PrintJet PRO

Manual

Weidmüller

Foreword

Revisions

Version	Date	Modification
0.0	06/08	First release

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1.1 Terms of use

Please read carefully through this manual and observe the notes and explanations. Only by carefully following these instructions the proper and trouble-free operation of the PrintJet PRO printer can be guaranteed.

These operating instructions have been written with due care and attention. However, unless otherwise required by law, we do not guarantee that the data, images and drawings are accurate or complete nor do we accept liability for their contents. Weidmüller's general terms and conditions of sale apply in their respective valid form.

Subject to alteration without notice.

1.2 Information concerning the technical documentation

The documentation for the PrintJet PRO printer consists of the following parts:

- Manual
  This manual is found on the CD. It has been written for personnel who will be operating and performing simple maintenance and service work on the printer.
- Summary instructions
  These instructions have been written for personnel who will be installing and setting up the printer.

These instructions detail the use of the PrintJet PRO printer.

Please make certain that this printer's suitability and application range fit with your requirements for printing quality and printing resistance.

This manual will help you set up and begin use of the PrintJet PRO. It contains information concerning the initial commissioning of the printer and the use of the M-Print® PRO software. In addition, it contains troubleshooting tips, technical specifications, and ordering data.

For more information, useful tips, or the latest drivers, check our homepage at:

http://www.weidmueller.de/de/Service/Downloads/Software/PrintJet PRO

You can contact us by e-mail:
printer@weidmueller.de

or call our service number:
+49 (0) 5231 14 -1252.

1.3 Accuracy of the technical documentation

These operating instructions have been written with due care and attention. However, unless otherwise required by law we do not guarantee that the data, images and drawings are accurate or complete nor do we accept liability for their contents. Weidmüller's general terms and conditions of sale apply in their respective valid form.

Subject to alteration without notice.

1.4 Prescribed use

This device is intended for use in applications only as described in the operating instructions. Any other form of usage is not permitted and can lead to accidents or destruction of the printer. Using the printer in non-approved applications will lead immediately to the expiration of all guarantee and warranty claims on the part of the operator against the manufacturer.

Using the selected printer for purposes other than those specified or failure to observe the operating instructions and warning notes can lead to serious malfunctions that may result in personal injury or damage to property.

1.5 Safety and the environment

1.5.1 Safety instructions

Depending on the model, the PrintJet PRO printer is configured with a power supply for AC voltage of either 115 V or 240 V.

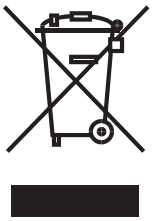
	CAUTION! Only plug the printer into an outlet with an earthing (ground) contact. Only connect this printer with devices that run on extra-low safety voltages. Turn off all relevant devices (computer, printer, or accessories) before connecting or disconnecting the devices. The printer should only be operated in a dry environment with no exposure to moisture (splashed water, fog, etc.).

	CAUTION! Parts of the device can become hot during operation.

1.6 Recycling in accordance with WEEE

BtoB disposal

Dear Weidmüller Customer, purchasing our product gives you the opportunity to return the device to Weidmüller at the end of its service life.



The EU Directive 2002/ 96 EC (WEEE) regulates the return and recycling of waste electrical and electronics equipment. In the Business-to-Business sector (BtoB), manufacturers of electrical equipment are obliged as of 13/08/05 to take back and recycle free-of-charge electrical equipment sold after that date. After that date, electrical equipment must not be disposed through the "normal waste disposal channels". Electrical equipment must then be disposed of and recycled separately.

All devices that fall under the directive must feature this logo.

What we can do for you?

Weidmüller offers you the possibility of returning your old device to us at no extra charge. Weidmüller will then professionally recycle and dispose of your device in accordance with the actual laws.

What do you have to do?

Once your device has reached the end of its life cycle, simply return it (in the carton) to the Weidmüller sales agent responsible for you. We will then take care of all recycling and waste disposal measures. You will incur no costs or suffer any inconvenience.

1.6.1 Disposal of the ink cartridge

The empty ink cartridges can be disposed of with general waste.

1.6.2 Disposal of the ink waste pad

If the operating panel displays the following messages:

Ink Collector is full/Replace Ink Collector Unit
or
Ink Collector almost full

the ink waste pad must be replaced.
Article order number: 1024140000, TNAW 1 PNG

The ink waste pad contains a collecting membrane.

Dispose of the ink collector unit in accordance with local regulations or return the unit to Weidmüller. Additional information concerning the return is included in the delivery of the new ink waste pad.

2. Important notice

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2.1 Application

Individualized marking of equipment can be quickly and conveniently carried out using the PrintJet PRO ink-jet printer. The PrintJet PRO uses a brilliant permanently-readable printing process to print MultiCard-formatted markers for switching devices, machines, terminal blocks, cables, conductors and valves. The PrintJet PRO is the reference ink-jet printer for industrial labelling.

A secure and permanent label is made possible by ultimate resistance to wiping and scratching, UV-stability, and high printing resolution for all MultiCard markers.

The PrintJet PRO allows you to print very small fonts, graphics, logos and even images. Even the smallest diagrams are easy to read - permitting you to increase the marker's information density.

Weidmüller's warrantee does not cover faults or damage to the printer resulting from the use of non-approved or unsuitable accessories or consumable materials.

Furthermore, Weidmüller can make no guarantee for the printing quality and resistance when third-party products such as markers or inks are used.

	CAUTION!
	Someone should always monitor the printer as it is running!

2.2 Symbol explanation

	CAUTION!
	Warning - Mind your hands!
	Do not reach inside.

	CAUTION!
	Warning – Hot surface!
	Do not touch.

	CAUTION!
	Warning – Starts up automatically!

Insert as shown

Please insert the MultiCards with the project marker surface facing the feed-in direction.

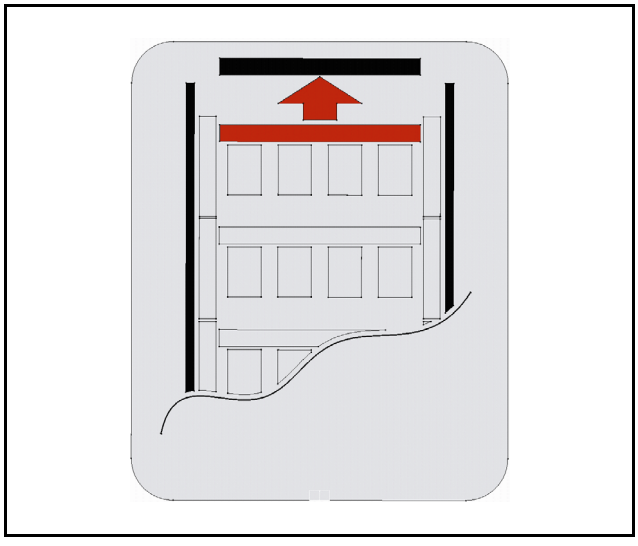

Figure 1 Insertion instructions

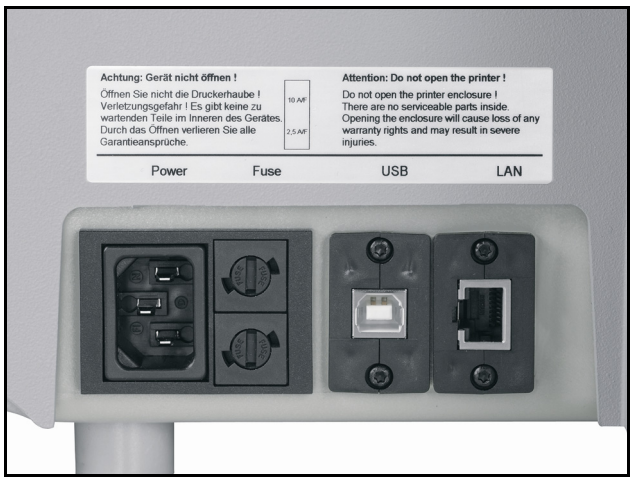

Figure 2 Warning label on device

	CAUTION!
	Do not open the printer! Do not open the printer cover! This exposes you to a risk of injury! There are no serviceable parts inside the printer. You will forfeit all rights under the guarantee if you open the cover!

2.3 Safety precautions

Read the following instructions carefully before starting up the PrintJet PRO. Observe the warnings and notices on the PrintJet PRO at all times.

Read Chapter 4 „Initial commissioning“ for more information.

- The printer weighs approx. 32 kg. Therefore, always use two people when moving. To lift the printer, use the recessed grips at the front and rear of the device.

Read Chapter 4.1 „Unpacking“ for more information.

- Do not block or cover openings in the housing of the PrintJet PRO.
- Do not insert any unsuitable objects into these openings.
- Do not spill any fluids onto the PrintJet PRO.
- The mains voltage must correspond to the system voltage given on the PrintJet PRO type plate.
- Do not open the device when it is printing!

	CAUTION!
	Only connect the printer to a properly-earthed and correctly-fused socket outlet. Do not use a socket outlet already being used by devices that are turned on and off at regular intervals, such as photocopiers or fans. Do not connect the PrintJet PRO to either a switched or a timer-controlled socket outlet.

	CAUTION!
	Do not use the computer system near possible electromagnetic disturbance fields such as loudspeakers or base transceiver stations for mobile telephones.

CAUTION!

Never use damaged or worn power cables.

If you connect the PrintJet PRO to the power supply via an extension cable, ensure that the total nominal current of all of the devices connected to the extension cable does not exceed the ampere rating for that extension cable. In addition, you should ensure that the total nominal current of all the devices plugged into the wall-mounted socket outlet does not exceed the ampere rating for that socket outlet.

CAUTION!

Do not carry out repairs to the device yourself.

Unplug the PrintJet PRO and contact a qualified service engineer if any of the following occurs:

- The power cord or plug are worn or damaged.
- Fluid has penetrated into the PrintJet PRO.
- The PrintJet PRO is come off or the enclosure is damaged.
- The PrintJet PRO does not operate normally or the standard of performance varies noticeably.

2.4 Precautionary measures

Observe the following when using the PrintJet PRO, handling ink cartridges, or choosing a location to install the PrintJet PRO:

Working with the PrintJet PRO

- Check the wipe and scratch resistance of the ink at regular intervals.

CAUTION!

Applicable in Germany: ensure when connecting the PrintJet PRO to the power supply that the building installation is protected by an appropriate back-up fuse.

CAUTION!

Do not move the print head by hand, as this could damage the PrintJet PRO.

- After printing, remove your printouts immediately from the output rail of the PrintJet PRO.

CAUTION!

Always use the mains power switch on the operating panel to turn the PrintJet PRO on and off.

- Before transporting the PrintJet PRO, ensure that it is switched off, and that the ink cartridges are seated correctly.

CAUTION!

Do not operate the PrintJet PRO without a cover. Never reach into the printer openings while the printer is operating.

- The PrintJet PRO should always be transported in a horizontal position. Improper transport can lead to leaked ink and contamination or damage to the printer.

Handling ink cartridges

- Store unopened ink cartridges in a cool and dry place, preferably in a refrigerator at 4 °C.
- Before using an ink cartridge that has been stored in a colder place, allow the cartridge to acclimatize to the room temperature for at least three hours.
- Install ink cartridges immediately after removing from the packaging. The print quality can be impaired if an ink cartridge is left unpacked for any length of time before use.
- Keep ink cartridges out of reach of children. Never allow ink cartridges to fall into the hands of children. Never allow children to drink from them.
- Always handle used ink cartridges with care, because a small amount of ink could remain in the ink supply outlet. If you get ink on your skin, wash it thoroughly with soap and water.
- Do not shake ink cartridges, as this can cause ink to leak.
- Do not use ink cartridges beyond the expiration date printed on the cartridge packaging. For best results, the ink in the cartridge should be used within six months of installation.
- Do not take apart or try to refill ink cartridges. This could result in damage to the print head.

Suitable location for the PrintJet PRO

- Place the PrintJet PRO on a flat, stable surface larger than the base area of the printer. The PrintJet PRO will not operate properly if it is tilted or at an angle.
- Ensure there is sufficient space to allow the MultiCards to be ejected without hindrance from the PrintJet PRO.

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3.1 General functioning

The PrintJet PRO is a printing system for labelling markers from the Weidmüller product portfolio. Primarily, this includes the various versions from the MultiCard series.

The data is created on a PC; this can be done conveniently with the M-Print® PRO labelling software. The data for the printing system is then prepared and processed by the printing drivers.

A MultiCard which is fed by the system into the printing unit is printed with a thermally-hardened ink and then transferred to a fusing unit. In this unit, the ink is then hardened with a special heat radiator.

Finally, the MultiCard is fed out of the system and can be removed.

The PrintJet PRO should not be turned off as it switches to the standby/energy-saving mode when not in use.

