feature of a procedure**

**Describes operating procedures**

**Note**

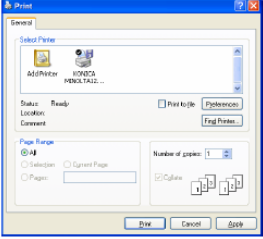
**Explanations to support the main text. Memos may be included in the main text.**

**Detail**

**Hints and Advices on operating procedures**


**[ ] are used for the terms displayed on the screens.**

- 1 Select [Print] from the [File] menu of the application.  
- The command name may be different, depending on the application.



*The print dialog may appear different depending on the application*

- 2 Select the printer in the popup menu besides [Name].
- 3 If you need to set printing details, click [Properties].  
The Plug-in appears.
- 4 Click [OK] after performing the intended setting.  
The Print dialog is shown again.



- 5 Click [OK].

The print job is sent from your computer to the image controller and then processed by the controller.

bizhub PRO 1200/1200P/1051
5-1

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## 2 Overview

The image controller feature enables the copier to connect to computers and networks to use as a printer.

### 2.1 Printer Driver

This printing system is equipped with the PostScript3 and PCL printer functions.

In order to use this printing system, it is necessary to install a printer driver in a computer.

Printer Driver	Compliant OS
PS Plug-in / PostScript PPD	Windows 2000/XP/Server 2003/ Windows Vista/Windows 7/ Server 2008 Mac OS X
PCL	Windows 2000/XP/Server 2003/ Windows Vista/Windows 7/Server 2008

Refer to “Installation“ on Page 3-1 for more information about installation of printer driver.

For the PostScript PPD and PCL Printer driver, refer to “User’s Guide (Printer)”

## 2.2 Composition of a product

These image controllers include an Ethernet-compatible network port and a USB port (USB 2.0).

### 2.2.1 Memory

The image controller is equipped with 2GB memory by default.

### 2.2.2 Other options

The following options installed on the printer enables variacle functions.

When Paper Source Unit is only PF-702, it is possible to select it from Tray1 to 5 together with the main body.

When Paper Source Unit is PF-702 and PF-703, it is possible to select it from Tray1 to 8 together with the main body.

Multi Folder (FD-503) enables to select “Punch”, “PI Cover sheet” and “Fold” function.

Multi Hole Punch Unit enables to select “Multi Punch” function.

Large PI enables to select “PI Cover sheet” function.

Saddle Stitcher enables to select “Center Staple and Fold”, “Trim” and “Fold” function. Saddle Stitcher cannot be installed when Stacker (LS-505) is installed.

Stacker enables to stack of a lot of output papers. The Stacker cannot be installed when the Saddle Stitcher is installed.

Stapler enables to select “Staple” and “Offset” function.

Installing the Perfect Binder allows you to make a roll-up bookbinding.



#### ... Note

*Installing various options built in the copier properly on the printer driver allows you to use a variety of printing functions shared by the copier.*

## 2.3 Connection of the Image controller

You can use the copier as a printer by connecting image controller to a network (Using with Ethernet connection) or a computer (USB connection).

### 2.3.1 Ethernet Connection

You can also connect the copier to computers supporting Ethernet. Several alternatives can be considered in the Ethernet connection. In any of them, you must set up the printer driver in each computer after configuring the network (such as TCP/IP settings) for the image controller or the computers.

The following print patterns are shown here as examples.

- SMB printing, LPR/LPD printing, Direct printing, Raw (Port9100) printing, web service printing.

- Printing in which AppleTalk and Bonjour from Macintosh is used.

- IPP (Internet Printing Protocol) printing

- Printing in which Novell NetWare is used.

### 2.3.2 USB Connection

You can connect your computer to the image controller via the USB port (USB 2.0).

## 2.4 Product Specifications

### Type

Type: Built-in box type for the KONICA MINOLTA Printer/Copier

### Functions

Resolution: Printing System: 600 x 600 dpi / 1200 x 1200 dpi  
Scanning resolution:  
200 dpi / 300 dpi / 400 dpi / 600 dpi / 1200 dpi  
Gradation binary

Maximum  
paper size:

Standard: SRA3 (320 x 450 mm)

Non-Standard: 324 x 463 mm

Printable Area:

Standard: Margin 3.18 mm  
(left, right, top and bottom without variation)

Non-standard: Width: 95 – 314 mm

Length: 133 – 463 mm

No. of Print: 1 to 9999

Continuous print speed bizhub PRO 1200/1200P: 120ppm (A4, 8.5 x 11)

bizhub PRO 1051 : 105ppm (A4, 8.5 x 11)  
(Since the 2nd)

Page

Description

Language:

MetaFrame  
operating

The operations of this printer driver is checked only in the following environments

Server OS: Windows 2000 Server/ Server  
2003/ Server 2008

MetaFrame: Citrix® MetaFrame XP®  
Presentation Server Feature  
Release3  
Citrix® MetaFrame®  
Presentation Server3.0

Client OS: Windows 2000/ Windows XP/  
Windows Vista/ Windows 7

ICAClient: ICA32bit

\*For operations in the configuration other than the above, contact your service representative.

**Network****Function**

Protocols:	TCP/IP, IPX/SPX, NetBEUI, IPP, EtherTalk
Compliant OS (NOS):	Novell Netware (3.x, 4.x - 6), Windows 2000/XP/Server 2003/Vista/7/Server 2008, Mac OS X
Multiple Protocols:	Automatic selection
Printing Method:	SMB printing (TCP/IP) / LPD/LPR (TCP/IP)/ Port9100 (TCP/IP) / Pserver (IPX/SPX) / NPrinter/RPrinter (IPX/SPX) / AppleTalk (EtherTalk) /Web Service printing(TCP/IP) / Bonjour(TCP/IP)
Compliant Web Browser:	Microsoft Internet Explorer Ver.6 or higher is recommended*,JavaScript is effective, and Netscape Navigator Ver.7.02 or higher (JavaScript is effective, cookie is effective), Mozilla Firefox Ver.1.0 or later (JavaScript and Cookies effective) and Flash Player Ver7.0 or later (If "Flash" is selected as the display format). *: When the Internet Explorer. 5.5 is used, Microsoft XML Parser (MSXML) 3.x should be installed.

**Paper Type**

Paper:	Same as the copier
Paper Type:	Same as the copier

**Machine media**

CPU:	Pentium M 2.0GHz (Memory Access Speed 533MHz)
System Memory:	2GB (Standard)
Power:	Obtain from main body printer
Network Interface:	Ethernet (1000BASE-T / 100BASE-TX / 10BASE-T)

**Operating Environment**

Temperature:	Same as the copier
Humidity:	Same as the copier

## 2.4.1 Restrictive Conditions

Although the Weekly Timer function of the main body printer is available in the Printer mode, the power is not turned off until the data output is finished when print data remains in the Image memory.



... **Note**

*Specifications are subject to change without notice.*

## 3 Installation

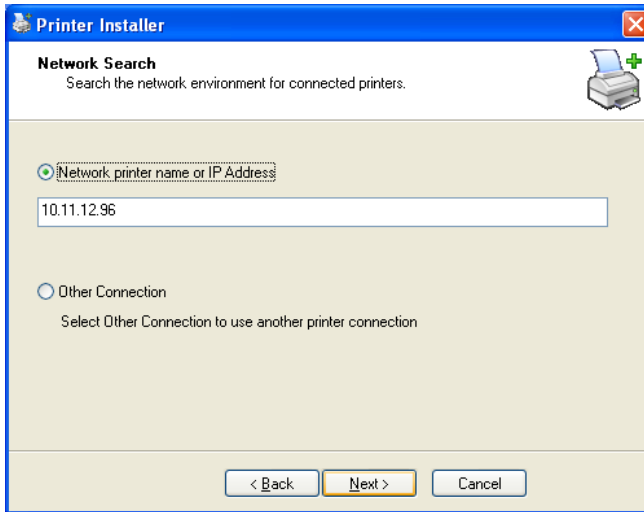
### 3.1 Windows Installation

#### 3.1.1 Printer Installer

The Printer Installer is an easy-to-use application to install Windows printers.

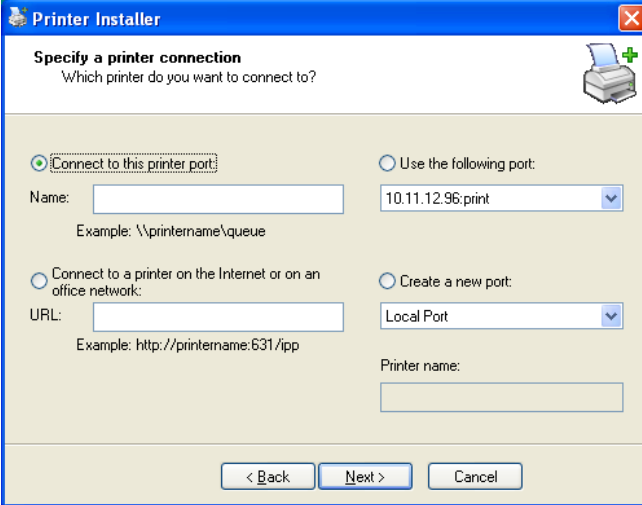
The installation should be performed by a qualified system administrator or printer administrator.

- 1 Insert the [Driver CD-ROM] into the CD-ROM drive of the computer.  
The CD starts automatically.
- 2 Select [Printer Install] – [PS] – [PS Plugin Driver].
- 3 Select [EN].  
Printer Installer starts.
- 4 Enter the printer name or IP address of your copier and click [Next].



This will install the copier as a Windows printer. The printer will be created using an lpr port, e.g. `myprinter:print`.

- 5 To establish another connection (NetBIOS or port 9100), select [Other connection], and click [Next].



**Printer Installer**

**Specify a printer connection**  
Which printer do you want to connect to?

**Connect to this printer port:**

Name:  Example: \\printername\Queue

Use the following port:

10.11.12.96:print

Connect to a printer on the Internet or on an office network:

URL:  Example: http://printername:631/ipp

Create a new port:

Local Port

Printer name:

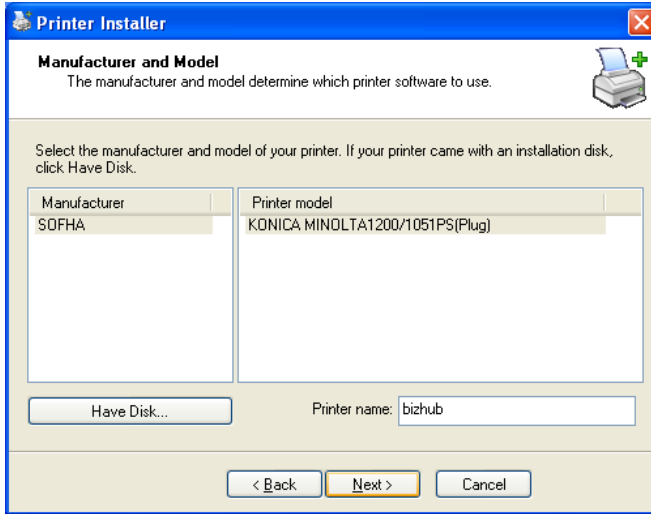
< Back   Next >   Cancel



#### Note

*If your network uses DNS, the administrator should make sure that the network name assigned to the copier matches the network name stored in the DNS.*

When the connection configuration is finished, you will be directed to the driver selection dialog.



Printer Installer shows you a list of printer models to be installed. If no model is shown, click [Have Disk] to select an .inf file in the printer driver folder on the CD-ROM for your operating system.

Select a printer model and click [Next].



**Note**

*During printer installation, Windows may show a warning about a missing digital signature. You should continue the installation anyway.*

After the printer installation, the printer can be selected from the print dialog of your applications.

### 3.1.2 Add Printer

Alternatively to the Printer Installer, you can install a printer using the [Add Printer] function.

- 1 Open the Start menu
- 2 select [Settings]
- 3 then select [Printers and Faxes].
  - If [Printers and Faxes] does not appear in the Start menu, open Control Panel from the Start menu, select [Printers and Other Hardware], and then click [Printers and Faxes].
- 4 Proceed to [Add Printer] and click [Next].

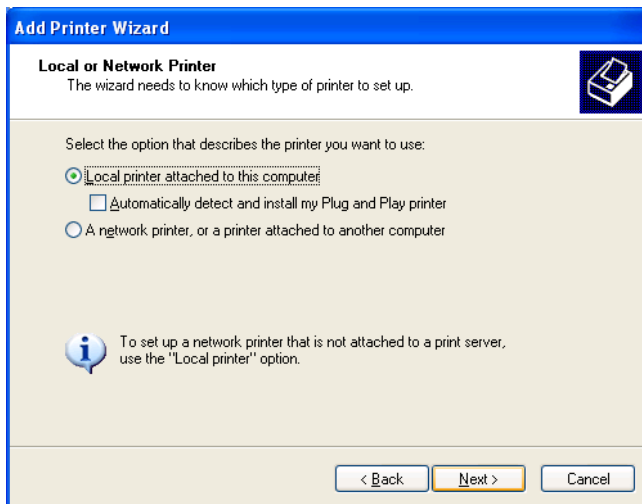


#### Note

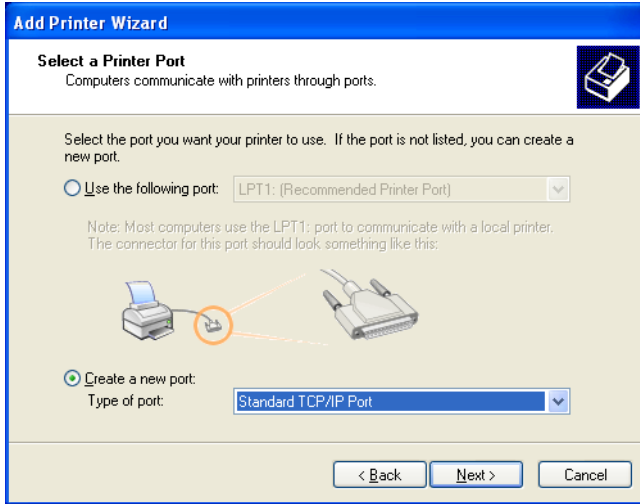
*Windows 2000: Open the Start menu, point to [Settings], and then click [Printers].*

*Windows Vista/Server 2008: Open the Start menu, and then click [Control Panel]. From [Hardware and Sound], click "Printer". -If Control Panel is displayed with Classic View, double-click "Printers".*

*Windows 7: Open the Start menu and select [Devices and Printer].*

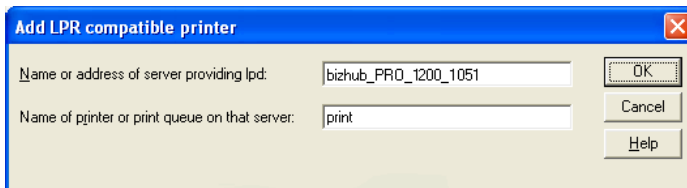


Make sure [Automatically detect Plug and Play Printer] is not checked.  
Select [Local Printer attached to this computer] and click [Next].

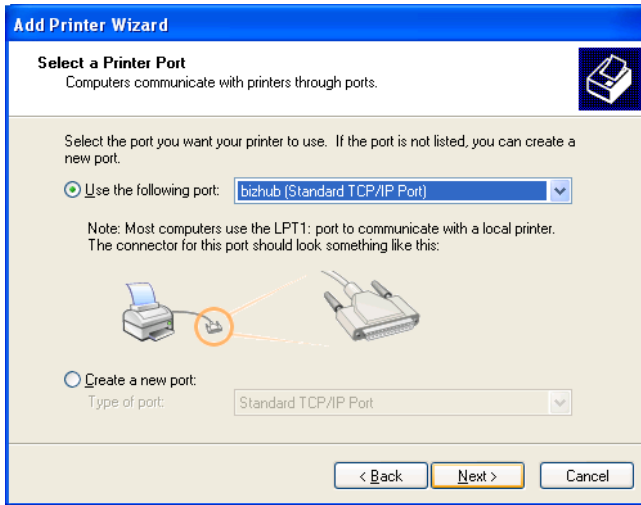


To create an lpr port,

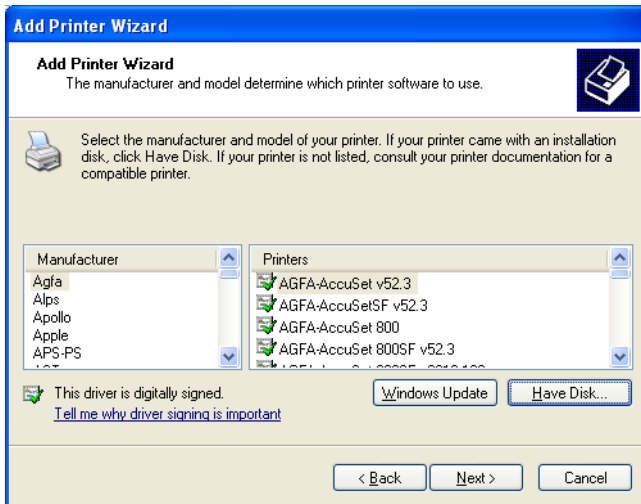
- 1 select [Create a new port]
- 2 then select [LPR port],
- 3 then click [Next].



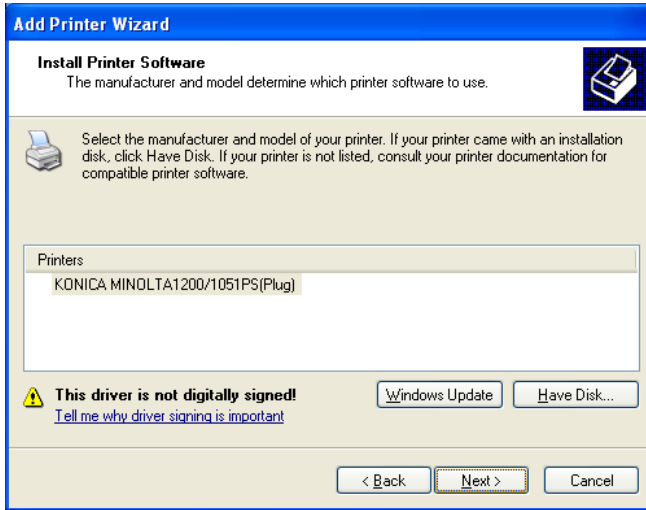
Enter the network name or IP address of your copier and **print** as queue name, then click [OK].



Click [Next].



Select [Have Disk], then select the .inf file in the printer driver folder on the CD-ROM. Then click [Next].



The resulting dialog shows the bizhub PRO 1200/1200P/1051 driver. Click [OK].

Confirm the following dialogs to conclude the printer installation.



*During printer installation, Windows may show a warning about a missing digital signature. You should continue the installation anyway.*

After the printer installation, the printer can be selected from the print dialog of your applications.

### 3.1.3 Installable Options

The installable options determine which optional accessories are available on your copier (e.g. Paper Source Unit or stapler). The installable options tailor the user interface of the printer driver on your PC and prevent the accidental selection of features which are not supported by the copier. To make the accessories available in the printer driver you must enable the corresponding installable options.

The installable options configuration dialog can be called from the printer driver Plug-in. In the panel [Configure] you can add every available optional device by choosing from a list or activating a checkbox.

To configure the installable options,

- 1 open the Start menu
- 2 select [Settings]
- 3 then select [Printers and Faxes].
  - If [Printers and Faxes] does not appear in the Start menu, open Control Panel from the Start menu, select [Printers and Other Hardware], and then click [Printers and Faxes].



**Note**

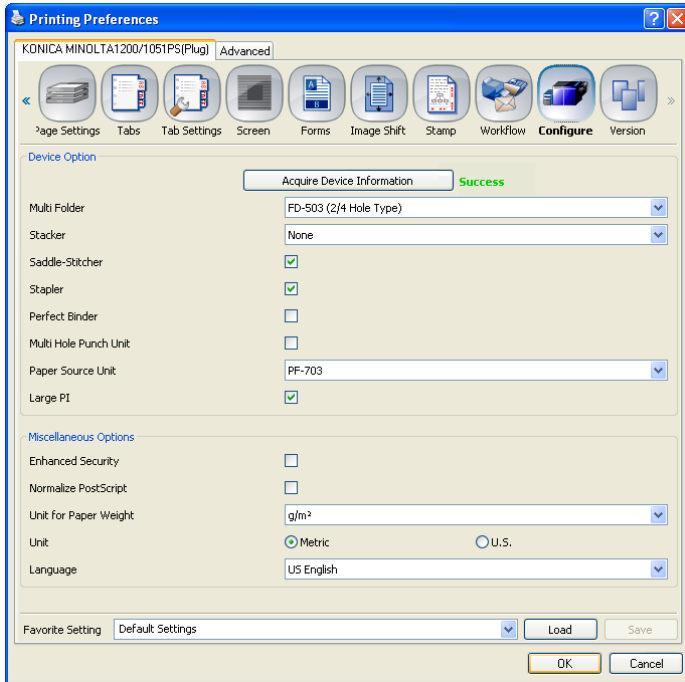
*Windows 2000: Open the Start menu, point to [Settings], and then click [Printers].*

*Windows Vista/Server 2008: Open the Start menu, and then click [Control Panel]. From [Hardware and Sound], click "Printer". -If Control Panel is displayed with Classic View, double-click "Printers".*

*Windows 7: Open the Start menu and select [Devices and Printer].*

- 4 Select [KONICA MINOLTA 1200/1051 PS(Plug)],
- 5 then select [Properties].

The printer driver Plug-in will open. Click on the arrows at the right of the panel header bar to proceed to the **Configure** panel:



Every time the **Configure** panel is called, the status of the installable options is updated. This can take a few seconds. In some cases (such as you change an installable option when the **Configure** panel is already opened), it is recommended to click [Acquire Device Information] to let the printer driver Plug-in auto-detect the installable options again.

You may also change an option value manually. This can be used, e.g. to create jobs as PostScript files for a copier which is not currently connected to your PC and may have different options installed.

Click [OK] twice to confirm your changes.

After you have enabled the available installable options, the features corresponding to those options will be available in the printer driver.

## 3.2 Mac OS X Installation

### 3.2.1 Installing the Printer Driver Software

The bizhub PRO 1200/1051 client software is delivered on a hybrid Windows and Macintosh CD-ROM.

