

User's Guide

SF-76xP Series

BASIC

This guide provides information concerning installation, basic operation and troubleshooting on windows.

ADVANCED

This guide provides information about installation, advanced configuration, operation and troubleshooting on various OS environments.

Some features may not be available depending on models or countries.

BASIC



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1. Introduction

This chapter provides information you need to know before using the machine.

- **Key benefits**
- **Features by models**
- **Useful to know**
- **About this user's guide**
- **Safety information**
- **Machine overview**
- **Control panel overview**
- **Turning on the machine**
- **Installing the driver locally**
- **Reinstalling the driver**

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Key benefits

Environmentally friendly



- To save toner and paper, this machine supports Eco feature (see "Easy Eco Driver" on page 169).
- To save paper, you can print multiple pages on one single sheet of paper (see "Using advanced print features" on page 140).
- To save paper, you can print on both sides of the paper (Double-sided printing(Manual)) (see "Using advanced print features" on page 140).
- To save electricity, this machine automatically conserves electricity by substantially reducing power consumption when not in use.

Fast high resolution printing



- You can print with a resolution of up to 1,200 x 1,200 dpi effective output.
- Fast, on-demand printing.
 - For single-side printing, 20 ppm (A4) or 21 ppm (Letter).

Convenience



- Easy Capture Manager allows you to easily edit and print whatever you captured using the Print Screen key on the keyboard (see "Easy Capture Manager" on page 167).
- **Samsung Easy Printer Manager** and **Printing Status** (or Smart Panel) is a program that monitors and informs you of the machine's status and allows you to customize the machine's settings (see "Using Samsung Printer Status" on page 173 or "Using Smart Panel" on page 175).
- AnyWeb Print helps you screen-capture, preview, scrap, and print the screen of Windows Internet Explorer more easily, than when you use the ordinary program (see "Samsung AnyWeb Print" on page 168).
- Smart Update allows you to check for the latest software and install the latest version during the printer driver installation process. This is available only for Windows.
- If you have Internet access, you can get help, support application, machine drivers, manuals, and order information from the Samsung website, www.samsung.com > find your product> Support or Downloads

Key benefits

Wide range of functionality and application support



- Supports various paper sizes (see "Print media specifications" on page 94).
- Print watermark: You can customize your documents with words, such as "Confidential" (see "Using advanced print features" on page 140).
- Print posters: The text and pictures of each page of your document are magnified and printed across the multiple sheets of paper and can then be taped together to form a poster (see "Using advanced print features" on page 140).
- You can print in various operating systems (see "System requirements" on page 97).
- Your machine is equipped with a USB interface.

Features by models

Some features and optional goods may not be available depending on model or country.

Operating System

Operating System	SF-76xP Series
Windows	●
Macintosh	●
Linux	●
Unix	

(●: Included, Blank: Not available)

Software

Software	SF-76xP Series
SPL printer driver	●
PCL printer driver	
PS printer driver	
XPS printer driver ^a	●
Direct Printing Utility	

Features by models

Software		SF-76xP Series
Samsung Easy Printer Manager	Scan to PC settings	●
	Fax to PC settings	●
	Device settings	●
Samsung Printer Status		●
Smart Panel		●
AnyWeb Print		●
SyncThru™ Web Service		
SyncThru Admin Web Service		
Easy Eco Driver (Eco printing)		●
Fax	Samsung Network PC Fax	●
Scan	Twain scan driver	●
	WIA scan driver	●
	Samsung Scan Assistant	●
	SmarThru 4	
	SmarThru Office	●

a. For XPS driver, it is only supported for Windows through the Samsung website (www.samsung.com)

(●: Included, Blank: Not available)

Features by models

Variety feature

Features	SF-76xP Series
Hi-Speed USB 2.0	•
Network Interface Ethernet 10/100 Base TX wired LAN	
Network Interface 802.11b/g/n wireless LAN ^a	
Eco printing (Control panel)	
Duplex (2-sided) printing (Manual) ^b	•
USB memory interface	
Memory module	
Mass Storage Device (HDD)	
Duplex Automatic Document Feeder (DADF)	
Automatic Document Feeder (ADF)	•
Handset	•

Features by models

Features		SF-76xP Series
Fax	Multi-send	•
	Delay send	•
	Priority send	•
	Duplex send	
	Secure receive	•
	Duplex print	
	Send/ Receive forward - fax	•
Scan	Scanning to email	
	Scanning to SMB server	
	Scanning to FTP server	
	Duplex scan	
	Scan to PC	•

Features by models

Features		SF-76xP Series
Copy	ID card copying	
	Reduced or enlarged copying	•
	Collation	•
	Poster	
	Clone	
	Book	
	2-up/4-up	•
	Adjust background	•
	Margin shift	
	Edge erase	
	Gray enhance	
	Duplex copy	

a. Depending on your country, wireless LAN card may not be available. For some counties, only 802.11 b/g can be applied. Contact your local Samsung dealer or the retailer where you bought your machine.

b. Windows only.

(•: Included, Blank: Not available)

Useful to know



The machine does not print.

- Open the print queue list and remove the document from the list (see "Canceling a print job" on page 47).
- Remove the driver and install it again (see "Installing the driver locally" on page 26).
- Select your machine as your default machine in your Windows (see "Setting your machine as a default machine" on page 139).



Where can I purchase accessories or supplies?

- Inquire at a Samsung distributor or your retailer.
- Visit www.samsung.com/supplies. Select your country/region to view product service information.



The status LED flashes or remains constantly on.

- Turn the product off and on again.
- Check the meanings of LED indications in this manual and troubleshoot accordingly (see "Understanding the status LED" on page 85).



A paper jam has occurred.

- Open and close the top cover or scan unit (see "Front view" on page 20).
- Check the instructions on removing jammed paper in this manual and troubleshoot accordingly (see "Clearing paper jams" on page 82).



Printouts are blurry.

- The toner level might be low or uneven. Shake the toner cartridge (see "Redistributing toner" on page 64).
- Try a different print resolution setting (see "Opening printing preferences" on page 48).
- Replace the toner cartridge (see "Replacing the toner cartridge" on page 66).



Where can I download the machine's driver?

- You can get help, support application, machine drivers, manuals, and order information from the Samsung website, www.samsung.com > find your product > Support or Downloads.

About this user's guide

This user's guide provides information for your basic understanding of the machine as well as detailed steps to explain machine usage.

- Read the safety information before using the machine.
- If you have a problem using the machine, refer to the troubleshooting chapter.
- Terms used in this user's guide are explained in the glossary chapter.
- All illustrations in this user's guide may differ from your machine depending on its options or model you purchased.
- The screenshots in this administrator's guide may differ from your machine depending on the machine's firmware/driver version.
- The procedures in this user's guide are mainly based on Windows 7.

Conventions

Some terms in this guide are used interchangeably, as below:

- Document is synonymous with original.
- Paper is synonymous with media, or print media.
- Machine refers to printer or MFP.

General icons

Icon	Text	Description
	Caution	Gives users information to protect the machine from possible mechanical damage or malfunction.
	Note	Provides additional information or detailed specification of the machine function and feature.

Safety information

These warnings and precautions are included to prevent injury to you and others, and to prevent any potential damage to your machine. Be sure to read and understand all of these instructions before using the machine. After reading this section, keep it in a safe place for future reference.

Important safety symbols

Explanation of all icons and signs used in this chapter

	Warning	Hazards or unsafe practices that may result in severe personal injury or death.
	Caution	Hazards or unsafe practices that may result in minor personal injury or property damage.
	Do not attempt.	

Operating environment

Warning



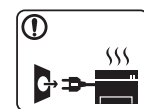
Do not use if the power cord is damaged or if the electrical outlet is not grounded.

This could result in electric shock or fire.



Do not place anything on top of the machine (water, small metal or heavy objects, candles, lit cigarettes, etc.).

This could result in electric shock or fire.



- If the machine gets overheated, it releases smoke, makes strange noises, or generates an odd odor, immediately turn off the power switch and unplug the machine.

- The user should be able to access the power outlet in case of emergencies that might require the user to pull the plug out.

This could result in electric shock or fire.



Do not bend, or place heavy objects on the power cord.

Stepping on or allowing the power cord to be crushed by a heavy object could result in electric shock or fire.



Do not remove the plug by pulling on the cord; do not handle the plug with wet hands.

This could result in electric shock or fire.

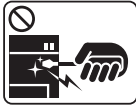
Safety information

Caution

	During an electrical storm or for a period of non-operation, remove the power plug from the electrical outlet. This could result in electric shock or fire.
	Be careful, the paper output area is hot. Burns could occur.
	If the machine has been dropped, or if the cabinet appears damaged, unplug the machine from all interface connections and request assistance from qualified service personnel. Otherwise, this could result in electric shock or fire.
	If the machine does not operate properly after these instructions have been followed, unplug the machine from all interface connections and request assistance from qualified service personnel. Otherwise, this could result in electric shock or fire.
	If the plug does not easily enter the electrical outlet, do not attempt to force it in. Call an electrician to change the electrical outlet, or this could result in electric shock.
	Do not allow pets to chew on the AC power, telephone or PC interface cords. This could result in electric shock or fire and/or injury to your pet.

Operating method

Caution

	Do not forcefully pull the paper out during printing. It can cause damage to the machine.
	Be careful not to put your hand between the machine and paper tray. You may get injured.
	Be care when replacing paper or removing jammed paper. New paper has sharp edges and can cause painful cuts.
	When printing large quantities, the bottom part of the paper output area may get hot. Do not allow children to touch. Burns can occur.
	When removing jammed paper, do not use tweezers or sharp metal objects. It can damage the machine.
	Do not allow too many papers to stack up in the paper output tray. It can damage the machine.

Safety information

	Do not block or push objects into the ventilation opening. This could result in elevated component temperatures which can cause damage or fire.
	Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
	This machine's power reception device is the power cord. To switch off the power supply, remove the power cord from the electrical outlet.

Installation / Moving

Warning

	Do not place the machine in an area with dust, humidity, or water leaks. This could result in electric shock or fire.
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Caution

	Before moving the machine, turn the power off and disconnect all cords. The information below are only suggestions based on the units weight. If you have a medical condition that prevents you from lifting, do not lift the machine. Ask for help, and always use the appropriate amount of people to lift the device safely. Then lift the machine: • If the machine weighs under 20 kg (44.09 lbs), lift with 1 person. • If the machine weighs 20 kg (44.09 lbs) - 40kg (88.18 lbs), lift with 2 people. • If the machine weighs more than 40 kg (88.18 lbs), lift with 4 or more people. The machine could fall, causing injury or machine damage.
	Do not place the machine on an unstable surface. The machine could fall, causing injury or machine damage.
	Use only No.26 AWG ^a or larger, telephone line cord, if necessary. Otherwise, it can cause damage to the machine.
	Make sure you plug the power cord into a grounded electrical outlet. Otherwise, this could result in electric shock or fire.

Safety information

	Use the power cord supplied with your machine for safe operation. If you are using a cord which is longer than 2 meters (6 feet) with a 110V machine, then the gauge should be 16 AWG or larger. Otherwise, it can cause damage to the machine, and could result in electric shock or fire.
	Do not put a cover over the machine or place it in an airtight location, such as a closet. If the machine is not well-ventilated, this could result in fire.
	Do not overload wall outlets and extension cords. This can diminish performance, and could result in electric shock or fire.
	The machine should be connected to the power level which is specified on the label. If you are unsure and want to check the power level you are using, contact the electrical utility company.

a. AWG: American Wire Gauge

Maintenance / Checking

Caution

 	Unplug this product from the wall outlet before cleaning the inside of the machine. Do not clean the machine with benzene, paint thinner or alcohol; do not spray water directly into the machine. This could result in electric shock or fire.
 	When you are working inside the machine replacing supplies or cleaning the inside, do not operate the machine. You could get injured.
 	Keep cleaning supplies away from children. Children could get hurt.
 	Do not disassemble, repair or rebuild the machine by yourself. It can damage the machine. Call a certified technician when the machine needs repairing.
	To clean and operate the machine, strictly follow the user's guide provided with the machine. Otherwise, you could damage the machine.

Safety information

	Keep the power cable and the contact surface of the plug clean from dust or water. Otherwise, this could result in electric shock or fire.
	- Do not remove any covers or guards that are fastened with screws. - Fuser units should only be repaired by a certified service technician. Repair by non-certified technicians could result in fire or electric shock. - The machine should only be repaired by a Samsung service technician.

Supply usage

Caution

	Do not disassemble the toner cartridge. Toner dust can be dangerous if inhaled or ingested.
	Do not burn any of the supplies such as toner cartridge or fuser unit. This could cause an explosion or uncontrollable fire.

	When storing supplies such as toner cartridges, keep them away from children. Toner dust can be dangerous if inhaled or ingested.
	Using recycled supplies, such as toner, can cause damage to the machine. In case of damage due to the use of recycled supplies, a service fee will be charged.
	When toner gets on your clothing, do not use hot water to wash it. Hot water sets toner into fabric. Use cold water.
	When changing the toner cartridge or removing jammed paper, be careful not to let toner dust touch your body or clothes. Toner dust can be dangerous if inhaled or ingested.

Machine overview

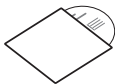
Accessories



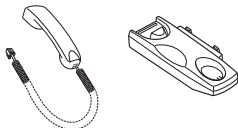
Power cord



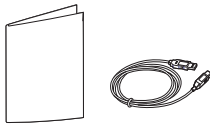
Quick installation guide



Software CD^a



Handset



Misc. accessories^b

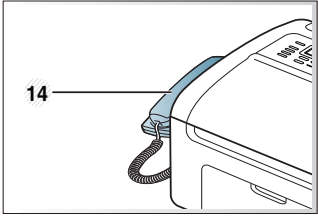
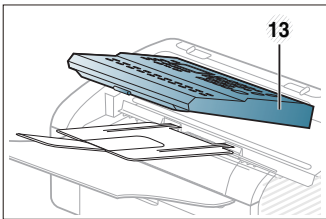
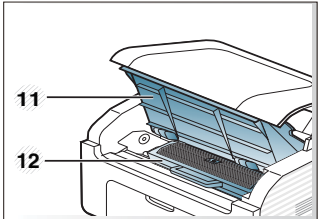
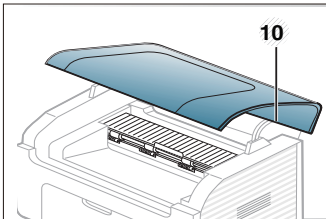
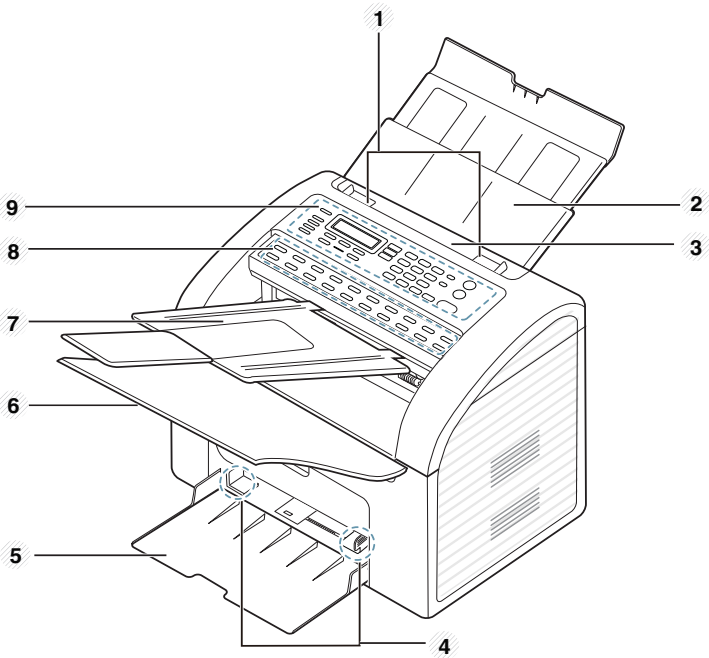
a. The software CD contains the print drivers user’s guide, and software applications.
b. Miscellaneous accessories included with your machine may vary by country of purchase and specific model.