3.2 What is located where?

3.2.1 Printer overview

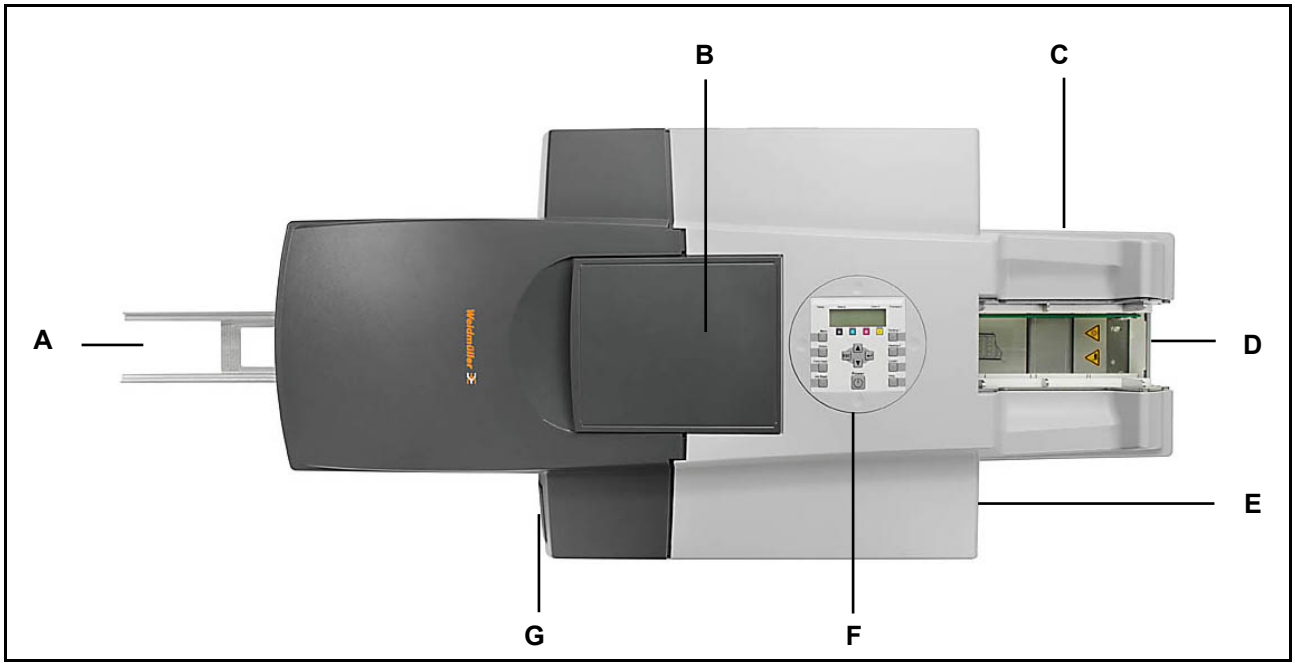

Figure 3 Printer components

A Output

B Maintenance cover 1 (printing system)

C Connections

D Loader - input

E Maintenance cover 2 (ink waste pad)

F Operating and control panel (display)

G Ink-cartridges cover

3.2.2 Connections

Figure 4 Connections

A. Mains power supply connection

	CAUTION!
	Verify the power supply voltage!

B. Fuses

Fuse 1	Load circuit
Fuse 2	Supply circuit

C. Printer connections

USB port

Ethernet port

3.2.3 Enclosure

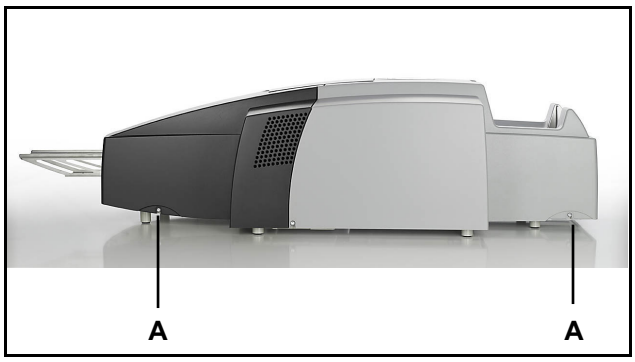

Figure 5 Enclosure

A Recessed grips

Figure 6 Ink-cartridge lid

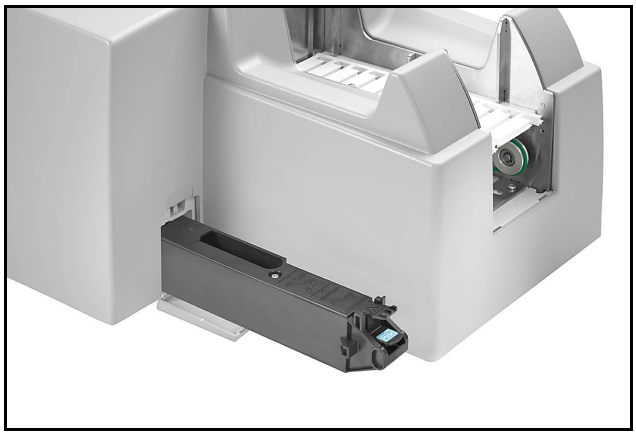

Figure 7 Loader and maintenance cover 2 (ink waste pad)

Figure 8 Maintenance cover 1 (printing system)

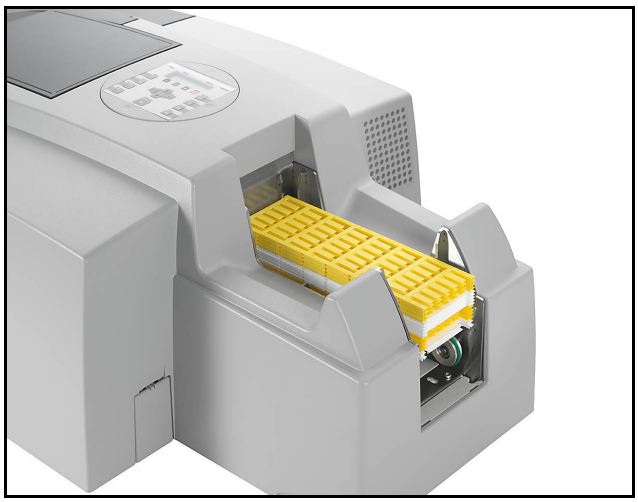

Figure 10 Input (loader)

Openings

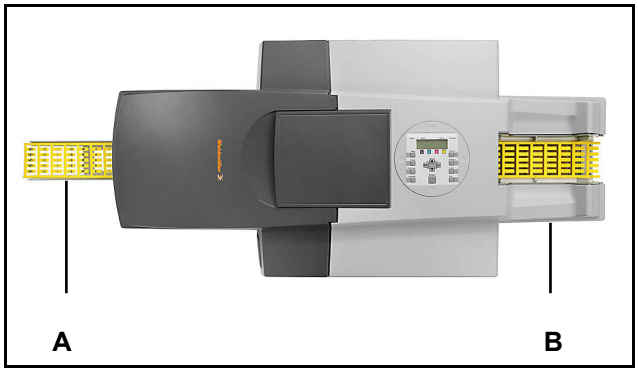

Figure 9 Openings

A Output

B Input

Figure 11 Output

3.2.4 Display

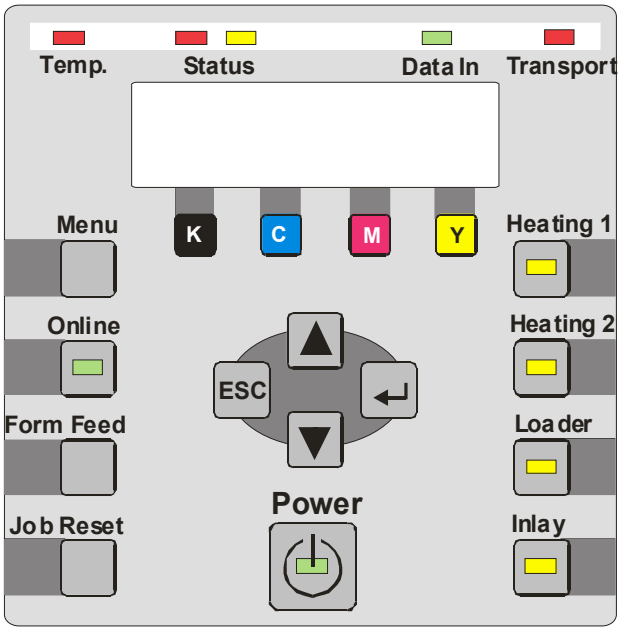

Figure 12 Display

As delivered, the display is designed for operating from the right.

Optional it can be turned 180°.

[Power] button

Use this button to turn the printer on and off.

In order to turn on the printer, press the button for one second until it is illuminated.

After the printer has been turned on, the [Power] button blinks until the printer is operational. The button then stops blinking and remains illuminated.

The [Power] button also blinks when the printer is processing data.

When the printer is turned off, the button blinks slowly until the printer is fully powered off. The button is then no longer illuminated. The printer is in "Standby" mode.

Display

This shows the current status of the printer and any error messages.

[Menu] button

Press this button in order to change or view the printer settings.

[Online] button

This button indicates if the printer is offline or online. Press this button in order to switch between the offline and online modes.

When illuminated, the printer is online and data can be received from the host computer. When not illuminated, the printer is offline and data can not be received from the host computer.

Press this button in order to change the operational mode of the printer.

[Form Feed] button

If the printer is offline, this button can be pressed to print any data that remains in the printer's input buffer.

This makes it possible to ensure that the printer prints all data received while online but which was not initially printed because the paper format or paper type was not the specified format or type.

[Job Reset] button

When the printer is online, you can press this button to abort a running print job.

[Esc] button

Press this button to return to the previous display view.

[▲] [▼] buttons

These buttons can be used to raise or lower the setting values on the display.

By holding down one of the buttons, you can quickly raise or lower the displayed value in increments of 10.

[↵ Enter] button

Press this button in order to execute the menu command shown on the display.

Heating 1

Display and set the fuser setting 1.

LED illuminated: Fuser setting 1 is activated.

Heating 2

Display and set the fuser setting 2.

LED illuminated: Fuser setting 2 is activated.

Heating 1 and Heating 2

Both LEDs are illuminated: 3. Fuser setting level is activated.

Loader

Turn on and display the loader function.

Inlay

Turn on and display the inlay function.

LED illuminated: Inlay mode is activated.

LED is off: Inlay mode is not activated.

Temp LED

Status indicator of temperature in the fusing unit.

Status / Error display

Status indicator when printing. A blue LED lights up to indicate that an error has occurred that prevents further printing or if a print job is sent before the MultiCard was drawn into the printer. An orange light indicates that an error has possibly occurred during printing.

If the blue LED lights up follow the instructions on the display, when applicable.

Data In LED

This LED flashes when the printer is receiving data from the computer. The receive display is illuminated when pending data is waiting to be printed.

Transport LED

Indicates the status of or an error in the transport system.

3.2.5 Rotating the operating and control panel (display)

The printer is shipped with the display set for operating from the right.

For user convenience the display can be rotated 180° in an anticlockwise direction and back in 90°steps, where it locks into place. The unit can be re-positioned by using the round indentations. In addition, when the maintenance cover is opened, the control panel can be turned by using a special knurled knob.

Figure 13 Display

Figure 14 Turning the display

Figure 15 Maintenance cover

4. Initial commissioning

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4.1 Unpacking

Carefully take all parts out of the packaging. Always use two people to move the printer and make use of the grips available on the device.

NOTE

Please keep the original packaging in case you need to re-ship the printer in the future!

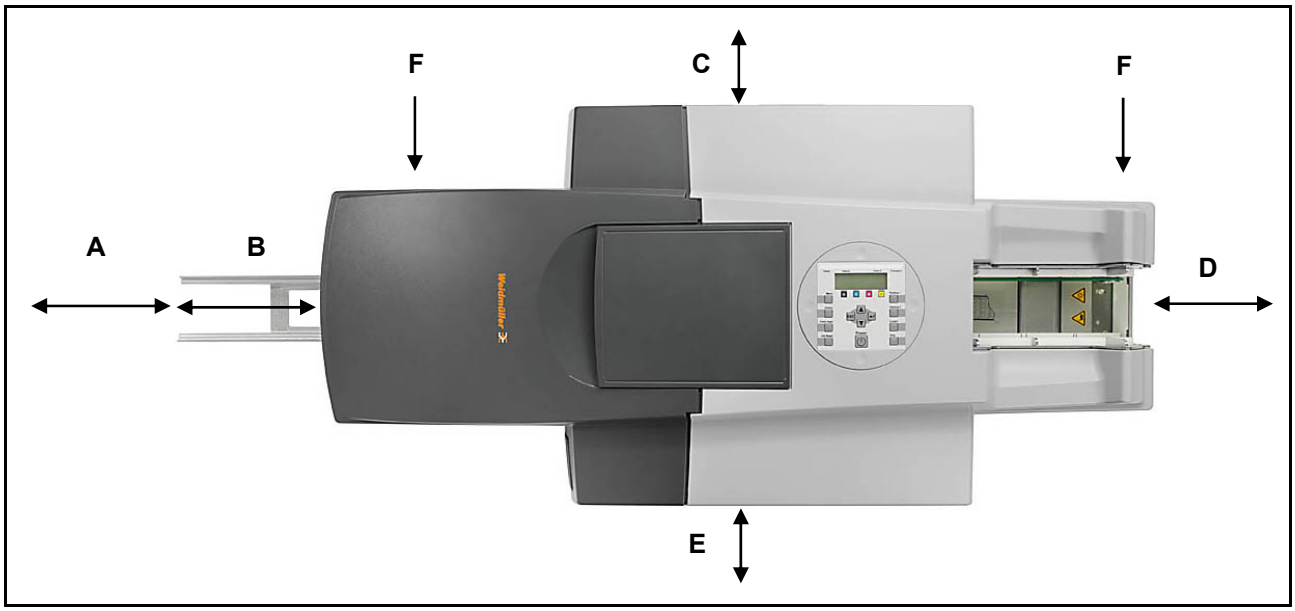


Figure 16 Necessary clearance space

A 250 mm

B 200 mm output rail

C 100 mm

D 250 mm

E 100 mm

F Grips

The figure shows the necessary clearance room for the optimal insertion and removal of the MultiCards, and for sufficient air circulation.

NOTE

Run through the commissioning procedure as detailed in the instructions before turning on the printer!

4.2 Included in delivery

After you have taken the PrintJet PRO and all accessories from the packaging, make sure that you have all of the following parts:

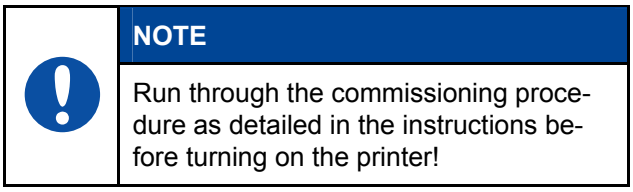
- PrintJet PRO printer
- Power cord
- USB cable
- Quick Installation Guide
- Printer driver and software CD (M-Print® PRO, driver, manuals …)
- MultiCard markers: 2 cards DEK 5/5 MC
- 4 ink-cartridge carriers
- Output rail

The delivery does **not** include:

- LAN cable
- Ink cartridges:

Variant 1:
black starter kit, order number: 1027090000

Variant 2:
colour starter kit, order number: 1027110000



4.3 Setup

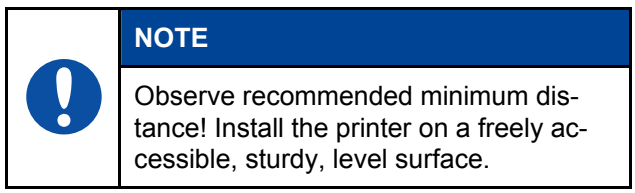
Select a suitable location for the setup, considering the following factors:

- Place the PrintJet PRO on a flat, stable surface larger than the base area of the printer.
- The PrintJet PRO will not operate properly if it is tilted or at an angle.
- Ensure there is sufficient space to allow the MultiCards to be ejected without hindrance from the PrintJet PRO.
- Avoid installing the PrintJet PRO in any location where it is subject to rapid changes in temperature and humidity.
- Ensure that the PrintJet PRO is not exposed to direct sunlight, strong light or excessive heat.
- Avoid locations subject to impact shocks or vibrations. Do not place on a table joined to other tables to avoid the transmission of vibration.
- Do not install the device in dust-filled surroundings.
- When installing, ensure that the PrintJet PRO is sufficiently ventilated on all sides.
- Install the PrintJet PRO near a socket outlet, ensuring that the plug can be easily removed at all times.