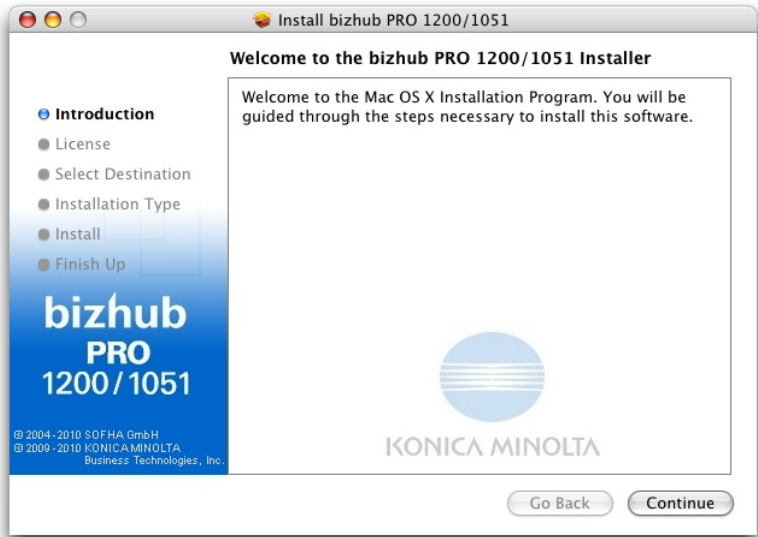
Double-click the CD-ROM icon that was automatically created after insertion of the CD and browse to the folder **Drivers » PS Plugin Driver » OS10\_X**.



The Mac OS X printer driver comes as an installer package containing the software for all languages.

Double click the [bizhub PRO 1200/1051] package icon to install the bizhub PRO 1200/1051 software. The Welcome screen is shown.

This chapter is explained using Mac OS X 10.4.



By click on [Continue] you will be prompted to confirm the End User License Agreement.



Click on [Continue] again to go to the next screen. You will be asked, on

which partition the software shall be installed.



After confirming another info screen, the installation process will be completed.

The installer installs the software for Mac OS X version 10.5, 10.4, or 10.3.

The bizhub PRO 1200/1200P/1051 printer driver reference guide is stored as a PDF file on the desktop. You may print it for use with the copier. For printing a PDF file you need Adobe Reader (Acrobat Reader) which is available from <http://www.adobe.com>.

### 3.2.2 Installing a Printer

For installation of a printer there are three stages to go through.

1. Configure network settings at the copier. Please refer to the User's guide [POD Administrator reference] for more information about setting up the network connections (Bonjour, AppleTalk, LPR/IPP settings) at the copier.
2. Configure network settings at your client computer. For details see below.
3. Add a printer. For details see below.

#### Configure network settings at your client computer

Note: for Bonjour (Mac OS X 10.3: Rendezvous) there are no settings

necessary to prepare the network at your client computer.

- 1 In the "Apple" menu, select [System Preferences].
- 2 Click [Network]
- 3 From [Show], select [Built-in Ethernet].
- 4 AppleTalk: Click the [AppleTalk] tab and activate the checkbox [Make AppleTalk active].  
LPR or IPP: Click the [TCP/IP] tab to set an IP address and subnet mask, if necessary.
- 5 Click [Apply (now)].
- 6 Click the "Close" button on the upper left of the window.

If the message "This service has unsaved changes" (Mac OS X 10.5) appears, click [Apply] to confirm the changes you made.

#### **Adding a printer (Mac OS X 10.4/10.5)**

- 1 In the "Apple" menu, select [System Preferences].
- 2 Click [Print & Fax]
- 3 Click [+] provided on the lower left of the window.  
Bonjour/AppleTalk: In the list of detected printers in the [Default Browser] tab select the desired printer.  
LPR/IPP: Select a protocol in the [IP Printer] tab and enter the IP address of the copier. (For IPP, additionally enter "ipp" as queue name.)
- 4 Mac OS X 10.5: click [Print using] -> [Select a driver to use] -> select [KONICA MINOLTA 1200/1051PS(Plug)] from the list, and click [Add]. You can enter search terms in the text box to narrow your results.  
Mac OS X 10.4: click [Print using] -> select [KONICA MINOLTA] from the manufacturers list, -> select [KONICA MINOLTA 1200/1051PS(Plug)], and click [Add].

The new printer is displayed in the printer list.

### Adding a printer (Mac OS X 10.3)

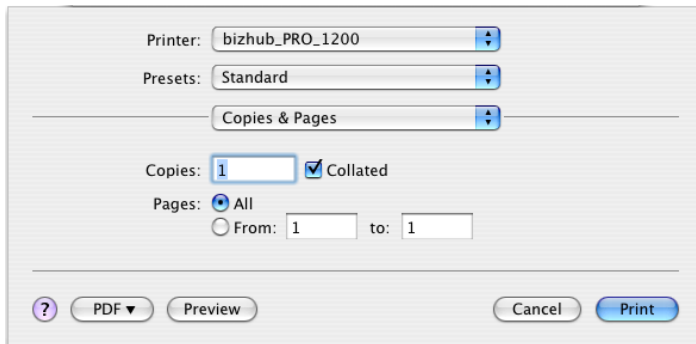
- 1 In the "Apple" menu, select [System Preferences].
- 2 Click [Print & Fax].
- 3 Click [Setup printers]. When the [Printer list] appears, click [Add].
- 4 AppleTalk/Rendezvous: Select AppleTalk or Rendezvous as connection method, and then the desired printer.  
LPR/IPP: Select IPP Printing as connection method, and select [LPD/LPR] or [Internet Printing Protocol] in [Printer Type]. Then enter the IP address of the copier in [Printer Address].
- 5 After selecting [KONICA MINOLTA] in [Print Model], select [KONICA MINOLTA 1200/1051PS(Plug)] from the list, and click [Add].

The new printer is displayed in the printer list.

### 3.2.3 Installable Options

The installable options tailor the user interface of the printer driver on your Mac and prevent the accidental selection of features which are not supported by the copier. The installable options determine which optional accessories are available at your engine (e.g. Paper Source Unit or stapler). To make the accessories available in the printer driver you must enable the corresponding installable options.

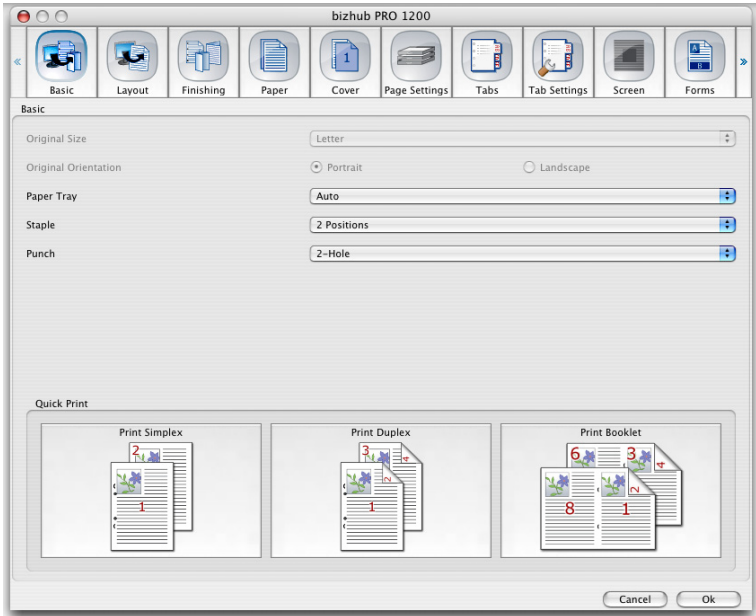
To configure the installable options, open the print dialog of your document's application and click on [Copies & Pages].



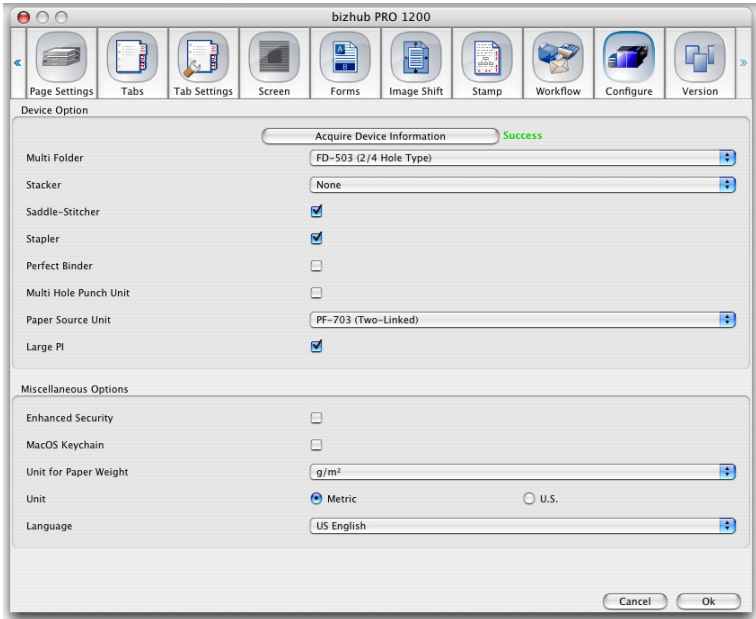
From the scroll-down menu, select **bizhub PRO 1200/1051**.



Below the info screen there is a button named [Settings]. By clicking this button, you access the printer driver Plug-in.



The Printer driver Plug-in is arranged in panels which can be activated by clicking on the symbol at the top. To access the installable options, click on the arrows right of the panel header bar to proceed to the panel [Configure].



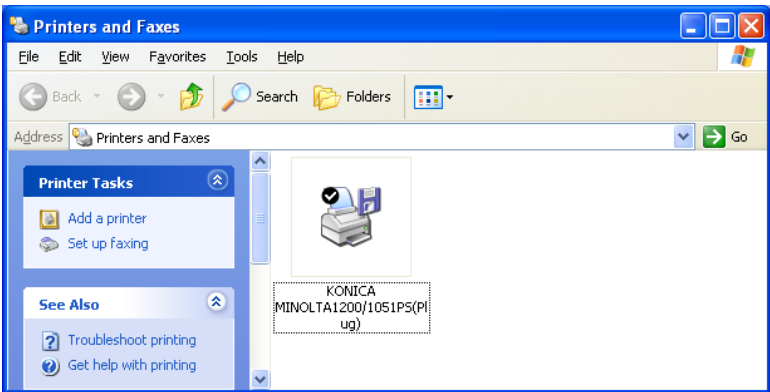
To configure installable options, see section 3.1.3 "Installable Options" under Windows.

## 4 Uninstallation of the Printer Driver

### 4.1 Windows

To remove the KONICA MINOLTA bizhub PRO 1200/1200P/1051 PS printer driver from your computer, you must close all applications that may have used the printer. Then follow these steps:

- 1 Click on [Start] and select [Printers and faxes]. You will get this screen:



- 2 Right-click on the printer to remove and select [Delete].

If the printer you want to remove is fit with a checkmark in a black circle. This is the symbol for the “standard printer“. When you delete the current standard printer, a message will come up and inform you which of the remaining printers will be the new standard printer.



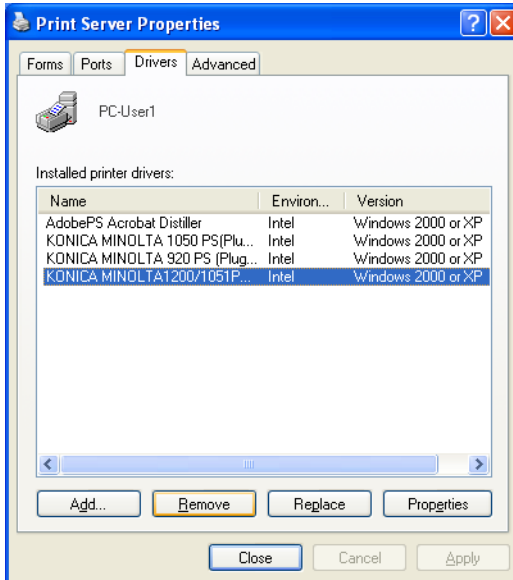
After that, you have to delete the driver files from the system.

- 3 Click on [File] and then [Print Server Properties].

**Note**

*Windows 7: Select a printer icon and then [Print Server Properties].*

- 4 Select the drivers tab and mark the driver name.



- 5 Click [Remove] to delete the driver from the system.

To remove the Printer Installer and the files of the installer package, open the windows control panel, select [Add or Remove Programs], search for “KONICA MINOLTA bizhub PRO 1200/1051 PS(Plug)” in the shown list and click on the [Change/Remove] button.

Follow the instructions on the screen to remove the driver files and the Printer Installer from your hard disk.

## 4.2 Mac OS X

To uninstall, simply delete the printer driver related files from the computer.

- 1 Delete the KONICA MINOLTA bizhub PRO 1200/1051 PS(Plug) printer from Print & Fax.
- 2 Double-click on the hard disk icon on your desktop that symbolizes your current Operating System,
- 3 open the folder [Library] of the hard disk,
- 4 then open the subfolder [Printers],
- 5 and then the [KONICA\_MINOLTA] folder.

If no other KONICA MINOLTA printer driver is used on your system, then you can delete the complete [KONICA MINOLTA] folder.

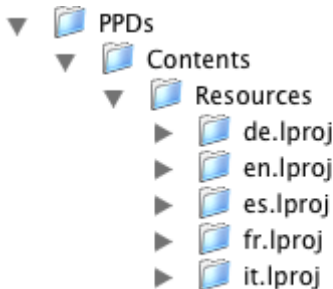
If any other KONICA MINOLTA printer driver is used on your system, then you will have to remove the following files within the [KONICA MINOLTA] folder (and the contained subfolders):

Filters/pstobizhub\_PRO\_1200

PDEs/bizhub\_PRO\_1200.plugin

Printer Icons/bizhub\_PRO\_1200.icns

Additionally, there are the ppd (PostScriptPrinter description) files to delete. Navigate to the folder [Printers] mentioned in step 4 and open the subfolder PPDs/Contents/Resources. The subfolders named by language (e.g. “en.lproj”, “ja.lproj” or “fr.lproj”) contain files with the name “KOI1200\_.ppd”, or, in case of Japanese, “KOI1200J.ppd”. Move them to the trash icon to delete.



- 6 Drag the [bizhub\_PRO\_1200.pkg] file, which is located in [Library] - [Receipts] to the trash icon.
- 7 Restart the computer.

## 5 Basic Printing and Common Printing Functions

This section describes basic printing from applications and the use of common printing functions.

### 5.1 Basic Printing

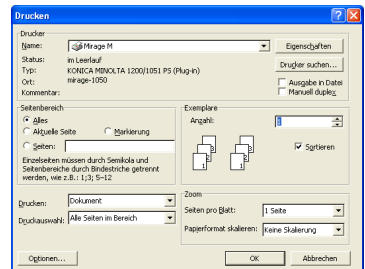
#### 5.1.1 Basic Printing from Windows

This section describes basic printing from Windows.

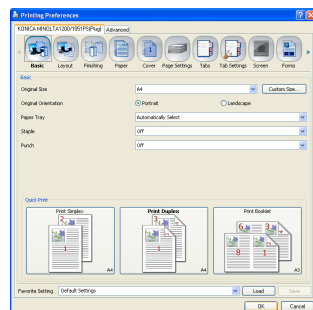
The content of the Print dialog may be different, depending on the application. The description in this section is based on Microsoft Word and WordPad.

- 1 Select [Print] from the [File] menu of the application.
  - The command name may be different, depending on the application.

The Print dialog appears.



- 2 Select the printer in the popup menu besides [Name].
- 3 If you need to set printing details, click [Properties].  
The Plug-in appears.
- 4 Click [OK] after performing the intended setting.  
The Print dialog is shown again.



- 5 Click [OK].

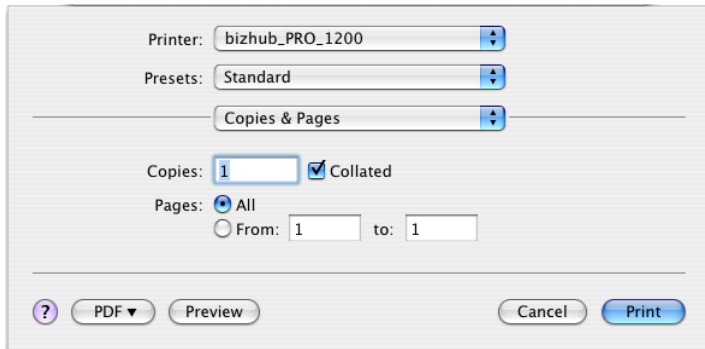
The print job is sent from your computer to the image controller and then processed by the controller.

## 5.1.2 Basic Printing from Mac OS X

After a document has been created in an application, it can be printed on a copier.

Printing the document is initiated in the Print dialog, which calls the printer driver to generate a PostScript data stream, the job. The data stream represents the elements on the document pages. It is amended by detailed instructions for processing, the job ticket. The job ticket contains information like page size and orientation, number of copies, tray selection, imposition and finishing modes.

To print a document, select [Print] from the [File] menu.



The popup labeled **Printer** allows you to select the printer which corresponds to the target copier.

The popup labeled **Presets** allows you to save and load your own named combinations of settings. To save the current settings, select [Save as ...] and enter a name for them. After this, the saved settings can be selected by this name from the popup.

The unlabeled third popup allows you to select a panel of the Print dialog, including the panels of the printer driver Plug-in.

In the **Copies and Pages** panel, you can select the following options:

The range of pages to be printed

The number of copies to be printed

In the **Paper Feed** panel, you can select the following options:

All pages from – the tray to be used for printing. Autoselect means the selection is performed in the engine, based on output paper size, orientation, and finishing requirements. See sections 6.3.4 “Paper” and 6.3.6 “Page Settings” for details on paper and tray selection.

Note: Do not use the **First page from** option in this panel. To print pages from other trays than the job tray, use the selections in the [Cover] and [Page Settings] panels of the printer driver Plug-in. See sections 6.3.5 “Cover” and 6.3.6 “Page Settings”.

In the [Paper Handling] panel, you can select the following options:

[Page order] – selects front to back or back to front printing. Reordering is applied to document pages, i.e., pages are reversed before imposition (booklet etc.) is performed. See also “Face up” in section 6.3.3 “Finishing”.

From [PDF] scroll-down menu you can select the following options:

[Save as File] – allows you to print your job to a file (as PDF or as PostScript) and let it be printed on a copier to which you are not connected now.



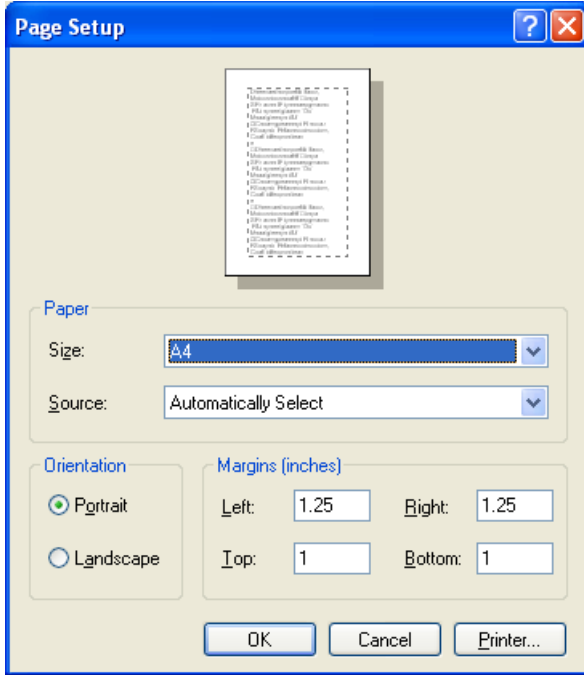
**Note**

*When you print to a PostScript file, code for some features of the Plug-in will not be included in the job because the CUPS filter will not run.*

## 5.2 Common Printing Functions

### 5.2.1 Setting Page Size and Orientation

Click on [File] -> [Page Setup] in your application.

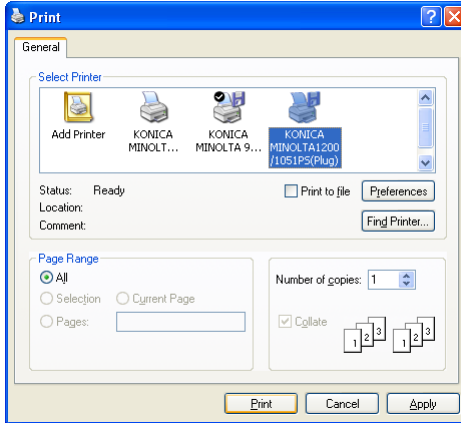


Select the suitable page size and orientation. Click on [Printer...] to select your bizhub PRO 1200/1200P/1051 printer driver to make paper sizes available which are defined on the engine.

For detailed information about defining named paper sizes, see section 6.3.4 “Paper”.

## 5.2.2 Printing multiple Copies

Click on [File] -> [Print] in your application to print an opened document. The printer dialog will open:



Enter the desired number in the field [Number of copies].

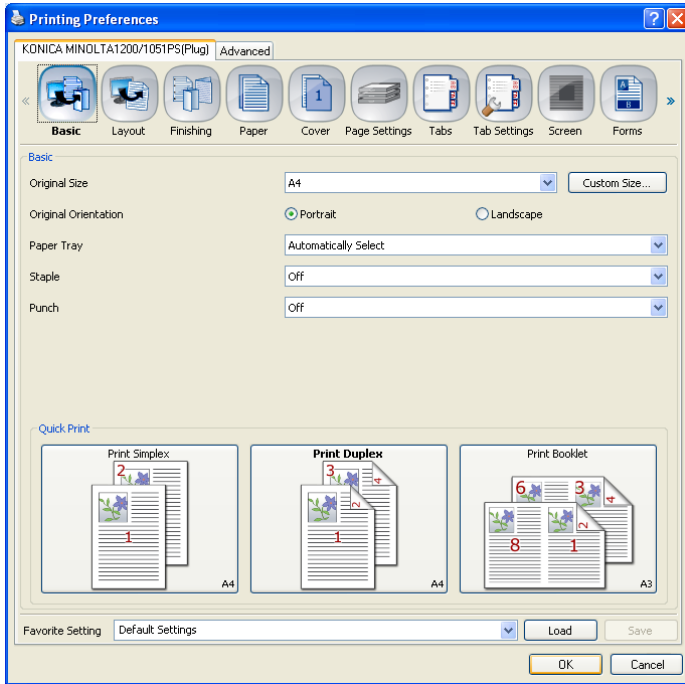


### Note

*Some applications offer you the [Collate] option. Do not use this option to get sorted sets of documents, but use the [Sort] check box in the [Finishing] panel of the printer driver Plug-in.*

### 5.2.3 Printing Duplex

For double-sided (duplex) printing open the printer driver Plug-in by clicking on [File] -> [Print] in your application. By default the Basic panel is shown when opening the Plug-in. Here you can use the quick print buttons to easily create the desired output. Just click on the button [Print duplex] in the lower middle of the panel.