Machine overview

Front view



- This illustration may differ from your machine depending on your model.
- Some features and optional goods may not be available depending on model or country (see "Features by models" on page 7).



1	Document feeder width guides	5	Tray	9	Control panel	13	Scan unit
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Machine overview

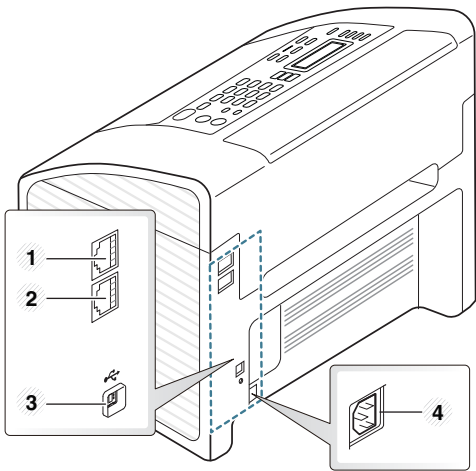
2	Document feeder input tray	6	Output tray	10	Top cover	14	Handset
3	Document feeder	7	Document feeder output tray	11	Inner cover		
4	Paper width guides	8	One-touch dial	12	Toner cartridge		

Machine overview

Rear view



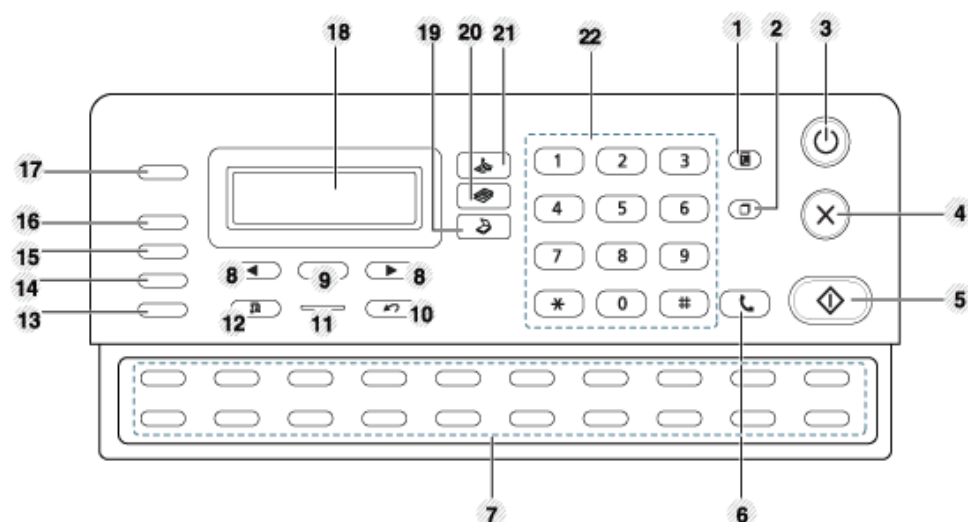
- This illustration may differ from your machine depending on your model.
- Some features and optional goods may not be available depending on model or country (see "Features by models" on page 7).



1	Extension telephone socket (EXT.)	3	USB port
2	Telephone line socket (LINE)	4	Power receptacle

Control panel overview

Control panel



1	Address Book		Allows you to store frequently used fax numbers or search for stored fax numbers.
2	Redial/Pause		Redials the last number in ready mode, or inserts a pause(-) into a fax number in edit mode.
3	Power		Turns the power on or off, or wakes up the machine from the power save mode. If you need to turn the machine off, press this button for more than three seconds.

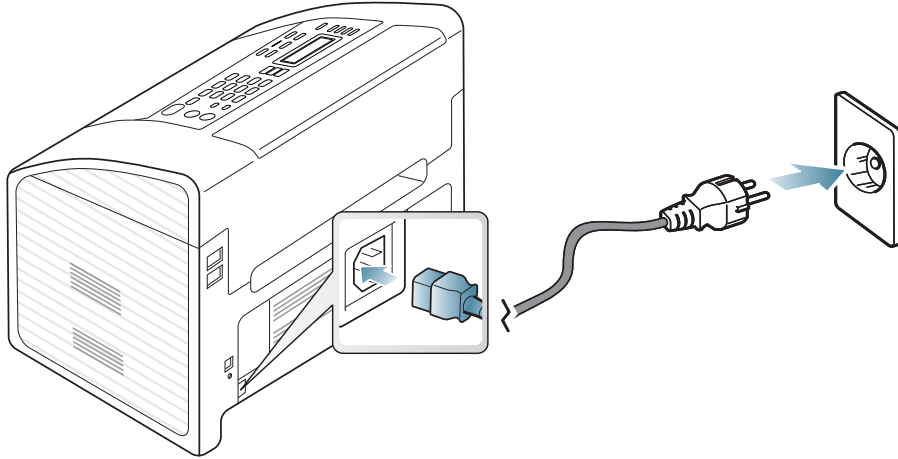
4	Stop/Clear		Stops an operations at any time.
5	Start		Starts a job.
6	On Hook Dial		When you press this button, you can hear a dial tone. Then enter a fax number. It is similar to making a call using speaker phone.
7	One-touch dial		Stores frequently-dialed fax number (see "One-touch dialing" on page 136).
8	Left/Right Arrows		Scrolls through the options available in the selected menu and increases or decreases values.
9	OK		Confirms the selection on the display screen.
10	Back		Sends you back to the upper menu level.
11	Status LED		Indicates the status of your machine (see "Understanding the status LED" on page 85).
12	Menu		Opens Menu mode and scrolls through the available menus (see "Menu overview" on page 29).
13	Resolution		Adjusts the resolution of the documents for the current fax job (see "Resolution" on page 56).
14	Receive Mode		Converts the fax receiving mode (see "Changing the receive modes" on page 162).

Control panel overview

15	Multi Send		Allows you to send a fax to (see "Sending a fax to multiple destinations" on page 55).
16	Delay Send		Allows you to send a fax at a later time when you will not be present (see "Delaying a fax transmission" on page 158).
17	Reduce/ Enlarge		Makes a copy smaller or larger than the original.
18	Display screen		Shows the current status and displays prompts during an operation.
19	Scan		Switches to Scan mode.
20	Copy		Switches to Copy mode.
21	Fax		Switches to Fax mode.
22	Numeric Keypad		Dials a number or enters alphanumeric characters (see "Keypad letters and numbers" on page 134).

Turning on the machine

- 1 Connect the machine to the electricity supply first.



- 2 Power is turned on automatically.

 If you want to turn the power off, press and hold  (**Power**) button for about 3 seconds.

Installing the driver locally

A locally connected machine is a machine directly attached to your computer using the cable.



- If you are a Macintosh and Linux OS user, refer to the "Installation for Macintosh" on page 114, "Installation for Linux" on page 116.
- The installation window in this User's Guide may differ depending on the machine and interface in use.
- Selecting **Custom Installation** allows you to choose which programs to install.
- Only use a USB cable no longer than 3 meters (118 inches).

Windows

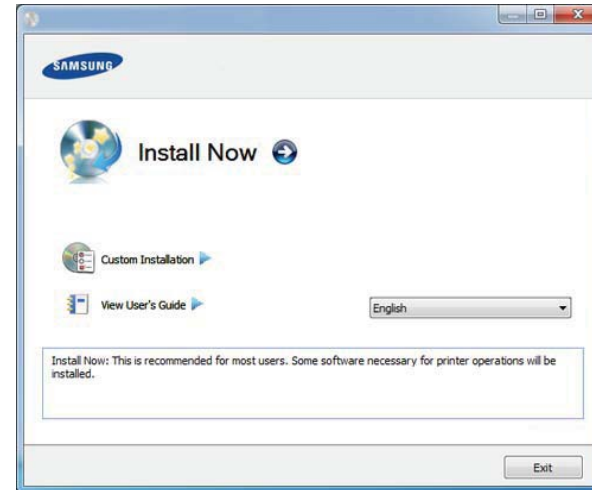
- 1 Make sure that the machine is connected to your computer and powered on.



If the "**Found New Hardware Wizard**" appears during the installation procedure, click **Cancel** to close the window.

- 2 Insert the supplied software CD into your CD-ROM drive.
Click **Start > All programs > Accessories > Run**.
X:\Setup.exe replacing "X" with the letter, which represents your CD-ROM drive and click **OK**.

- 3 Select **Install Now**.



- 4 Read the **License Agreement**, and select **I accept the terms of the License Agreement**. Then, click **Next**.
- 5 Follow the instructions in the installation window.

Reinstalling the driver

If the printer driver does not work properly, follow the steps below to reinstall the driver.

Windows

- 1 Make sure that the machine is connected to your computer and powered on.
- 2 From the **Start** menu, select **Programs** or **All Programs** > **Samsung Printers** > **your printer driver name** > **Uninstall**.
- 3 Follow the instructions in the installation window.
- 4 Insert the software CD into your CD-ROM drive and install the driver again (see "Installing the driver locally" on page 26).



2. Menu Overview and Basic Setup

This chapter provides information about the overall menu structure and the basic setup options.

- **Menu overview** 29
- **Machine's basic settings** 34
- **Media and tray** 36
- **Basic printing** 46
- **Basic copying** 50
- **Basic scanning** 53
- **Basic faxing** 54



Menu overview

The control panel provides access to various menus to set up the machine or use the machine's functions.



- An asterisk (*) appears next to the currently selected menu.
- Some menus may not appear on the display depending on options or models. If so, it is not applicable to your machine.
- Some menu names may differ from your machine depending on its options or the models.
- The menus are described in the Advanced Guide (see "Useful Setting Menus" on page 119).

Accessing the menu

- 1 Select the Fax, Copy, or Scan button on the control panel depending on the feature to be used.
- 2 Select  (**Menu**) until the menu you want appears on the bottom line of the display and press **OK**.
- 3 Press the left/right arrows until the needed menu item appears and press **OK**.
- 4 If the setting item has sub menus, repeat step 3.
- 5 Press **OK** to save the selection.

- 6 Press  (**Stop/Clear**) to return to the ready mode.

Items	Options	
Fax Feature	Darkness	Normal Dark+1- Dark+5 Light+5- Light+1
	Contrast	Normal Dark+1- Dark+5 Light+5- Light+1
	Resolution	Standard Fine Super Fine Photo Fax Color Fax
	Scan Size	
	Multi Send	
	Delay Send	

Menu overview

Items	Options	
Fax Feature	Priority Send	
	Forward	Fax PC
	Secure Receive	Off On Print
	Add Page	
	Cancel Job	
Fax Setup	Sending	Redial Times Redial Term Prefix Dial ECM Mode Send Report Image TCR Dial Mode ^a

Items	Options	
Fax Setup	Receiving	Receive Mode Ring To Answer Stamp RCV Name RCV Start Code Auto Reduction Discard Size Junk Fax Setup DRPD Mode
	Change Default	Resolution Darkness Contrast Scan Size
	Auto Report	On Off
Copy Feature	Scan Size	
	Reduce/Enlarge	
	Darkness	Normal Dark+1- Dark+5 Light+5- Light+1

Menu overview

Items	Options	
Copy Feature	Contrast	Normal Dark+1- Dark+5 Light+5- Light+1
	Original Type	Text/Photo Photo Text
	Layout	Normal 2-Up 4-Up
	Adjust Bkgd.	Off Auto Enhance Lev.1 Enhance Lev.2 Erase Lev.1- Erase Lev.4

Items	Options	
Copy Setup	Change Default	Scan Size Copies Copy Collation Reduce/Enlarge Darkness Contrast Original Type Adjust Bkgd.

Menu overview

Items	Options	
System Setup	Machine Setup	Machine ID Fax Number Date & Time Clock Mode Language Power Save Wakeup Event System Timeout Altitude Adj. Auto Continue ^b Paper Mismatch Paper Substit. ^b Toner Save
	Paper Setup	Paper Size Paper Type Margin

Items	Options	
System Setup	Sound/Volume	Key Sound Alarm Sound Speaker Ringer
	Report	All Report Configuration Supplies Info. Address Book Fax Send Fax Sent Fax Received Schedule Jobs Junk Fax Usage Counter Fax Options
	Maintenance	CLR Empty Msg ^c Supplies Life Serial No. TonerLow Alert Adjust Shading

Menu overview

Items	Options	
System Setup	Clear Setting	All Settings
		Fax Setup
		Copy Setup
		System Setup
		Address Book
		Fax Sent
		Fax Received

- a. This setting may not be available depending on your country.
- b. This option only appears if "paper mismatch" is enabled.
- c. This option only appears when small amount of toner is left in the cartridge.

Machine's basic settings



- It may be necessary to press **OK** to navigate to lower-level menus for some models.
- You can set the machine's settings by using the **Device Settings** in Samsung Easy Printer Manager program or **Machine** section in Printer Settings Utility program.
 - For Windows and Macintosh users, see "Device Settings" on page 172.
 - For Linux users, see "Using Smart Panel" on page 175.

After installation is complete, you may want to set the machine's default settings.

To change the machine's default settings, follow these steps:

- 1 Press  **(Menu)** button on the control panel.
- 2 Press **System Setup > Machine Setup**.
- 3 Select the option you want, then press **OK**.
 - **Date & Time:** When you set the time and date, they are used in delay fax and delay print. They are printed on reports. If, however, they are not correct, you need to change it for the correct time being.



- Enter the correct time and date using arrows or numeric keypad (see "Keypad letters and numbers" on page 134).
- Month = 01 to 12,
 - Day = 01 to 31,

- Year = requires four digits,
- Hour = 01 to 12,
- Minute = 00 to 59,

- **Clock Mode:** You can set your machine to display the current time using either a 12-hour or 24-hour format.
- **Language:** change the language that is displayed on the control panel.
- **Power Save:** When you are not using the machine for a while, use this feature to save power.



- To wake the machine from power save mode, press the power button, start printing, or receive a fax.
- The machine can also be woken up by pressing any other button by setting  **(Menu)** > **System Setup** > **Machine Setup** > **Wakeup Event** > **Button Press** > **On**.
 - **Altitude Adj.:** Print quality is affected by atmospheric pressure, which atmospheric pressure is determined by the height of the machine above sea level (see "Altitude adjustment" on page 133).
 - **Toner Save:** Toner save mode allows your machine to use less toner on each page. Activating this mode extends the life of the toner cartridge beyond what one would experience in the normal mode, but it reduces print quality.

Machine's basic settings



When PC-printing, you can also turn on or off toner save mode in the printer properties.

4

Select the option you want, then press **OK**.

5

Press **OK** to save the selection.

6

Press **(X)** (**Stop/Clear**) to return to ready mode.



Refer to below links to set other settings useful for using the machine.

- See "Entering various characters" on page 134.
- See "Keypad letters and numbers" on page 134.
- See "Setting the paper size and type" on page 43.
- See "Setting up the address book" on page 135.

Media and tray

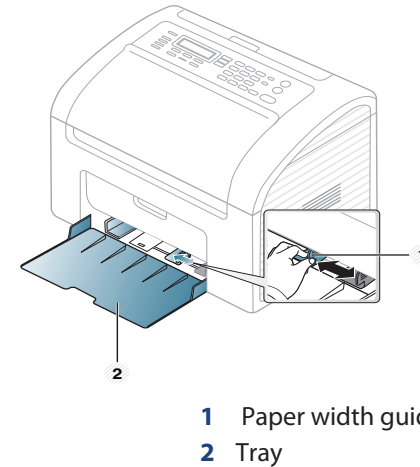
This chapter provides information on how to load print media into your machine.