Dimensions of the printer system (including the output rail)

L x W x H, approx. 1270 x 500 x 300 mm.

Weight: approx. 32 kg



4.3.1 Inserting the output rail

Insert the output rail so that it snaps into position.

Figure 17 Inserting the output rail

	NOTE
	Run through the commissioning procedure as detailed in the instructions before turning on the printer!

4.3.2 Inserting the ink cartridges

	CAUTION!
	The ink cartridges are sealed units. Under normal circumstances, ink will not leak out of an ink cartridge. If you get ink on your hands, wash them thoroughly with soap and water. If you get ink in your eyes, rinse immediately with plenty of water.

Handling ink cartridges

- Store unopened ink cartridges in a cool and dry place, preferably in a refrigerator at 4°C.
- Before using an ink cartridge that has been stored in a colder place, allow the cartridge to acclimatize to the room temperature for at least three hours.
- Install ink cartridges immediately after removing from the packaging. The print quality can be impaired if an ink cartridge is left unpacked for a length of time before use.
- Keep ink cartridges out of reach of children. Never allow ink cartridges to fall into the hands of children. Never allow children to drink from them.
- Always handle used ink cartridges with care, because a small amount of ink could remain in the ink supply outlet. If you get ink on your skin, wash it thoroughly with soap and water.
- Do not shake ink cartridges, as this can cause ink to leak.
- Do not use ink cartridges beyond the expiration date printed on the cartridge packaging. For best results, the ink in the cartridge should be used within six months of installation.
- Do not take apart or try to refill ink cartridges. This could result in damage to the print head.
- Ink is used each time a new ink cartridge is inserted or the ink cartridge cover is opened, as the PrintJet PRO always carries out a reliability check in each case.
- Always handle ink cartridges with care, otherwise ink could spill and cause contamination.
- Never touch the ink supply outlet of the ink cartridge or the area around it.
- Please note that it is possible that the ink cartridges could fall out of the carrier.

1 Place the four ink-cartridge carriers (included) ready.

2 Take the toner cartridges from the starter kit.

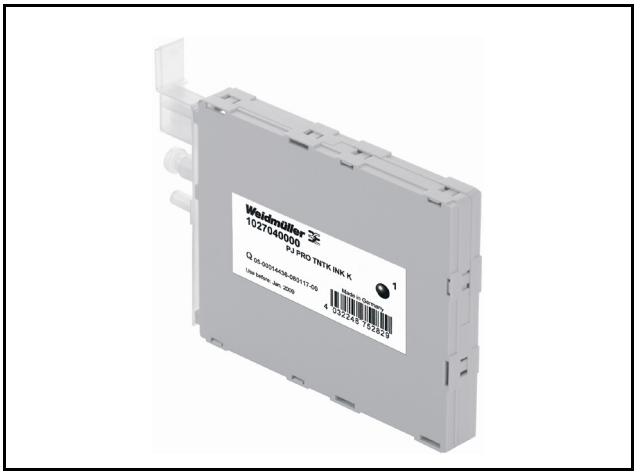


Figure 18 Ink cartridge

System variants

Black version: 1 x black, 3 x fluid
Order number: 1027090000

Colour version:
1 x black, 1 x cyan, 1 x magenta, 1 x yellow
Order number: 1027110000

3 Insert the toner cartridges into corresponding carriers.

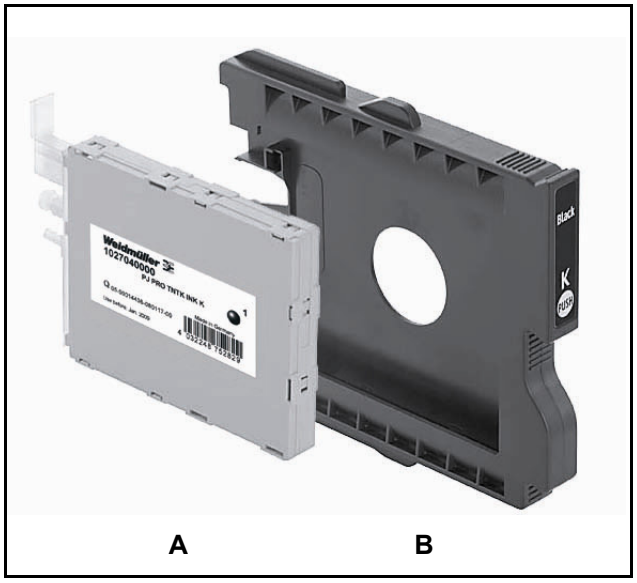


Figure 19 Ink cartridge and ink-cartridge carrier

A Ink cartridges

B Ink-cartridge carrier

Figure 20 Inserted ink cartridge

Initial commissioning

1 Open the ink-cartridges cover.

Figure 21 Inserting the ink-cartridge carrier

2 Check the alignment and the assembly of the ink-cartridge carrier. Then carefully place it into the printer using the following guidelines. Pay special attention to whether you are installing black or coloured inks.

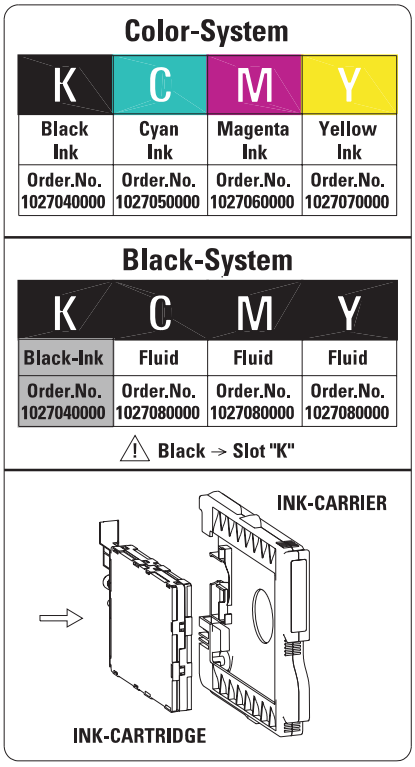


Figure 22 Color System / Black System

3 Press on the middle of the ink-cartridge carrier and push in until it snaps into place.

4 Repeat this step for all ink-cartridge carriers.

5 Close the ink-cartridge cover.

NOTE

Run through the commissioning procedure as detailed in the instructions before turning on the printer!

4.4 Connecting the power cord

The mains voltage must correspond to the system voltage given on the PrintJet PRO type plate.

Connect the plug-in power connection to a nearby mains socket, ensuring it is easily accessible.

CAUTION!

Only connect the printer to a properly-earthed and correctly-fused socket outlet.

Do not use a socket outlet already being used by devices that are turned on and off at regular intervals, such as photocopiers or fans.

CAUTION!

Do not connect the PrintJet PRO to either a switched or a timer-controlled socket outlet.

CAUTION!

Do not use the computer system close to potential electromagnetic disturbance fields such as loudspeakers or base transceiver stations for mobile telephones.

CAUTION!

Never use damaged or worn out power cables.

If you connect the PrintJet PRO to the power supply via an extension cable, ensure that the total nominal current of all of the devices connected to the extension cable does not exceed the ampere rating for that extension cable. In addition, you should ensure that the total nominal current of all the devices plugged into the wall-mounted socket outlet does not exceed the ampere rating for that socket outlet.

CAUTION!

Do not carry out repairs to the device yourself.

CAUTION!

Applicable in Germany: ensure when connecting the PrintJet PRO to the power supply that the building installation is protected by an appropriate back-up fuse.

CAUTION!

Keep the mains cable (power cord) undamaged and keep it in its original state. Do not place any heavy objects on it. Do not pull at it with force and do not bend it more than necessary. Ignoring these instructions can lead to electrocution or fire.

Unplug the PrintJet PRO and contact a qualified service engineer if any of the following occurs:

- The power cord is worn or damaged.
- The plug is worn or damaged.

Power supply

Connect the power cord to the PrintJet PRO and the socket outlet (220-240 VAC or 100-120 VAC). Make sure that the plug is completely inserted.

Top fuse:
10 A / delay-action 230 VAC
(12.5 A / delay-action 115 VAC) → Power circuit of the fusing unit

Bottom fuse:
2 A / delay-action 230/115 VAC → Printer controller

This device is subject to special conditions regarding its connection to the mains power supply (for EU Member States).

The supply impedance at the point of connection to the public electricity supply must not exceed (0.14 + i 0.09) Ohm. If it does, consult the power supply company before connecting the device to the public supply system.

5. Installing the printer driver

5.1 General notice before installation 34

5.2 WIN XP / WIN 2000 36

5.2.1 USB port - WIN XP / WIN 2000 36

5.2.2 Network connection - WIN XP / WIN 2000 40

5.3 WIN VISTA 47

5.3.1 USB port - WIN VISTA 47

5.3.2 Network connection - WIN VISTA 51

5.1 General notice before installation

	NOTE
	Please note that this printing system is optimized for Microsoft Windows 2000, XP and VISTA. For installation and operation, you require a basic knowledge of Microsoft Windows and administrative privileges. If you wish to operate the PrintJet PRO both in a network and via a direct USB connection you must first install the network driver. It is not necessary to install further drivers to use the printer via a USB connection.

All necessary printer driver settings are made automatically by the M-Print® PRO software. If you decide to use another software application, please contact your Weidmüller representative for additional information on these printer driver settings.

Before you begin with the installation of the software and the printer driver, insert the "Printer Driver & Software" CD-ROM (included in delivery) into the CD-ROM drive of your computer. The CD starts automatically and shows the language-selection screen (shown below). If the CD does not start automatically, start the Setup.exe file found on the CD.