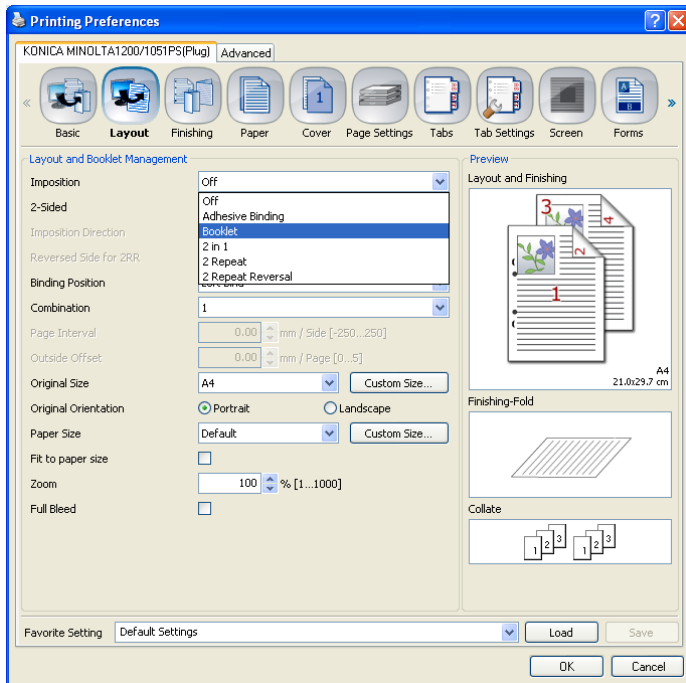


The Plug-in is closed, and the main print dialog is shown again. Click [Print] to start printing.

## 5.2.4 Printing a Booklet, Combination, or other Imposition

To print a document on paper in any other than simple imposition, open the Layout panel of the Plug-in. The drop-down menu [Imposition] shows your choices for imposition:

Off, Adhesive Binding, Booklet, 2 in 1, 2 Repeat, and 2 Repeat Reversal.

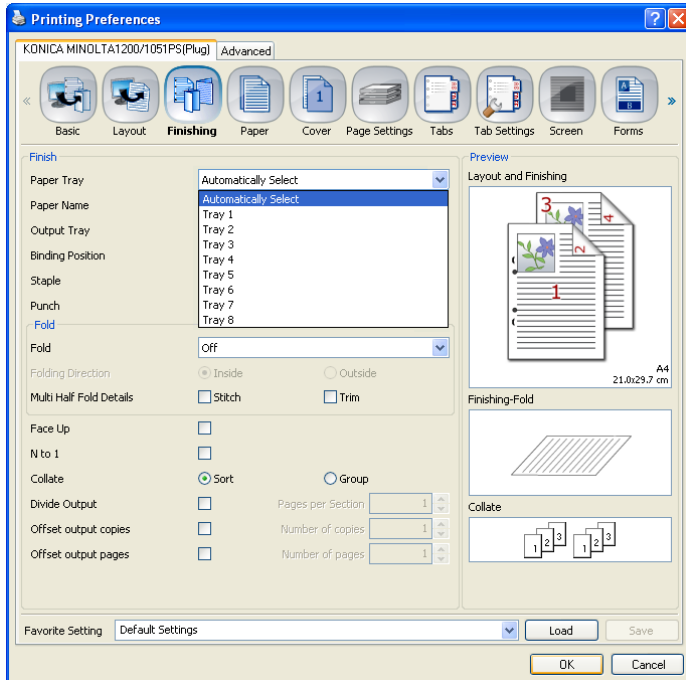


If you want to print 4, 8 or even 16 pages on one side of a sheet of paper, set [Imposition] to [Off] and select your desired print mode from the [Combination] pull-down menu. See section 6.3.2 “Layout” for details.

Always check your settings with the preview window on the right side of the panel.

## 5.2.5 Selecting the Input Tray

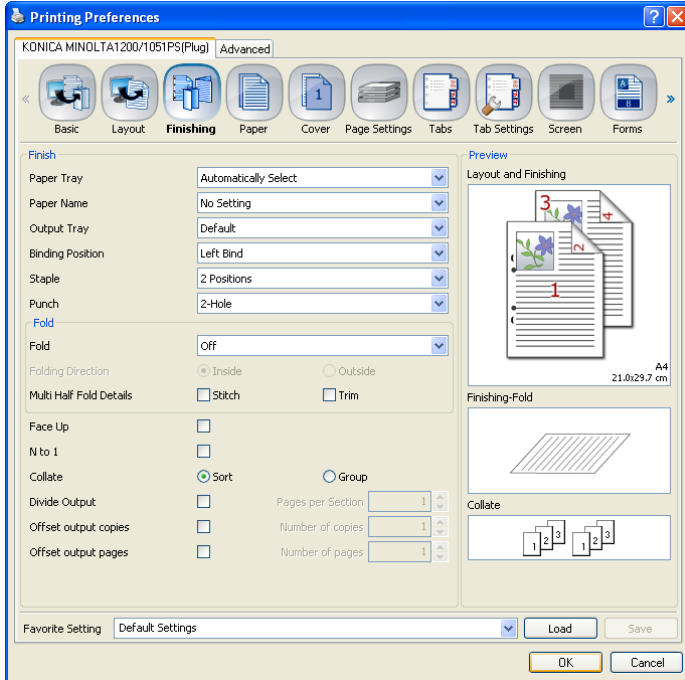
To print a document on paper from a specific tray, open the Finishing panel of the printer driver Plug-in.



Select your desired tray from the first drop-down menu. Available are [Automatically select] and [Tray 1] to [Tray 8] (depending on the status of the installed optional devices). Make sure that the selected tray contains compatible media (e.g. A3 or Tabloid documents can't be printed on A4 or Letter paper).

## 5.2.6 Selecting Finishing Options

Depending on the installed optional devices (see section 6.3.14) there are various finishing options to select in the finishing panel.



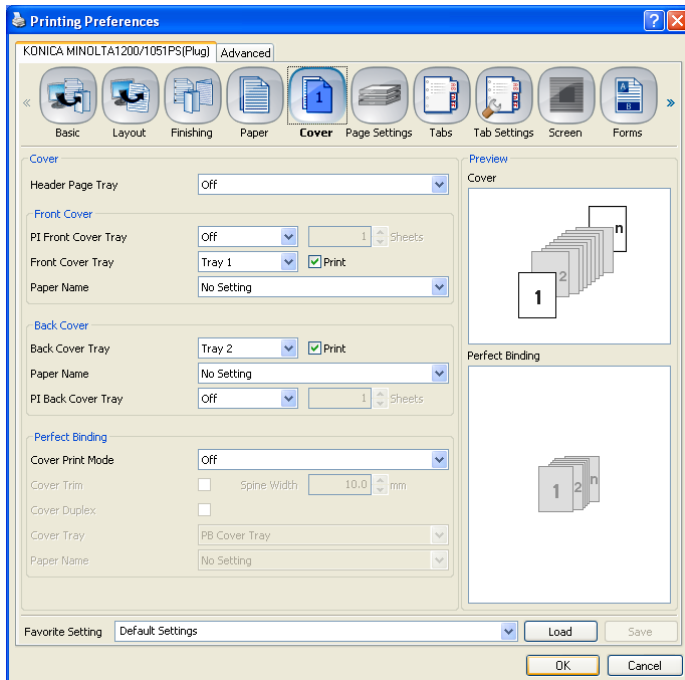
You can apply staples, make punch holes, and you can select from various types of folding.

[Binding position] determines the paper side at which the staples or punch holes are placed. You can choose from [Left], [Right] or [Top].

For detailed information about finishing options see section 6.3.3 “Finishing”.

## 5.2.7 Adding a front or back Cover

To add a cover to your document, open the Cover panel of the printer driver Plug-in.



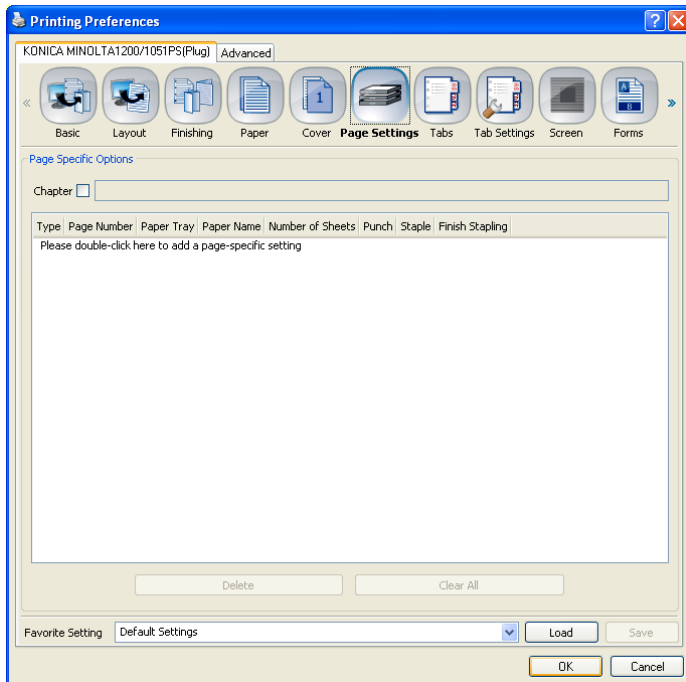
Here you can specify a tray for the cover to be drawn from.

- 1 Select a tray for the front cover from the pull-down menu [Front cover tray].
- 2 Right of [Front cover tray], check [Print] if the first document page shall be printed on the front cover page.
- 3 Select a tray for the back cover from the pull-down menu [Back cover tray].
- 4 Right of [Back cover tray], check [Print] if the last document page shall be printed on the back cover page.

For detailed information about covers see section 6.3.5. "Cover".

## 5.2.8 Selecting Insertion Sheets

To insert sheets into your job, open the Page Settings panel of the printer driver Plug-in.

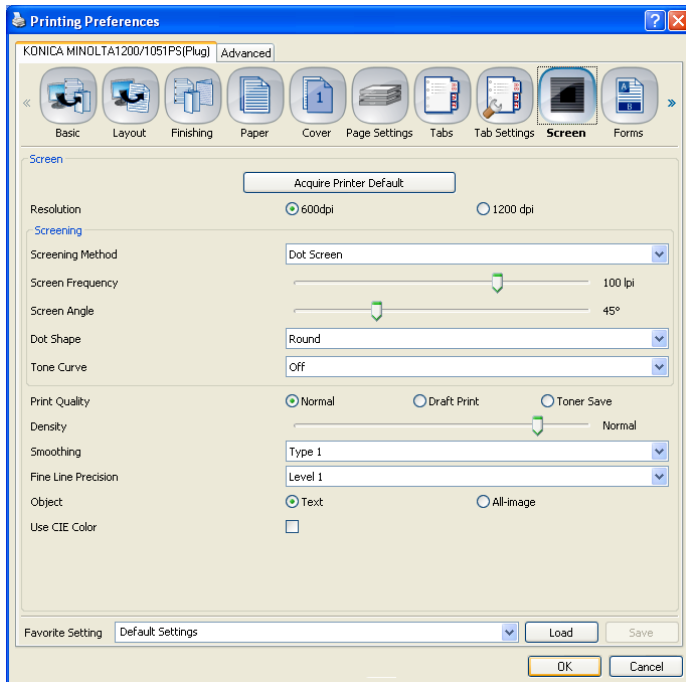


- 1 In the [Type] column of the main list of settings, click on [Please double-click here to add a page specific tray].
- 2 From the pull-down menu select your desired action (e.g. [Insert Blank sheet]).
- 3 Double-click in the field [Page Number] in that row and specify a page number.
- 4 Double-click, if necessary, in the fields [Paper tray] and/or [Paper name] to select a specific tray containing the desired paper or select a named paper type.

For detailed information about defining named paper sizes, see section 6.3.4 “Paper”.

## 5.2.9 Setting image quality and toner saving

To set print and image quality, open the Screen panel of the printer driver Plug-in.



In this panel you can set the [Resolution] of the printed document (600 or 1200 dpi). Also you can set the [Screen Frequency], (measured in lines per inch, lpi). Higher values at screen frequency yield a finer raster, but allow less grey levels to be distinguished.

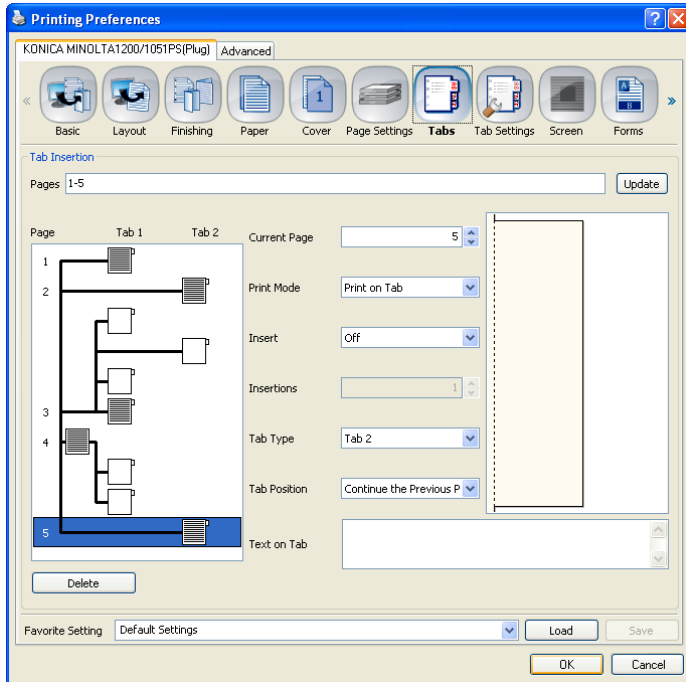
[Screen Angle] allows to adjust the angle (measured in degrees,°) in which the raster lines are applied against a virtual horizontal line. In general, you don't need to change the default setting.

[Print Quality] can reduce the amount of used toner in two steps for e.g. previews of documents to print.

For detailed information about image and print quality see section 6.3.9 "Screen".

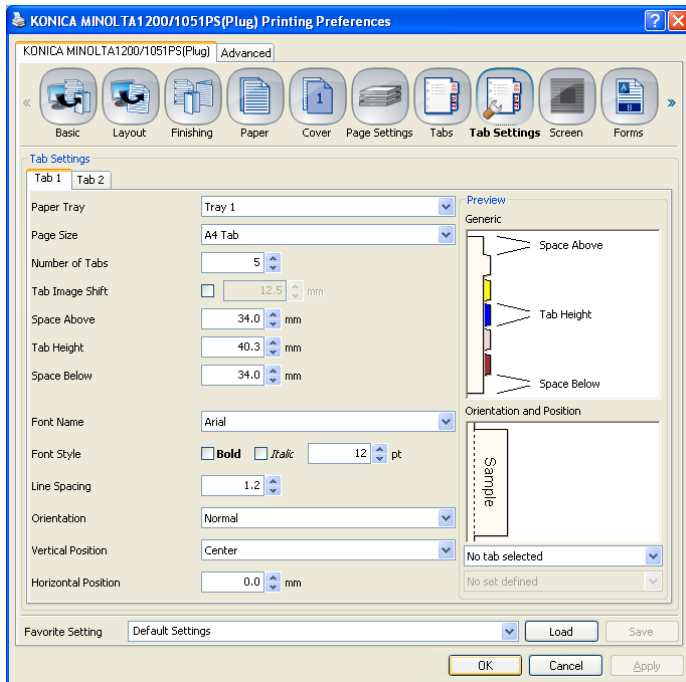
## 5.2.10 Printing with Tab paper

To print with tab paper and insert blank tab pages into your document, open the Tabs panel of the printer driver Plug-in.



- 1 Enter a page number in the field [Pages].
- 2 Click [Update].
- 3 In the list window, click on the entry with your page number.
- 4 Select if this page shall be a normal page or a tab page by choosing the [Print mode] (available are "Print on Tab" or "Print on Body").
- 5 Select which tab type shall be applied by choosing the [Tab type] (available are "Tab 1" or "Tab 2").
- 6 Enter, if desired, in [Text on Tab] a text to be printed on the tab (if [Print mode] is "Print on Tab").

- 7 Open the Tab settings panel.
- 8 Select the desired appearance for your tab page (Font, size, style, alignment etc.).



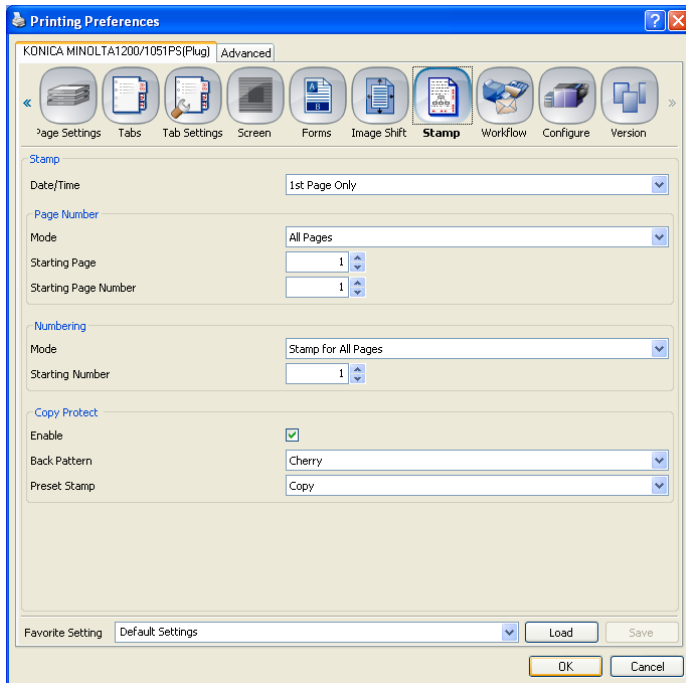
Alternatively, if you want to insert a blank tab, return to the Tab panel and execute following steps:

- 1 Enter a page number in [Pages] and click [Update].
- 2 Select your page in the list window.
- 3 Click on [Insert] and select if a blank tab shall be inserted before or after your current page.
- 4 If you want to insert multiple tab pages, enter a value in [Insertions]

For detailed information about tab printing, see section 6.3.7 “Tabs” and section 6.3.8 “Tab Settings”.

## 5.2.11 Adding a Watermark and Page Number

To add security items to your document, e.g. watermarks, copy-protective background patterns or remarks for copies, applying page numbers or date/time, open the Stamp panel of the printer driver Plug-in.

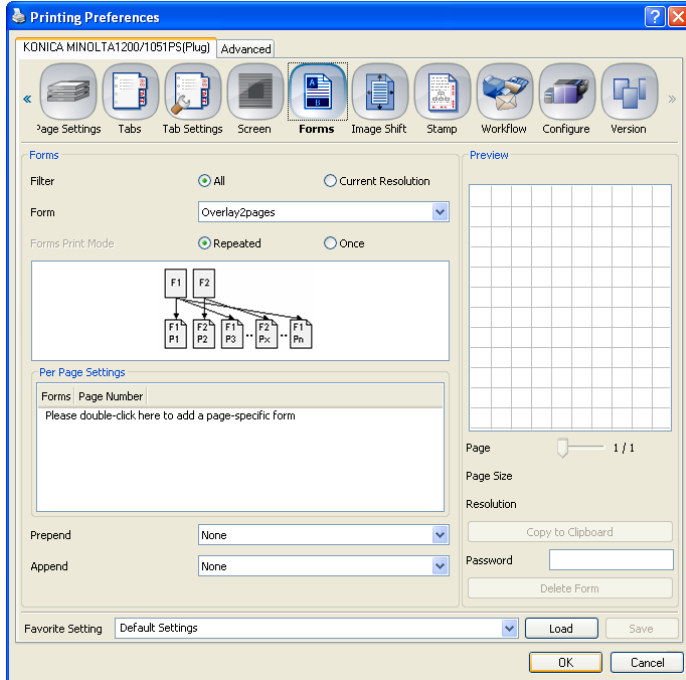


Here you can set date/time prints on the first or all pages, print page numbers on first/last or all pages with control over starting number and the page where to start, you can apply a copy number on first or all pages and you can set a background pattern to make photo-copying impossible.

For detailed information about watermarks and page numbering see section 6.3.12 “Stamp”.

## 5.2.12 Using Forms for Overlay

To add a form to your document as overlay, open the Forms panel of the printer driver Plug-in.



The scroll-down menu [Form] shows a list of all forms stored on the engine. To apply,

- 1 Choose a form to overlay on your document.

The preview window on the right shows the first page of your form. The form overlay starts on the first page of your document and follows the pattern shown in the illustration below [Forms print pattern].

- 2 Select the desired pattern. Available are [Once] and [Repeated].

Click [OK] to apply and proceed to the main printer dialog.

If you do not wish to apply forms from the first page on, but on distinct selected pages, use the [Per page settings] list.

- 1 Click on [Please double-click here...] and select a form.
- 2 Double-click on the empty field below [Pages] in the same row and enter a page number or a range of page numbers (e.g. 14 -23).