- Using print media that does not meet these specifications may cause problems or require repairs. Such repairs are not covered by Samsung's warranty or service agreements.
- Make sure not to use the inkjet photo paper with this machine. It could cause damage to the machine.
- Using inflammable print media can cause a fire.
- Use designated print media (see "Print media specifications" on page 94).



The use of inflammable media or foreign materials left in the printer may lead to overheating of the unit and, in rare cases may cause a fire.



If you do not adjust the guide, it may cause paper registration, image skew, or jamming of the paper.

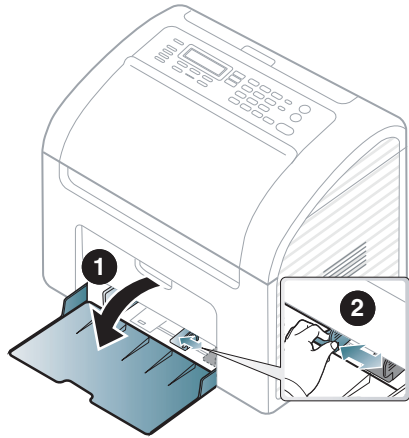
Tray overview

To change the size, you need to adjust the paper guides.

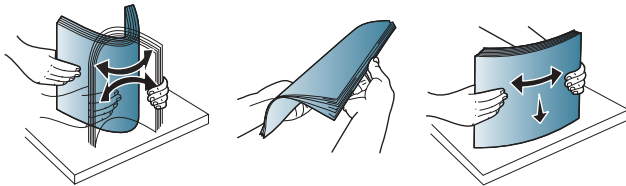
Media and tray

Loading paper in the tray

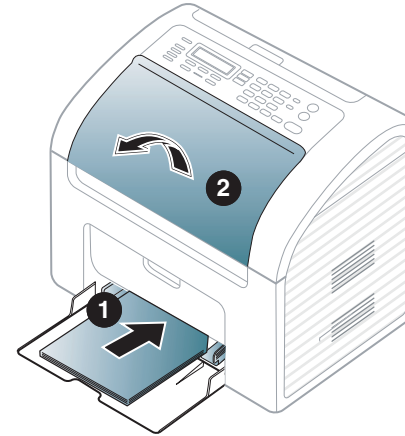
- 1 Open the tray. Then, adjust the tray size to the media size you are loading (see "Tray overview" on page 36.)



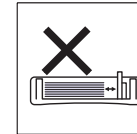
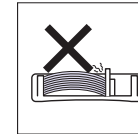
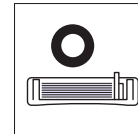
- 2 Flex or fan the edge of the paper stack to separate the pages before loading papers.



- 3 Place the paper with the side you want to print facing up and open the output tray.

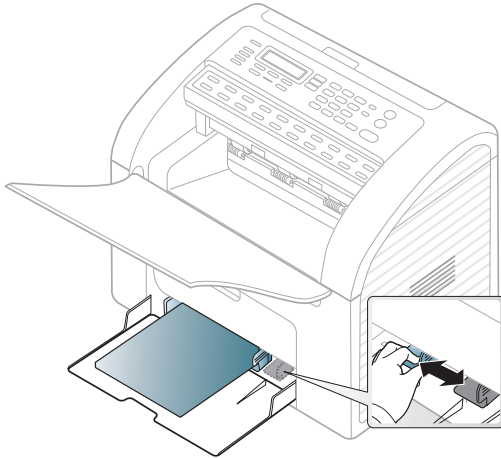


- Do not push the paper width guide too far causing the media to warp.
- Do not use a paper with a leading-edge curl, it may cause a paper jam or the paper can be wrinkled.
- If you do not adjust the paper width guide, it may cause paper jams.



Media and tray

- 4 Squeeze the paper width guide and slide it to the edge of the paper stack without causing it to bend.



- 5 When you print a document, set the paper type and size for the tray (see "Setting the paper size and type" on page 43).



The settings made from the machine driver override the settings on the control panel.

- a To print in application, open an application and start the print menu.
- b Open **Printing Preferences** (see "Opening printing preferences" on page 48).
- c Press the **Paper** tab in **Printing Preferences**, and select an appropriate paper type.
For example, if you want to use a label, set the paper type to **Label**.
- d Select **Manual Feeder** in paper source, then press **OK**.
- e Start printing in application.

Media and tray

Manual feeding in the tray

The tray can hold special sizes and types of print material, such as postcards, note cards, and envelopes (see "Print media specifications" on page 94).

To feed manually in the tray, click the below:

See "Loading paper in the tray" on page 37.



Tips on using the manual feeding in tray

- If you select **Paper > Source > Manual Feeder** from your printer driver, you need to press **OK** each time you print a page.
- To prevent paper jams, do not add paper while printing when there is still paper in the manual feeder.
- Print media should be loaded face up with the top edge going into the manual feeder first and be placed in the center of the tray.
- To ensure printing quality and to prevent paper jams, only load the available paper (see "Print media specifications" on page 94).
- Flatten any curl on postcards, envelopes, and labels before loading them into the manual feeder.
- When printing on special media, you must follow the loading guidelines (see "Printing on special media" on page 39).
- When papers overlap when printing using the manual feeder, open tray and remove the papers then try printing again.
- Load only one type, size and weight of print media at time in the in the tray.

Printing on special media

The table below shows the special media usable in each tray.

The media is also shown in the **Printing Preferences**. To get the highest printing quality, select the proper media type from the **Printing preferences** window > **Paper** tab > **Paper Type** (see "Opening printing preferences" on page 48).

For example, if you want to print on labels, select **Labels** for **Paper Type**.



When using special media, we recommend you feed one sheet at a time (see "Print media specifications" on page 94).

To see for paper weights for each sheet, refer to "Print media specifications" on page 94.

Types	Tray ^a
Plain	•
Thick	•
Thin	•
Bond	•
Color	•
CardStock	•

Media and tray

Types	Tray ^a
Labels	•
Envelope	•
Preprinted	•
Cotton	•
Recycled	•
Archive	•

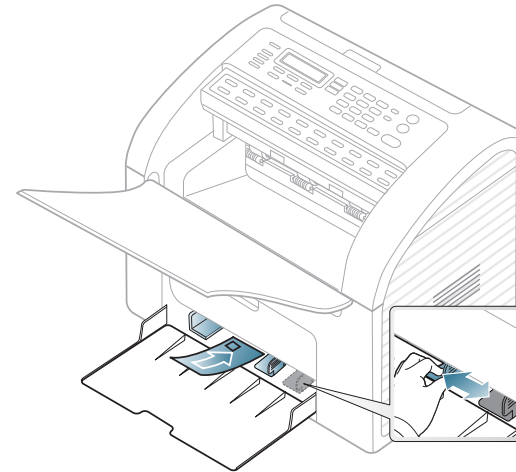
a. The paper types available manual feeding in tray.

(•: Included, Blank: Not available)

Envelope

Printing successfully on envelopes depends upon the quality of the envelopes.

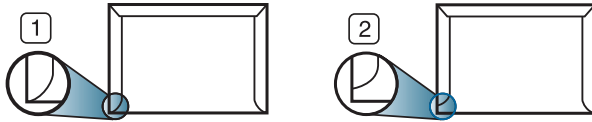
To print an envelope, place it as shown in the following figure.



- When selecting envelopes, consider the following factors:
 - **Weight:** should not exceed 90 g/m² otherwise; jams may occur.
 - **Construction:** should lie flat with less than 6 mm curl and should not contain air.
 - **Condition:** should not be wrinkled, nicked, nor damaged.
 - **Temperature:** should resist the heat and pressure of the machine during operation.
- Use only well-constructed envelopes with sharp and well-creased folds.
- Do not use stamped envelopes.
- Do not use envelopes with clasps, snaps, windows, coated lining, self-adhesive seals, or other synthetic materials.
- Do not use damaged or poorly made envelopes.

Media and tray

- Be sure the seam at both ends of the envelope extends all the way to the corner of the envelope.

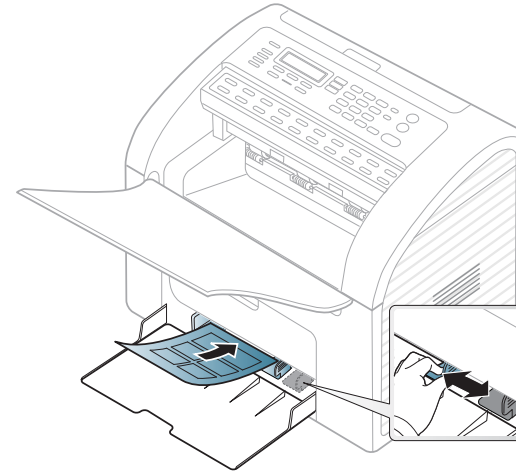


- 1 Acceptable
- 2 Unacceptable

- Envelopes with a peel-off adhesive strip or with more than one flap that folds over to seal must use adhesives compatible with the machine's fusing temperature for 0.1 second about 170°C (338 °F). The extra flaps and strips might cause wrinkling, creasing, or jams, and may even damage the fuser.
- For the best print quality, position margins no closer than 15 mm from the edges of the envelope.
- Avoid printing over the area where the envelope's seams meet.

Labels

To avoid damaging the machine, use only labels designed for use in laser printers.

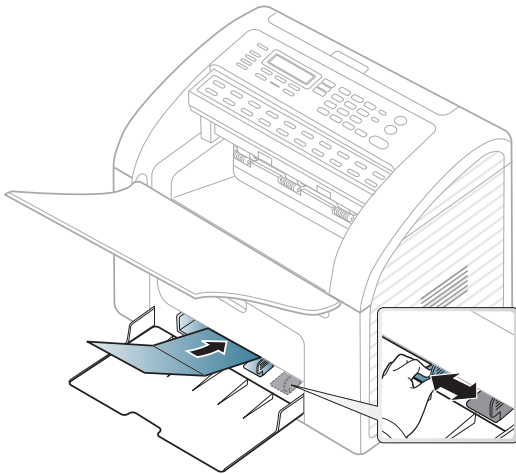


- When selecting labels, consider the following factors:
 - **Adhesives:** Should be stable at your machine's fusing temperature (about 170°C (338°F)).
 - **Arrangement:** Only use labels with no exposed backing between them. Labels can peel off sheets that have spaces between the labels, causing serious jams.
 - **Curl:** Must lie flat with no more than 13 mm of curl in any direction.
 - **Condition:** Do not use labels with wrinkles, bubbles, or other indications of separation.

Media and tray

- Make sure that there is no exposed adhesive material between labels. Exposed areas can cause labels to peel off during printing, which can cause paper jams. Exposed adhesive can also cause damage to machine components.
- Do not run a sheet of labels through the machine more than once. The adhesive backing is designed for only a single pass through the machine.
- Do not use labels that are separating from the backing sheet or are wrinkled, bubbled, or otherwise damaged.

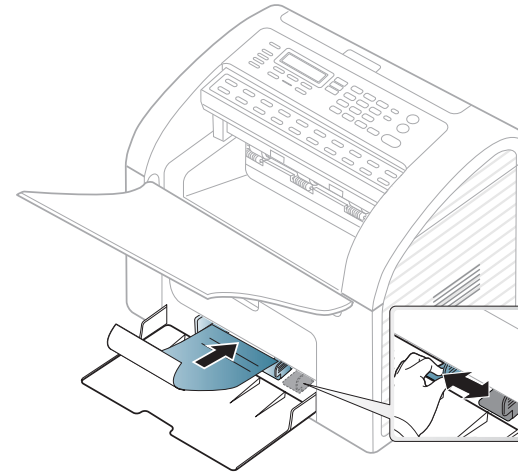
Card stock/ Custom-sized paper



- In the software application, set the margins to at least 6.4 mm (0.25 inches) away from the edges of the material.

Preprinted paper

When loading preprinted paper, the printed side should be facing up with an uncurled edge at the front. If you experience problems with paper feeding, turn the paper around. Note that print quality is not guaranteed.



- Must be printed with heat-resistant ink that will not melt, vaporize, or release hazardous emissions when subjected to the machine's fusing temperature for 0.1 second (about 170°C (338°F)).
- Preprinted paper ink must be non-flammable and should not adversely affect machine rollers.
- Before you load preprinted paper, verify that the ink on the paper is dry. During the fusing process, wet ink can come off preprinted paper, reducing print quality.

Media and tray

Setting the paper size and type

After loading paper in the paper tray, set the paper size and type using the control panel buttons.



- It may be necessary to press **OK** to navigate to lower-level menus for some models.
- You can set the machine's settings by using the **Device Settings** in Samsung Easy Printer Manager program or **Machine** section in Printer Settings Utility program.
 - For Windows and Macintosh users, see "Device Settings" on page 172.
 - For Linux users, see "Using Smart Panel" on page 175.

- 1 Select  (**Menu**) > **System Setup** > **Paper Setup** > **Paper Size** or **Paper Type** on the control panel.
- 2 Select the tray and the option you want.
- 3 Press **OK** to save the selection.
- 4 Press  (**Stop/Clear**) to return to ready mode.



- The settings set from the machine driver override the settings on the control panel.
 - a To print from an application, open an application and start the print menu.
 - b Open **Printing Preferences** (see "Opening printing preferences" on page 48).
 - c Press the **Paper** tab and select an appropriate paper.
- If you want to use special-sized paper such as billing paper, select the **Paper** tab > **Size** > **Edit...** and set **Custom Paper Size Settings** in the **Printing Preferences** (see "Opening printing preferences" on page 48).

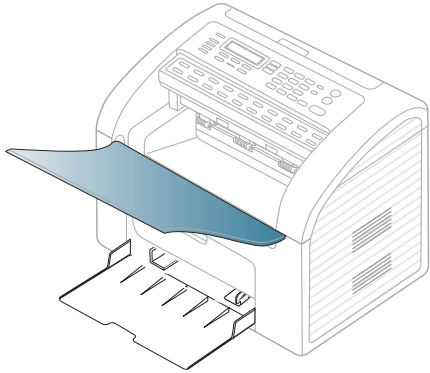
Using the output tray



- The surface of the output tray may become hot if you print a large number of pages at once. Make sure that you do not touch the surface, and do not allow children near it.

Media and tray

The printed pages stack on the output tray. The printer sends output to the output tray by default.



Preparing originals

- Do not load paper smaller than 142 x 148 mm (5.6 x 5.8 inches) or larger than 216 x 356 mm (8.5 x 14 inches).
- Do not attempt to load the following s of paper, in order to prevent paper jam, low print quality and machine damage.
 - Carbon-paper or carbon-backed paper
 - Coated paper
 - Onion skin or thin paper
 - Wrinkled or creased paper
 - Curled or rolled paper
 - Torn paper

- Remove all staples and paper clips before loading.
- Make sure any glue, ink, or correction fluid on the paper is completely dry before loading.
- Do not load originals that include different sizes or weights of paper.
- Do not load booklets, pamphlets, transparencies, or documents with other unusual characteristics.

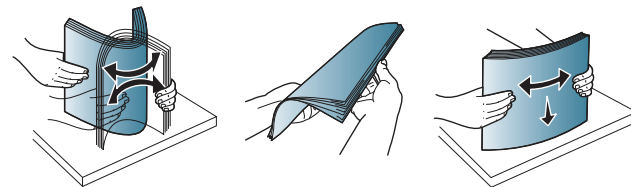
Loading originals

You can use the document feeder to load an original for copying, scanning, and sending a fax.