Figure 23 Language selection – software installation

1 Please select your language and confirm your selection by clicking on the button .

Figure 24 Operating System for printer driver

2 Select your operating system.

5.2 WIN XP / WIN 2000

5.2.1 USB port - WIN XP / WIN 2000

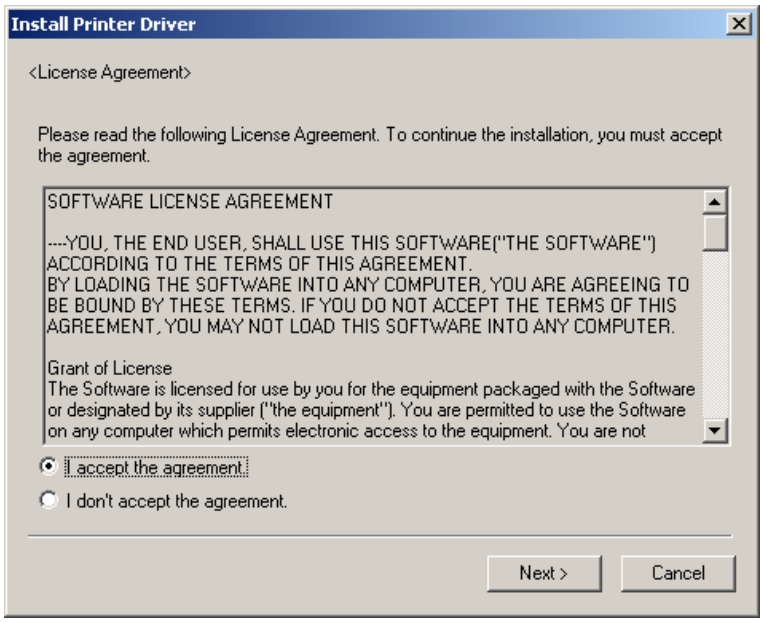


Figure 25 Licence agreement

1 Accept the license agreement and click on [Next].

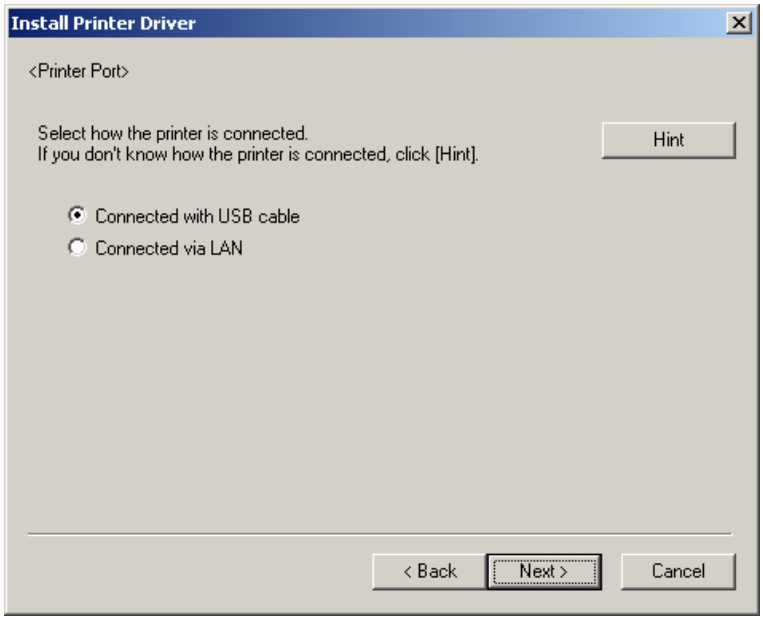


Figure 26 Connecting the printer

2 Select the USB cable option and click on [Next].

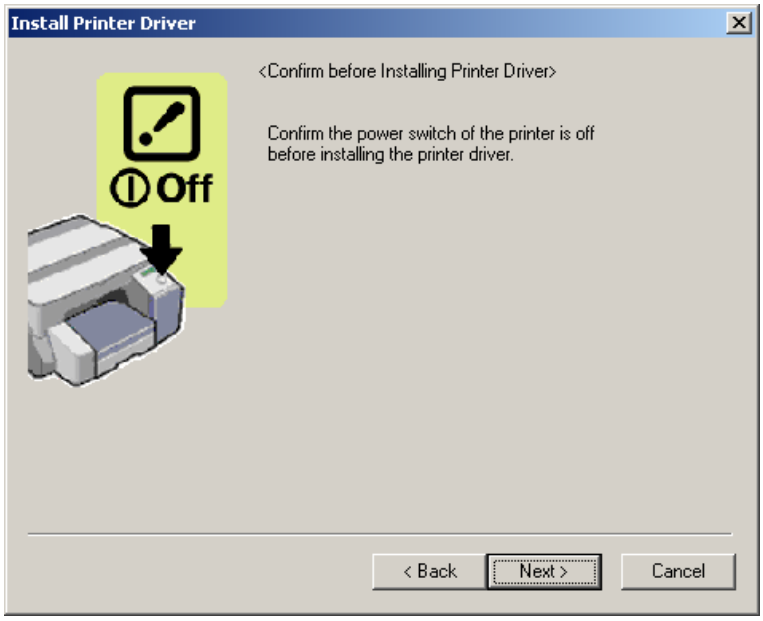


Figure 27 Installing the printer driver

3 Make sure that the printer is turned off. Click on [Next].

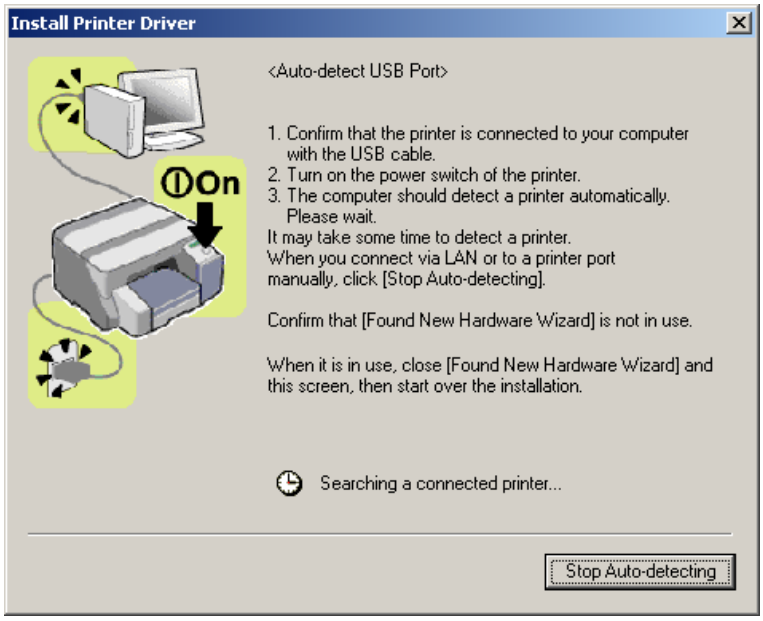


Figure 28 Automatic recognition of the USB connection

4 Turn on the printer when this window appears. The printer driver will now be installed.

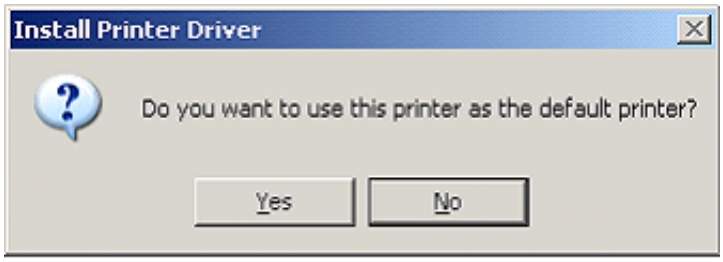


Figure 29 Standard printer

5 Do not define the printer as the standard printer. Click on [No].

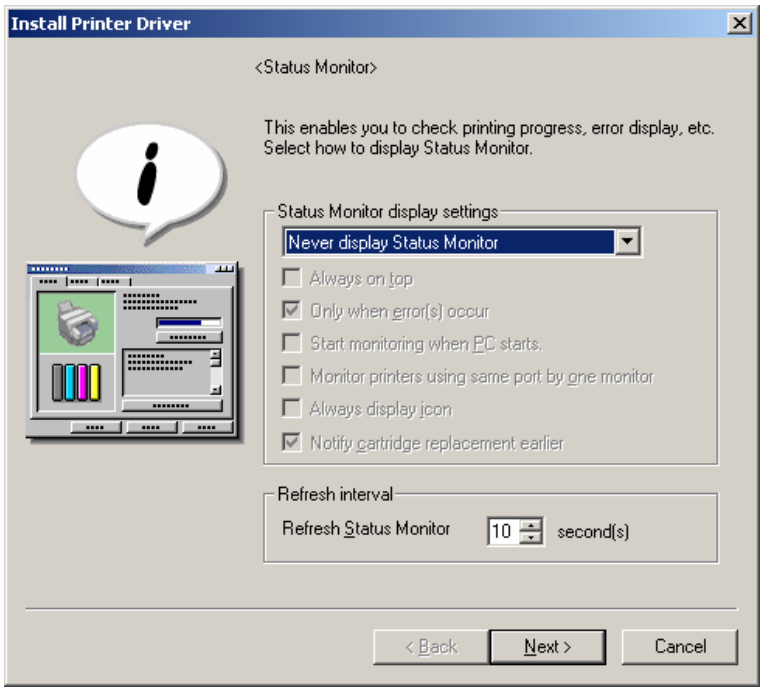


Figure 30 Status monitor

6 Deactivate the status monitor and click on [Next].

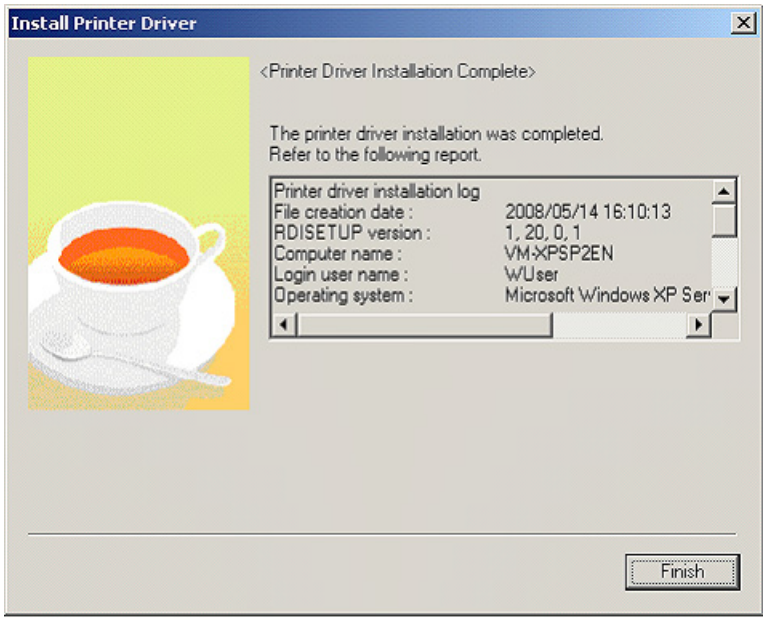


Figure 31 Installation of printer driver successful

7 Click on [Finish]. The driver installation is finished and your computer will be re-booted.

5.2.2 Network connection - WIN XP / WIN 2000

On the printer press the Menu key, the arrow keys and the Enter key to select the submenu 'Host interface' followed by 'Network setup' and 'IP address'. Press the Enter key again to display the IP address of the printer. Now enter <http://IP address/ipp> in your Web browser (please enter the printer IP address using the following format: XXX.XXX.XXX). If the IP address contains blocks with less than three digits per block, please add leading zeroes (for example, 10 -> 010).

The System window will now open and display the hostname of the printer 'RNPAXXXXX'. Here XXXXX represents a figure.

If you are unable to open the web address that you have just entered you may have to deactivate the proxy server just to enable you to gain access to this page. Proceed as follows to access this option in the Internet Explorer: click the 'Tools' menu then 'Internet Options', click the 'Connections' tab and then click the 'LAN settings' button. Now uncheck the option 'Use a proxy server for your LAN'.

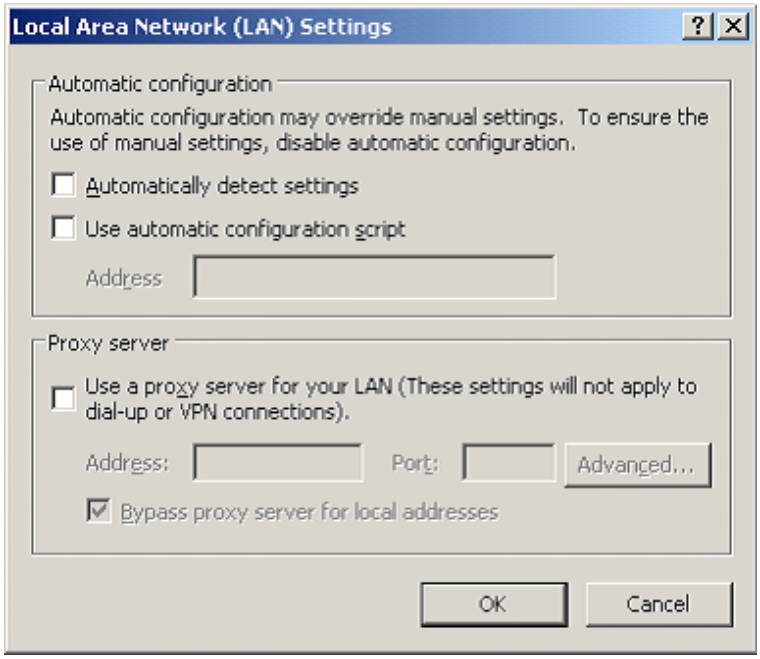


Figure 32 LAN settings

Once you have carried out the procedures described above, take the CD-ROM 'Printer Driver & Software' included in the range of supply and insert it into the CD-ROM drive of your PC. The CD-ROM will start automatically. At this point you must select a language.

If the CD does not start automatically click SETUP.EXE on the CD. Ensure you have administrator rights for your local computer.

On the main menu 'Printer Driver & Software' select the option 'Printer drivers', 'PrintJet PRO' and the Operating System 'WIN XP / 2000'.