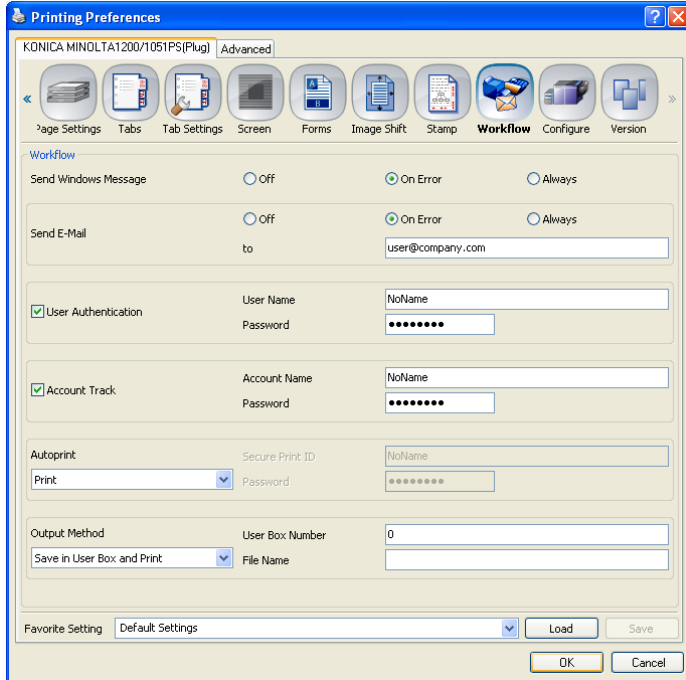
Click [OK] to apply and proceed to the main printer dialog.

**Note**

*Forms to overlay must match the resolution of the main document. To make sure that the resolution of the main document (see section 5.2.9 "Setting image quality and toner saving" and section 6.3.9 "Screen") and the resolution of the form is the same, use the setting [Filter] and select [current resolution]. If you do so, only forms that match the resolution of your document are displayed in the forms list.*

### 5.2.13 Storing a job for reprinting

To keep a job in the printer, go to the [Workflow] panel of the printer driver Plug-in.



In the item “Output method”,

- 1 select [Save in User Box (and print)],
- 2 enter a one to nine digit number code ( this is called a “user box”) and a file name.
- 3 Click “OK”.
- 4 Click on [Print] in the main Print dialog of your application.

The document is stored in the public folder of the printer (or printed and additionally stored in the printer).

For more information about job storing see section 6.3.13 “Workflow”.

### 5.2.14 Secure Printing

If you want to print a confidential document, select [Secure Print] in the Workflow panel (see below).



The image shows a software interface for secure printing. It features a light beige background with a thin blue border on the right. On the left, there is a section labeled 'Autoprint' with a dropdown menu currently set to 'Secure Print'. To the right of this is a section labeled 'Secure Print ID' with a text input field containing 'NoName'. Below the 'Secure Print ID' field is a 'Password' field with a masked password represented by seven black dots.

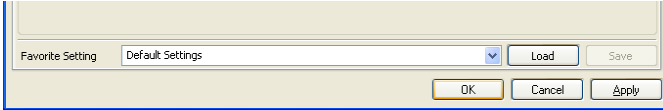
**Secure Print** encloses a secure print id and a password with your job. This identification will be used to ensure that the job is printed in your presence. The job will be put into the Secure Folder and only be printed after you release it on the copier panel by entering the password.

For more information about secure printing see section 6.3.13 “Workflow”.

## 5.2.15 Saving Printer Driver Settings

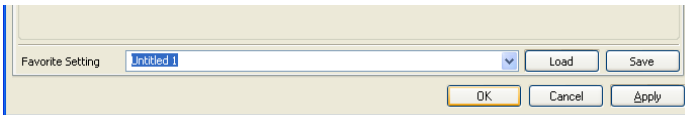
Specify any setting in any panel. When you're done,

- 1 Click in any panel on the pull-down menu [Favorite settings].



- 2 Select any other entry than “Default Setting” (by default, they are named “Untitled 1” to “Untitled 30”).

The [Save] button becomes active.



- 3 Enter the desired name for your printer driver settings.
- 4 Click [Save].

You are now able to restore all driver settings at one click. Simply select in any panel the favorite setting [*your entered name*] and click [Load].

To reset all settings to the first default (the state after the installation of the Plug-in), select [Default Settings] and click [Load].



### Note

*The identification and password settings for Secure Print, User Authentication, and Account Track are not cleared when you load the **Default Settings**. To clear them, enter other values manually.*

For further details about secure printing and identification, see section 6.3.13 “Workflow”

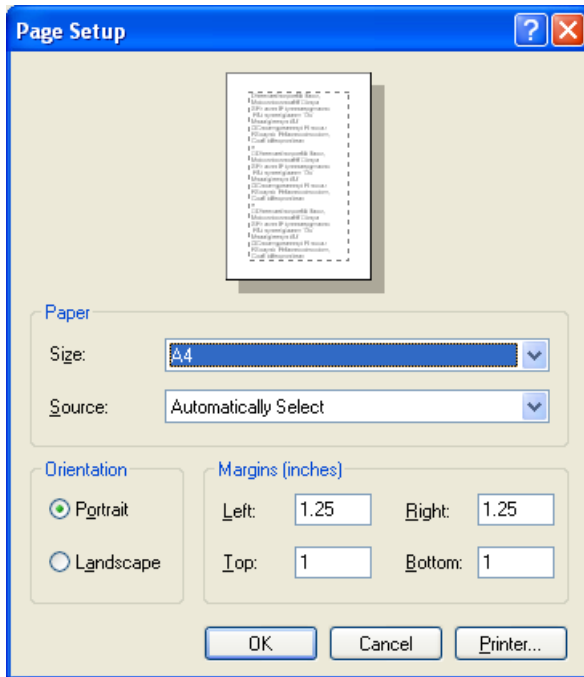
## 6 Windows Printing

This section describes how to configure a printer, how to setup a document for printing, and how to print from an application.

### 6.1 Page Setup

Before you can print a document, you must determine its size and orientation. Usually, the size and orientation of a new document are predefined as A4 or Letter and portrait, so you may not need to care.

To determine the document page size, select [File] » [Page Setup] (or a similar command, depending on your application).



In the resulting dialog, select the size, orientation (portrait or landscape), and margins to be used for your document.

The paper sizes of the copier are described in section 11 “Paper Sizes”.

How to print full bleed using wide document page sizes and wide paper sizes (only for documents created with older versions of the printer driver) is described in the section below.

If you do not find all copier paper sizes under **Size**, click [Printer] and then select [KONICA MINOLTA 1200/1051 PS(Plug)] as current printer to make the paper sizes of the copier available. – In MS Word, open [File] » [Print], select [KONICA MINOLTA 1200/1051 PS(Plug)], and close the Print dialog to select your copier as the current printer.

Note that the document page size may be different from the paper size on which you print. E.g. if you print using booklet layout, the paper size will be twice the document page size. The output paper size can be selected in the Layout panel. See section 6.3.2 “Layout” for details.

Selecting non-zero margins will warn you if you place printing elements outside the margins and try to print.

### 6.1.1 Full bleed, Wide page and paper size

The common way to print Full Bleed is simply checking the “Full Bleed” box in the Layout panel of the printer driver. If you do so, the printer driver will use the whole area of the paper to place print data on without clearing a margin around the image area. See also section 6.3.2 “Layout”.

However, for reasons of backward compatibility, you can also print documents created with older versions of the printer driver in full bleed mode using wide paper sizes.



#### Detail

*Normal page sizes, e.g. A4 and Letter, are defined with a margin (9 PostScript points, 3.18 mm, 1/8 of an inch) on each edge. The imageable area of the page is smaller than the page size (A4 or Letter) by this amount. This prevents full bleed printing for normal page sizes.*

*Wide document page sizes, e.g. A4 Wide and Letter Wide, are defined with a margin (7 PostScript points, 2.47 mm, 1/10 of an inch) which is added on each edge of the page. The wide page size is bigger than the base page size (A4 or Letter) by this amount. The imageable area is equal to the base page size. This allows you to compose documents which fill the base page size to the edge. By default, a job with wide page size will be printed on wide paper.*

Wide paper sizes must be configured at the copier. A wide paper size should be bigger than the corresponding base size. It need not have the same size as the corresponding wide document page size (base size + 7 points on each edge), but is recognized by its name. Printing on wide paper is performed in full bleed mode, i.e. the base size is printed without leaving a margin. By default, documents printed on wide paper will be centered on the paper.

For a list of wide page and paper sizes, see section 11 “Paper Sizes”.

### 6.1.2 Custom page size

Custom page sizes can be determined in three ways:

By defining forms within the Printers and Faxes dialog

By defining custom page sizes in the paper panel of the printer driver Plug-in

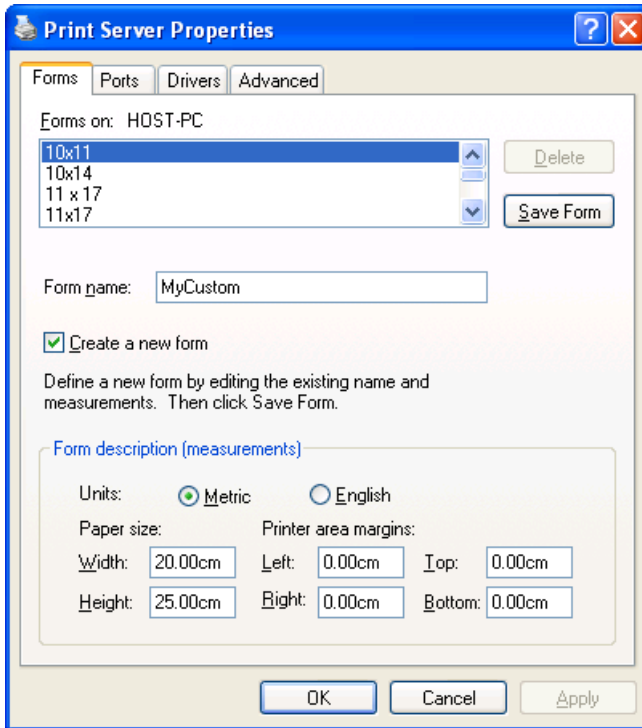
By entering the PostScript custom size in the page setup dialog of your application.

#### Forms

Windows XP allows to define multiple named forms which can be used like standard paper sizes.

To define a form, open

- 1 [Start menu],
- 2 select [Settings]
- 3 then go to [Printers and Faxes]  
Make sure no printer is selected.
- 4 select [File]
- 5 then [Server Properties]  
This shows the Properties of Print Server dialog.
- 6 In the Forms panel, check [Create a new form].
- 7 Enter the name and the size of the form and click [Save Form].



**8** Define more forms or click [Close] to finish the creation of forms.

The created forms will be available like standard page sizes for each printer (provided they fit the limits for custom page size on the respective printer).

The created forms will also be available like standard output paper sizes for the copier.

**9** In your application, select [File] » [Page Setup], then select a form and enter the orientation.

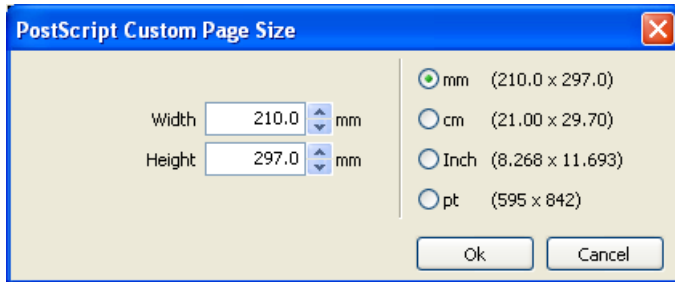


**Note**

*For more information, refer to your Windows documentation.*

### PostScript Custom Page Size

- 1 To define a PostScript Custom Page Size from within the Printer Driver Plug-in, open [Basic] or [Layout] panel,
- 2 Click on the button [Custom Size...] right of the drop-down box in the line **Original Size**,
- 3 Enter the values for width and height as well as the measuring unit for your values and
- 4 Click [OK].



The [Original size] in the [Basic] and [Layout] panel will now be shown as "PostScript Custom Page size". Additionally, the paper sizes list in the [Paper] panel, will be contain the same entry .

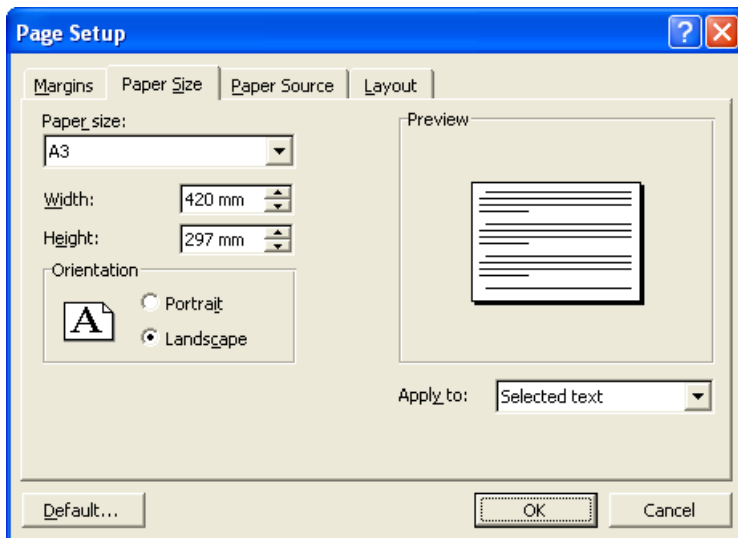
### 6.1.3 Mixed page sizes

Some applications allow you to create documents with mixed page sizes. This can be used, e.g., to create a report consisting of A4 or Letter portrait pages with text and some A3 or Tabloid landscape pages with large tables.

To create a document with mixed page sizes, e.g. in MS Word,

- 1 create several pages,
- 2 select the text on the pages which shall have a different size,
- 3 select [File] » [Page Setup],
- 4 select the Paper Format panel,
- 5 select a page size,
- 6 select [Apply to Selected text],

7 and click [OK].



This creates a section in the MS Word document with the selected page size.

Mixed page sizes can be created also with the Adobe Acrobat **Insert document page** function.

## 6.2 Print

The printer driver Plug-in provides a graphical user interface to select printing and finishing options.

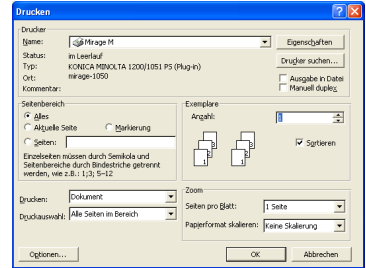
To print a document:

- 1 Select [Print] from the [File] menu of the application.

*The command name may be different, depending on the application.*

The [Print] dialog appears.

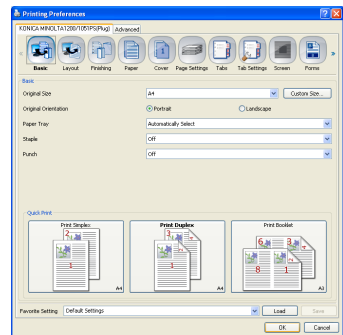
*The [Print] dialog may look different, depending on the application.*



- 2 Select the printer in the popup menu besides [Name].
- 3 Set printing details, like the range of pages and the number of copies to be printed.

- 4 If you need to set printing details, click [Properties].
- The Plug-in appears. See below.

- 5 Click [OK] after performing the intended setting.
- The Print dialog is shown again.



- 6 Click [OK] (or [Print]) to confirm printing.

**Note**

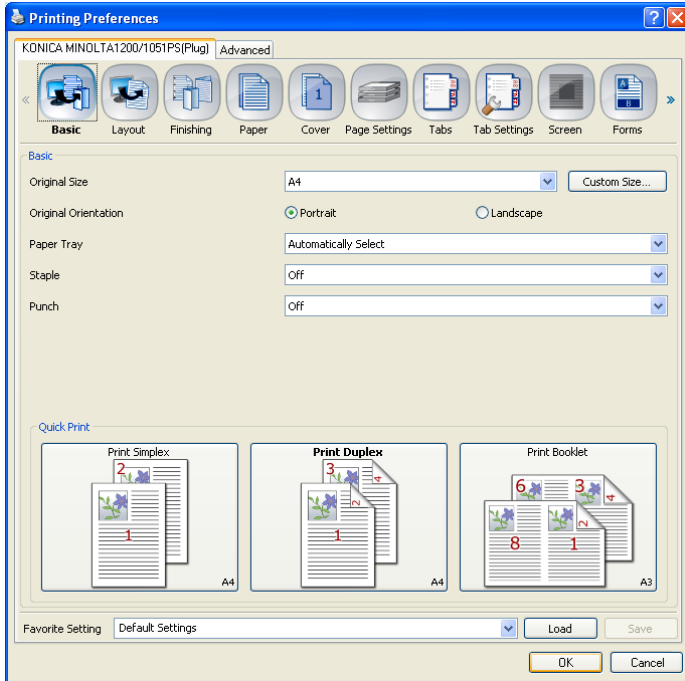
*Depending on the application, other options may be present. E.g. MS Word offers you the [Collate] option. Do not use this option to get sorted sets of documents, but use the [Sort] check box in the [Finishing] panel of the printer driver Plug-in.*

*To save your PostScript job to a file, check the [Print to file] box. This allows you to save your job and let it be printed on a bizhub PRO 1200 to which you are not connected now.*

## 6.3 Printer Driver Plug-in

The printer driver Plug-in offers a rich choice of print settings.

To open the Plug-in, click [Properties] (or [Preferences]) within the [Print] dialog.



### Saving and restoring printer settings

In general, settings will be stored by the application for the selected printer while the application is running. I.e. if you print in booklet mode to your copier, then the next print to this printer will also be in booklet mode unless you change the setting.

You can also save and restore settings to and from named entries.

To save the current settings, select a list entry from the list at the bottom of the Plug-in and click [Save].

To restore saved settings, select a list entry from the list at the lower left of the Plug-in and click [Load].

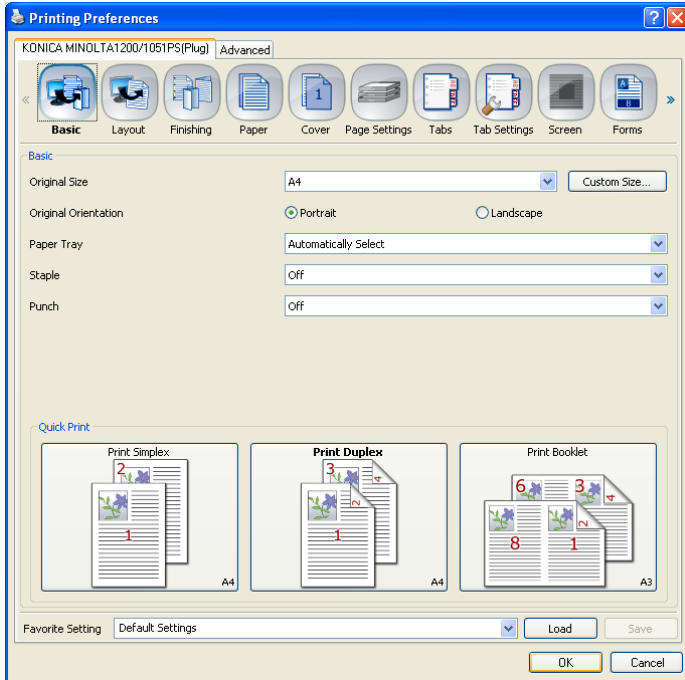
Note: [Save / Load] does not save or restore the identification settings in the [Workflow] panel. See section 6.3.13 "Workflow".



... **Note**

*Some attributes allow you to choose values which do not match the current selection. However if you do, some other attribute will be updated to obtain a valid combination. E.g. in the Layout panel, if you choose 1. corner stapling, and 2. booklet, then stapling will be adapted to off. This automatic resolution of conflicts excludes invalid combinations of attributes.*

## 6.3.1 Basic



This is the panel for frequently used functions. In common, the average user doesn't need more than the functions adjustable here.

### Original Size

Select the page size of your document. A variety of common page sizes is available. Also you can define custom page sizes in the [Paper] panel. After defining, they become available in this list. To define a PostScript Custom Page Size here, click on [Custom size] and enter your desired values. See section 6.1.2 "Custom Page Size" for details.

### Original Orientation

Select the orientation of your document. Available are [Portrait] and [Landscape]. Default is [Portrait].

**Paper tray**

Select the tray from which the paper for printing is drawn.

**Staple**

Select the staple mode. Available are [Off], [2 positions], [corner].



... **Note**

*Available staple modes depend on the connected installable options.*

**Punch**

Select the punch mode. Available are [Off], [2/3/4-hole], [Multi punch].



... **Note**

*Available punch modes depend on the connected installable options*

**Quick Print**

By clicking one of the displayed buttons, you directly set following print settings, and the dialog is closed:

[Print Simplex] – the document is output as single-sided paper

[Print Duplex] – the document is output as double-sided paper.

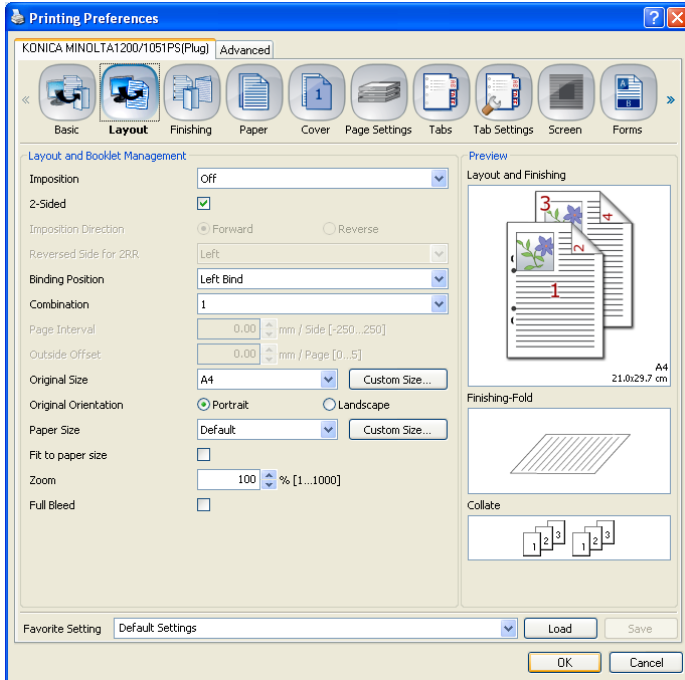
[Print Booklet] – the document is printed as booklet.



... **Note**

*The paper size display shown within the Quick Print buttons is not available on Mac OS.*

## 6.3.2 Layout



The Layout panel allows you to define how document pages are mapped on printed sheets.



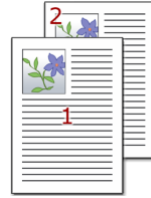
### Detail

*To open the Layout panel, select [File] → [Print] in your application. Then click the [Properties] (or [Preferences]) button. In the [Properties] dialog, click the [Layout] icon.*

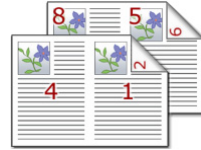
### Imposition

Allows to combine several document pages on one printed output page.