In the document feeder

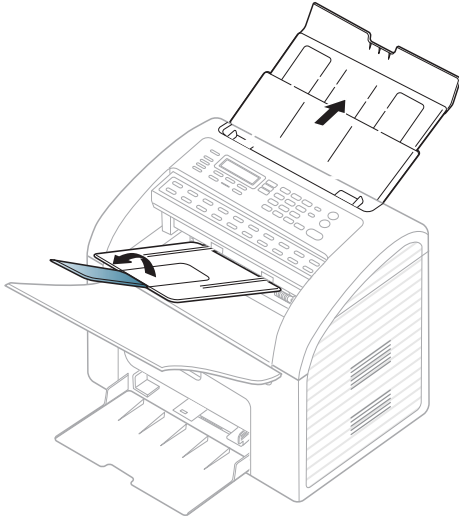
Using the document feeder, you can load up to 20 sheets of paper (80 g/m2, 20 lbs bond) for one job.

- 1 Flex or fan the edge of the paper stack to separate the pages before loading originals.

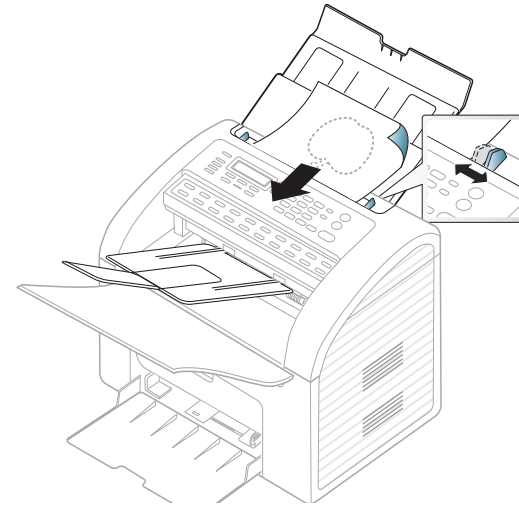


Media and tray

- 2** Pull the document feeder input tray or document feeder output tray all the way out. Fold out the extender, if necessary.



- 3** Load the original face down into the document feeder input tray. Adjust the document feeder width guides to the paper size.



Basic printing



For special printing features, refer to the Advanced Guide (see "Using advanced print features" on page 140).

Printing



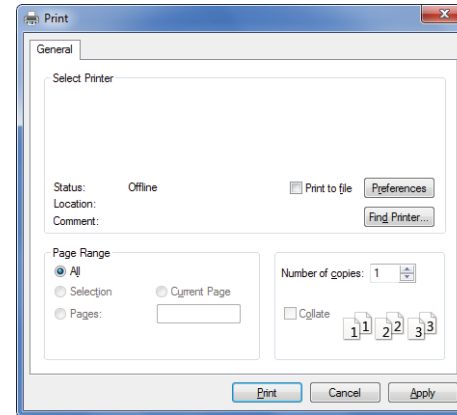
If you are a Macintosh and Linux OS user, refer to the Advanced Guide.(see "Macintosh printing" on page 147, "Linux printing" on page 148)

The following **Printing Preferences** window is for Notepad in Windows 7.

- 1 Open the document you want to print.
- 2 Select **Print** from the **File** menu.

3

Select your machine from the **Select Printer** list.



4

The basic print settings including the number of copies and print range are selected within the **Print** window.



To take advantage of the advanced printing features, click **Properties** or **Preferences** from the Print window (see "Opening printing preferences" on page 48).

5

To start the print job, click **OK** or **Print** in the **Print** window.

Basic printing

Canceling a print job

If the print job is waiting in the print queue or print spooler, cancel the job as follows:

- You can access this window by simply double-clicking the machine icon () in the Windows task bar.
- You can also cancel the current job by pressing  (**Stop/Clear**) on the control panel.

Basic printing

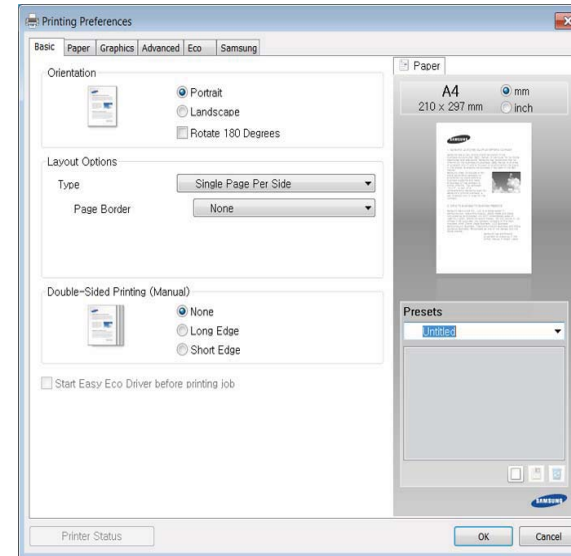
Opening printing preferences



- The **Printing Preferences** window that appears in this user's guide may differ depending on the machine in use.
- When you select an option in **Printing Preferences**, you may see a warning mark  or . An  mark means you can select that certain option but it is not recommended, and an  mark means you cannot select that option due to the machine's setting or environment.

- 1 Open the document you want to print.
- 2 Select **Print** from the file menu. The **Print** window appears.
- 3 Select your machine from the **Select Printer**.

4 Click **Properties** or **Preferences**.



You can check the machine's current status pressing the **Printer Status** button (see "Using Samsung Printer Status" on page 173).

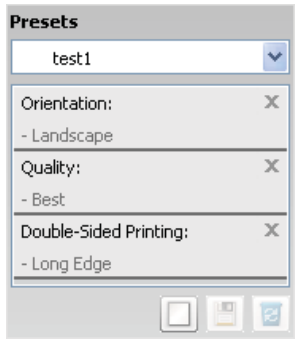
Using a favorite setting

The **Presets** option, which is visible on each preferences tab except for the **Samsung** tab, allows you to save the current preferences for future use.

To save a **Presets** item, follow these steps:

Basic printing

- 1 Change the settings as needed on each tab.
- 2 Enter a name for the item in the **Presets** input box.



- 3 Click  (**Add**). When you save **Presets**, all current driver settings are saved.



Select more options and click  (**Update**), settings will be added to the Presets you made. To use a saved setting, select it from the **Presets** drop-down list. The machine is now set to print according to the settings you have selected.

To delete saved settings, select it from the **Presets** drop-down list and click  (**Delete**).

You can also restore the printer driver's default settings by selecting **Default Preset** from the **Presets** drop-down list.

Using help

Click the option you want to know on the **Printing Preferences** window and press **F1** on your keyboard.

Eco printing

The **Eco** function cuts toner consumption and paper usage. The **Eco** function allows you to save print resources and lead you to eco-friendly printing.

To Eco printing, click the below:

See "Easy Eco Driver" on page 169.

Basic copying



For special printing features, refer to the Advanced Guide (see "Copy menu" on page 124).

Basic copy



- It may be necessary to press **OK** to navigate to lower-level menus for some models.
- You can set the machine's settings by using the **Device Settings** in Samsung Easy Printer Manager program or **Machine** section in Printer Settings Utility program.
 - For Windows and Macintosh users, see "Device Settings" on page 172.
 - For Linux users, see "Using Smart Panel" on page 175.

- 1 Select  (copy) on the control panel.
- 2 Load originals face down into the document feeder (see "Loading originals" on page 44).
- 3 If you want to customize the copy settings including **Reduce/Enlarge**, **Darkness**, **Contrast**, **Original Type**, and more by using the control panel buttons (see "Changing the settings for each copy" on page 50).
- 4 Enter the number of copies using the arrow or number keypad, if necessary.

5

Press  (**Start**).



If you need to cancel the copying job during the operation, press  (**Stop/Clear**) and the copying will stop.

Changing the settings for each copy

Your machine provides default settings for copying so that you can quickly and easily make a copy. However, if you want to change the options for each copy, use the copy function buttons on the control panel.



- If you press the  (**Stop/Clear**) button twice while setting the copy options, all of the options you have set for the current copy job will be canceled and returned to their default status. Or, they will automatically return to their default status after the machine completes the copy in progress.
- You can customize the copy settings such as darkness, original type, and more by using the **Device Settings** in the Samsung Easy Printer Manager program or the **Machine** section of the Printer Settings Utility program.
 - For Windows and Macintosh users, see "Device Settings" on page 172.
 - For Linux users, see "Using Smart Panel" on page 175.
- It may be necessary to press **OK** to navigate to lower-level menus for some models.

Basic copying

Darkness

If you have an original containing faint marking and dark images, you can adjust the brightness to make a copy that is easier to read.

- 1 Select  (copy) >  (**Menu**) > **Copy Feature** > **Darkness** on the control panel.
- 2 Select the option you want and press **OK**.
For example, the **Light+5** being the lightest, and the **Dark+5** being the darkest.
- 3 Press  (**Stop/Clear**) to return to ready mode.

Contrast

The **Contrast** menu lets you increase or decrease the difference between the bright and dark areas of an image.

- 1 Select  (copy) >  (**Menu**) > **Copy Feature** > **Contrast** on the control panel.
- 2 Select the option you want and press **OK**.
Select **Dark** to heighten the contrast and select **Light** to reduce it.
- 3 Press  (**Stop/Clear**) to return to ready mode.

Original Type

The original setting is used to improve the copy quality by selecting the document for the current copy job.

- 1 Select  (copy) >  (**Menu**) > **Copy Feature** > **Original Type** on the control panel.
- 2 Select the option you want and press **OK**.
 - **Text**: Use for originals containing mostly text.
 - **Text/Photo**: Use for originals with mixed text and photographs.



If texts in the printout is blurry, select **Text** to get the clear texts.

- **Photo**: Use when the originals are photographs.

- 3 Press  (**Stop/Clear**) to return to ready mode.

Reduced or enlarged copy

You can reduce or enlarge the size of a copied image from 25% to 400% from the document feeder.



You can use **Reduce/Enlarge** button directly on the control panel.

Basic copying

To select from the predefined copy sizes

- 1 Select  (copy) >  (**Menu**) > **Copy Feature** > **Reduce/Enlarge** on the control panel.
- 2 Select the option you want and press **OK**.
- 3 Press  (**Stop/Clear**) to return to ready mode.

To scale the copy by directly entering the scale rate

- 1 Select  (copy) >  (**Menu**) > **Copy Feature** > **Reduce/Enlarge** > **Custom** on the control panel.
- 2 Enter the copy size you want using the numeric keypad.
- 3 Press **OK** to save the selection.
- 4 Press  (**Stop/Clear**) to return to ready mode.



When you make a reduced copy, black lines may appear at the bottom of your copy.

Basic scanning



For special scanning features, refer to the Advanced Guide (see "Scan features" on page 151).

Basic Scanning

This is the normal and usual procedure for scanning originals.



It may be necessary to press **OK** to navigate to lower-level menus for some models.

This is a basic scanning method for USB-connected machine.

1 Load originals face down into the document feeder (see "Loading originals" on page 44).

2 Select  (scan) > **Scan to PC** on the control panel.



If you see **Not Available** message, check the port connection, or select **Enable Scan from Device Panel** in Samsung Easy Printer Manager >



Switch to advanced mode > **Scan to PC Settings**.

3

Select the **Scan Destination** you want and press **OK**.

Default setting is **My Documents**.



- You can create and save the frequently used settings as a profile list. Also you can add and delete the profile and save each profile to a different path.
- To change the Samsung Easy Printer Manager >  Switch to advanced mode > **Scan to PC Settings**.

4

Select the option you want and press **OK**.

5

Scanning begins.



- Scanned image is saved in computer's **C:\Users\users name\My Documents**. The saved folder may differ, depending on your operating system or the application you are using.

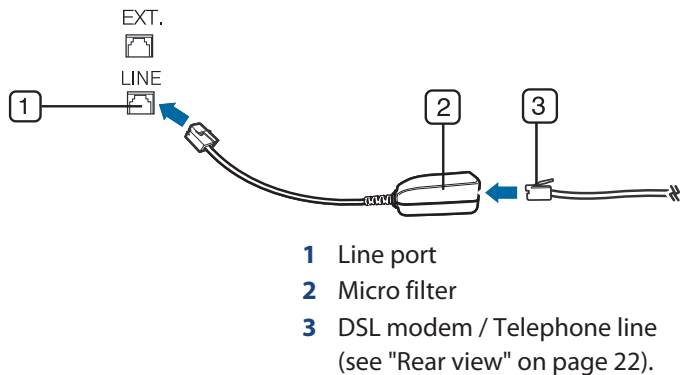
Basic faxing



For special faxing features, refer to the Advanced Guide (see "Fax features" on page 157).



- You cannot use this machine as a fax via the internet phone. For more information ask your internet service provider.
- We recommend using traditional analog phone services (PSTN: Public Switched Telephone Network) when connecting telephone lines to use a fax machine. If you use other Internet services (DSL, ISDN, VoIP), you can improve the connection quality by using the Micro-filter. The Micro-filter eliminates unnecessary noise signals and improves connection quality or Internet quality. Since the DSL Micro-filter is not provided with the machine, contact your Internet service provider for use on DSL Micro-filter.



Preparing to fax

Before you send or receive a fax, you need to connect the supplied line cord to your telephone wall jack. Refer to the Quick Installation Guide how to make a connection. The method of making a telephone connection is different from one country to another.

Sending a fax



It may be necessary to press **OK** to navigate to lower-level menus for some models.

- 1 Load originals face down into the document feeder (see "Loading originals" on page 44).
- 2 Select  (fax) on the control panel.
- 3 Adjust the resolution and the darkness to suit your fax needs (see "Adjusting the document settings" on page 56).
- 4 Enter the destination fax number.
- 5 Press  (**Start**) on the control panel. The machine starts to scan and send the fax to the destinations.

Basic faxing



- If you want to send a fax directly from your computer, use Samsung Network PC Fax (see "Sending a fax in the computer" on page 158).
- When you want to cancel a fax job, press  (**Stop/Clear**) before the machine starts transmission.

Sending a fax manually

Perform the following to send a fax using  (**On Hook Dial**) on the control panel or using the handset (see "Features by models" on page 7).

- 1 Load originals face down into the document feeder(see "Loading originals" on page 44).
- 2 Select  (fax) on the control panel.
- 3 Adjust the resolution and the darkness to suit your fax needs (see "Adjusting the document settings" on page 56).
- 4 Press  (**On Hook Dial**) on the control panel or lift the handset.
- 5 Enter a fax number using the number keypad on the control panel.
- 6 Press  (**Start**) on the control panel when you hear a high-pitched fax signal from the remote fax machine.

Sending a fax to multiple destinations

You can use the multiple send feature, which allows you to send a fax to multiple locations. Originals are automatically stored in memory and sent to a remote station. After transmission, the originals are automatically erased from memory.



You cannot send color faxes with this feature.

- 1 Load originals face down into the document feeder (see "Loading originals" on page 44).
- 2 Select  (fax) on the control panel.
- 3 Adjust the resolution and the darkness to suit your fax needs (see "Adjusting the document settings" on page 56).
- 4 Select  (**Menu**) > **Fax Feature** > **Multi Send** on the control panel. You also can use **Multi Send** button directly on the control panel.
- 5 Enter the number of the first receiving fax machine and press **OK**. You can press speed dial numbers or select a group dial number using the  (**Address Book**) button (see "Using speed dial numbers" on page 135 or see "One-touch dialing" on page 136).
- 6 Enter the second fax number and press **OK**. The display asks you to enter another fax number to send the document.

Basic faxing

- 7** To enter more fax numbers, press **OK** when **Yes** appears and repeat steps 5 and 6. You can add up to 10 destinations.



Once you have entered a group dial number, you cannot enter another group dial number.

- 8** When you have finished entering fax numbers, select **No** at the **Another No.?** prompt and press **OK**.

The machine begins sending the fax to the numbers you entered in the order in which you entered them.

send report is printed after sending faxes.