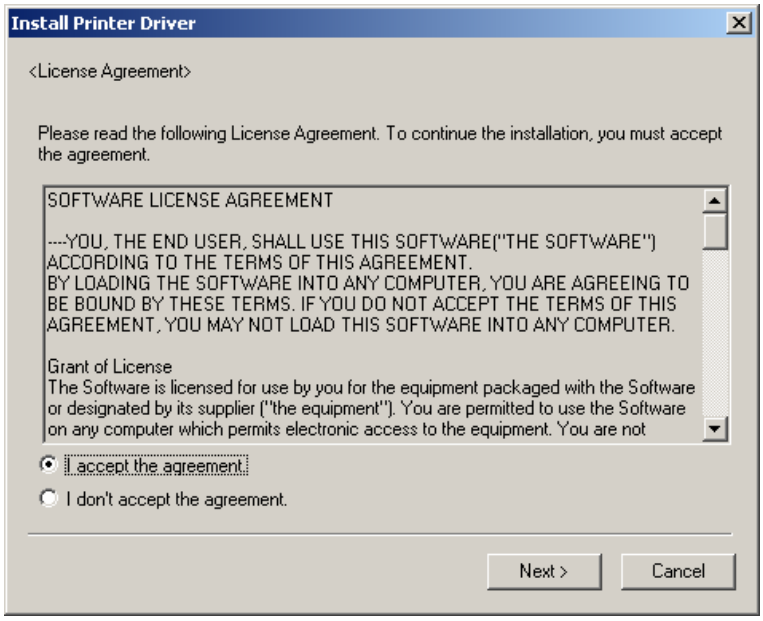


Figure 33 Licence agreement

1 Accept the license agreement and click on [Next].

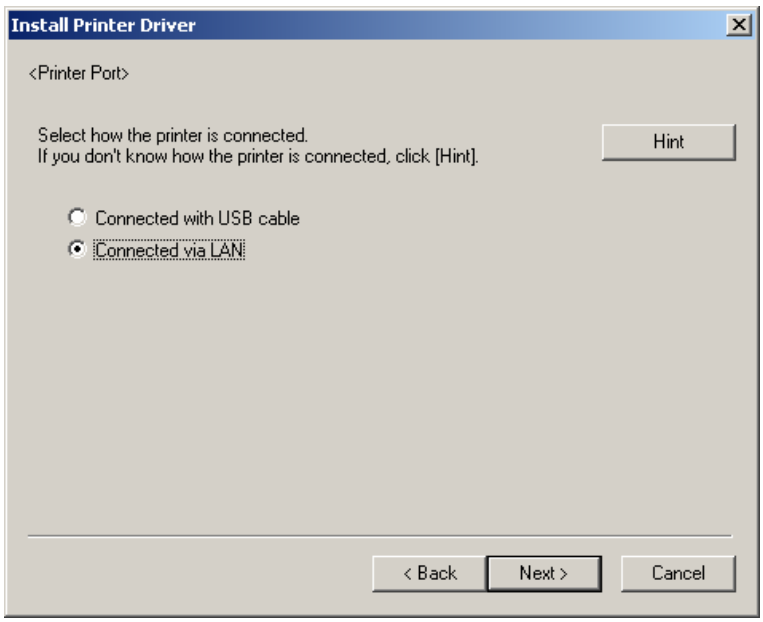


Figure 34 Connecting the printer

2 Select the LAN Connection option and click on [Next].

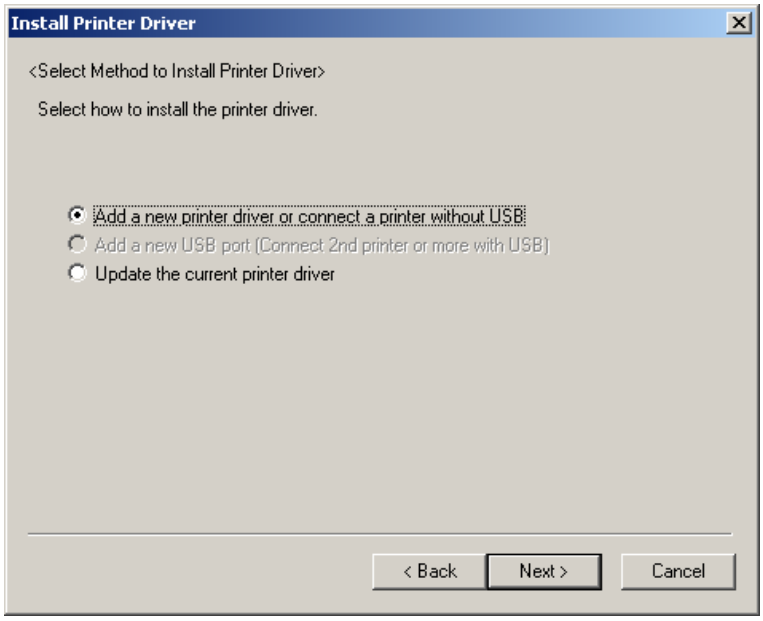


Figure 35 Installing the printer driver

3 Select the option shown above and click on [Next].

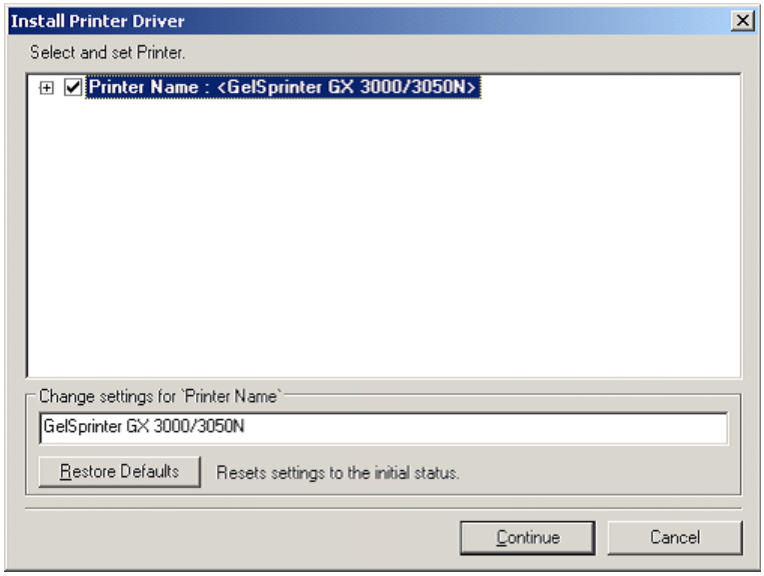


Figure 36 Standard printer

4 Double click on the printer names to display the printer settings.

5 Click on [Continue].

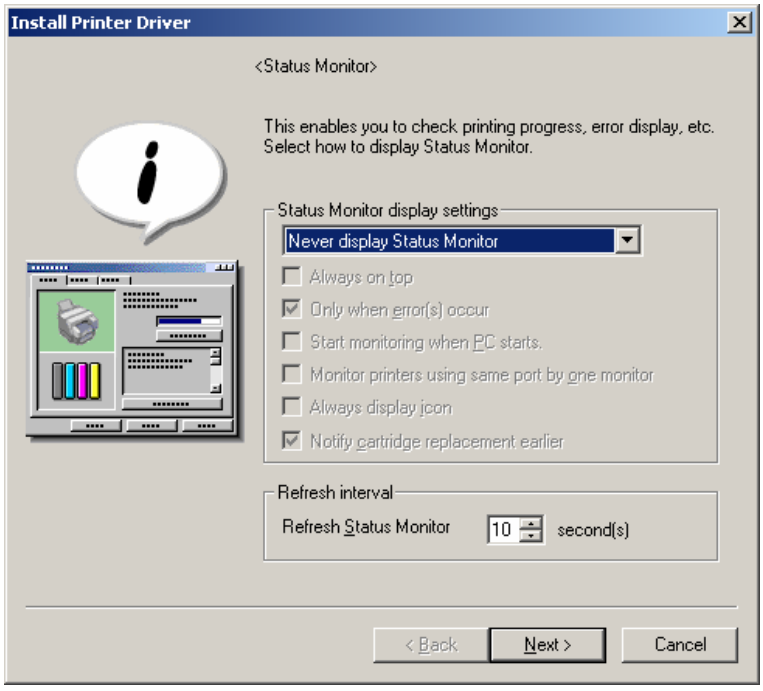


Figure 37 Status monitor

6 Deactivate the status monitor and click on [Next].

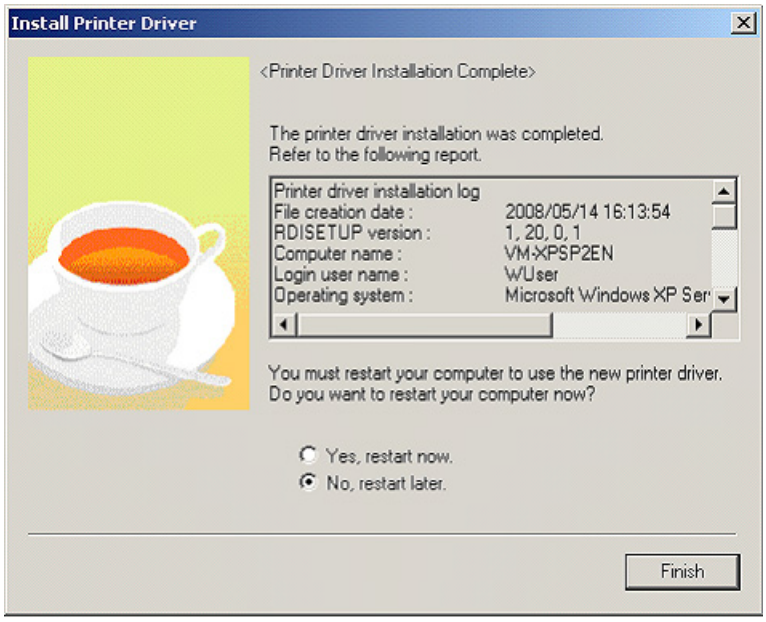


Figure 38 Installation of printer driver successful

7 Select the option shown above and click on [Finish].

8 Open Start → Settings → Printer (Windows 2000), or Start → Printer and Fax (XP). Select the printer which you have just installed and then click with the right mouse button on the [Properties] icon.

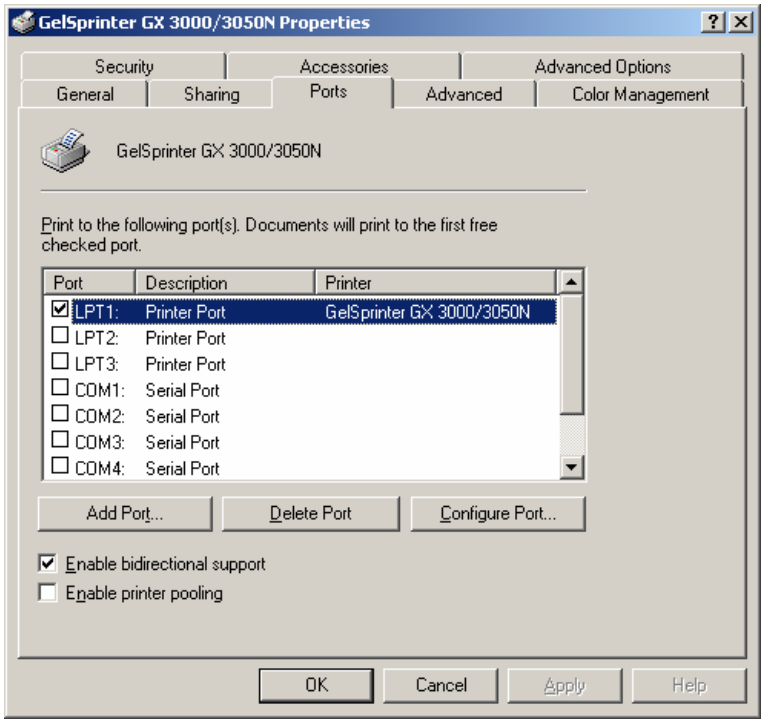


Figure 39 Printer driver properties

9 Click on the [Ports] tab and then on [Add Port].

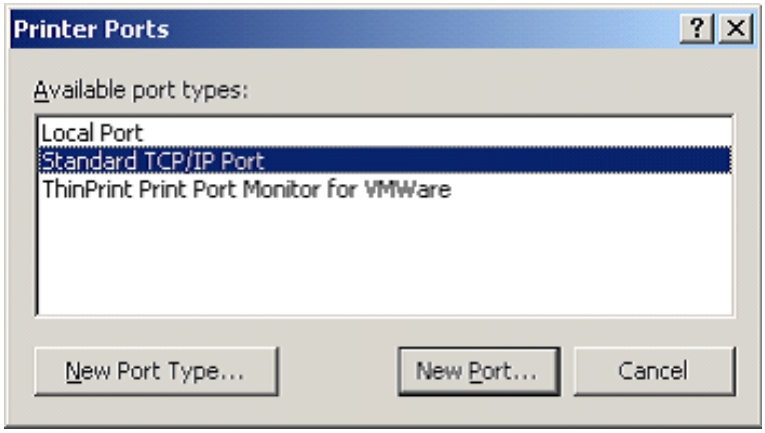


Figure 40 Printer connections

10 Select [Standard TCP/IP Port] and [New Port].

Figure 41 TCP/IP printer port

11 Click on [Next].

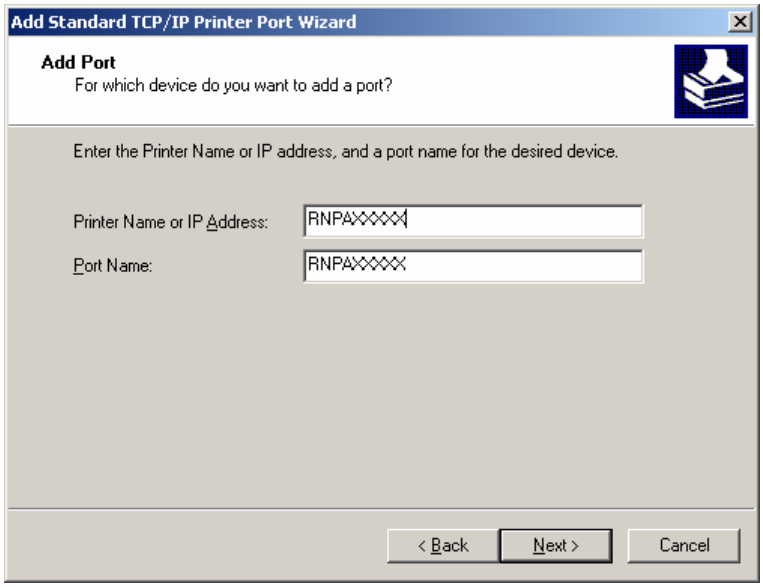


Figure 42 Add port

12 Enter the hostname (see above - RNPAXXXXX) of the printer in this window. (Here, XXXX is the number of your printer.)

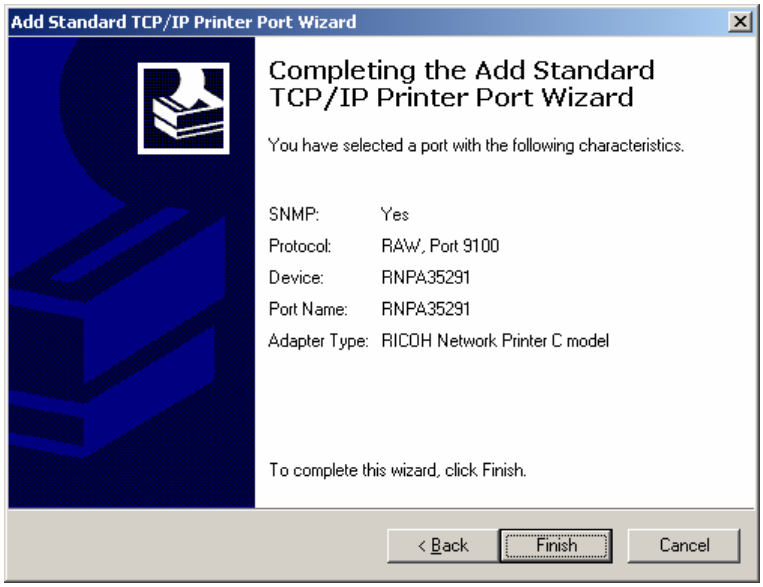


Figure 43 Exiting the Install Wizard

The connection is then added.

13 Verify that a connection to the selected printers exists in [Device].

14 In the dialog box for the finished installation, click on [Finish].

15 Close out the installation by re-starting the computer.

5.3 WIN VISTA

5.3.1 USB port - WIN VISTA

1 Insert the "Printer Driver & Software" CD-ROM (included in delivery) into the CD-ROM drive of your computer. The CD starts automatically and waits for the language to be selected.

If the CD does not start automatically, start the Setup.exe file found on the CD.

2 On the main menu 'Printer Driver & Software' select the option 'Printer drivers', 'PrintJet PRO' and the Operating System. The Operating System will now issue a message stating that 'an unidentified programme wants to access your computer'.

3 Click [Allow].

The installation process will now start.