Imposition = **Off**: One document page corresponds to one printed page.



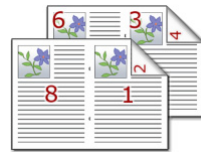
Imposition = **Adhesive Binding**: Document pages are arranged on the sheets to produce center folded booklets divided into sets of 4 pages. I.e. pages 1-4 are printed on sheet 1, pages 5-8 on sheet 2, and so on.



After folding, the sheets can be put side by side and glued to form a booklet.

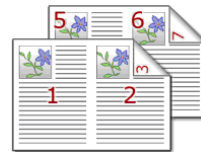
Document pages are printed in original size. The sheet size is twice the document page size.

Imposition = **Booklet**: Document pages are arranged on the sheets to produce a center folded and saddle stitched booklet.



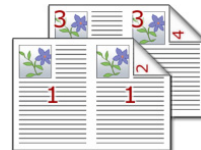
Document pages are printed in original size. The sheet size is twice the document page size.

Imposition = **2 in 1**: 2 document pages are arranged side by side on each sheet. I.e. sheet 1 contains pages 1+2, sheet 2 (or the back page of sheet 1) contains pages 3+4.



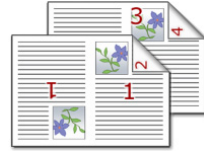
Document pages are printed in original size. The sheet size is twice the document page size.

Imposition = **2 repeat**: 2 copies of a document page are arranged side by side on each sheet. I.e. sheet 1 contains 2 copies of page 1, sheet 2 (or the back page of sheet 1) contains 2 copies of page 2. The resulting paper pile can be center cut to obtain twice the number of copies.



2 Repeat can be used, e.g. to print A5 documents on A4 paper or Statement documents on Letter paper and double the number of copies.

Imposition = **2 Repeat Reversal**: 2 copies of a document page are arranged side by side on each sheet, where one of the pages is rotated by 180°. (This picture: left page is rotated). To determine which page is rotated, see **Reversed Side for 2 Repeat Reversal** below.



### Note (Imposition = Booklet)

*The maximum number of sheets/pages allowed for a booklet with folding depends on the paper weight:*

50-91 g/m <sup>2</sup>	50 sheets	200 pages
92-130 g/m <sup>2</sup>	20 sheets	80 pages
131-161 g/m <sup>2</sup>	15 sheets	60 pages
162-209 g/m <sup>2</sup>	10 sheets	40 pages
210-244 g/m <sup>2</sup>	5 sheets	20 pages

*If the allowed number of sheets is exceeded, the booklet will not be folded.*

### 2-sided

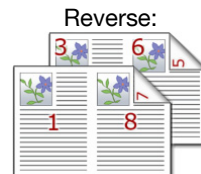
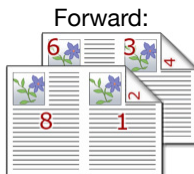
Document pages printed on both sides of a sheet (duplex).

The distinction between duplex side (turn around the side for reading) or duplex top (turn around the top) is made by selecting [Binding Position], see below.

### Imposition direction

Sets the direction in which pages of the document are arranged when [Adhesive Binding], [Booklet] or [2in1] is selected. Available are [Forward] and [Reverse].

Example for Imposition = “Booklet”:



Imposition direction also affects the application of Combination (see below). Modification of Combination page order caused by Imposition direction is as follows:



**Combination**

This pull-down menu decides the document pages to be printed on one output sheet of paper. Available are following values: 1 ,2, 4, 6, 8, 9, or 16 document pages per sheet.

Pages are arranged as follows:

Combination = 1



Combination = 2



Combination = 4



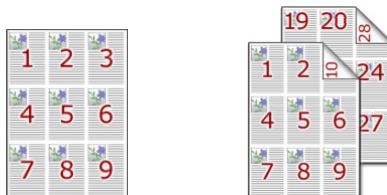
Combination = 6



Combination = 8



Combination = 9



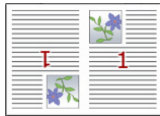
Combination = 16



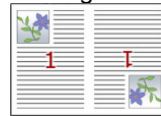
**Reversed Side for 2RR (2 Repeat Reversal)**

In case of [Imposition=2 Repeat Reversal], select [Left] or [Right] for your desired page rotation. Either the left or the right part of the doubled document page is rotated.

Left:



Right:



**Binding Position**

Selects the processing side for several other options. See [Imposition] or [2-sided] in the [Layout] panel, [Staple] or [Punch] in the [Finishing] panel. Available are (shown here is an example for stapling):

Left Bind – binding and duplexing at the left side (e.g. as in an European or US book):



Right Bind – binding and duplexing at the right side (e.g. as in a Japanese book)



Top Bind – binding and duplexing at the top (e.g. as on a calendar)



For more effects of Binding Position see [Staple] and [Punch] in the section 6.3.3 "Finishing".

### Page Interval

Determines a fixed margin to be applied between the two document pages of an imposition which are printed on the same side of a sheet.

Allowed values are -250 to 250 mm (step 0.01 mm). Each page is shifted by the given amount, i.e. the resulting margin is twice the specified value. A negative interval shifts both pages to and clips them at the center of the page.

### Outside Offset

Compensates for creep, i.e. the effect that outer pages of a booklet do not line up with the inner pages when they are folded. To align bitmaps on the pages, the bitmaps of outer pages are moved outwards on the sheet. Outside Offset is applied in addition to Page Interval.

Allowed values are 0 to 5 mm (step 0.01 mm) offset per sheet.

### Original size

Select the page size of your document. A variety of common page sizes is available. Also you can define custom page sizes in the [Paper] panel. After defining, they become available in this list. To define a PostScript Custom Page Size here, click on [Custom size] and enter your desired values. See section 6.1.2 "Custom Page Size" for details.



#### Note

*The item [Original size] in this panel is a mirrored item from [Original size] in the Basic panel and in the page setup dialog of your application. All settings made here directly alter the corresponding settings in the [Basic] panel.*

**Note**

*The page setup dialog in MS Word does not follow the above rule.*

**Original orientation**

Select the orientation of your document. Available are [Portrait] and [Landscape]. Default is [Portrait].

**Note**

*The item [Original Orientation] in this panel is a mirrored item from [Original Orientation] in the Basic panel and in the page setup dialog of your application. All settings made here directly alter the corresponding settings in the [Basic] panel.*

**Paper size**

Determines the size of the paper on which the job is printed.

The output paper size selected in this panel must not be confused with the document page size selected here or in the Page Setup dialog. The document page size determines the size of the pages in the job. It may or may not be equal to the paper size on which the job is printed.

By default, the output size is determined as follows:

If [Imposition] is [off], the output paper size is equal to the document page size.

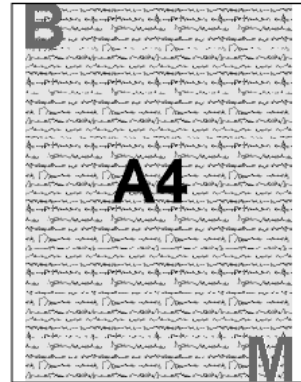
If [Imposition] is not [off], (e.g. booklet ), the output paper size is twice the document page size, e.g. A3 for A4 documents and Tabloid for Letter documents.

**[Fit to paper size] (Checkbox)**

If the document page size (double document page size in the case of imposition) does not match the selected output size, the job is scaled to fit the output size. In any case, the aspect ratio (width/height proportion) is preserved. If necessary, e.g. if an A4 job is printed on Letter paper, or a Letter job is printed on A4 paper, blank margins are added at the left and right or at the top and bottom page borders.



**Document size: A4**



**Output page size: Letter**



**Document size: Letter**



**Output page size: A4**

## Zoom

Define an image enlargement or reduction for the document to be printed. Zooming is performed from the center of the page, and you can specify a zoom factor from 1 to 1000%. Default ( and no change in size) is 100%.



### ... Note

*Zoom is applied after performing [Fit to paper size]. In any case, [Zoom] does not change the aspect ratio of a document page.*

## Full Bleed

Full Bleed means printing right to the physical edge of the paper. In general, printers leave a margin at the paper borders. By checking [Full Bleed] you can print even the outermost edges of paper. When printing full bleed, make sure that your document itself does not contain margins. Microsoft Word for example creates by default 1 inch margins on a document. See also section 6.1.1 “Full bleed, Wide page and paper size”.

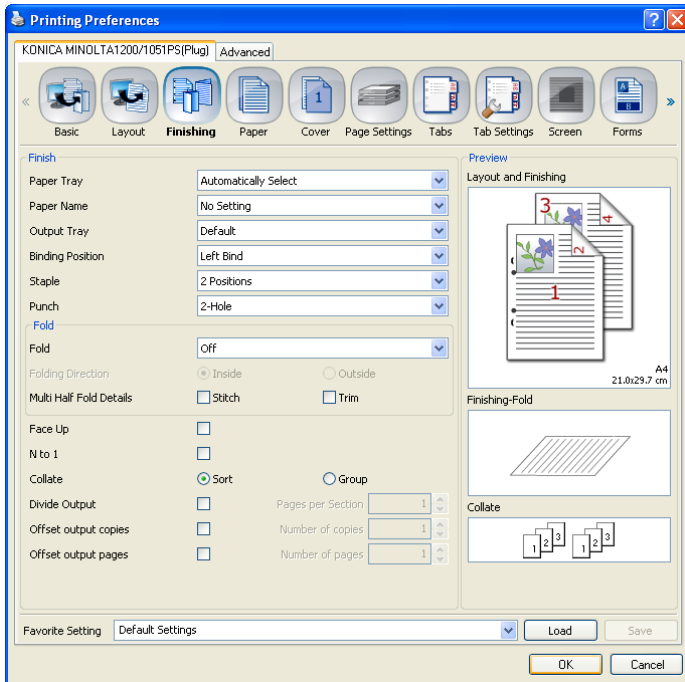
The following paper sizes support full bleed printing:

A3 / A4 / A5 / JIS-B4 / JIS-B5 / ISO-B4 / ISO-B5 / Japanese Postcard /  
SRA4 / Tabloid Extra / Tabloid / 9x11 / Legal / Letter / Statement /  
8 1/8 x 13 1/4 / 8x13 / Folio / 8 1/4 x 13

### Note)

The margin may be left or paper jam may be caused depending on the paper type or the environmental temperature or humidity.

### 6.3.3 Finishing



#### Paper tray

Selects the tray holding the paper for printing. If you want to change the tray within the job, you have to specify the order and selection of tray in the **Page Settings** panel. Also, you can select a different tray for covers in the **Cover** panel.

#### Paper Name

Selects a paper size from predefined values. For adding new entries to the list of named paper sizes, see section [Paper].

You can select the tray and the paper in the following ways:

Select [Paper Tray], leave Paper Name unspecified: The paper is drawn from the specified tray

Select Paper Name, leave Paper Tray unspecified: The paper is drawn from a tray containing the specified paper. If no such tray is available, the printer will request the specified paper.

Select Paper Tray and Paper Name: The printer will try to draw the specified paper from the selected tray. If necessary, the printer will request the specified paper.

### Output Tray

Selects the tray to output the printed paper.



#### Note

*Available output trays depend on the connected installable options and the selected finishing values, e.g. folding.*

### Binding Position

Selects the processing side for several other options. See Imposition or Duplex in the [Layout] panel, [Staple] or [Punch] in the [Finishing] panel.



#### Note

*The item [Binding Position] in this panel is a mirrored item from [Binding Position] in the layout panel. All settings made here directly alter the corresponding settings in the layout panel.*

## Staple

Selects the staple mode:

Off, Corner, 2Positions

Left Corner



Right corner



2 Positions (Left)



2 Positions (Right)



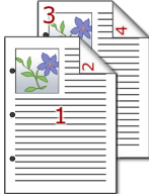
The staple side (left, right, top) is determined by [Binding Position].

## Punch

Selects the punch mode.

Off, 2 hole, 3 hole, 4 hole, Multi Punch

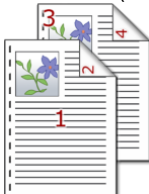
3 hole (Left)



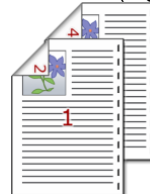
3 hole (Right)



Multi Punch (Left)



Multi Punch (Right)



The punch side (left, right, top) is determined by **Binding Position**.



*The staple and punch options are applied across the feeding direction (to the edge of the paper which leaves the copier last). Therefore they restrict the orientation of the paper in the tray.*

## Fold

Selects the fold mode:

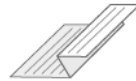
Off



Half Fold



Z-Fold (A3, ISO-B4, JIS-B4, 11x17)



Z-Fold (8,5x14)



Letter Fold



Zigzag



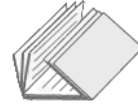
Double Parallel Fold



Gate Fold



Multi Letter Fold



Multi Half Fold



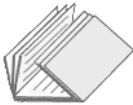
Folding requires that the paper is short edge fed.

Z folding is typically applied with mixed paper sizes where one size is twice as big as the other (e.g., A3 and A4 or Tabloid and Letter). In this case, the bigger paper is short edge fed and Z folded to match the size and orientation of the smaller paper.

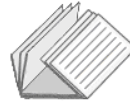
### Folding direction

Selects the folding direction of the printed document. The fold preview shows the differences between the fold in and fold out modes (of Multi Letter fold):

Multi Letter fold (in)



Multi Letter fold (out)



#### Note

*The term “in/out” refers to the printed side in case of single-sided printing or the first page in case of double-sided printing.*

### Multi Half Fold Details

These checkboxes allow special handling details for documents in Multi Half Fold mode.

**Stitch:** two staples are applied along the center fold line (similar to a booklet)

**Trim:** the sheets are folded and then cut at the open side to avoid the wedge that occurs on the open side of the booklet when many sheets are folded



*This function is not visible unless the Saddle Stitcher is connected. See section 6.3.14 "Configure".*

### Face Up

This checkbox selects if copies are output face up.

Face up turns each sheet upside down on output. So if you print a simplex job of n pages face up, then page n will be on top, and page 1 at the bottom.

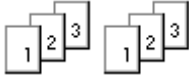
### N to 1

This checkbox changes the order of output paper. When activated, the last page of a job is printed and therefore output first.

## Collate

Select if multiple copies of multi-page jobs are output sorted or grouped.

Sort: 2 copies of a 3 page document are output as  
1-2-3, 1-2-3:



Group: 2 copies of a 3 page document are output as  
1-1, 2-2, 3-3.



### Detail

*To avoid conflicts, the **Collate** option in the main printer driver dialog, which does the same, is deactivated and cannot be used.*

## Divide Output

Splits the job into smaller packets. Dividing a job into several packets helps avoiding job errors arising from jobs that are too big to be properly stapled or booklet folded.



### Detail

*The maximum number of sheets for Staple is 50 sheets. Jobs exceeding this size are not stapled. Therefore it is recommended to divide jobs containing more than 50 pages for easier handling.*

## Offset output copies

Selects if multiple copies of a job are offset in the output tray for easy separation. If checked, you can specify the number of copies stacked between offsets.

**Offset output pages**

Selects if sets of pages of a job are offset in the output tray for easy separation. If checked, you can specify the number of pages stacked between offsets.

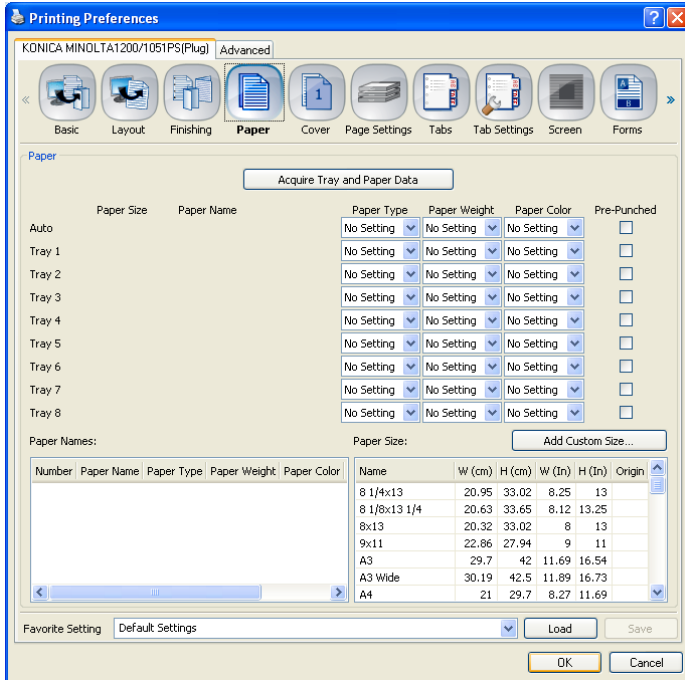
**Pile Permission**

Determines if several jobs can be piled in the stacker. If it is off, the current job must be removed before the next job can be printed to the stacker.

**Note**

***Pile permission** is not visible unless a stacker is connected. See section 6.3.14 "Configure".*

## 6.3.4 Paper



The Paper panel allows you to select the output paper size and to specify required properties of the paper on which the job is printed.

### Acquire Tray and Paper Data

Collects the engine settings of Paper Type, Paper Weight, Paper Color, and Prepunched Paper for each tray as well as paper names and custom paper sizes defined on the engine.

## Paper Type, Paper Weight, Paper Color, and Pre-Punched Paper

Determine requirements on the paper on which the job is printed. When using one of them make sure that the printer contains the specified paper. By pressing [Acquire Tray and Paper Data], the actual tray contents will be displayed in the list (see above). If the job demands paper not contained in the selected tray (e.g. when the job contains mixed paper sizes), the copier will prompt you for inserting this paper.

The following paper types are supported:

No setting, Plain Paper, Coated, PrePrinted, Fine, Book/News, Embossed, User, Blank Insert.

The following paper weights are supported:

No setting, 40-49g/m<sup>2</sup>, 50-61 g/m<sup>2</sup>, 62-71 g/m<sup>2</sup>, 72-91 g/m<sup>2</sup>, 92-130 g/m<sup>2</sup>, 131-161 g/m<sup>2</sup>, 162-216 g/m<sup>2</sup>, 217-244 g/m<sup>2</sup>, 245-300 g/m<sup>2</sup>, 301-350 g/m<sup>2</sup>.



### Detail

*Paper weight is displayed in [g/m<sup>2</sup>] by default. This can be changed in the configure panel. See section 6.3.14 "Configure".*

The following paper colors are supported:

No setting, White, Clear, Yellow, Pink, Blue, Green.

Prepunched paper can be on or off.

When selecting special paper, please observe the following constraints:

Paper weight 245 g/m<sup>2</sup> or more does not work with duplex.

Paper weight 245 to 300 g/m<sup>2</sup> works only with tray 3 to, if available, tray 8. Note that trays 3 to 8 are only available if the Paper Source Unit PF-702/703 is installed.

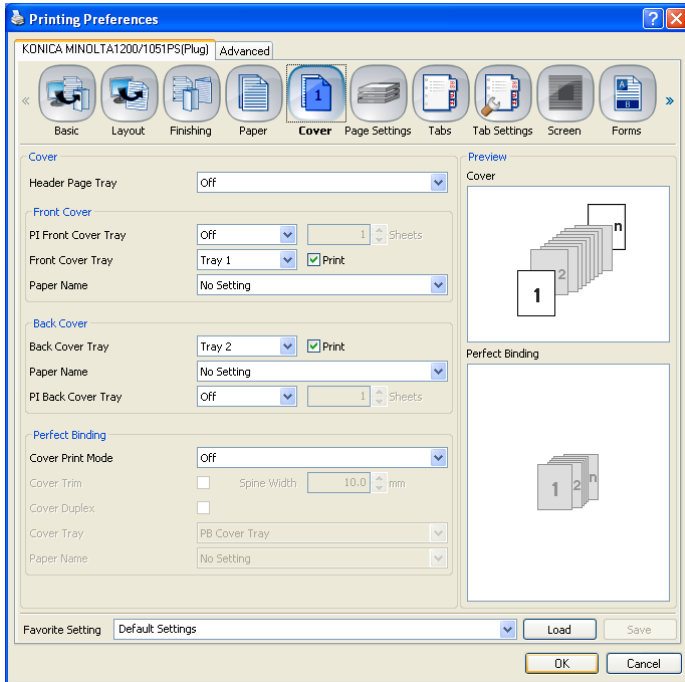
Paper weight above 300 g/m<sup>2</sup> works only for tray 4 and, if available, tray 7. Note that trays 4 and 7 are only available if the Paper Source Unit PF-702/703 is installed.

If Paper Name is specified, the printer will try to draw the specified paper from the selected tray. If necessary, the printer will request the specified paper.

**Detail**

***Paper name*** is a named combination of paper type, weight etc. that is defined at the engine. A named paper size can be selected together with a tray or alone (see also the panels 6.3.3 "Finishing", 6.3.5 "Cover", and 6.3.6 "Page Settings").

### 6.3.5 Cover



The Cover panel allows you to select the inclusion of front and back cover sheets.

#### Header page

Determines that a header page is printed for the job. The header page identifies the job and serves as job separator. The header page is printed from the same tray as the first page of the job. Stapling, folding, and multiple copies are not applied to the header page. If possible (i.e. the job is not folded) the header page is output to the same tray as the job.

#### Front cover page

Selects the insertion of a front cover sheet from the selected tray. The tray may be a normal input tray or the Post Inserter (PI, available with the FD-503, an optional accessory of the copier). The sheet feeder allows preprinted paper to be included in a job without feeding the paper through the copier and exposing it to the copier heat.

If [Print] is checked, the first page of the job is printed on the front cover sheet. Otherwise the cover sheet is left blank, and the first page is printed on a sheet selected for the job. Printed does not work with the Post Inserter trays. Duplex printing is also applied to the cover sheet, i.e., with duplex enabled, the first two pages are printed on the cover sheet.

### **Back cover page**

Selects the insertion of a back cover sheet, similarly to front cover sheet.



#### **... Note**

*Front Cover and Insert Blank Sheet before 1<sup>st</sup> page (see section 6.3.6 "Page Settings") cannot be selected together. Only one sheet can be inserted before page 1.*

## Perfect Binding

Allows you to bind booklets using the Perfect Binding option. You can select the binding mode, the cover tray, duplex printing, trimming, and the spine width.