Receiving a fax

Your machine is preset Fax mode at the factory. When you receive a fax, the machine answers the call on a specified number of rings and automatically receives the fax.

Adjusting the document settings

Before starting a fax, change the following settings according to your original's status to get the best quality.



It may be necessary to press **OK** to navigate to lower-level menus for some models.

Resolution

The default document settings produce good results when using typical text-based originals. However, if you send originals that are of poor quality, or contain photographs, you can adjust the resolution to produce a higher quality fax.



The resolution setting is applied to the current fax job. To change the default setting (see "Fax menu" on page 121).

- 1** Select  (fax) >  (**Menu**) > **Fax Feature** > **Resolution** on the control panel.
- 2** Select the option you want and press **OK**.
 - **Standard:** Originals with normal sized characters.
 - **Fine:** Originals containing small characters or thin lines or originals printed using a dot-matrix printer.
 - **Super Fine:** Originals containing extremely fine detail. **Super Fine** mode is enabled only if the machine with which you are communicating also supports the Super Fine resolution.

Basic faxing



- For memory transmission, **Super Fine** mode is not available. The resolution setting is automatically changed to **Fine**.
- When your machine is set to **Super Fine** resolution and the fax machine with which you are communicating does not support **Super Fine** resolution, the machine transmits using the highest resolution mode supported by the other fax machine.

- Photo Fax:** Originals containing shades of gray or photographs.
- Color Fax:** Original with colors.



- Memory transmission is not available in this mode.
- You can only send a color fax if the machine you are communicating with supports color fax reception and you send the fax manually.

3 Press (**Stop/Clear**) to return to ready mode.

Darkness

You can select the degree of darkness of the original document.



The darkness setting is applied to the current fax job. To change the default setting (see "Fax menu" on page 121).

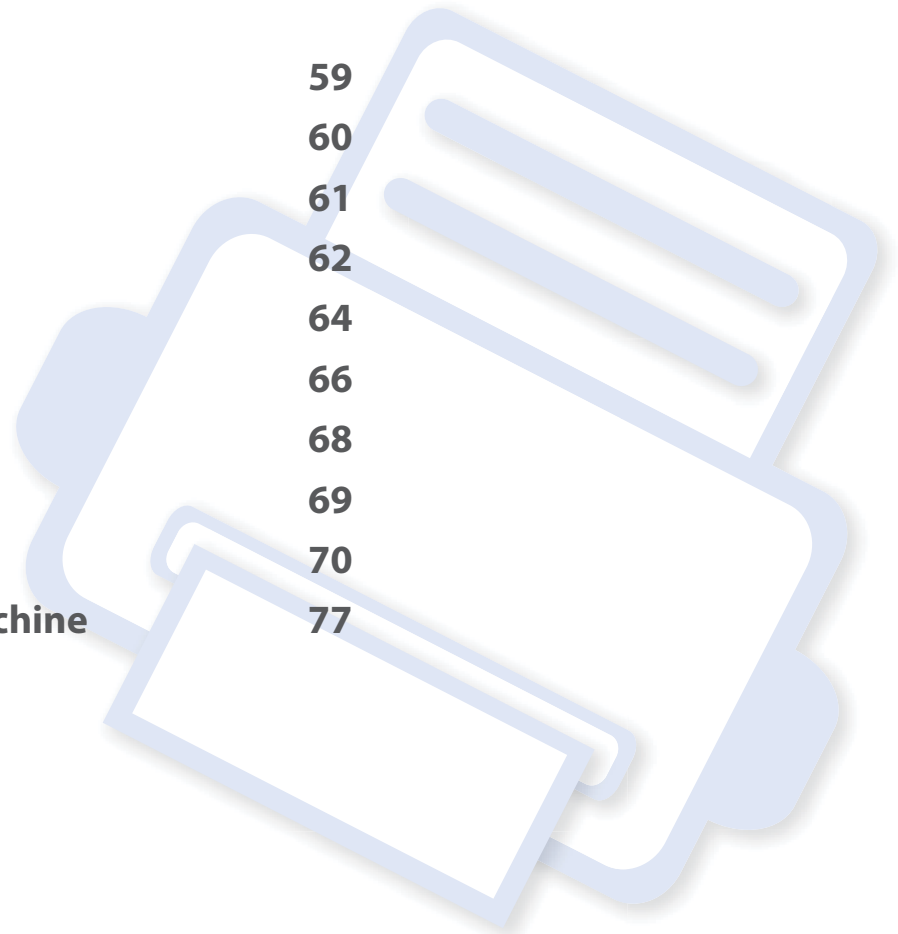
- 1 Select (fax) > (**Menu**) > **Fax Feature** > **Darkness** on the control panel.
- 2 Select a darkness level you want.
- 3 Press (**Stop/Clear**) to return to ready mode.



3. Maintenance

This chapter provides information about purchasing supplies, accessories and maintenance parts available for your machine.

- **Ordering supplies and accessories** 59
- **Available supplies** 60
- **Available maintenance parts** 61
- **Storing the toner cartridge** 62
- **Redistributing toner** 64
- **Replacing the toner cartridge** 66
- **Monitoring the supplies life** 68
- **Setting the toner low alert** 69
- **Cleaning the machine** 70
- **Tips for moving & storing your machine** 77



Ordering supplies and accessories



Available accessories may differ from country to country. Contact your sales representatives to obtain the list of available supplies, and maintenance parts.

To order Samsung-authorized supplies, accessories, and maintenance parts, contact your local Samsung dealer or the retailer where you purchased your machine. You can also visit **www.samsung.com/supplies**, and then select your country/region to obtain the contact information for service.

Available supplies

When supplies reach the end of their life spans, you can order the followings of supplies for your machine:

Type	Average yield ^a	Part name
Toner cartridge	Approx. 1,500 pages	MLT-D101S

a. Declared yield value in accordance with ISO/IEC 19752.



Depending on the options, percentage of image area and job mode used, the toner cartridge's lifespan may differ.



When purchasing new toner cartridges or other supplies, these must be purchased in the same country as the machine you are using. Otherwise, new toner cartridges or other supplies will be incompatible with your machine due to different configurations of toner cartridges and other supplies according to the specific country conditions.



Samsung does not recommend using non-genuine Samsung toner cartridge such as refilled or remanufactured toner. Samsung cannot guarantee non-genuine Samsung toner cartridge's quality. Service or repair required as a result of using non-genuine Samsung toner cartridges will not be covered under the machine's warranty.

Available maintenance parts

To purchase maintenance parts, contact the source where you bought the machine. Replacing maintenance parts can be performed only by an authorized service provider, dealer, or the retailer where you bought the machine. The warranty does not cover the replacement of any maintenance parts once it has reached its “Average yield”.

Maintenance parts are replaced at specific intervals to avoid print quality and paper feed problems resulting from worn parts, see table below. The purpose of which is to maintain your machine in top working condition. The maintenance parts below should be replaced when the life span of each item has been met.

Parts	Average yield ^a
Transfer Roller	Approx. 30,000 pages
Fuser	Approx. 30,000 pages
Feed Roller	Approx. 30,000 pages
Pick-up Roller	Approx. 30,000 pages
ADF Roller	Approx. 20,000 pages
ADF Rubber Pad	Approx. 20,000 pages
White Roller	Approx. 30,000 pages

a. It will be affected by the operating system used, computing performance, application software, connecting method, media, media size and job complexity.

Storing the toner cartridge

Toner cartridges contain components that are sensitive to light, temperature and humidity. Samsung suggests users follow these recommendations to ensure optimal performance, highest quality, and longest life from your new Samsung toner cartridge.

Store this cartridge in the same environment in which the printer will be used. This should be in controlled temperature and humidity conditions. The toner cartridge should remain in its original and unopened package until installation if original packaging is not available, cover the top opening of the cartridge with paper and store in a dark cabinet.

Opening the cartridge package prior to use dramatically shortens its useful shelf and operating life. Do not store on the floor. If the toner cartridge is removed from the printer, follow the instructions below to store the toner cartridge properly.

- Store the cartridge inside the protective bag from the original package.
- Store lying flat (not standing on end) with the same side facing up as if it were installed in the machine.
- Do not store consumables in any of the following conditions:
 - Temperature greater than 40°C (104°F).
 - Humidity range less than 20% or greater than 80%.
 - An environment with extreme changes in humidity or temperature.
 - Direct sunlight or room light.
 - Dusty places.
 - A car for a long period of time.
 - An environment where corrosive gases are present.

- An environment with salty air.

Handling instructions

- Do not touch the surface of the photoconductive drum in the cartridge.
- Do not expose the cartridge to unnecessary vibrations or shock.
- Never manually rotate the drum, especially in the reverse direction; this can cause internal damage and toner spillage.

Toner cartridge usage

Samsung Electronics does not recommend or approve the use of non-Samsung brand toner cartridges in your printer including generic, store brand, refilled, or remanufactured toner cartridges.



Samsung's printer warranty does not cover damage to the machine caused by the use of a refilled, remanufactured, or non-Samsung brand toner cartridges.

Storing the toner cartridge

Estimated cartridge life

Estimated cartridge life (the life of the toner cartridge yield) depends on the amount of toner that print jobs require. The actual print yield may vary depending on the print density of the pages you print on, operating environment, percentage of image area, printing interval, media type and/or media size. For example, if you print a lot of graphics, the consumption of the toner is higher and you may need to change the cartridge more often.

Redistributing toner

When the toner cartridge is near the end of its life:

- White streaks or light printing occurs and/or density variation side to side.
- The **Status** LED blinks red.

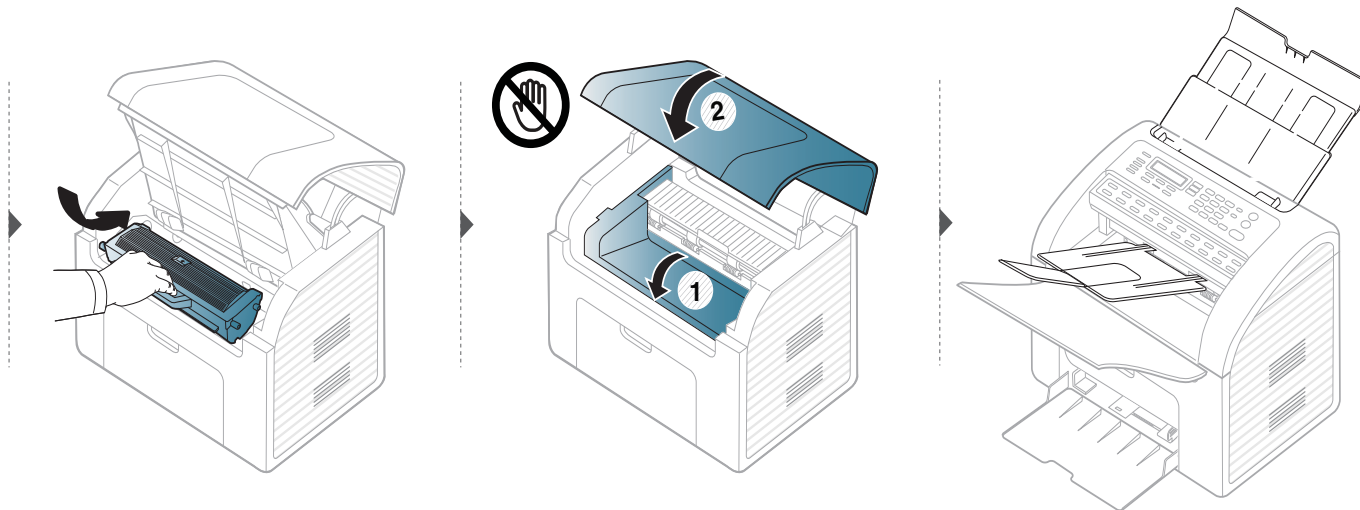
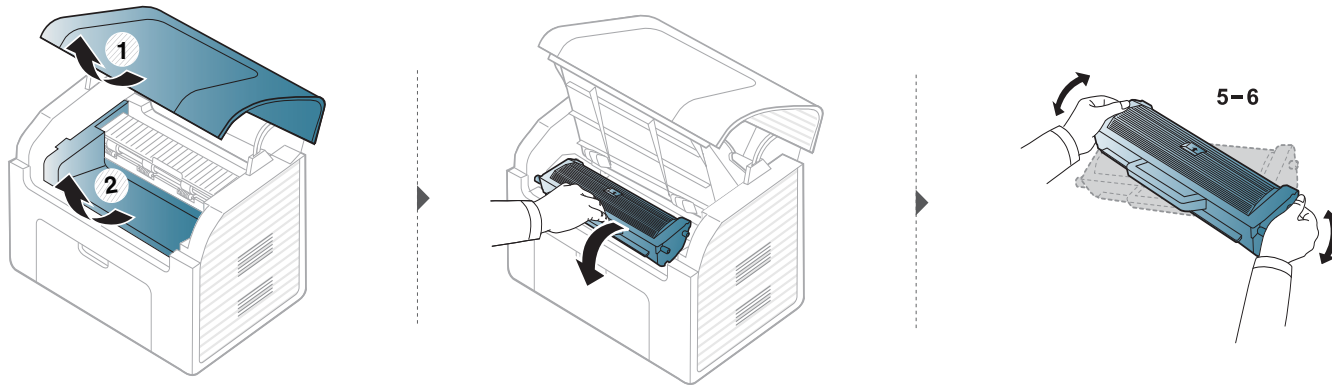
If this happens, you can temporarily improve print quality by redistributing the remaining toner in the cartridge. In some cases, white streaks or light printing will still occur even after you have redistributed the toner.



- Before opening the top cover, close the output support first.
- To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes. Cover it with a piece of paper, if necessary.
- Do not touch the green side of the toner cartridge. Use the handle on the cartridge to avoid touching this area.

Redistributing toner

- Do not use sharp objects such as a knife or scissors to open the toner cartridge package. They might scratch the drum of the cartridge.
- If toner gets on your clothing, wipe it off with a dry cloth and wash clothing in cold water. Hot water sets toner into fabric.



Replacing the toner cartridge



Click this link to open an animation about replacing a toner cartridge.