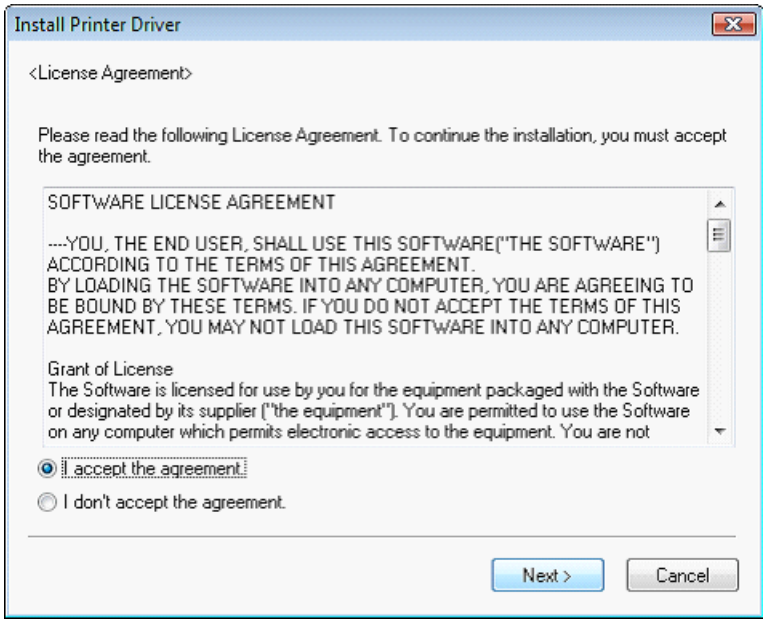


Figure 44 Licence agreement

1 Accept the license agreement and click on [Next].

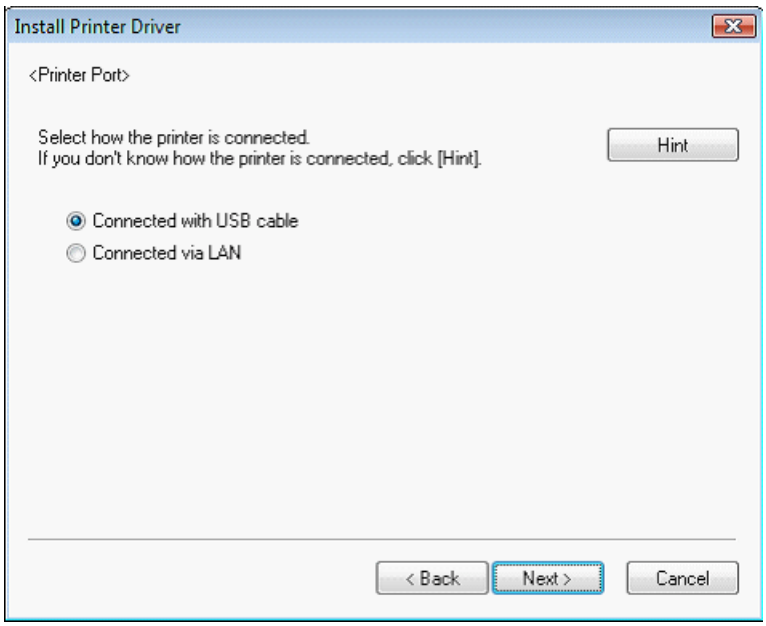


Figure 45 Printer Port

2 Select the option 'Connect with USB cable' then click [Next].

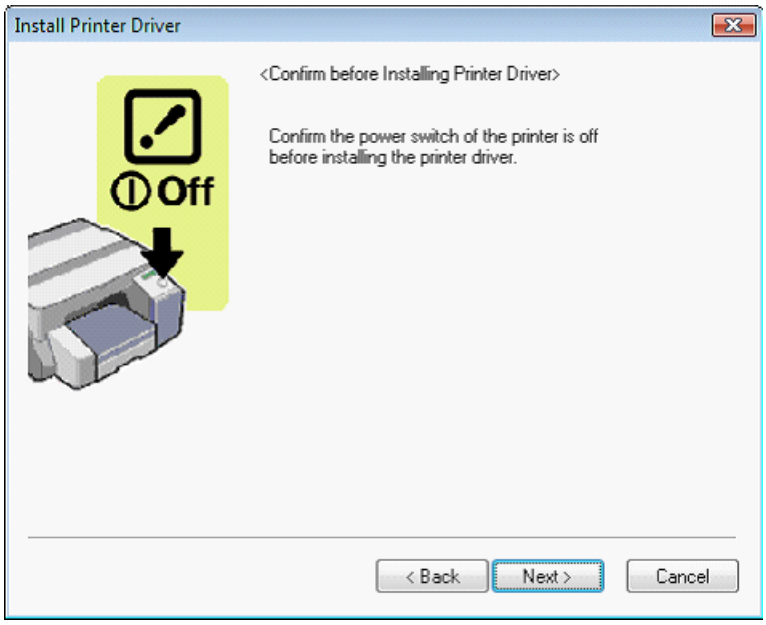


Figure 46 Installing the printer driver

3 Make sure that the printer is turned off. Click on [Next].

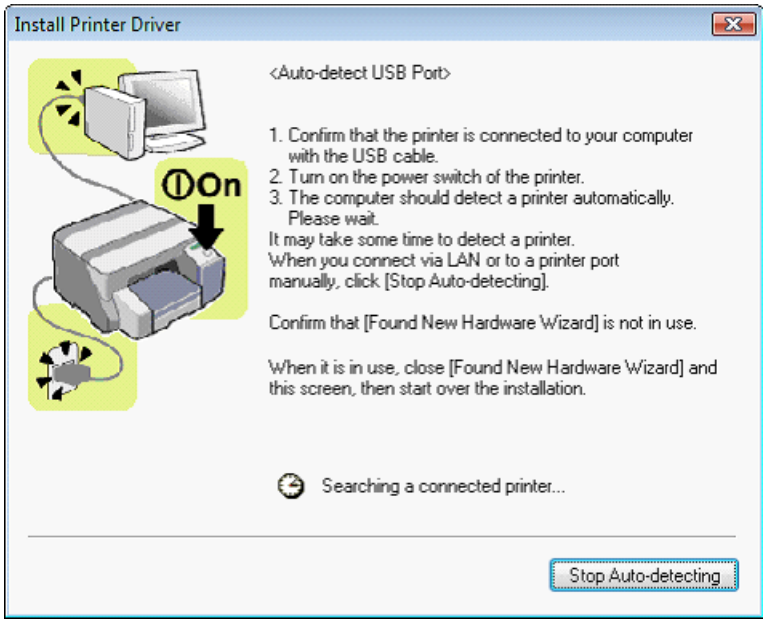


Figure 47 Automatic recognition of the USB connection

4 When this window appears, turn on the printer. The printer driver will now be installed.

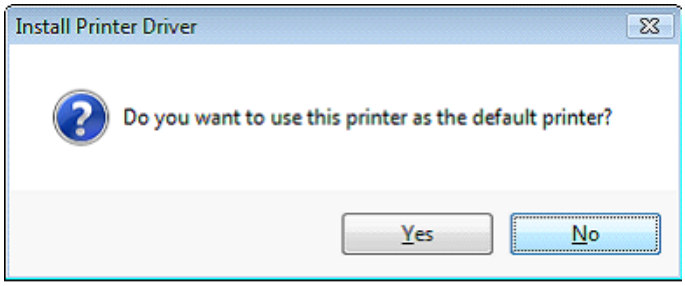


Figure 48 Standard printer

5 Do not set this printer as the system default printer. Click on [No].

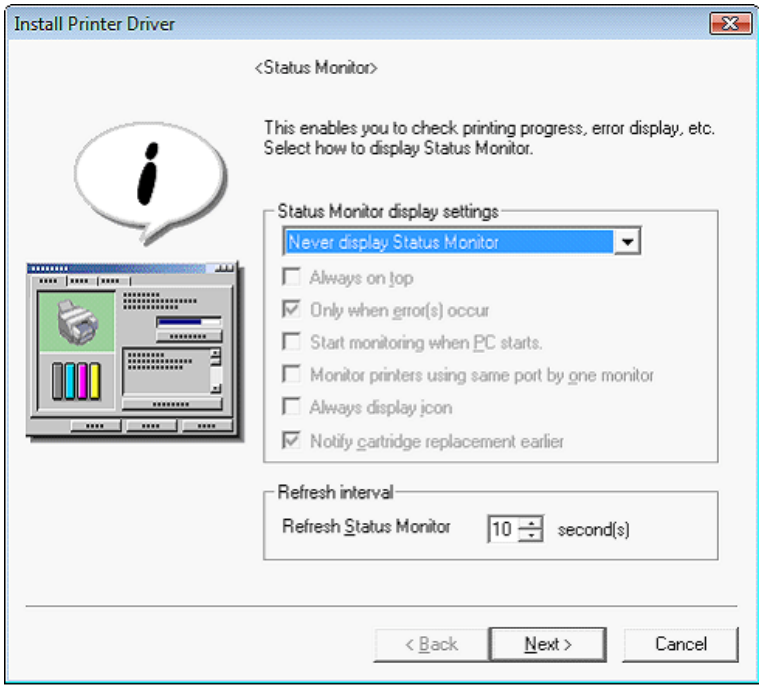


Figure 49 Status monitor

6 Deactivate the status monitor and click on [Next].

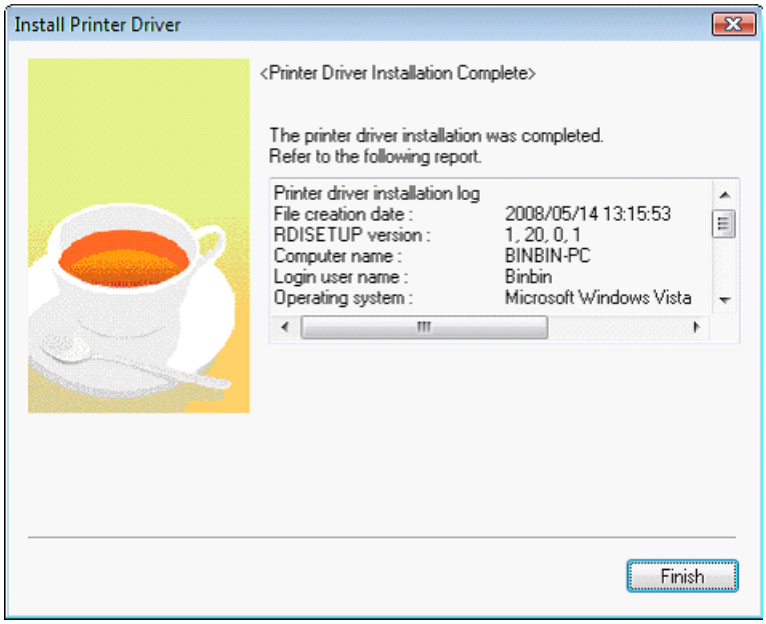


Figure 50 Installation of printer driver successful

7 After you click on [Finish], the installation of the printer driver if finished.

8 Re-start the computer.

5.3.2 Network connection - WIN VISTA

1 On the printer press the Menu key, the arrow keys and the Enter key to select the submenu 'Host interface' followed by 'Network setup' and 'IP address'.

2 Press the Enter key again to display the IP address of the printer.

3 Now enter <http://IP address/ipp> in your Web browser (please enter the printer IP address using the following format: XXX.XXX.XXX). If the IP address contains blocks with less than three digits per block, please add leading zeroes (for example, 10 -> 010).

The System window will now open and display the hostname of the printer 'RNPAXXXXX'. Here XXXXX represents a figure.

If you are unable to open the web address that you have just entered you may have to deactivate the proxy server just to enable you to gain access to this page. Proceed as follows to access this option in the Internet Explorer: click the 'Tools' menu then 'Internet options', click the 'Connections' tab and then click the 'LAN settings' button. Now uncheck the option 'Use a proxy server for your LAN'.

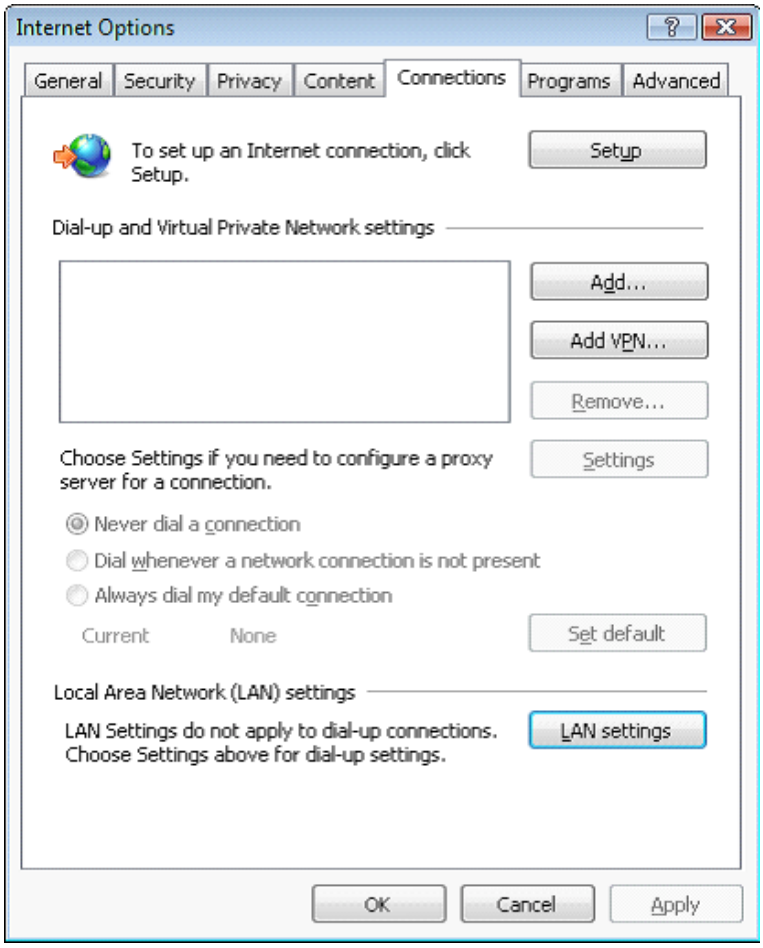


Figure 51 Internet Options

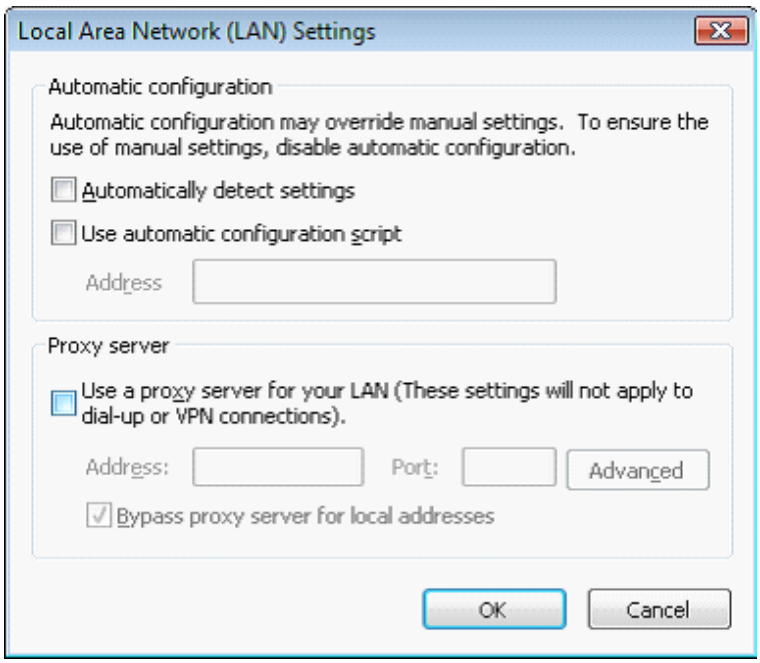


Figure 52 LAN settings

4 Once you have carried out the procedures described above, take the CD-ROM 'Printer Driver & Software' included in the range of supply and insert it into the CD-ROM drive of your PC. The CD-ROM will start automatically. At this point you must select a language.