The **Cover Print Mode** allows you to control how the complete PB cover sheet is made up from the contents of the covers (front and back) and the spine:



**Cover Blank** – the PB cover sheet is not printed.



**Cover Print 2in1** – the first and the last page of the document are used to print the front and the back cover.

With duplex printing, the first 2 and the last 2 pages of the document are used to print the front and the back cover.

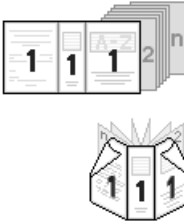
The spine is left empty.



**Cover Print 3in1** – the first page and the page before last of the document are used to print the front and the back cover. The last page of the document is used to print the spine.

With duplex printing, the first 2 pages and the 2 pages before last of the document are used to print the front and the back cover. The last page of the document is used to print the spine.

The last page of the document need not have a special size to match the spine width. However, its content must be centered to fit on the spine.



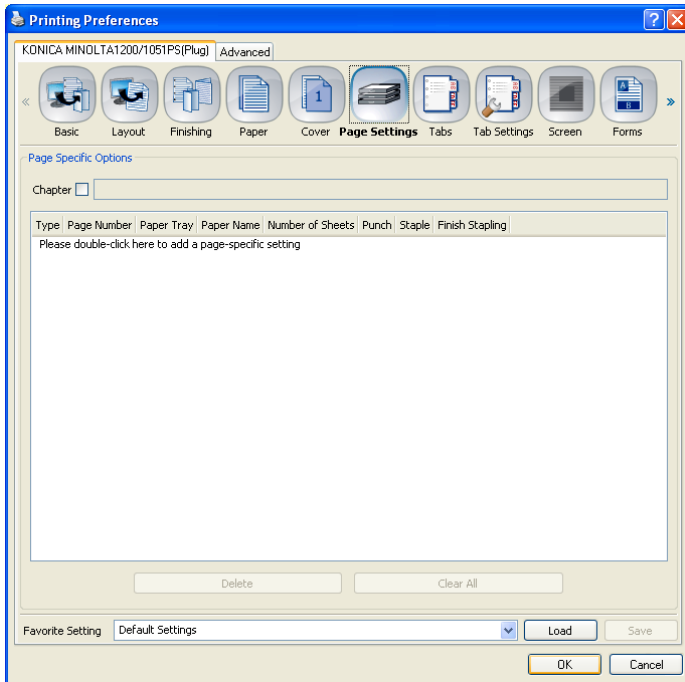
**Cover Print 1in1** – the first page of the document is used to print the complete PB cover sheet.

With duplex printing, the first and the second page of the document are used to print the complete PB cover sheet.

The first page (or first two pages) must have the size of the PB cover sheet. Documents with mixed page sizes can be made, e.g. using MS Word and its section function or Adobe Acrobat and its insert page function.

Note: Cover Print 1in1 is not available on Macintosh systems because Mac OS X does not provide the switching of paper sizes inside one PS job that is necessary for this print mode.

### 6.3.6 Page Settings



The Page Settings panel allows you to select trays for each page of the job individually.

Each line entered under **Page Specific Options** specifies that the settings selected in this row shall be applied to the given page numbers.

Pages must be entered as a comma separated list of individual page numbers, or of page ranges where the lower and upper bounds are separated by a dash. Pages count from 1 and refer to the pages included in the job. If your document contains Roman numbering, or if you print only one section of a book, the page numbering in the job may deviate from the page numbering in your document. For example, the following inputs are equivalent: 1,3,4,5,7 and 1,3-5,7

If duplex printing is selected for the job or for a set of pages, each individual page and each start of a page range are forced on a new sheet. E.g., if the job shall be printed duplex on tray 1, and page 18-25 on tray 3, then pages 1-17 will be printed from tray 1, page 17 will have an empty back page, and pages 18-25 will be printed starting on a new sheet from tray 3.

When a page setting causes a conflict with settings made before, the affected settings will be highlighted red. If e.g. pages from 10 to 14 were to be drawn from tray 2 and you later select page 8 to 16 to be drawn from tray 4, the line whose settings are threatened will be highlighted before you can complete the line:

Page Specific Options

Chapter

Pages	Type	Source	Paper
10-14	Print Double Sided	Tray 2	No Set
8-16			

If you are about to change only a part of settings, the highlight color will be orange. If you continue anyway, the previous settings will be deleted. In the example below, if pages from 10 to 14 were to be drawn from tray 2 and you later select page 11 to 12 to be drawn from tray 4, the warning looks like this:

Page Specific Options

Chapter

Pages	Type	Source	Paper
10-14	Print Double Sided	Tray 2	No Set
11-12			

If you continue to enter the desired values, the new page numbers will be excluded from the previous set. The list will display as follows:

Page Specific Options

Chapter

Pages	Type	Source	Paper
10,13-14	Print Double Sided	Tray 2	No Set
11-12	Print Double Sided	Tray 4	No Set
Please click here to add a pagespecific tray			



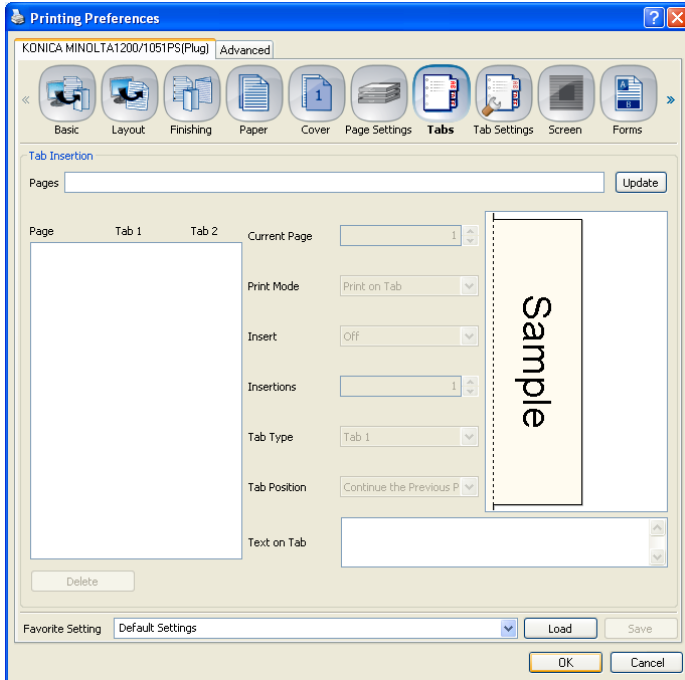
### Note

*For sheet insertions please note that due to restrictions of the Post Inserter there is a maximum number of sheets of 20 that can be inserted.*

Insertion sheet(Blank) can be specified aside from Front Cover/Back Cover on [Insert Blank Sheet (before 1st page)].

The range specification is from page 1 to page 9999.

### 6.3.7 Tabs



The Tabs panel allows you to insert tabbed pages and define their appearance.

[Pages] determines the page number to insert a tab. You can enter several page numbers at once separated by a comma, e.g. Pages 2,5,9,15,32, or ranges, e.g. 12-16. To make the entry become effective, click [Update]. The given page numbers appear in the tab list on the left.

To configure the tab settings for your entered pages, click on a page entry in the tab list. The dialog boxes become active.

[Current page] allows you to change the page number after you have entered it in [Pages]. If changed, the display in [Pages] will be updated automatically.

[Print mode] selects if the given page shall be a normal page or a tab page. If a tab page is selected, this item is deactivated.

[Insert] selects a blank tab to be inserted [After] or [Before] the selected page. If a tab page is selected, this item is deactivated.

[Insertions] specifies the number of blank tabs to insert. You can select any blank tab to change e.g. its mode (see below).

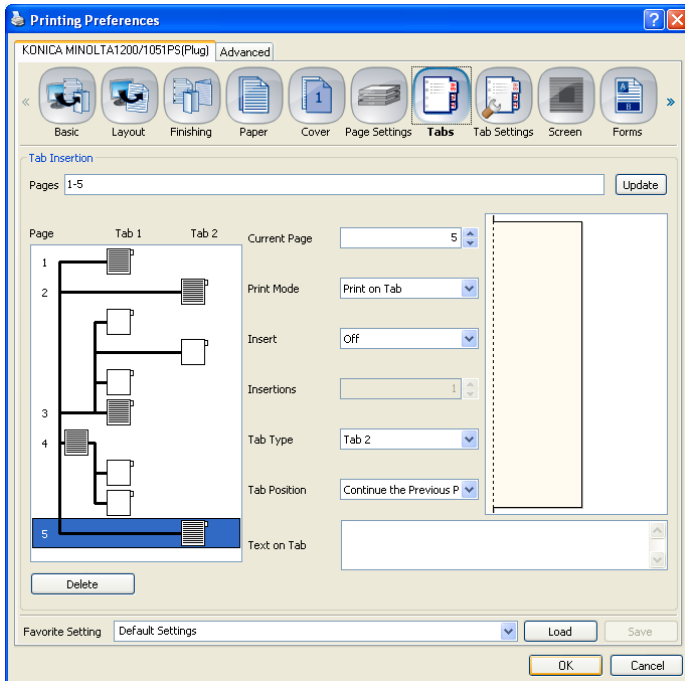
[Tab type] selects between the tab types 1 and 2 and is only allowed for tab pages. If a normal page (“Print on Body”, see [Print mode]) is selected, this item is deactivated. To define details of tab 1 and 2, see section 6.3.8 “Tab Settings”.

[Tab position] selects which position the given tab shall have. Available values are: [Continue the previous page], or (Number) of (Total tab count), where the total tab count is defined in [Number of tabs] in “Tab Settings”.


[Text on tab] lets you define a text written on the tab. Text parameters such as Font, Size, Style etc. are defined in “Tab Settings”.


To delete any entry in the list, click on it and press [Delete] below the list window. The display in [Pages] will be updated automatically.

When configured, a tab list will show up like this:



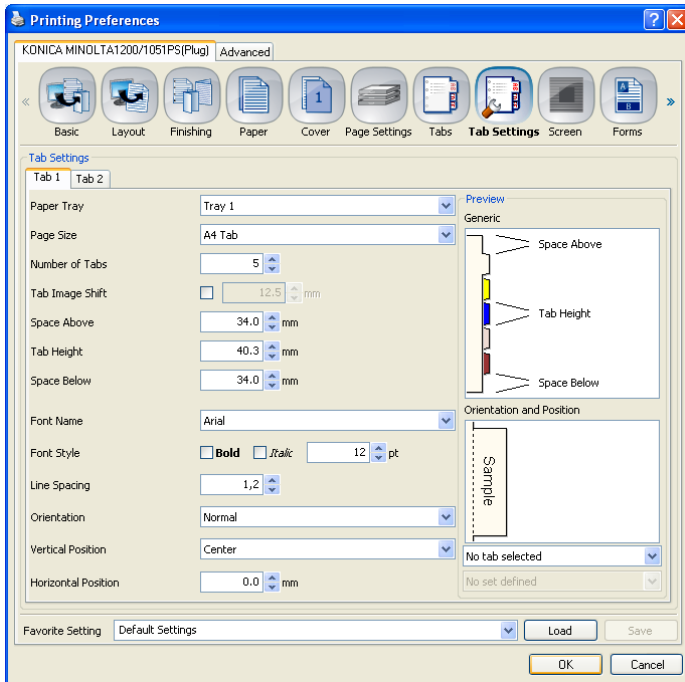
= Normal page, printed.

 = Tab page, blank. (Inserted)

 = Tab page, printed.

Tab pages of type 1 appear below “Tab 1” in the list, tab pages of type 2 appear below “Tab 2” in the list.

## 6.3.8 Tab Settings



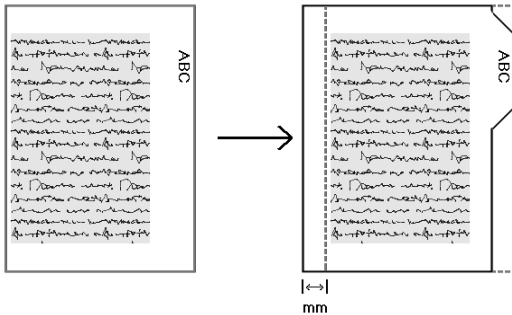
The Tab Settings panel allows to configure general settings for tab sheet printing.

**Tab1** and **Tab2** allows you to define the settings for two kinds of tab paper (e.g. with 5 tabs and 15 tabs). They can be used within one job by selecting [Tab Type] in the Tabs panel individually for each tab page.

[Page size] determines the paper size for the tab sheets. It can be A4 Tab or Letter Tab, corresponding to A4 or Letter paper size for the job. If Z folding is enabled, job pages may also have A3 or Tabloid size.

[Number of Tabs] specifies how many tabs make a set of tab sheets. Together with [Space above], [Space below], and [Tab Height], it allows to position the tab texts on each sheet.

[Tab Image Shift] allows you to print tab texts directly from your document. It determines that the page images of printed tab pages are shifted to the right by a given value such that tab texts positioned at the right margin of the page are afterwards printed on the tab.



To print tabs using [Tab Image Shift], design your tab texts at the right margin of each tab page. Use standard page sizes (Letter/A4) even for the tab pages. Design other elements like headlines on tab pages such that they are positioned correctly after the shifting. Mark the pages as printed tab pages in the Trays panel.

[Tab Image Shift] and the shift value can be set only for the complete document. If [Tab Image Shift] is enabled, tab texts cannot be entered in the Trays panel because the shifting would move them off the page.

[Font Name], [Bold], [Italic], and [Size] determine the font for the tab text.

[Line Spacing] determines the line spacing of multi line tab texts. It is specified as a multiple of the font size.

[Orientation] determines the text orientation and direction on the tab. It can be [Normal] (downwards), [Flipped] (upwards), [Horizontal], or [Vertical]. The tab preview window shows the orientation visually.

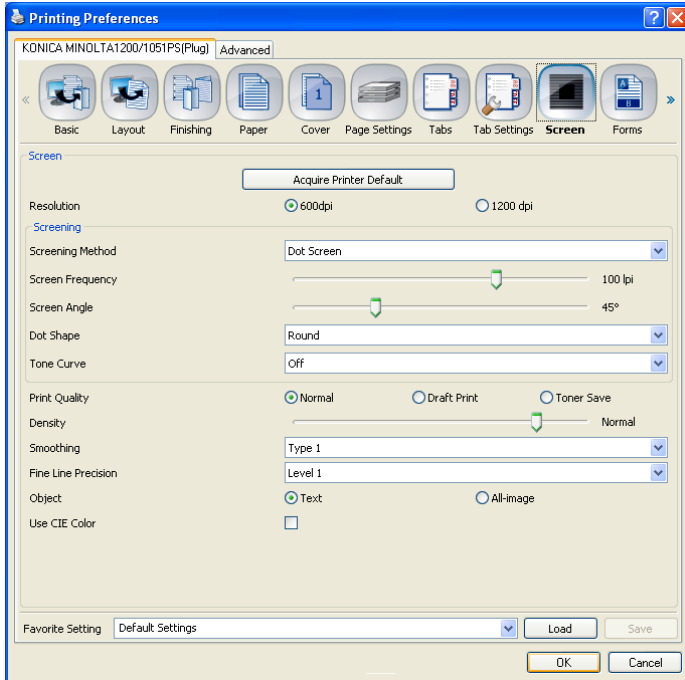
[Vertical Position] determines if the tab text is aligned at the top, center, or bottom of the tab.

[Horizontal Position] allows to move the tab text horizontally. By default, the visual center of the tab text is aligned with the horizontal center of the tab.

The Orientation and Position preview window shows a preview of each tab text which has a page number assigned. This allows you to check if the tab text fits into the tab. To select a tab, click on the desired tab in the Generic preview window or choose it from the Tab scroll-down list below the preview windows.. To step (step backwards) through the tabs, click (shift-click) repeatedly on the tab in the tab preview window.

To actually print on tab sheets, put the set of tab sheets into the selected tray with long edge feed orientation, face down, first page on top, tabs to the left. (Note that this is reverse order.) Make sure the job pages (A4 for A4 Tab, Letter for Letter Tab) are also in long edge feed orientation.

### 6.3.9 Screen



The Screen panel allows you to control the screen (raster) settings. Screen settings are applied to all elements on the page (text, graphics, and images). You can set the following attributes:

#### Acquire Printer default

Collects the engine settings for the items in the screening area (Screening method to Tone curve) and sets the UI elements to the respective values.

#### Resolution

Sets the resolution. Available are [600 dpi] and [1200 dpi]. When using the higher resolution level, the image looks smoother, and the detail level is higher but printing time increases because of the higher level of accuracy.

**Screening method**

Sets the screening method. Available are [Text/Photo], [Text], [Photo], and [Dot screen].

**Screen frequency**

Sets the screen frequency. The frequency is measured in lpi (lines per inch). Higher values yield a finer raster, but allow less grey levels to be distinguished.

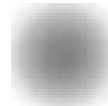
**Screen angle**

Sets the screen angle. In general it is good to print monochrome pages at an angle of 45°.

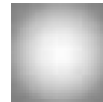
**Dot Shape**

Sets the shape of the printed dots. Use different dot shapes to achieve more evenly printed gradients or special effects. Available are

Simple dot



Inverted simple dot



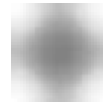
Double dot



Inverted double dot

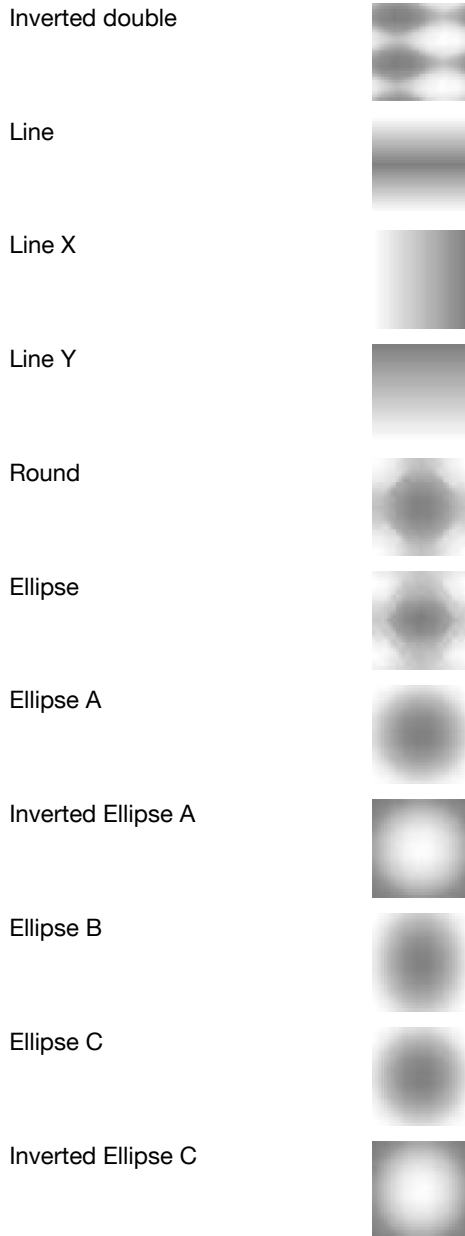


Cosine dot

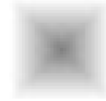


Double

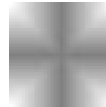




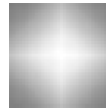
Square



Cross



Rhomboid



Diamond

**Tone curve**

In this drop-down list choose your desired named tone curve.

**Print Quality**

Sets the amount of used toner. [Normal] is for normal printing and can be refined by [Print Density]. [Draft print] and [Toner save] are two levels of reduced amount of toner. They are good for print previews in large documents that are under construction and need to be printed frequently to check the layout or other parameters.

**Density**

Sets the contrast of the printed image by adjusting the toner density applied by the copier.

### Smoothing

Selects the image smoothing to be applied by the copier: Available are:

Off, Type 1, Type 2, Type 3



#### Note

*“Off” - no smoothing.*

*“Type 1” is suitable for printing the diagonal lines of general characters and graphics.*

*“Type 2” is suitable for printing the curved sections of general characters.*

*“Type 3” is suitable for printing the curved sections of ornamental characters and fine lines.*

### Fine Line Precision

Sets special handling for thin lines. Fine Line precision especially prevents small text from becoming unreadable due to the ratio of line broadness to line length in small characters.

Available are:

Off, Level 1, Level 2, Level 3, Level4



#### Note

*The effect of thinning lines gets stronger from level 1 to 4.*

### Object

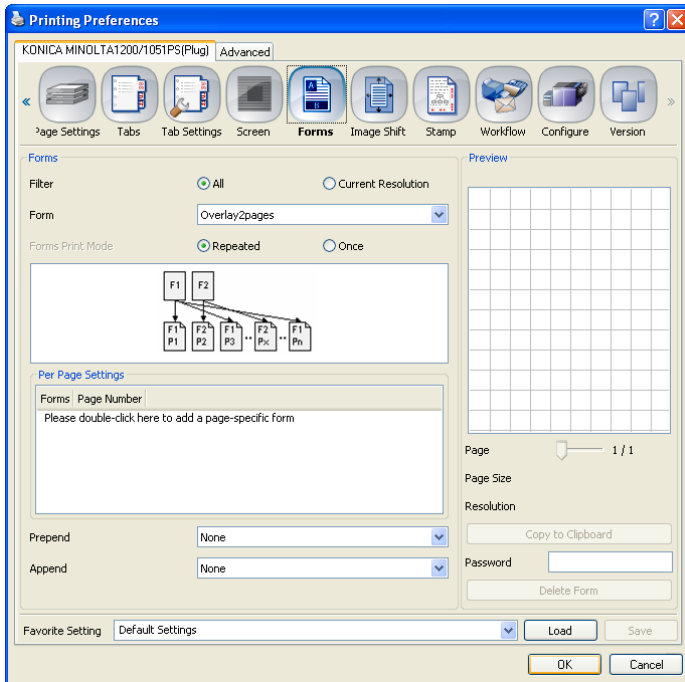
Sets the target for Fine Line Precision to be applied to.

Available are: [Text] and [All-image].

### Use CIE color

Enable this checkbox to use CIE color management.

### 6.3.10 Forms



The Forms panel allows you to overlay forms on your job.