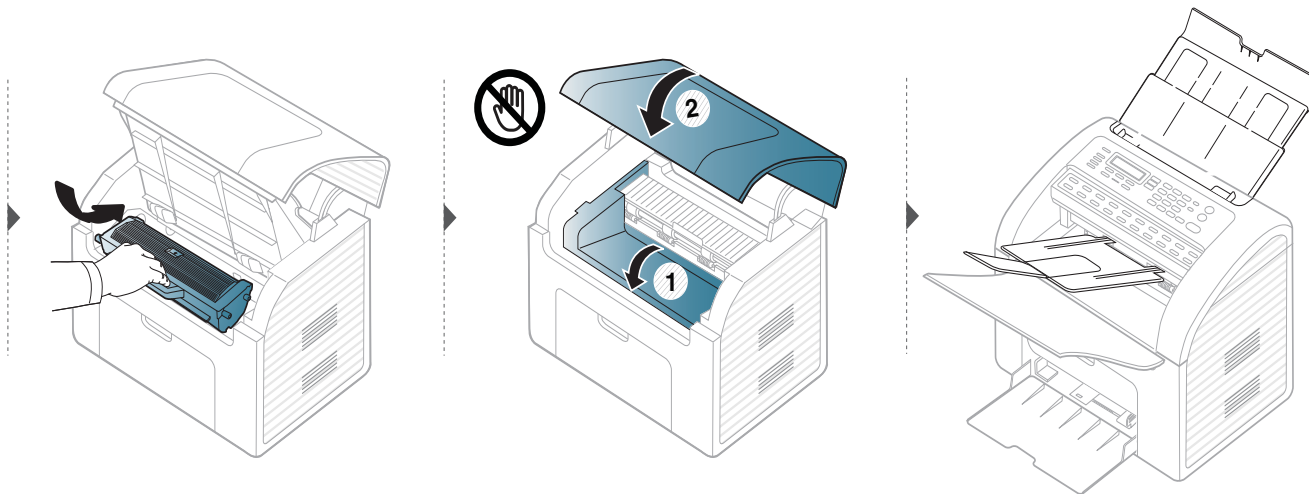
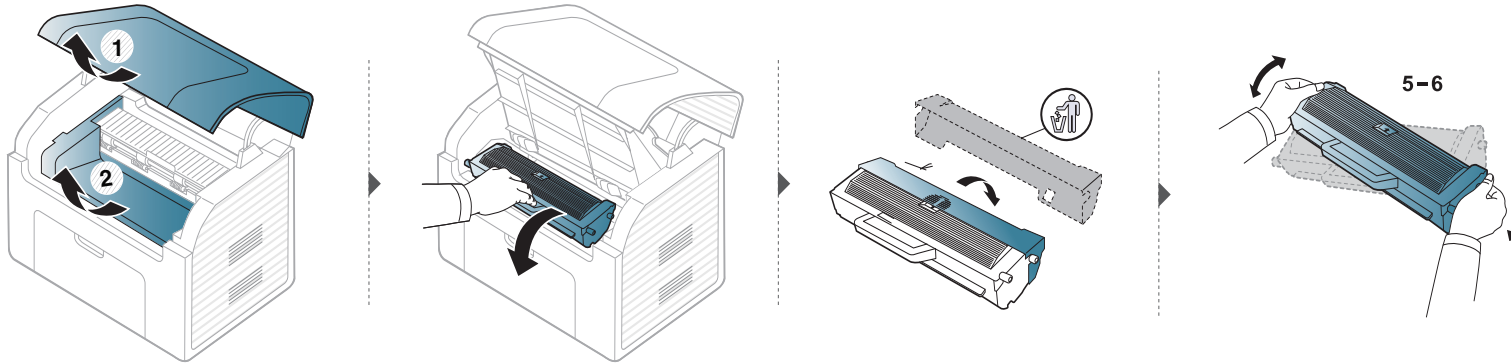
- Shake the toner cartridge thoroughly, it will increase the initial print quality.



- Before opening the top cover, close the output support first.
- To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes. Cover it with a piece of paper, if necessary.
- Do not touch the green side of the toner cartridge. Use the handle on the cartridge to avoid touching this area.
- Do not use sharp objects such as a knife or scissors to open the toner cartridge package. They might scratch the drum of the cartridge.
- If toner gets on your clothing, wipe it off with a dry cloth and wash clothing in cold water. Hot water sets toner into fabric.

Replacing the toner cartridge

When a toner cartridge has reached the end of life, the machine will stop printing.



Monitoring the supplies life

If you experience frequent paper jams or printing problems, check the number of pages the machine has printed or scanned. Replace the corresponding parts, if necessary.



- It may be necessary to press **OK** to navigate to lower-level menus for some models.
- You can customize the copy settings such as darkness, original type, and more by using the **Device Settings** in the Samsung Easy Printer Manager program or the **Machine** section of the Printer Settings Utility program.
 - For Windows and Macintosh users, see "Device Settings" on page 172.
 - For Linux users, see "Using Smart Panel" on page 175.

- 1 Select (Menu) > **System Setup** > **Maintenance** > **Supplies Life** on the control panel.
- 2 Select the option you want and press **OK**.
 - **Supplies Info.:** Prints the supply information page.
 - **Total:** Displays the total number of pages printed.
 - **Scan:** Displays the number of pages printed by using the document feeder.
- 3 Press (**Stop/Clear**) to return to ready mode.

Setting the toner low alert

If the amount of toner in the cartridge is low, a message or LED informing the user to change the toner cartridge appears. You can set the option for whether or not this message or LED appears.



- It may be necessary to press **OK** to navigate to lower-level menus for some models.
- You can customize the copy settings such as darkness, original type, and more by using the **Device Settings** in the Samsung Easy Printer Manager program or the **Machine** section of the Printer Settings Utility program.
 - For Windows and Macintosh users, see "Device Settings" on page 172.
 - For Linux users, see "Using Smart Panel" on page 175.

- 1 Select  (**Menu**) > **System Setup** > **Maintenance** > **TonerLow Alert** on the control panel.
- 2 Select the option you want.
- 3 Press **OK** to save the selection.

Cleaning the machine

If printing quality problems occur or if you use your machine in a dusty environment, you need to clean your machine regularly to keep it in the best printing condition and use your machine longer.



- Cleaning the cabinet of the machine with cleaning materials containing large amounts of alcohol, solvents, or other strong substances can discolor or distort the cabinet.
- If your machine or the surrounding area is contaminated with toner, we recommend you use a cloth or tissue dampened with water to clean it. If you use a vacuum cleaner, toner blows in the air and might be harmful to you.

Cleaning the outside

Clean the machine cabinet with a soft, lint-free cloth. Dampen the cloth slightly with water, but be careful not to let any water drip onto or into the machine.

Cleaning the inside

During the printing process, paper, toner, and dust particles can accumulate inside the machine. This buildup can cause print quality problems, such as toner specks or smearing. Cleaning the inside of the machine clears and reduces these problems.



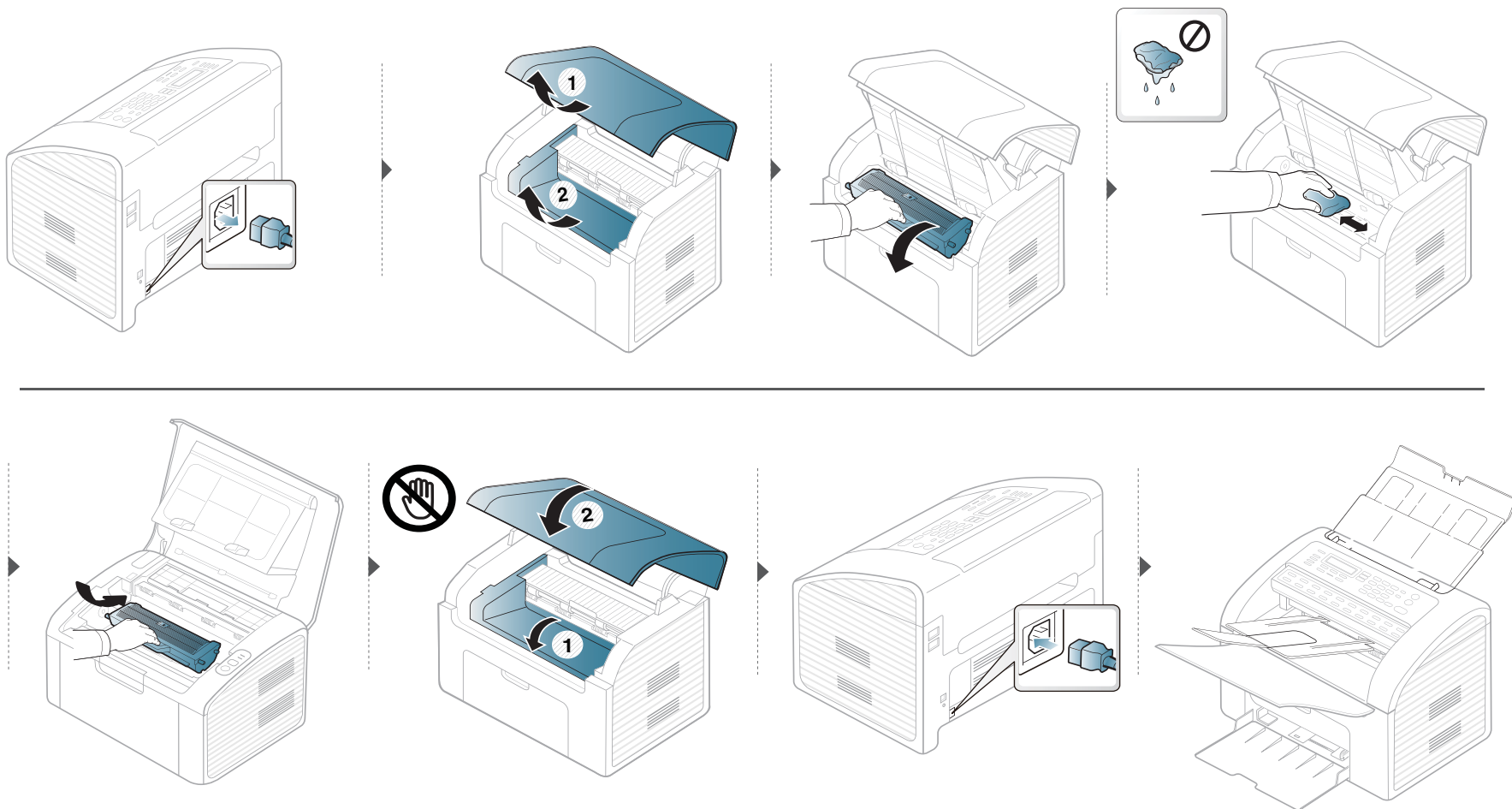
- To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes. Cover it with a piece of paper, if necessary.
- Do not touch the green surface underside of the toner cartridge. Use the handle on the cartridge to avoid touching this area.
- Use a dry lint free cloth when cleaning the inside of the machine, be careful not to damage the transfer roller or any other inside parts. Do not use solvents such as benzene or thinner. Printing quality problems can occur and cause damage to the machine.

Cleaning the machine



- Use a dry lint-free cloth to clean the machine.
- Before opening the top cover, close the output support first.
- Turn the machine off and unplug the power cord. Wait for the machine to cool down. If your machine has a power switch, turn the power switch off before cleaning the machine.

Cleaning the machine

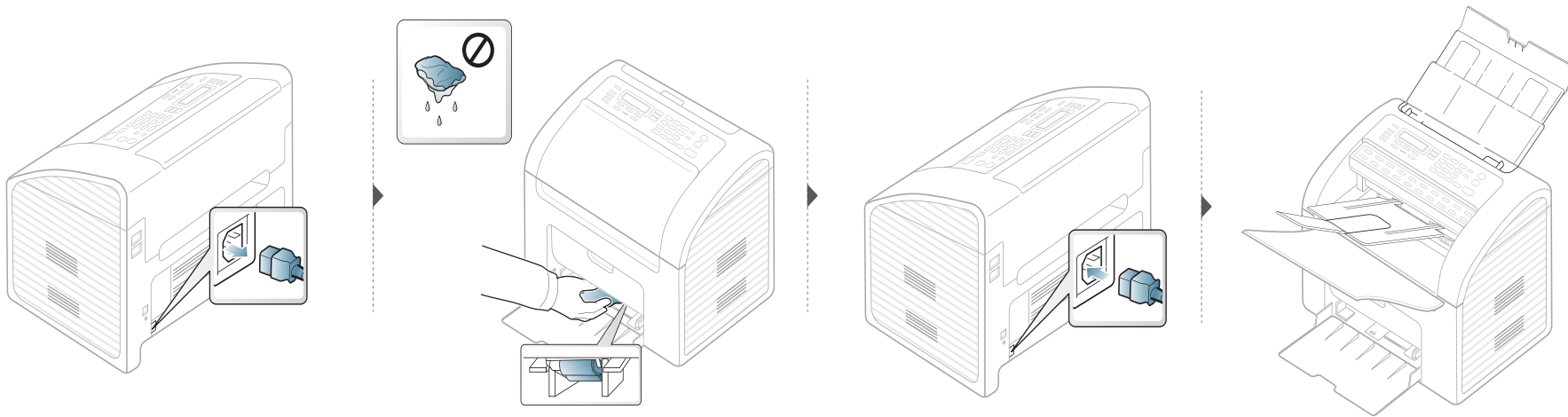


Cleaning the machine

Cleaning the pickup roller



- Use a dry lint-free cloth to clean the machine.
- Turn the machine off and unplug the power cord. Wait for the machine to cool down. If your machine has a power switch, turn the power switch off before cleaning the machine.



Cleaning the machine

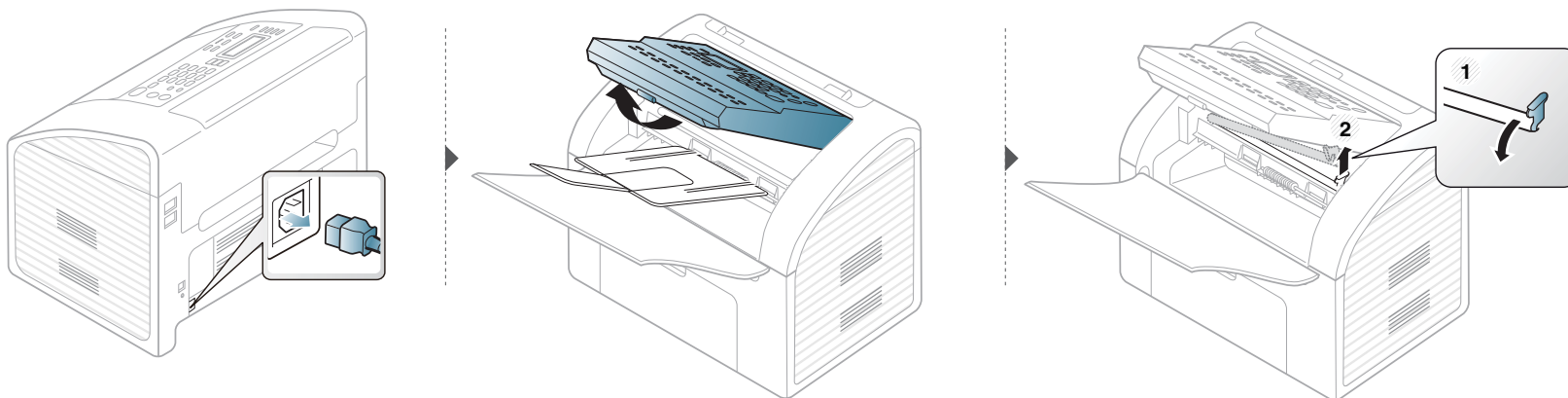
Cleaning the scan unit

Keeping the scan unit clean helps ensure the best possible copies. We suggest that you clean the scan unit at the start of each day and during the day as needed.