   If the CD does not start automatically click SETUP.EXE on the CD. Ensure you have administrator rights for your local computer.

5 On the main menu 'Printer Driver & Software' select the option 'Printer drivers', 'PrintJet PRO' and the Operating System 'WIN VISTA'.

6 The Operating System will now issue a message stating that 'an unidentified programme wants to access your computer'. Click [Allow].

The installation process will now start.

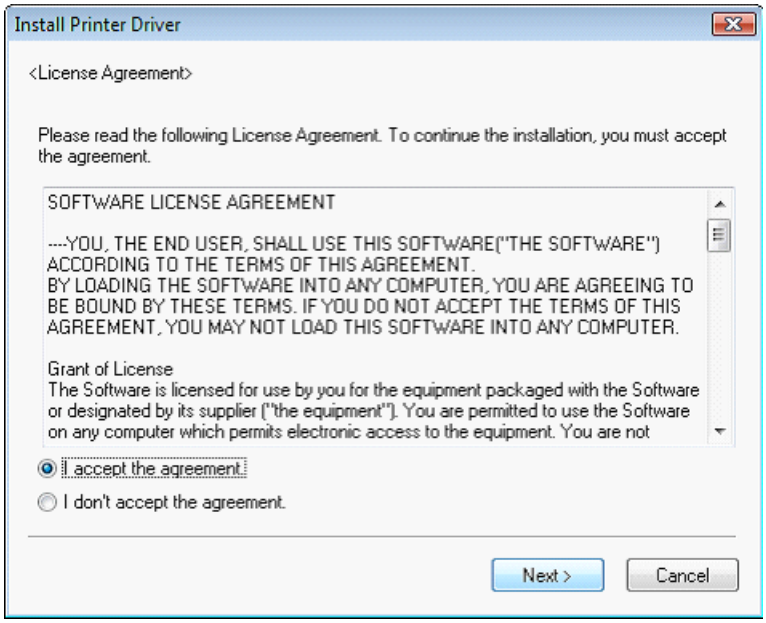


Figure 53 Licence agreement

7 Accept the license agreement and click on [Next].

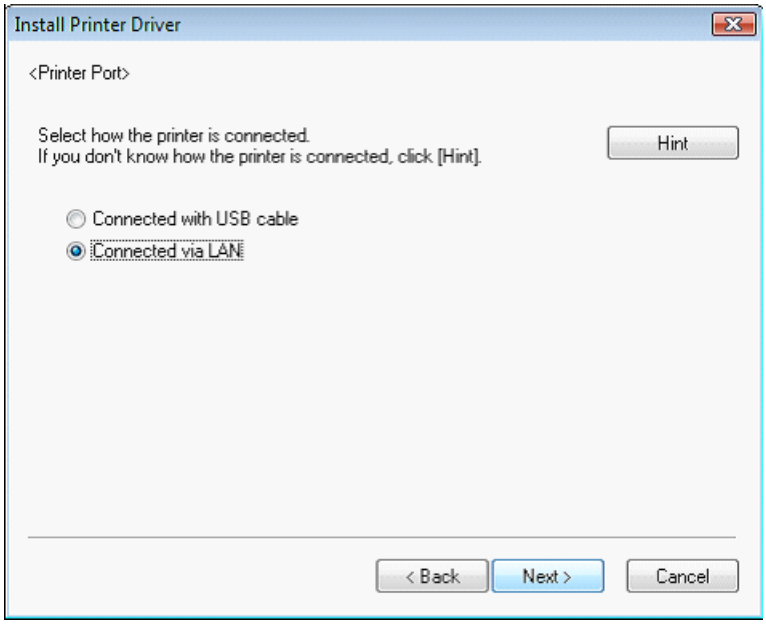


Figure 54 Connecting the printer

8 Select the LAN Connection option and click on [Next].

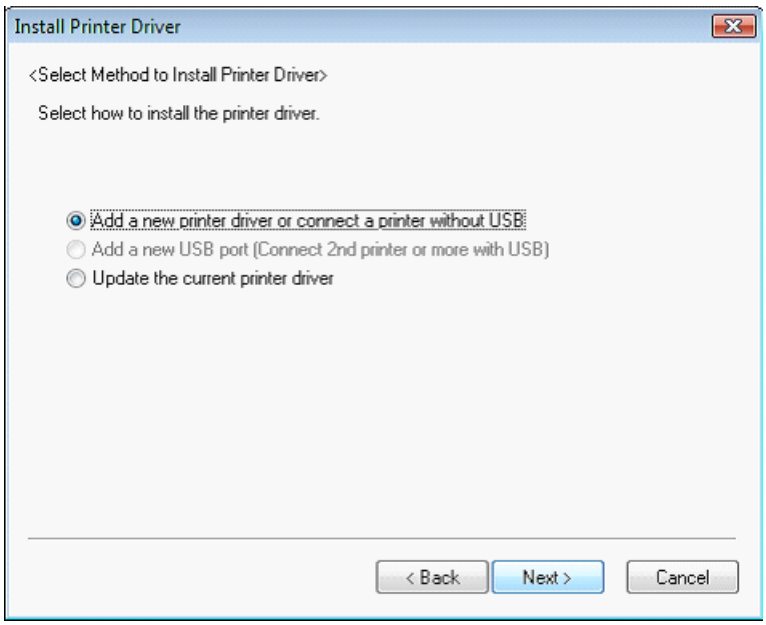


Figure 55 Installing the printer driver

9 Select the option shown above and click on [Next].

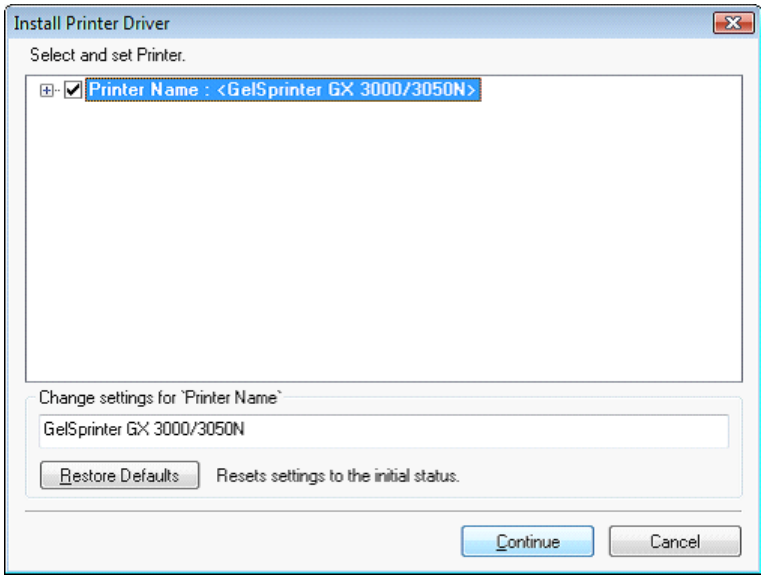


Figure 56 Standard printer

10 Double click on the printer names to display the printer settings.

11 Click on [Continue].

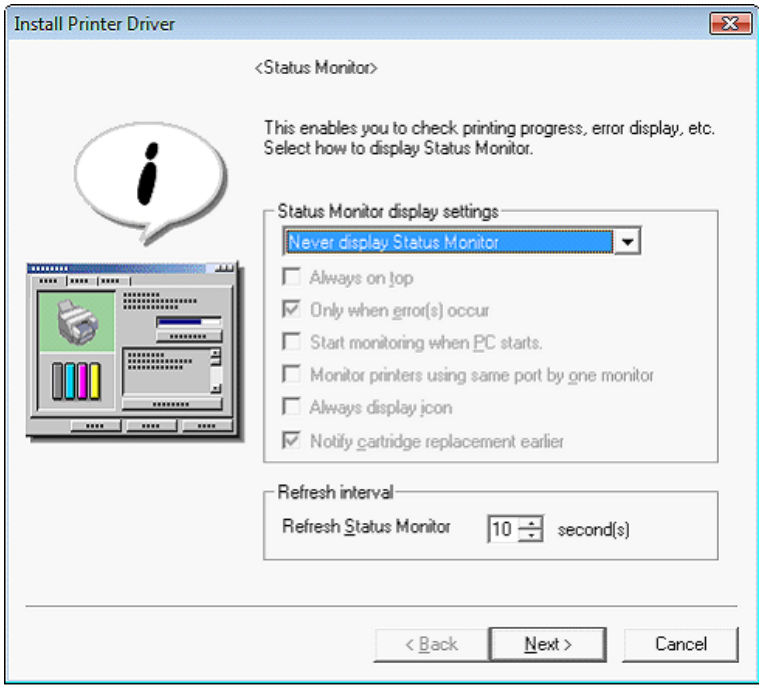


Figure 57 Status monitor

12 Deactivate the status monitor and click on [Next].

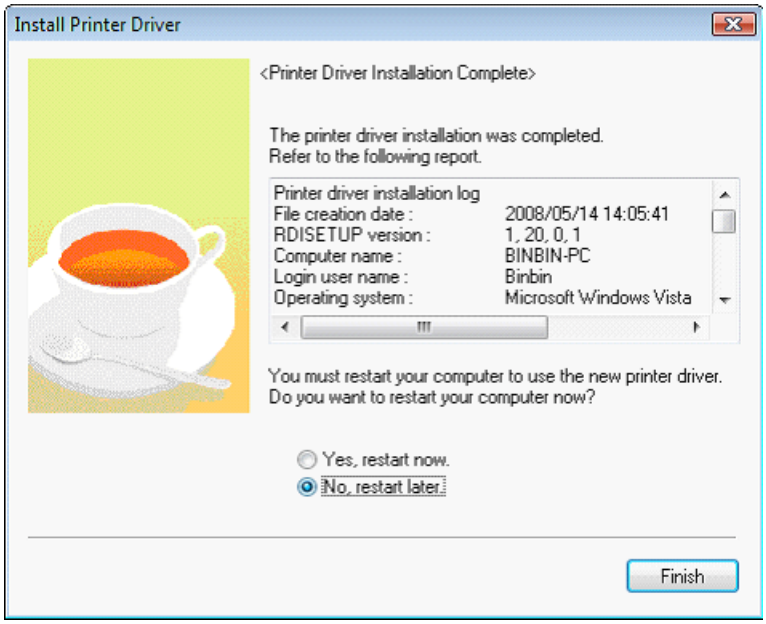


Figure 58 Installation of printer driver successful

13 Select the option shown above and click on [Finish].

14 Open Start-Control Panel and under "Hardware and Sound" select [Printer]. Select the printer which you have just installed and then click with the right mouse button on the [Properties] icon.