Forms are stored as rendered bitmaps on your copier. They can be appended behind, prepended in front of, or used as overlay for other jobs. The forms preview allows to check a form visually before printing with it.

If you want to create Forms, please select “Form” in the [Output method] in the [Workflow] panel.

#### Filter

Allows you to constrain the list of forms to display only forms with matching resolution.

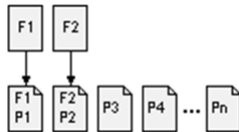
#### Form

Shows a list of all forms currently stored in the RIP.

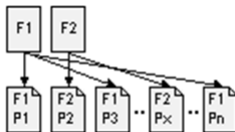
## Forms Print Mode

“Repeated” overlays a form on every page of the job. “Once” creates an overlay on the first page of a job. For multi-page forms, specifying a form means that the first page of the form is overlaid on the first job page and the following form pages continue on the following job pages. E.g. overlay [Once] for a two-page form on an 12 page job means that the form pages are overlaid on pages 1 to 2 of the job. Overlay [Repeated] means that page 3 to 4, 5 to 6 ... and 11 to 12 are overlaid with the two form pages again.

**Once:** the explanation graphic shows how the 2 page form used here is assigned to the job pages. Form page 1 is assigned to job page 1, form page 2 is assigned to job page 2. All other job pages are left without form.



**Repeated:** the explanation graphic shows that form page 1 is assigned to job page 1, form page 2 to job page 2, and again form page 1 to job page 3. This pattern is repeated to the end of the job,



## Per Page Settings

In this list you can enter specific forms overlay per page individually. However, the space is limited, and the maximum number of entries in the table depends on the amount of used forms and target pages (or page ranges).

## Prepend/Append

Determines that the pages of the selected form are prepended in front of the current job or appended behind the current job.

**Copy to Clipboard**

Copies the currently shown page of the form in screen resolution into the clipboard. You can paste it into your document to align the contents of your document with the form. Before actually printing, you should of course remove the screen resolution copy from your document.

**Delete Form**

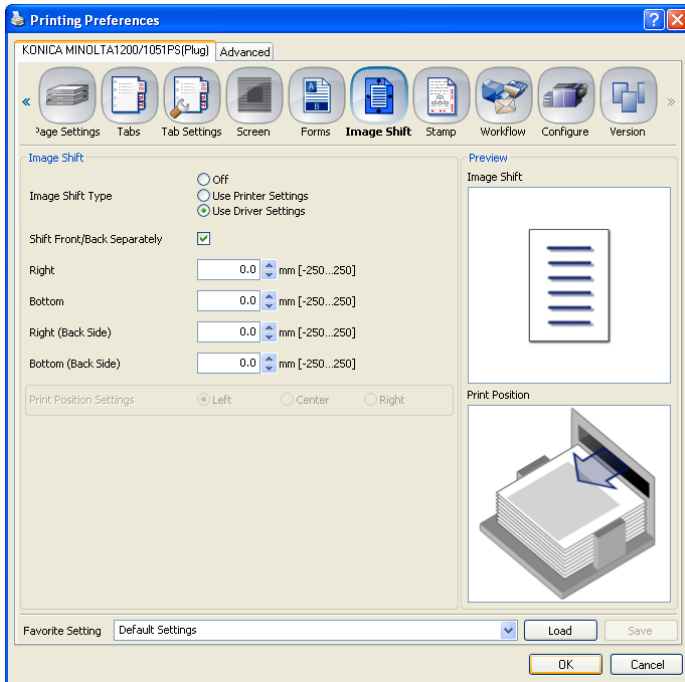
Allows you to delete the selected form on the copier. The function is enabled when you enter the password for form deletion. This password is configured at your copier.

**Note)**

The maximum number of pages guaranteed for Per Page Settings (overlay) is as follows.

- 144 distinct page numbers when using one single form
- 72 page ranges when using one single form
- 42 distinct page numbers when using several different forms
- 33 page ranges when using several different forms

### 6.3.11 Image Shift



The Image Shifting panel allows you to shift the bitmap on the paper.

**Image shift** can take the following values:

**Off** – apply no shifting.

**Use printer settings** – the bitmap is positioned according to the image shift values entered at the copier.

**Use driver settings** – the bitmap is positioned according to the values entered in this panel.

“Right” shift moves bitmaps to the right. “Bottom” shift moves bitmaps down. For movement to the left or up, enter values with negative sign.

To shift front and back such that they coincide (match if you hold the paper against the light), uncheck **Shift Front/Back separately**. Alternatively, for left binding, enter the “Right (Back side)” back value with the opposite sign of the front value, or, for top binding, enter the “Bottom (Back Side)” back value with the opposite sign of the front value.

E.g to shift front and back of a double-sided document with Binding Position: Top five millimeters to the top of a sheet of paper, enter the value “-5 mm” at “Bottom” and “5 mm” at “Bottom (Back Side)”



**Note**

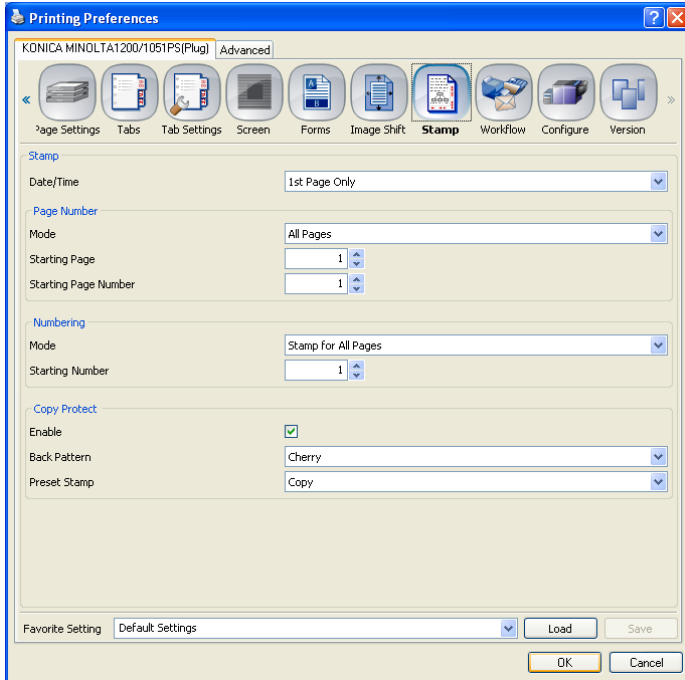
*Shifting is performed relative to the document.*

### **Print Position Settings**

Print position can be applied if the resulting output size is a wide or custom size. The preview shows print position with face up printing.

To get the effect with face down printing, turn the paper upside down.

### 6.3.12 Stamp



The Stamp panel allows you to select printing operations performed after the job has been rendered on the copier.

**Date/Time** – inserts a date/time stamp on each printed page.

**Page Number** – inserts a page number on each printed page.

The page number can be printed on All Pages, Other 1st Page, or Other 1st/Last Page.

**Starting Page** selects the first page on which a page number is printed.

**Starting Page Number** sets the number printed on this page.

**Numbering** – inserts a set number on each printed set (copy).

The set number can be applied by the functions Stamp for all Pages, Stamp for 1st Page only, or as Watermark for all pages. Stamp for all Pages and Stamp for 1st Page only print the set number once per page. Watermark for all pages prints the number in light gray many times per page and on all pages.

**Starting Number** determines the number printed on the first set.

Each of the above operations is applied after imposition, i.e. the page containing the date/time stamp, page number, or set number may consist of several original document pages.

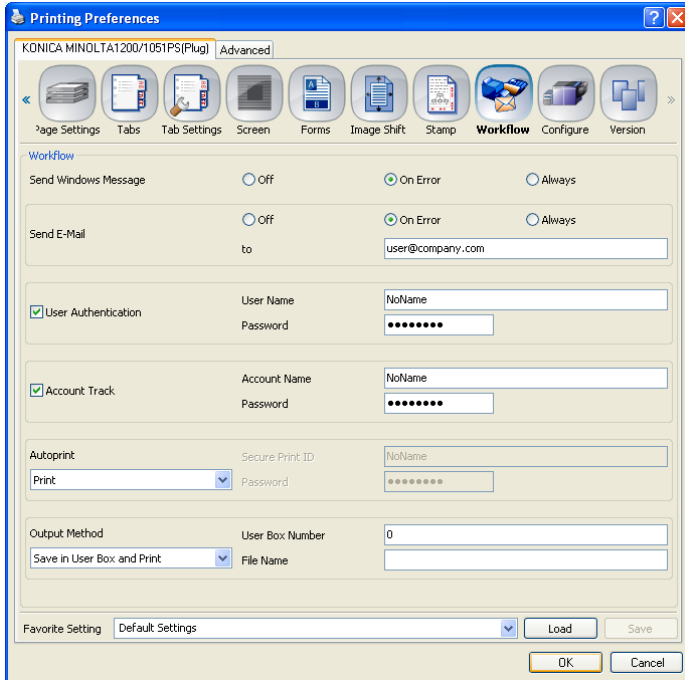
**Copy Protect** – check the “Enable” box to activate copy protection.

**Back Pattern** defines a watermark pattern to be printed throughout the whole page in case copy protection is enabled.

**Preset Stamp** defines a text to be printed several times in the background of the page.

If activated, your document will be fitted with a inconspicuous background pattern that does not disturb reading of normal text and graphics, but causes the copy protection text to nearly disappear. However, if a page is copied with a common photocopying device, the background pattern will vanish, and the copy protection text will be clearly visible all over the page.

### 6.3.13 Workflow



The Workflow panel allows you to control the print workflow, enter authentication settings, and store jobs on the controller.

You can set the following attributes:

#### Send Windows message.

Instructs the copier to send a Windows message to your PC after completion of your job. You can choose between **Always** and **On error**.



#### Note

*Sending a Windows message requires following conditions.:*

- The Windows message service is running on your PC.
- The Windows Firewall is turned off in the Security Center of Windows XP/Vista/7.

- A software that enables the Windows message service is installed (Windows Vista/7/Server 2008).

### Send E-Mail

Instructs the copier to send an e-mail to the specified address after completion of your job. You can choose between **Always** and **On error**.

### User authentication

Encloses your user name and password with your job. This identification will be used to determine your printing rights. You must supply a user name and password if user authentication is enabled by the administrator of the copier. If you do not supply user name and password, you will be considered as a public user who may have no or only restricted rights to print.

The user name must consist of 4 - 64 alphanumeric characters and symbols, or 2 - 32 characters or symbols of 2-byte code.. The password must consist of 1 - 64 alphanumeric characters. User accounts are configured by the administrator of the copier.

To enter the user name and the password,

- 1 check [User Authentication],
- 2 click into the [User name] field, enter the user name,
- 3 hit TAB to move to the [Password] field, enter the password,
- 4 hit TAB to move to the [Password] confirmation field, enter the password again.

While your input is invalid or not yet complete, the user name and password fields will be shown with red background.



#### Note

*To work as public user, do not enter a user name like e.g. PUBLIC. The public user is identified by checking off User authentication.*

### Account Track

Encloses a department name and/or password with your job. This identification will be used for tracking copying volume. You must supply a department name and/or password if account tracking is enabled by the administrator of the copier.

The department name must consist of up to 8 alphanumeric characters. The password must consist of 1 - 8 alphanumeric characters. An empty department name means the department is identified by the password. Department accounts are configured by the administrator of the copier.

To enter the department name and the password,

- 1 check [Account Track],
- 2 click into the [Account Name] field, enter the account name,
- 3 hit TAB to move to the [Password] field, enter the password,
- 4 hit TAB to move to the [Password] confirmation field, enter the password again.

While your input is invalid or not yet complete, the password fields will be shown with red background.

### Autoprint

Allows you to select proof printing and secure printing.

**Print** is the default and means normal printing.

**Proof and Print** tells the copier to print a proof copy of your job and then wait until you confirm or cancel the job.

**Proof and Print (1<sup>st</sup> Sheet)** tells the copier to print only the first sheet of a proof copy and then wait until you confirm or cancel the job.

**Wait Mode** tells the copier to wait (without printing a proof copy) until you confirm or cancel the job.



#### Note

***Proof and Print and Wait Mode block the printing of subsequent jobs.***

**Hold Print** just holds a job in Suspended Job List of the printer without printing it at that moment. Later the held job in the list can be selected and printed (with or without job ticket editing like changing Paper Tray) by pressing the "Release" button at the printer.

Hold Print doesn't block the printing of subsequent jobs.

**Secure Print** encloses a secure print id and a password with your job. This identification will be used to ensure that the job is printed in your presence. The job will be put into a list in the Secure Folder and only be printed after you release it on the copier panel by entering the password.

The secure print ID and the password must both consist of 1 - 8 alphanumeric characters. You may choose them yourself.

To enter the secure print id and the password,

- 1 select [Autoprint]
- 2 choose [Secure Print]
- 3 click into the [Secure Print ID] field and enter the ID
- 4 hit TAB to move to the [Password] field and enter the password,
- 5 hit TAB to move to the [Password] confirmation field and enter the password again.

While your input is invalid or not yet complete, the id and password fields will be shown with red background.

Secure printing does not block other jobs.

### Output method

allows you to select that your job is stored in a box for later reprinting.

**Print** is the default and means normal printing.

**Save in user box** stores the job in the specified box without printing it.

**Save in user box and print** stores the job in the specified box and prints it.

**Form** allows you to create a form which can be invoked in the **Forms** panel. (See section 6.3.10 "Forms".)

To store a job in a box,

- 1 select [Output method] » [Save in user box (and print)]
- 2 click into the [User box number] field, enter the box number,
- 3 hit TAB to move to the [File Name] field, and enter the filename.

A job in a box is identified by box number and filename.

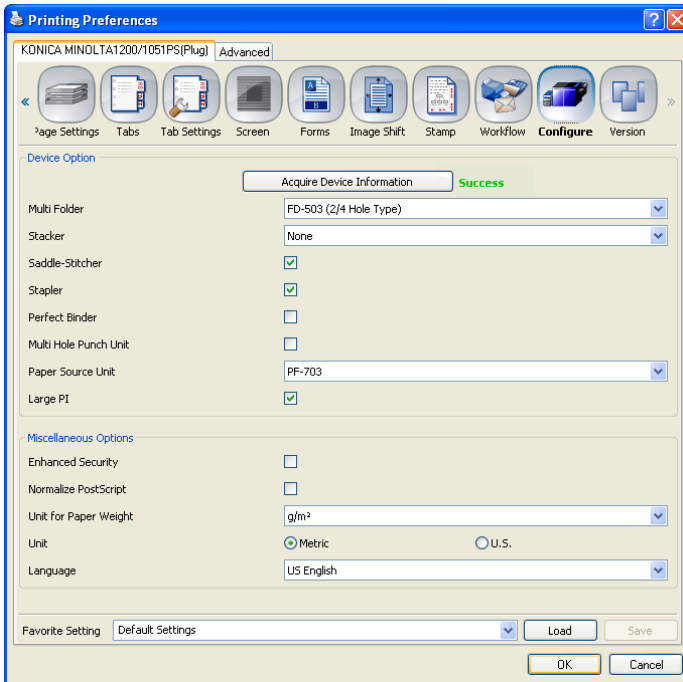
**Note**

*The identification and password settings for secure printing, user authentication, account tracking, and box number are not cleared when you click **Restore defaults**. To clear them, enter other values manually.*

**Note**

*The password settings are lost when the application is closed. In this case, you will have to enter your settings again when starting a new session. You can store identification settings permanently by entering them via the Windows printer properties. However, keep in mind that in this case other users of the PC can use your identification settings, which may lead to a security risk.*

### 6.3.14 Configure



The installable options determine which optional accessories are available on your copier (e.g. Paper Source Unit or Stapler). The installable options tailor the user interface of the printer driver on your PC and prevent the accidental selection of features which are not supported by the copier. To make the accessories available in the printer driver you must enable the corresponding installable options.

Every time the **Configure** panel is called, the status of the installable options is updated. This can take a few seconds. In some cases (such as you change an installable option when the **Configure** panel is already opened), it is recommended to click [Acquire Device Information] to let the printer driver Plug-in auto-detect the installable options again.

You may also change an option value manually. This can be used, e.g. to create jobs as PostScript files for a copier which is not currently connected to your PC and may have different options installed.

Click **OK** to confirm your changes.

After you have enabled the available installable options, the features

corresponding to those options will be available in the printer driver.

**Normalize PostScript** may be enabled if you need to use certain Plug-in features, e.g. tray selection per page, with applications like Adobe PageMaker which have their own PostScript driver based only on a PPD.



... **Note**

*Normalize PostScript should be used with caution as it may change the output of objects like outline fonts or embedded EPS files. If you want to use the driver with Normalize PostScript enabled for PageMaker, and with Normalize PostScript disabled for other applications, you may install the driver twice and enable Normalize PostScript only in one of the printers.*



... **Note**

*If the copier is used as a shared printer on a network server (and not directly), the printer driver Plug-in may not be able to configure installable options automatically. In this case, set the installable options manually.*

### **Unit for paper weight**

Select the measuring unit for weights/amounts of paper. Available are:

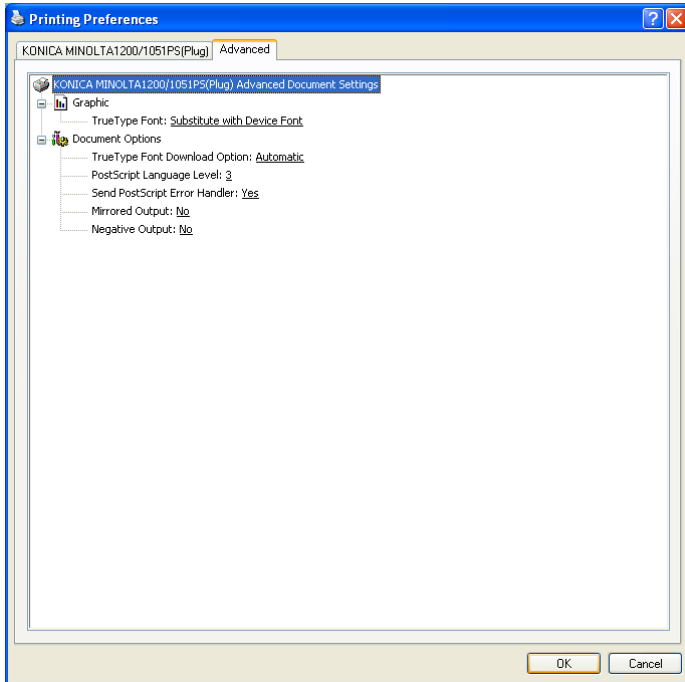
g/m<sup>2</sup> (default), Duodecimo, A-Book, B-Book, Octavo, Bond, Book, Bristol, Cover, Index, Tag.

### 6.3.15 Version



This panel allows you to check the printer driver version. Additionally you can click the manufacturer's link.

### 6.3.16 Advanced Panel



The Advanced Panel provides special PostScript options as following:

**TrueType Font:** sets the font substitution handling for TrueType fonts. [Substitute with device font] causes the printer to choose a most similar font to print without the need to download a whole fontset. This increases printing speed, but may lead to the loss of certain special characters not contained in the substitution font.

Click [Download as softfont] to use the TrueType font and download it to the printer.

**TrueType Font Download Option:** selects the download mode for TrueType fonts. Available are:

- Automatic (one of the modes below determined by PostScript driver)
- Outline (scalable outline font)
- Bitmap (bitmap font)
- Native TrueType (outline font for TT native rasterizer printers)

**PostScript Language Level:** determines the PS language level to use, from 1 to n (where “n” is the highest level the printer can handle). Increasing numbers in level mean more features to select from. Sometimes it’s useful to reduce the language level to achieve a better compatibility to documents of unknown processing history.

**Send PostScript Error Handler:** determines if a PS error message is sent. If the printer shall print an error message on failed jobs, click [Yes].

**Mirrored Output:** determines if the printed document is output flipped left/right.

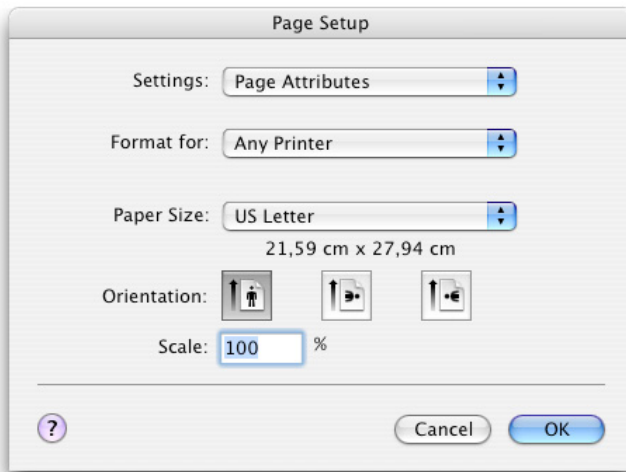
**Negative Output:** determines if the printed document is output inversed, i.e. white characters on black paper. This option is only available for monochrome printers.

# 7 Mac OS X Printing

## 7.1 Page Setup

Before you can print a document, you must determine its size and orientation. Usually, the size and orientation of a newly created document are determined as A4 or Letter and portrait.

To determine the document page size and orientation, select [File] » [Page Setup].



In the resulting dialog, behind **Format for**, select [KONICA MINOLTA 1200/1051 PS(Plug)] as your current printer, then select the size and orientation for your document.

The paper sizes of the copier are described in section 11 “Paper Sizes”.



### Note

*The document page size as defined in Page Setup may be different from the output paper size on which you print. E.g. if you print using booklet layout, the output paper size will be twice the document page size. The output paper size can be selected in the Print dialog.*

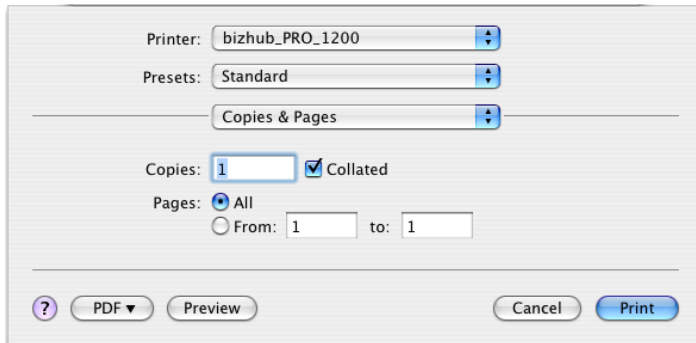
Orientation may be portrait, landscape rotated left, or landscape rotated right. Left and right rotation makes a difference. In order to obtain the same handling as for the Windows version of the bizhub PRO 1200/1200P/1051 driver, select left rotation.