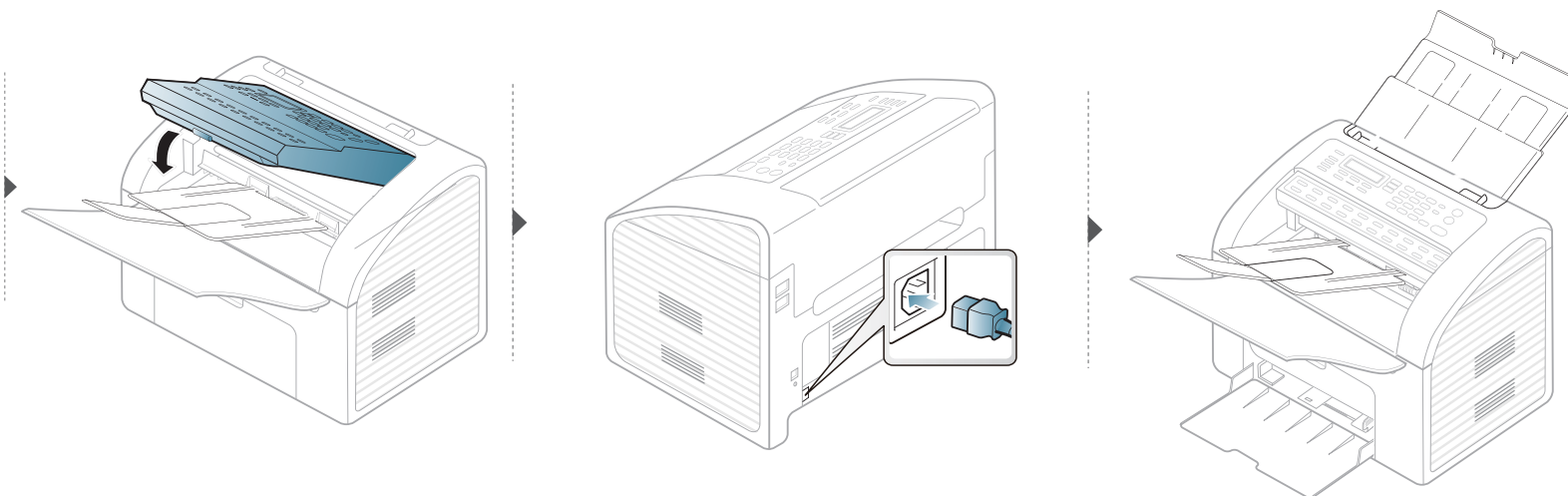
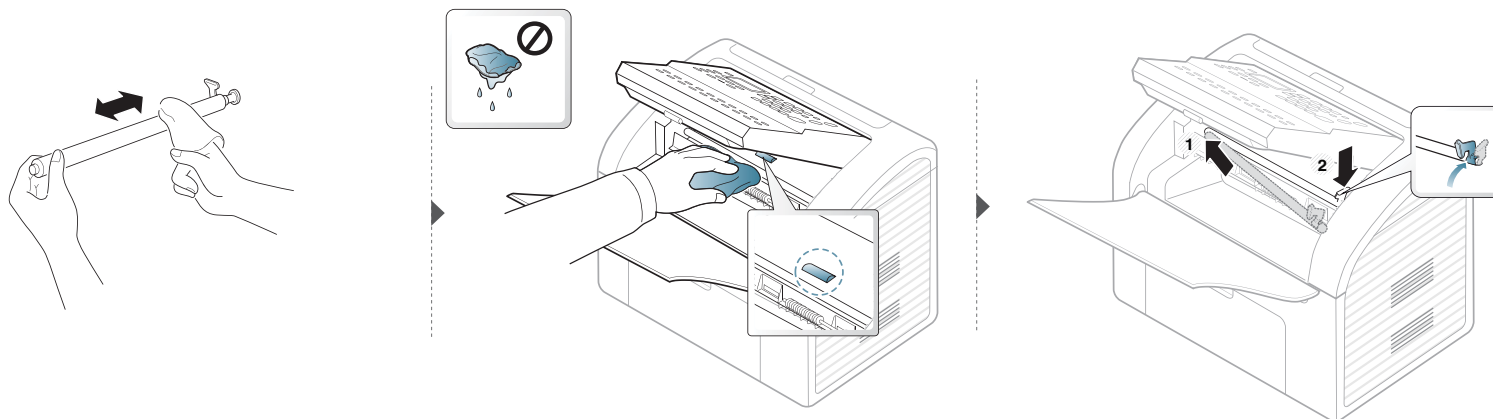
Cleaning the machine



- Turn the machine off and unplug the power cord. Wait for the machine to cool down. If your machine has a power switch, turn the power switch off before cleaning the machine.
- If the document feeder output tray is inserted, remove the document feeder output tray.



Cleaning the machine



Tips for moving & storing your machine

- When moving the machine, do not tilt or turn it upside down. Otherwise, the inside of the machine may be contaminated by toner, which can cause damage to the machine or reduce print quality.
- When moving the machine, make sure at least two people are holding the machine securely.



4. Troubleshooting

This chapter gives helpful information for what to do if you encounter an error.

- **Tips for avoiding paper jams** 79
- **Clearing original document jams** 80
- **Clearing paper jams** 82
- **Understanding the status LED** 85
- **Understanding display messages** 87



This chapter gives helpful information for what to do if you encounter an error. If your machine has a display screen, check the message on the display screen first to solve the error.

If you cannot find a solution to your problem in this chapter, refer to the **Troubleshooting** chapter in the Advanced User's Guide (see "Troubleshooting" on page 180).

If you cannot find a solution in the User's Guide or the problem persists, call for service.

Tips for avoiding paper jams

By selecting the correct media s, most paper jams can be avoided. To avoid paper jams, refer to the following guidelines:

- Ensure that the adjustable guides are positioned correctly (see "Tray overview" on page 36).
- Do not remove paper from the tray while your machine is printing.
- Flex, fan, and straighten paper before loading.
- Do not use creased, damp, or highly curled paper.
- Do not mix papers in a tray.
- Use only recommended print media (see "Print media specifications" on page 94).

Clearing original document jams

When an original document jams in the document feeder, a warning message appears on the display.



To avoid tearing the document, remove the jammed document slowly and carefully.



To prevent document jams, do not use thick, thin or mixed documents.

Input Misfeed

- 1 Remove any remaining pages from the document feeder.
- 2 Pull the jammed document gently out of the document feeder.

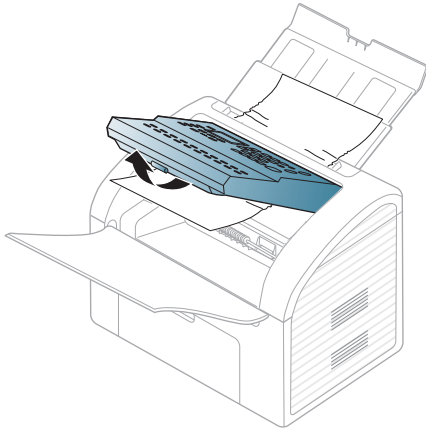


- 3 Load the documents back into the document feeder.

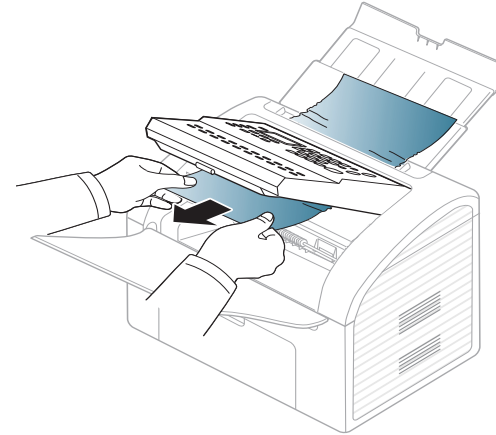
Clearing original document jams

Exit Misfeed

- 1 Remove any remaining pages from the document feeder.
- 2 Open the control panel by gripping it on the bottom edge and pulling it.



- 3 Pull the document gently out of the document feeder.



- 4 Close the control panel. Then load the documents back into the document feeder.

Clearing paper jams

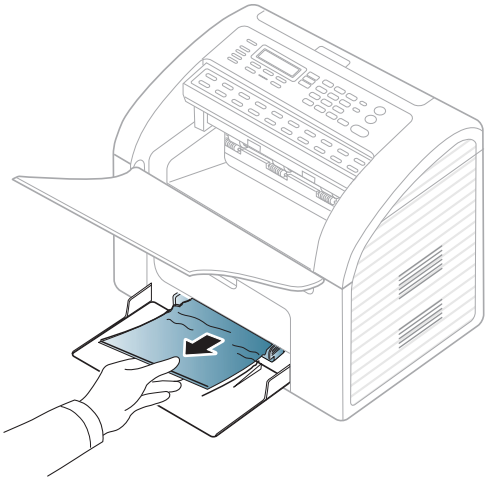


To avoid tearing the paper, pull the jammed paper out slowly and gently.

In tray



[Click this link to open an animation about clearing a jam.](#)



Clearing paper jams

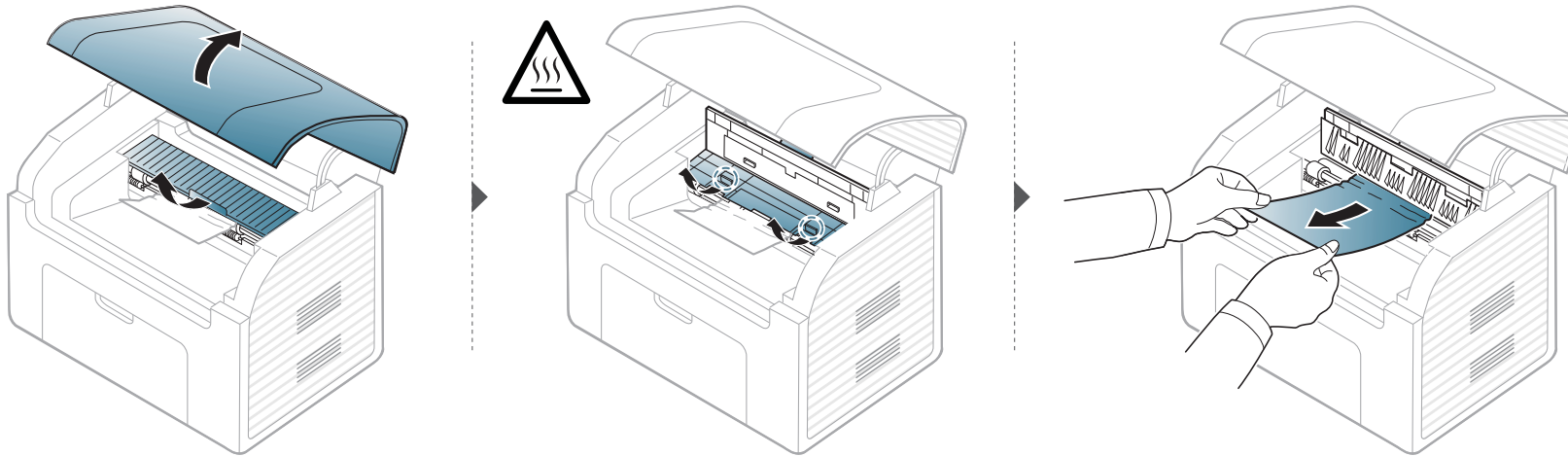
Inside the machine



Click this link to open an animation about clearing a jam.

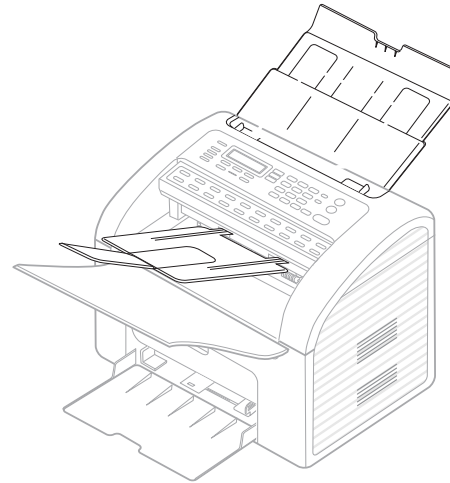
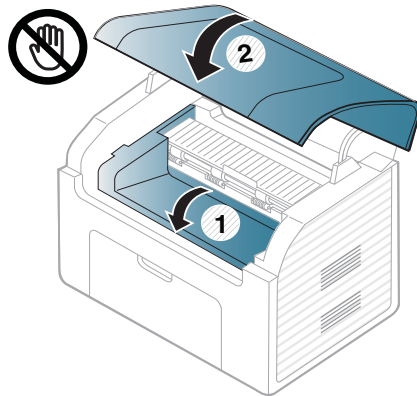
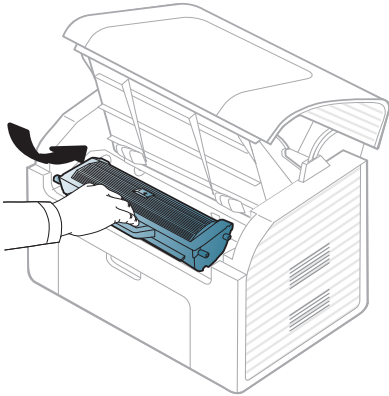
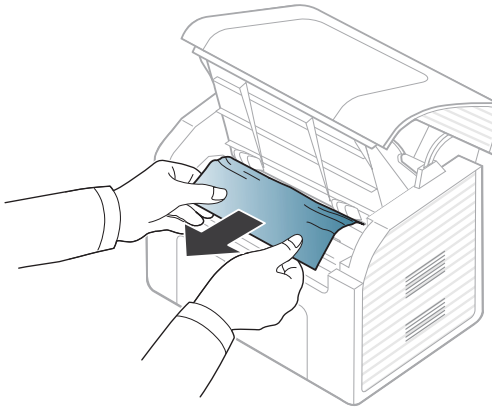
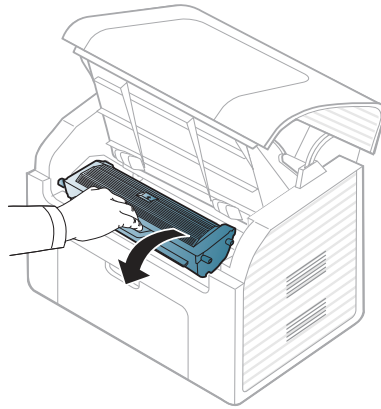
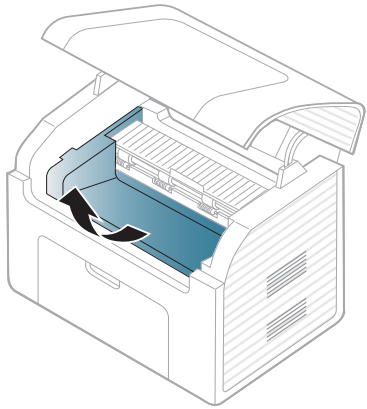


- The fuser area is hot. Take care when removing paper from the machine.
- Before opening the top cover, close the output tray first.



Clearing paper jams

If you do not see the paper in this area, stop and go to next step:



Understanding the status LED

The color of the LED indicates the machine's current status.



- To resolve the error, look at the error message and its instructions from the troubleshooting part (see "Understanding display messages" on page 87).
- You also can resolve the error with the guideline from the computers's Printing Status or Smart Panel program window (see "Using Samsung Printer Status" on page 173 or see "Using Smart Panel" on page 175)
- If the problem persists, call a service representative.

Status		Description	
Status LED	Off		The machine is off-line.
	Green	Blinking	When the backlight blinks, the machine is receiving or printing data.
		On	The machine is on-line and can be used.
	Red	Blinking	• A minor error has occurred and the machine is waiting for the error to be cleared. Check the display message. When the problem is cleared, the machine resumes. For some models that does not support the display screen on the control panel, this feature is not applicable. • Small amount of toner is left in the cartridge. The estimated cartridge life^a of toner is close. Prepare a new cartridge for replacement. You may temporarily increase the printing quality by redistributing the toner (see "Redistributing toner" on page 64).
		On	• A toner cartridge has almost reached its estimated cartridge life^a. It is recommended to replace the toner cartridge (see "Replacing the toner cartridge" on page 66). • The cover is opened. Close the cover. • There is no paper in the tray when receiving or printing data. Load paper in the tray. • The machine has stopped due to a major error. Check the display message (see "Understanding display messages" on page 87). • A paper jam has occurred (see "Clearing paper jams" on page 82).

Understanding the status LED

Status			Description
 Power LED	Blue	On	The machine is in power save mode.
		Off	The machine is in ready mode or machine's power is off.

- a. Estimated cartridge life means the expected or estimated toner cartridge life, which indicates the average capacity of print-outs and is designed pursuant to ISO/IEC 19752. The number of pages may be affected by operating environment, percentage of image area, printing interval, graphics, media and media size. Some amount of toner may remain in the cartridge even when red LED is on and the printer stops printing.

Understanding display messages

Messages appear on the control panel display to indicate the machine's status or errors. Refer to the tables below to understand the messages' and their meaning, and correct the problem, if necessary.



- If a message is not in the table, reboot the power and try the printing job again. If the problem persists, call a service representative.
- When you call for service, provide the service representative with the contents of display message.
- Some messages may not appear on the display depending on the options or models.
- [error number] indicates the error number.