## 7.2 Print

After a document has been created in an application, it can be printed on a bizhub PRO 1200/1200P/1051.

Printing the document is initiated in the Print dialog, which calls the printer driver to generate a PostScript data stream, the job. The data stream represents the elements on the document pages. It is amended by detailed instructions for processing, the job ticket. The job ticket contains information like page size and orientation, number of copies, tray selection, imposition and finishing modes.

To print a document, select **File » Print**.



The popup labeled **Printer** allows you to select the printer which corresponds to the target bizhub PRO 1200/1200P/1051.

The popup labeled **Presets** allows you to save and load your own named combinations of settings. To save the current settings, select [Save as ...] and enter a name for them. After this, the saved settings can be selected by this name from the popup.

The unlabeled third popup allows you to select a panel of the Print dialog, including the panel of the printer driver plug-in.

In the [Copies and Pages] panel, you can select the following options:

The range of pages to be printed

The number of copies to be printed

In the Paper Feed panel, you can select the following options:

Paper source – the tray to be used for printing. **Autoselect** means the selection is performed in the engine, based on output paper size, orientation, and finishing requirements. See sections 6.3.4 “Paper” and 6.3.6 “Page Settings” for details on paper and tray selection.



#### Note

*Do not use the [First page from] option in this dialog. To print pages from other trays than the job tray, use the selections in the **Cover and Page Settings** panels of the printer driver Plug-in. See sections 6.3.5 “Cover” and 6.3.6 “Page Settings”.*

In the Paper Handling panel, you can select the following option:

**Reverse order** – selects front to back or back to front printing. Reordering is applied to document pages, i.e., pages are reversed before imposition (booklet etc.) is performed. See also [Face up] in section 6.3.3 “Finishing”.

In the Output Options panel, you can select the following options:

**Save as File** – allows you to print your job to a file (as PDF or as PostScript) and let it be printed on a bizhub PRO 1200/1200P/1051 to which you are not connected now.

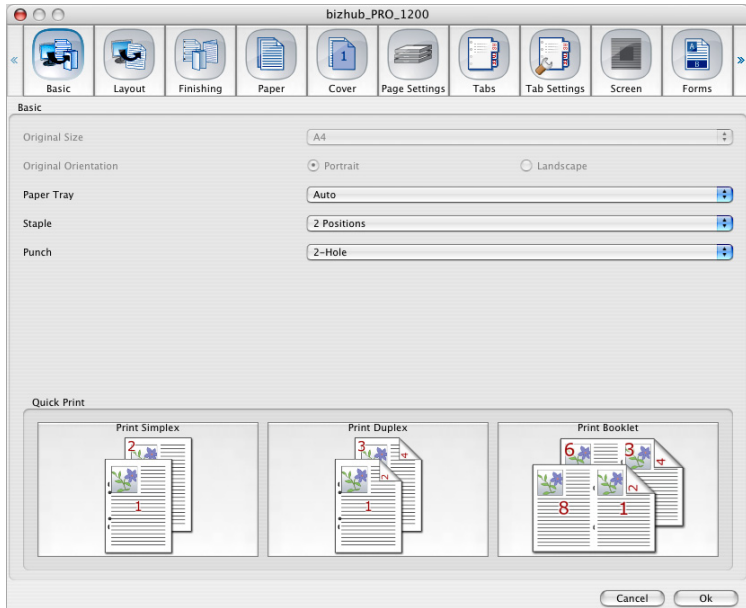
Note: When you print to a PostScript file, code for some features of the plug-in will not be included in the job because the CUPS filter will not run.

To confirm printing, click the **Print** button.

## 7.3 Printer Driver Plug-in

The printer driver Plug-in provides a graphical user interface to select printing and finishing options.

To select printer driver options specific to the copier, select [File] » [Print], then click on [Copies and Pages] and select the [bizhub PRO 1200/1051] printer driver panel.



Below the info screen there is a button named [Settings]. Click this button to access the printer driver Plug-in.

The Printer driver Plug-in is arranged in panels which can be activated by clicking on the symbol at the top. The printer driver Plug-in contains the following panels:

- Basic**
- Layout**
- Finishing**
- Paper**
- Cover**
- Page Settings**
- Tabs**
- Tab Settings**
- Screen**
- Forms**
- Image Shift**
- Stamp**
- Workflow**
- Configure**
- Version**

For detailed descriptions of the panels, please refer to the corresponding sections within the section about Windows printing.



... **Note**

*The functionality of Mac OS X does not include [Send Windows Message].*

**Note**

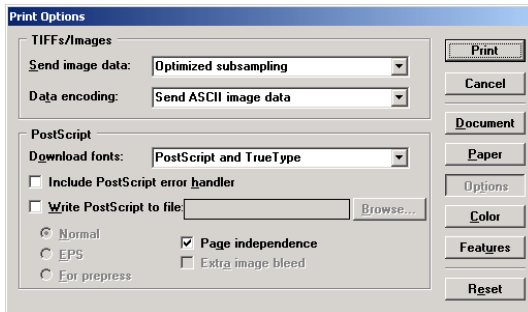
*Some applications do not support the printer driver Plug-in because they provide their own printer driver. Without the Plug-in, you can select bizhub PRO 1200/1200P/1051 specific features in the **Printer Specific Options** panel of the **Print** dialog. Note that some features of the Plug-in, like Page Interval or user authentication can be set only in the Plug-in, but not in the Printer Specific Options panel due to restrictions of the PPD format. (The PPD format does not support features with arbitrary string or numeric values.)*

## 8 Printing from special Applications

### Printing from Adobe PageMaker®

In order to ensure that imposition (Layout not equal Off in the Plug-in's Layout panel) works correctly, you must instruct PageMaker to generate page independent code.

Windows and Mac OS procedure: In PageMaker's **Print** dialog, select **Options**. This opens the Options panel. Check **Page Independence**.



This will let PageMaker create page independent code suitable for imposition.

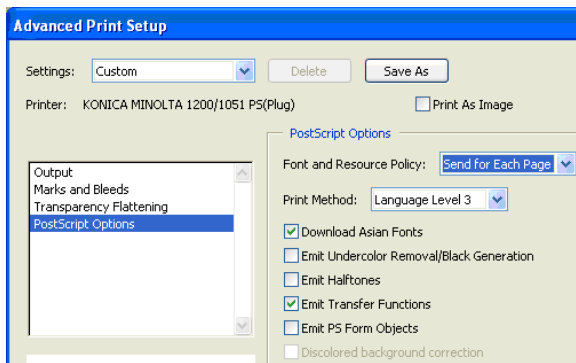
PageMaker uses, by default, its own printer driver which does not support the printer driver Plug-in, but works only with PPDs. PageMaker's own driver is also known to have problems with the bizhub PRO 1200/1200P/1051 PPD.

## Printing from Adobe Acrobat

In order to ensure that imposition (Layout not equal Off in the Layout panel) works correctly, you must instruct Acrobat to generate page independent code.

### Windows and Mac OS X procedure:

- 1 In Acrobat's **Print** dialog, select **Advanced**.  
This opens the Advanced Print Setup dialog.
- 2 Select **PostScript Options**.
- 3 Set **Font and Resource Policy** to [Send for Each Page].



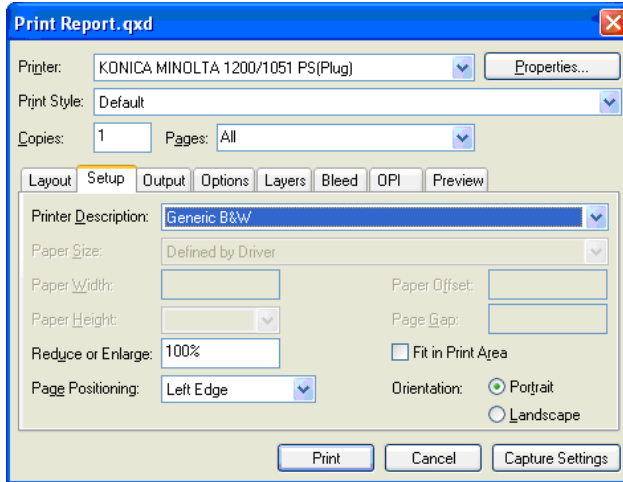
This will let Acrobat create page independent code suitable for imposition.

## Printing from Quark XPress

In order to ensure that imposition and other driver functions work correctly, you must instruct XPress to use the bizhub PRO 1200/1200P/1051 PPD and the correct page size.

### Windows and Mac OS procedure:

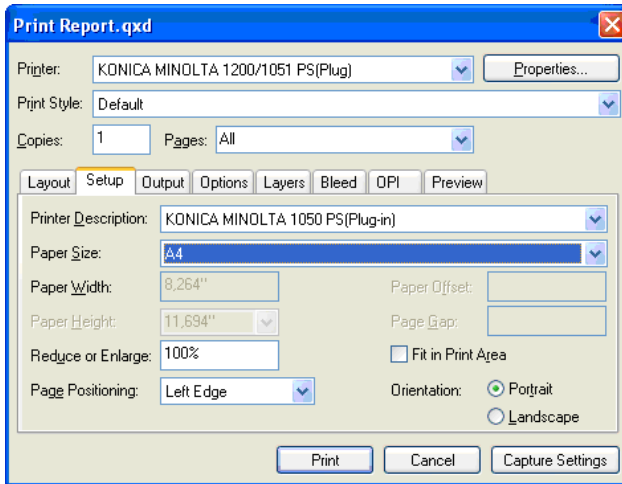
- 1 In the XPress **Print** dialog, select the **Setup** panel.



- 2 In the Setup panel, select the bizhub PRO 1200/1200P/1051 PPD as Printer Description.

The paper size will be shown as custom.

- 3 Select the document size to be output by XPress (if necessary including registration marks) as Paper Size.



This will let XPress output consistent settings suitable for imposition and other driver functions.

### Printing from Adobe InDesign

In order to ensure that imposition and other driver functions work correctly, you must instruct InDesign to use the correct page size and open the Plug-in.

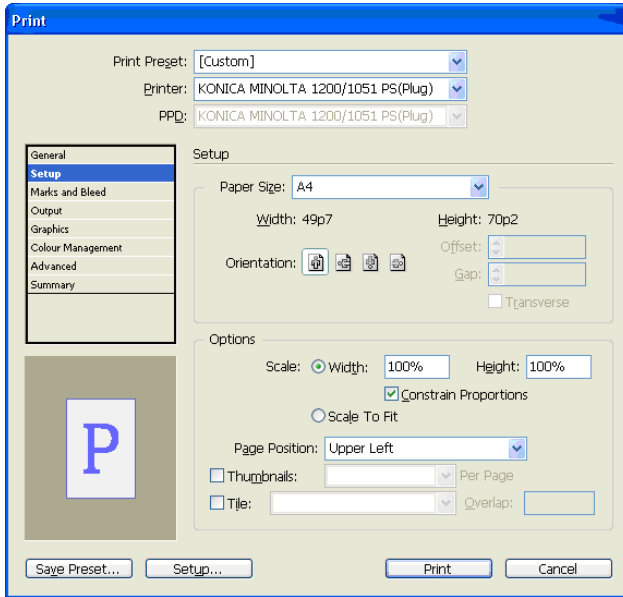
Windows and Mac OS procedure: In the InDesign **Print** dialog, select the **Setup** panel.

Select **Paper Size** such that it matches the paper size which you have entered for the document in the InDesign **Document Setup** dialog.



#### Note

*The page size in **Page Setup ...** follows the page size entered in the **Setup** panel, therefore you must change it in the **Setup** panel.*



To open the Plug-in,

Windows: Click **Setup...-> Preference,**

Mac OS X: Click **Setup... -> bizhub PRO 1200/1200P/1051 -> Settings,**

Click **OK** in the Plug-in to confirm the settings made in the Plug-in.

Click **Print** in the Print dialog to start printing.

The Plug-in must be opened once per InDesign session before printing.

This will let InDesign create code suitable for imposition and other driver functions.

# 9 Troubleshooting

## Connection

Problem	Solution
The printer is not found by his name. Only the IP address of the printer can be used.	The administrator must make sure that the network name assigned to the bizhub PRO 1200/1200P/1051 matches the network name stored in the DNS.
Acquire Device Information fails	If the copier is used as a shared printer on a network server (and not directly), the printer driver Plug-in will not be able to configure installable options automatically. In this case, set the installable options manually.

## Printing

Problem	Solution
Missing settings	Wrong/ no installable option
Missing settings (Mac OS X)	The functionality of the Mac OS X printer driver Plug-in is restricted by some items.
Output is not stapled	Too many pages for stapling. Make sure your document does not contain more than 50 sheets of paper. Paper with a weight of more than 244 g/m <sup>2</sup> cannot be stapled.
Output is not folded	Paper with a weight of more than 91 g/m <sup>2</sup> cannot be folded in Double Parallel Fold/Gate Fold/Multi Letter Fold. Paper with a weight with more than 130 g/m <sup>2</sup> cannot be folded in other folding types.
Collate option in main dialog doesn't work	Deactivated to avoid conflicts.
Paper blank	A combination of various settings regarding "Shifting" may have the print image caused to shift beyond the borders of the paper. Check all parameters connected to [Shifting].
Notification fails	Start Messenger service. Under Windows Vista/7/Server 2008, download external messenger

## 10 Font List (PostScript)

Albertus  
Albertus Italic  
Albertus Light  
AntiqueOlive Bold  
AntiqueOlive Compact  
AntiqueOlive Italic  
AntiqueOlive Roman  
Apple Chancery  
Arial  
Arial Bold  
Arial Bold Italic  
Arial Italic  
ITC AvantGarde Gothic Book  
ITC AvantGarde Gothic Book Oblique  
ITC AvantGarde Gothic Demi  
ITC AvantGarde Gothic Demi Oblique  
Bodoni  
Bodoni Bold  
Bodoni Bold Italic  
Bodoni Italic  
Bodoni Poster  
Bodoni Poster Compressed  
ITC Bookman Demi  
ITC Bookman Demi Italic  
ITC Bookman Light  
ITC Bookman Light Italic  
Carta  
Chicago  
Clarendon  
Clarendon Bold  
Clarendon Light  
Cooper Black  
Cooper Black Italic  
Copperplate Gothic 32BC  
Copperplate Gothic 33BC

Coronet  
Courier  
Courier Bold  
Courier Bold Oblique  
Courier Oblique  
Eurostile  
Eurostile Bold  
Eurostile Bold Extended Two  
Eurostile Extended Two  
Geneva  
GillSans  
GillSans Bold  
GillSans Condensed Bold  
GillSans Bold Italic  
GillSans Condensed  
GillSans Extra Bold  
GillSans Italic  
GillSans Light  
GillSans Light Italic  
Goudy Oldstyle  
Goudy Bold  
Goudy BoldItalic  
Goudy ExtraBold  
Goudy Oldstyle Italic  
Helvetica  
Helvetica Bold  
Helvetica Bold Oblique  
Helvetica Oblique  
Helvetica Condensed  
Helvetica Condensed Bold  
Helvetica Condensed Bold Oblique  
Helvetica Condensed Oblique  
Helvetica Narrow  
Helvetica Narrow Bold  
Helvetica Narrow Bold Oblique  
Helvetica Narrow Oblique  
Hoefler Text Black

Hoefler Text Black Italic  
Hoefler Text Italic  
Hoefler Text Ornaments  
Hoefler Text  
Joanna  
Joanna Bold  
Joanna Bold Italic  
Joanna Italic  
LetterGothic  
LetterGothic Bold  
LetterGothic Bold Slanted  
LetterGothic Slanted  
ITC Lubalin Graph Book  
ITC Lubalin Graph Book Oblique  
ITC Lubalin Graph Demi  
ITC Lubalin Graph Demi Oblique  
Marigold  
ITC Mona Lisa Recut  
Monaco  
New Century Schoolbook Bold  
New Century Schoolbook Bold Italic  
New Century Schoolbook Italic  
New Century Schoolbook Roman  
New York  
Optima  
Optima Bold  
Optima Bold Italic  
Optima Italic  
Oxford  
Palatino Bold  
Palatino Bold Italic  
Palatino Italic  
Palatino Roman  
Stempel Garamond Bold  
Stempel Garamond Bold Italic  
Stempel Garamond Italic  
Stempel Garamond Roman

ITC Symbol  
Tekton  
Times Bold  
Times Bold Italic  
Times Italic  
TimesRoman  
Times New Roman  
Times New Roman Bold  
Times New Roman Bold Italic  
Times New Roman Italic  
Univers  
Univers Bold  
Univers Bold Oblique  
Univers Oblique  
Univers Light  
Univers Light Oblique  
UniversCondensed  
UniversCondensed Bold  
UniversCondensed Bold Oblique  
UniversCondensed Oblique  
UniversExtended  
UniversExtended Bold  
UniversExtended Bold Oblique  
UniversExtended Oblique  
Windings  
ITC ZapfChancery Medium Italic  
ITC ZapfDingbats

# 11 Paper Sizes

The following paper sizes are available as document page sizes:

<b>Metric sizes</b>	<b>mm</b>	<b>mm</b>	<b>Inch</b>	<b>Inch</b>
A3	297	420	11.693	16.535
A4	210	297	8.268	11.693
A5	148	210	5.827	8.268
SRA3	320	450	12.598	17.717
SRA4	225	320	8.858	12.598
JIS-B4	257	364	10.118	14.331
JIS-B5	182	257	7.165	10.118
ISO-B4	250	353	9.843	13.898
ISO-B5	176	250	6.929	9.843
Japanese Postcard	100	148	3.937	5.827
A4 Tab	297	222.5	11.693	8.76

<b>Inch sizes</b>	<b>mm</b>	<b>mm</b>	<b>Inch</b>	<b>Inch</b>
Tabloid Extra	304.8	457.2	12.000	18.000
Tabloid	279.4	431.8	11.000	17.000
Legal	215.9	355.6	8.5	14
8 x 13	203.2	330.2	8	13
Folio	215.9	330.2	8.5	13
8 1/4 x 13	209.55	330.2	8.25	13
8 1/8 x 13 1/4	206.38	336.55	8.125	13.25
9 x 11	228.6	279.4	9	11
Letter	215.9	279.4	8.5	11
Statement	139.7	215.9	5.5	8.5
Letter Tab	279.4	228.4	11	8.992

Custom page sizes must be between 95 x 133 mm and 324 x 463 mm (3.74 x 5.23 inch and 12.75 x 18.23 inch).

At the copier, paper sizes are distinguished by feed direction, e.g. A4 (LEF) and A4 (SEF) or Letter (LEF) and Letter (SEF).

In addition, the following wide paper sizes are available:

Metric sizes: A3 Wide, A4 Wide, A5 Wide, JIS-B4 Wide, JIS-B5 Wide, ISO-B4Wide, ISO-B5Wide

Inch sizes: Tabloid Extra Wide, Tabloid Wide, Letter Wide, Statement Wide

For each wide paper size, the printed bitmap size is the same as the corresponding base paper size. The actual paper size must be configured at the copier.

The following paper sizes support full bleed printing:

A3 / A4 / A5 / JIS-B4 / JIS-B5 / ISO-B4 / ISO-B5 / Japanese Postcard / SRA4 / Tabloid Extra / Tabloid / 9x11 / Legal / Letter / Statement / 8 1/8 x 13 1/4 / 8x13 / Folio / 8 1/4 x 13



... **Note**

*Although the maximum document page size and the maximum output paper size are both 324 x 463 mm (12.75 x 18.23 inch), the maximum printing area of the engine is 314 x 463 mm (12.36 x 18.23 inch). If the width of the output paper size exceeds 314 mm (12.36 inch), the output page will be clipped or scaled correspondingly (default = clip), depending on the setting of **Fit to paper size**, see section 6.3.2 "Layout".*

## 12 Glossary

<b>Term/Abbreviation</b>	<b>Explanation</b>
Bitmap	Image data produced for output on the copier.
Booklet	Layout of the pages of a document on the printed sheets such that the result can be center folded and then read as a booklet.
CUPS	Common Unix Printing System
Document page size	The page size used by applications to place objects.
DNS	Domain name server – a network device mapping network names on IP addresses.
dpi	Dots per inch – measuring unit for copier resolution.
Finishing	Post printing operations, e.g. stapling, punching, folding.
Imposition	Instructions on how the pages of a job are laid out on the printed sheets, e.g. duplex or booklet.
IP address	A unique number used to identify a network device (e.g. server, workstation, printer) in a network. An IP number consists of 4 integers between 0 and 255 (eight bits), e.g. 128.3.3.21. IP numbers may be valid world wide or only in the local network.
Job	Document in print ready format plus job ticket.
Job ticket	Instructions for printer specific handling of a job, e.g. for imposition.
LEF	Long edge feed – paper orientation where the paper is fed with its long edge into the copier. The paper appears portrait if you stand in front of the copier.
lpi	Lines per inch – measuring unit for raster frequency.
lpr	A network protocol for printing.
NetBIOS	A network protocol used in Windows environments for printing and file sharing.
Output paper size	The size of the paper on which the job is printed.
Owner	The person or user account who submitted the job.

<b>Term/Abbreviation</b>	<b>Explanation</b>
Page	<ol style="list-style-type: none"><li>1. document page (in the application)</li><li>2. printed page (on paper)</li></ol> <p>In duplex printing, two pages are printed on (both surfaces of) one sheet. In booklet printing, two document pages are mapped on one printed page, and 4 document pages make up one sheet.</p>
PostScript	Page description language (PDL) with a rich feature set for mapping text, graphics and images on raster devices like printers and film recorders.
PPD	PostScript Printer Description. A file on the workstation which specifies printer capabilities and how the printer driver can map them on printer commands.
Print page size	The document page size after imposition. If imposition is not Off, print page size is twice the document page size.
SEF	Short edge feed – paper orientation where the paper is fed with its short edge into the copier. The paper appears landscape if you stand in front of the copier.
Sheet	Sheet of printed paper. In duplex printing, two pages are printed on one sheet. In booklet printing, 2 document pages are mapped on one printed page and 4 document pages are printed on one sheet.
TCP/IP	A network protocol used for communication in local area networks and the internet.



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