Message	Meaning	Suggested solutions
Jam or Empty Door Open&Close	• Paper has jammed in the paper feed area. • There is no paper in tray.	• Clear the jam (see "In tray" on page 82). • Load paper in tray (see "Loading paper in the tray" on page 37).
Paper Jam inside machine	Paper has jammed in the inside machine.	Clear the jam (see "Inside the machine" on page 83).

Paper Jam-related messages

Message	Meaning	Suggested solutions
Document jam. Remove jam	The loaded original document has jammed in the document feeder.	Clear the jam (see "Clearing original document jams" on page 80).

Understanding display messages

Toner-related messages

Message	Meaning	Suggested solutions
Install Toner Cartridge	A toner cartridge is not installed.	Install a toner cartridge.
Not compatible toner cartridge	The toner cartridge you have installed is not for your machine.	Install a Samsung-genuine toner cartridge, designed for your machine.
Prepare new cartridge	Small amount of toner is left in the indicated cartridge. The estimated cartridge life of toner is close.	Prepare a new cartridge for a replacement. You may temporarily increase the printing quality by redistributing the toner (see "Redistributing toner" on page 64).

Understanding display messages

Message	Meaning	Suggested solutions
Replace new cartridge	The indicated toner cartridge has almost reached its estimated cartridge life.  Estimated cartridge life means the expected or estimated toner cartridge life, which indicates the average capacity of print-outs and is designed pursuant to ISO/IEC 19752 (see "Available supplies" on page 60). The number of pages may be affected by operating environment, percentage of image area, printing interval, media, percentage of image area, and media size. Some amount of toner may remain in the cartridge even when replace new cartridge appears and the machine stops printing.	- You can choose Stop or Continue as shown on the control panel. If you select Stop, the printer stops printing and you cannot print any more without changing the cartridge. If you select Continue, the printer keeps printing but the printing quality cannot be guaranteed. - Replace the toner cartridge for the best print quality when this message appears. Using a cartridge beyond this stage can result in printing quality issues (see "Replacing the toner cartridge" on page 66).  Samsung does not recommend using a non-genuine Samsung toner cartridge such as refilled or remanufactured. Samsung cannot guarantee a non-genuine Samsung toner cartridge's quality. Service or repair required as a result of using non-genuine Samsung toner cartridges will not be covered under the machine warranty.
	The indicated toner cartridge has reached its estimated cartridge life. The machine might stop printing.	Replace the toner cartridge (see "Replacing the toner cartridge" on page 66).

Understanding display messages

Tray-related messages

Message	Meaning	Suggested solutions
Jam or Empty Door Open&Close	• Paper has jammed in the paper feed area. • There is no paper in tray or manual feeder.	• Clear the jam (see "In tray" on page 82). • Load paper in tray (see "Loading paper in the tray" on page 37, "Manual feeding in the tray" on page 39).

Misc. messages

Message	Meaning	Suggested solutions
Door Open Close it	The cover is not securely latched.	Close the cover until it locks into place.
Error [error number] Turn off then on	The machine unit cannot be controlled.	Reboot the power and try the printing job again. If the problem persists, please call for service.
Error [error number] Call for service		



5. Appendix

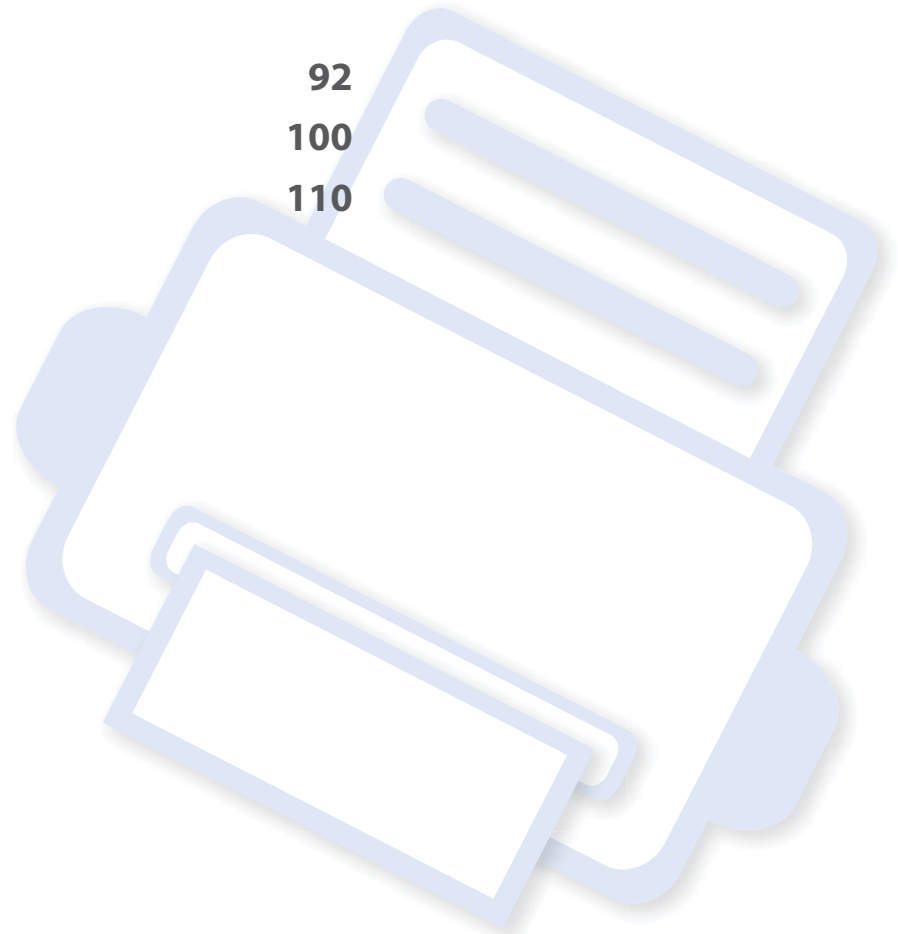
This chapter provides product specifications and information concerning applicable regulations.

- **Specifications**
- **Regulatory information**
- **Copyright**

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110



Specifications

General specifications



The specification values listed below are subject to change without notice. See www.samsung.com for possible changes in information.

Items		Description
Dimension^a	Width x Length x Height	362 x 260 x 280 mm (14.25 x 10.24 x 11.02 inches)
Weight^a	Machine with consumables	6.4 Kg (14.11 lbs)
Noise Level^b	Ready mode	26 dB (A)
	Print mode	Less than 50 dB (A)
	Copy mode	Less than 52 dB (A)
	Scan mode	Less than 52 dB (A)
Temperature	Operation	10 to 32°C (50 to 89.6°F)
	Storage (packed)	-20 to 40°C (-4 to 104°F)
Humidity	Operation	20 to 80% RH
	Storage (packed)	10 to 90% RH
Power rating^c	110 volt models	AC 110 - 127 V
	220 volt models	AC 220 - 240 V

Specifications

Items		Description
Power consumption	Average operating mode	Less than 310 W
	Ready mode	Less than 30 W
	Power save mode	Less than 2.3 W
	Power off mode	Less than 0.45 W (0.1 W ^d)

- a. Not included Handset.
- b. Sound Pressure Level, ISO 7779. Configuration tested: basic machine installation, A4 paper, simplex printing.
- c. See the rating label on the machine for the correct voltage (V), frequency (hertz) and of current (A) for your machine.
- d. For the machine that has a power switch.

Specifications

Print media specifications

Type	Size	Dimensions	Print media weight/Capacity ^a	
			Tray	Manual feeding in tray ^b
Plain paper	Letter	216 x 279 mm (8.5 x 11 inches)	71 to 85 g/m ² (19 to 23 lbs bond) • 150 sheets of 80 g/m ² (21 lbs bond)	71 to 85 g/m ² (19 to 23 lbs bond) • 1 sheets
	Legal	216 x 356 mm (8.5 x 14 inches)		
	US Folio	216 x 330 mm (8.5 x 13 inches)		
	A4	210 x 297 mm (8.27 x 11.69 inches)		
	Oficio	216 x 343 mm (8.5 x 13.5 inches)		
	JIS B5	182 x 257 mm (7.17 x 10.12 inches)		
	ISO B5	176 x 250 mm (6.93 x 9.84 inches)		
	Executive	184 x 267 mm (7.25 x 10.5 inches)		
	A5	148 x 210 mm (5.83 x 8.27 inches)		
Envelope	Envelope Monarch	98 x 191 mm (3.87 x 7.5 inches)	75 to 90 g/m ² (20 to 24 lbs bond) • 10 sheets	75 to 90 g/m ² (20 to 24 lbs bond) • 1 sheets
	Envelope No. 10	105 x 241 mm (4.12 x 9.5 inches)		
	Envelope DL	110 x 220 mm (4.33 x 8.66 inches)		
	Envelope C5	162 x 229 mm (6.38 x 9.02 inches)		

Specifications

Type	Size	Dimensions	Print media weight/Capacity ^a	
			Tray	Manual feeding in tray ^b
Thick paper	Refer to the Plain paper section	Refer to the Plain paper section	86 to 120 g/m ² (23 to 32 lbs bond) • 50 sheets of 120 g/m ² (32 lbs bond)	86 to 120 g/m ² (23 to 32 lbs bond) • 1 sheets
Thin paper	Refer to the Plain paper section	Refer to the Plain paper section	60 to 70 g/m ² (16 to 19 lbs bond) • 160 sheets of 60 g/m ² (16 lbs bond)	60 to 70 g/m ² (16 to 19 lbs bond) • 1 sheets
Cotton	Refer to the Plain paper section	Refer to the Plain paper section	75 to 90 g/m ² (20 to 24 lbs bond) • 150 sheets of 80 g/m ² (21 lbs bond)	75 to 90 g/m ² (20 to 24 lbs bond) • 1 sheets
Colored	Refer to the Plain paper section	Refer to the Plain paper section	75 to 90 g/m ² (20 to 24 lbs bond) • 150 sheets of 80 g/m ² (21 lbs bond)	75 to 90 g/m ² (20 to 24 lbs bond) • 1 sheets
Pre-printed	Refer to the Plain paper section	Refer to the Plain paper section	75 to 90 g/m ² (20 to 24 lbs bond) • 150 sheets of 80 g/m ² (21 lbs bond)	75 to 90 g/m ² (20 to 24 lbs bond) • 1 sheets
Recycled	Refer to the Plain paper section	Refer to the Plain paper section	60 to 90 g/m ² (16 to 24 lbs bond) • 150 sheets of 80 g/m ² (21 lbs bond)	60 to 90 g/m ² (16 to 24 lbs bond) • 1 sheets

Specifications

Type	Size	Dimensions	Print media weight/Capacity ^a	
			Tray	Manual feeding in tray ^b
Labels^c	Letter, Legal, Oficio, US Folio, A4, JIS B5, ISO B5, Executive, A5	Refer to the Plain paper section	120 to 150 g/m ² (32 to 40 lbs bond) • 10 sheets	120 to 150 g/m ² (32 to 40 lbs bond) • 1 sheets
Card stock	Letter, Legal, Oficio, US Folio, A4, JIS B5, ISO B5, Executive, A5, Postcard 4x6	Refer to the Plain paper section	121 to 163 g/m ² (32 to 43 lbs bond) • 10 sheets	121 to 163 g/m ² (32 to 43 lbs bond) • 1 sheets
Bond paper	Refer to the Plain paper section	Refer to the Plain paper section	• 10 sheets	• 1 sheets
Archive	Refer to the Plain paper section	Refer to the Plain paper section	• 100 sheets	• 1 sheets
Minimum size (custom)		76 x 127 mm (3 x 5 inches)	60 to 163 g/m ² (16 to 43 lbs bond)	
Maximum size (custom)		216 x 356 mm (8.5 x 14 inches)		

a. Maximum capacity may differ depending on media weight, thickness, and environmental conditions.

b. 1 sheet for manual feeder.

c. The smoothness of the labels used in this machine is 100 to 250 (sheffield). This means the numeric level of smoothness.

Specifications

System requirements

Microsoft® Windows®

Operating system	Requirement (recommended)		
	CPU	RAM	free HDD space
Windows® 2000	Intel® Pentium® II 400 MHz (Pentium III 933 MHz)	64 MB (128 MB)	600 MB
Windows® XP	Intel® Pentium® III 933 MHz (Pentium IV 1 GHz)	128 MB (256 MB)	1.5 GB
Windows Server® 2003	Intel® Pentium® III 933 MHz (Pentium IV 1 GHz)	128 MB (512 MB)	1.25 GB to 2 GB
Windows Server® 2008	Intel® Pentium® IV 1 GHz (Pentium IV 2 GHz)	512 MB (2 GB)	10 GB
Windows Vista®	Intel® Pentium® IV 3 GHz	512 MB (1 GB)	15 GB
Windows® 7	Intel® Pentium® IV 1 GHz 32-bit or 64-bit processor or higher	1 GB (2 GB)	16 GB
	• Support for DirectX® 9 graphics with 128 MB memory (to enable the Aero theme). • DVD-R/W Drive		
Windows Server® 2008 R2	Intel® Pentium® IV 1 GHz (x86) or 1.4 GHz (x64) processors (2 GHz or faster)	512 MB (2 GB)	10 GB



- Internet Explorer 6.0 or higher is the minimum requirement for all Windows operating systems.
- Users who have administrator rights can install the software.

Specifications

- **Windows Terminal Services** is compatible with your machine.
- For **Windows 2000, Services Pack 4** or higher is required.

Macintosh

Operating system	Requirements (Recommended)		
	CPU	RAM	Free HDD space
Mac OS X 10.4	• Intel® processors • PowerPC G4/G5	• 128 MB for a powerPC based Mac (512 MB) • 512 MB for an Intel-based Mac (1 GB)	1 GB
Mac OS X 10.5	• Intel® processors • 867 MHz or faster Power PC G4/G5	512 MB (1 GB)	1 GB
Mac OS X 10.6	• Intel® processors	1 GB (2 GB)	1 GB
Mac OS X 10.7	• Intel® processors	1 GB (2 GB)	1 GB

Specifications

Linux

Items	Requirements
Operating system	Redhat® Enterprise Linux WS 4, 5 (32/64 bit) Fedora 5 ~ 13 (32/64 bit) SuSE Linux 10.1 (32 bit) OpenSuSE® 10.2, 10.3, 11.0, 11.1, 11.2 (32/64 bit) Mandriva 2007, 2008, 2009, 2009.1, 2010 (32/64 bit) Ubuntu 6.06, 6.10, 7.04, 7.10, 8.04, 8.10, 9.04, 9.10, 10.04 (32/64 bit) SuSE Linux Enterprise Desktop 10, 11 (32/64 bit) Debian 4.0, 5.0 (32/64 bit)
CPU	Pentium IV 2.4GHz (Intel Core™2)
RAM	512 MB (1 GB)
Free HDD space	1 GB (2 GB)

Regulatory information

This machine is designed for a normal work environment and certified with several regulatory statements.

Laser safety statement

The printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR, chapter 1 Subchapter J for Class I(1) laser products, and elsewhere is certified as a Class I laser product conforming to the requirements of IEC 60825-1 : 2007.

Class I laser products are not considered to be hazardous. The laser system and printer are designed so there is never any human access to laser radiation above a Class I level during normal operation, user maintenance or prescribed service condition.

Warning

Never operate or service the printer with the protective cover removed from laser/scanner assembly. The reflected beam, although invisible, can damage your eyes.

When using this product, these basic safety precautions should always be followed to reduce risk of fire, electric shock, and injury to persons:



Ozone safety



This product's ozone emission rate is under 0.1 ppm. Because ozone is heavier than air, keep the product in a place with good ventilation.