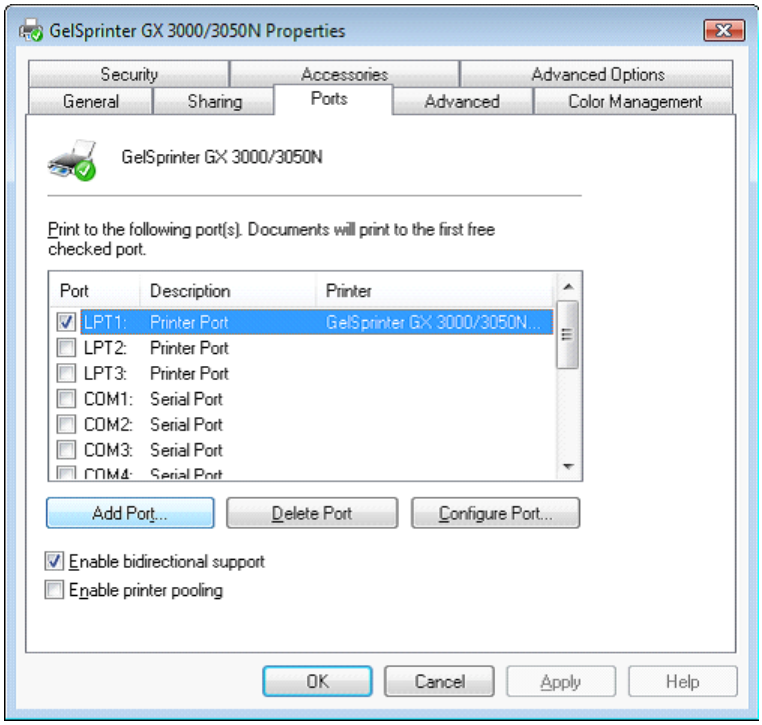


Figure 59 Printer driver properties

15 Click on the [Ports] tab and then on [Add Port].

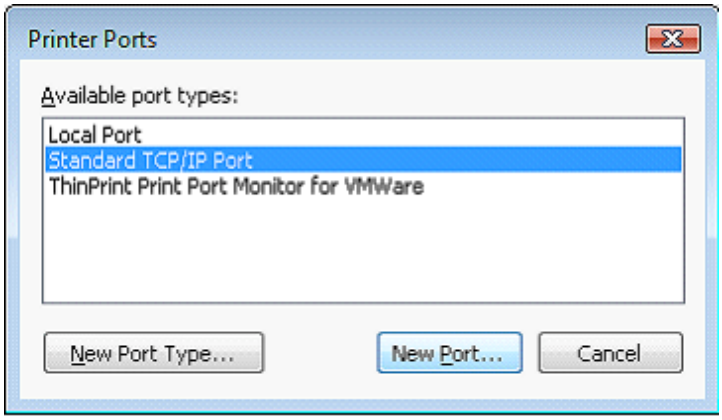


Figure 60 Printer connections

16 Select [Standard TCP/IP port] and [New Port].

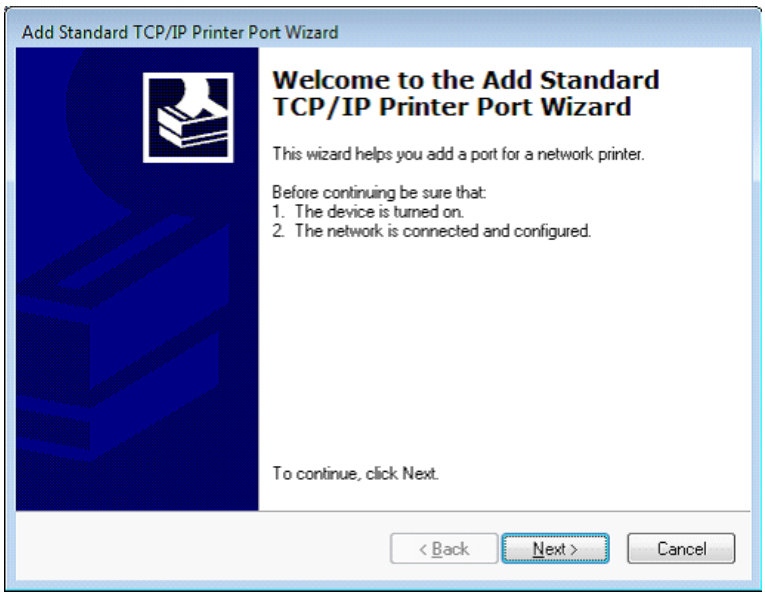


Figure 61 TCP/IP printer port

17 Click on [Next].

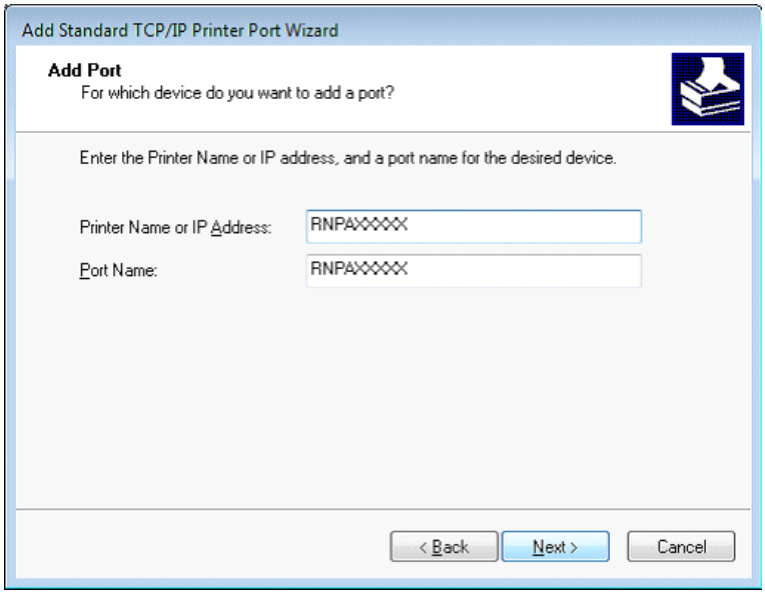


Figure 62 Add port

18 Enter the hostname (see above - RNPAXXXXX) of the printer in this window. (Here, XXXXX is the number of your printer.)

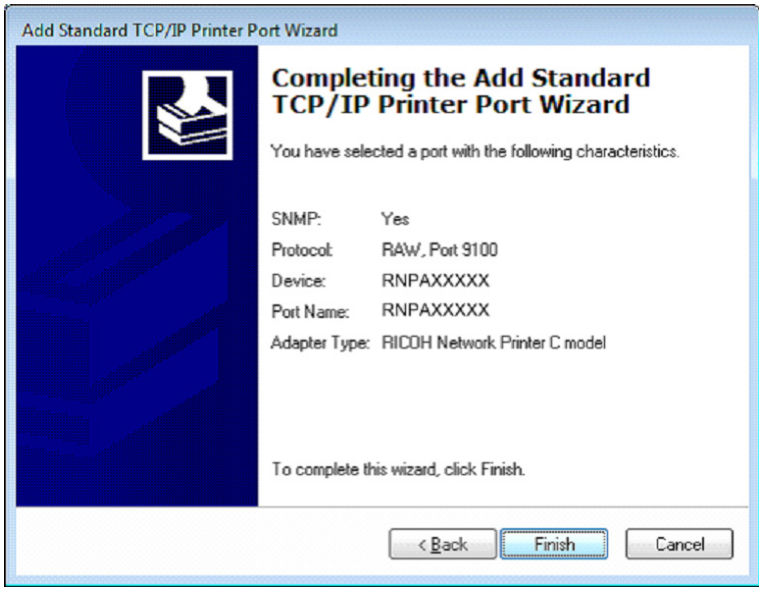


Figure 63 Exiting the Install Wizard

The connection is then added.

19 Verify that a connection to the selected printers exists in [Device].

20 In the dialog box for the finished installation, click on [Finish].

21 Close out the installation by re-starting the computer.

6. The M-Print® PRO Software

6.1 Installing the M-Print® PRO software 60
6.2 Activating the M-Print® PRO software 62
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6.5 Adjust marker type 67
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6.1 Installing the M-Print® PRO software

Please note that this printing system is optimized for Microsoft Windows 2000, XP and VISTA. For installation and operation, you require a basic knowledge of Microsoft Windows.

Before you begin with the installation of the software and the printer driver, insert the "Printer Driver & Software" CD-ROM (included in delivery) into the CD-ROM drive of your computer. The CD starts automatically and shows the following language selection.

Figure 64 Language selection – software installation

1 Please select your language and confirm your selection by clicking on the button ».

The following window is displayed.

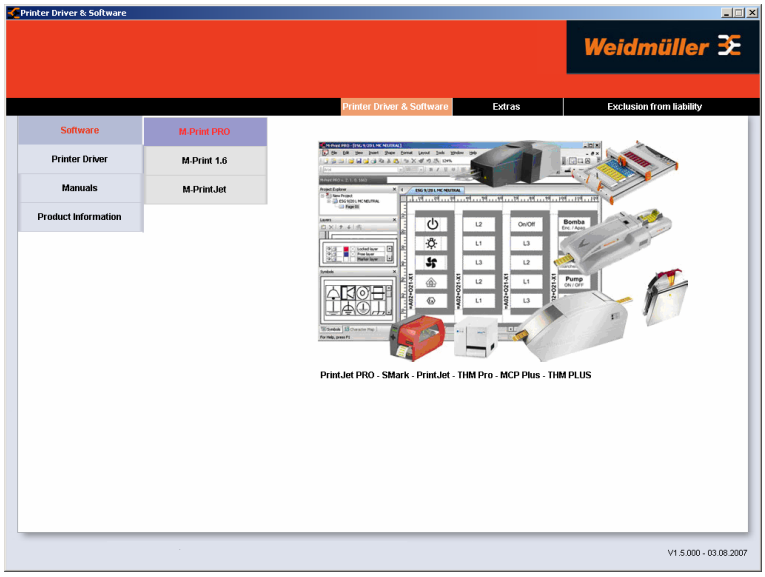

Figure 65 Selecting M-Print PRO

2 From the main menu of the "Printer Driver & Software" program, click on "Software" and then select the "M-Print PRO" menu choice.

3 The installation starts automatically and the installation assistant appears on the screen. Please follow the instructions in the installation assistant by clicking on the [Next] button.

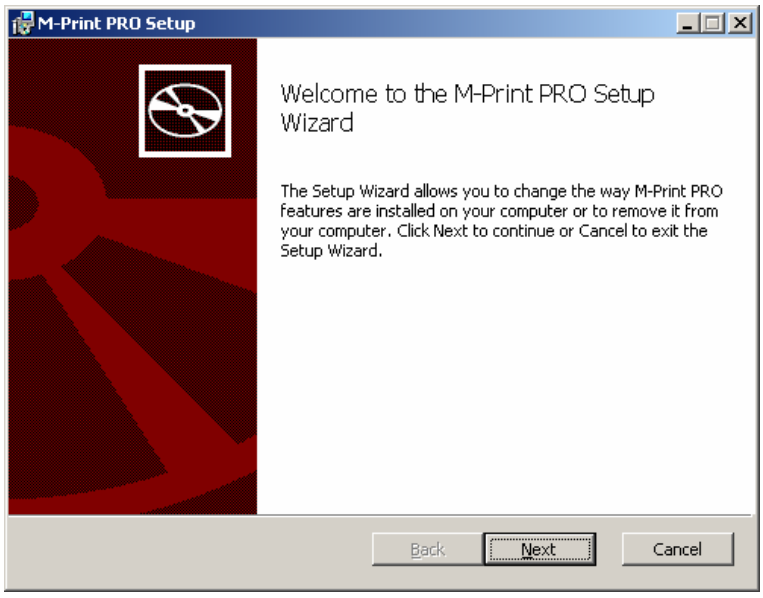

Figure 66 Installation wizard

4 After the installation successfully concludes, click on the [Finish] button.

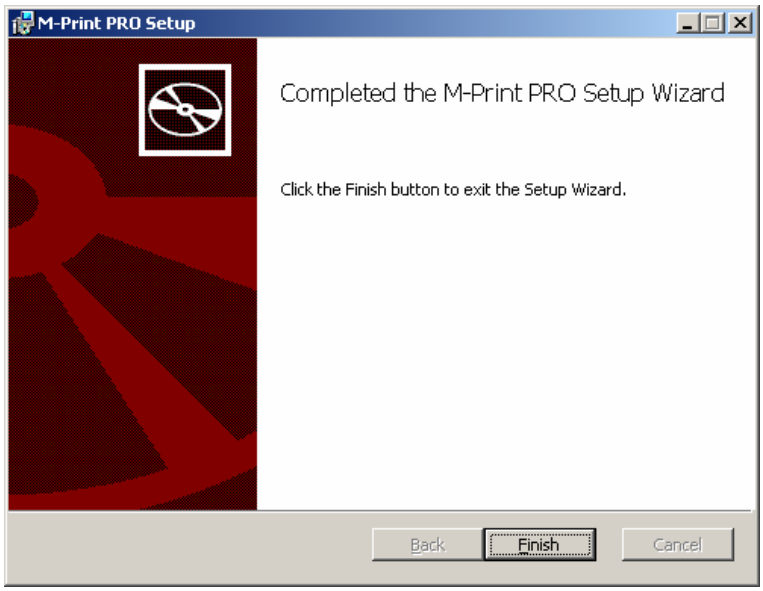

Figure 67 Completing installation

5 The software can now be started from its desktop icon, or from the selection → Start → Programs → Weidmüller → M-Print PRO.

6.2 Activating the M-Print® PRO software

The M-Print® PRO can be evaluated for a period of 30 days. The software must be activated within 30 days in order to enable all of the M-Print® PRO printer's functions beyond this period.

Please take the following steps:

1 Start the M-Print® PRO software by clicking on the program icon on the desktop or access the software by clicking on Start → Programs → Weidmüller → M-Print® PRO.

2 Select "Help" from the pull-down menu, and then click on "License key".

3 Select the full version and click on the "Next" button.

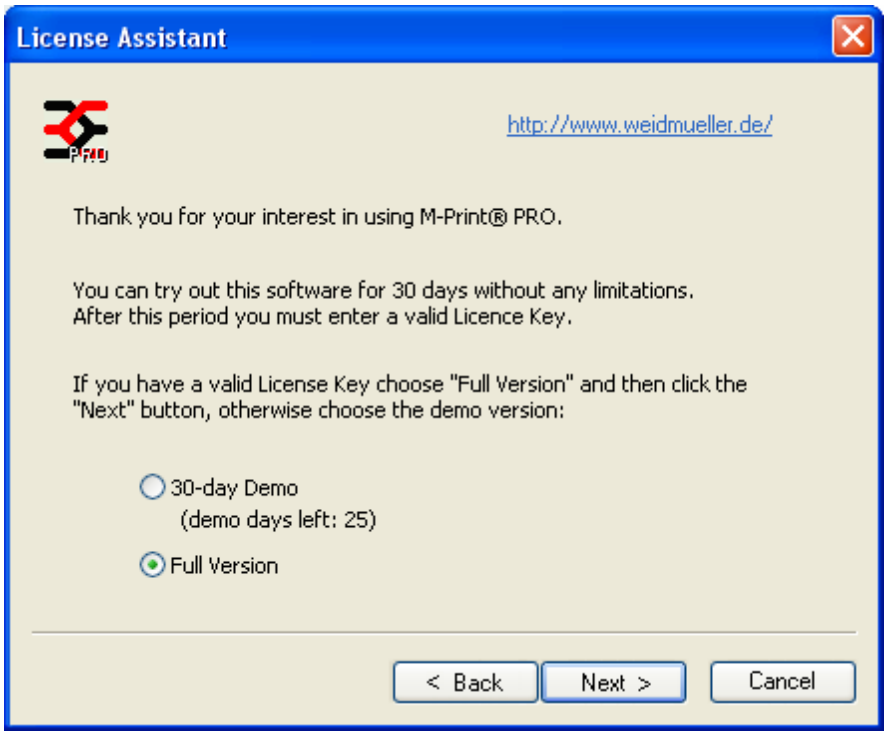

Figure 68 Activating M-Print PRO

4 Select "11 digit License Key" and then click on the "Next" button.

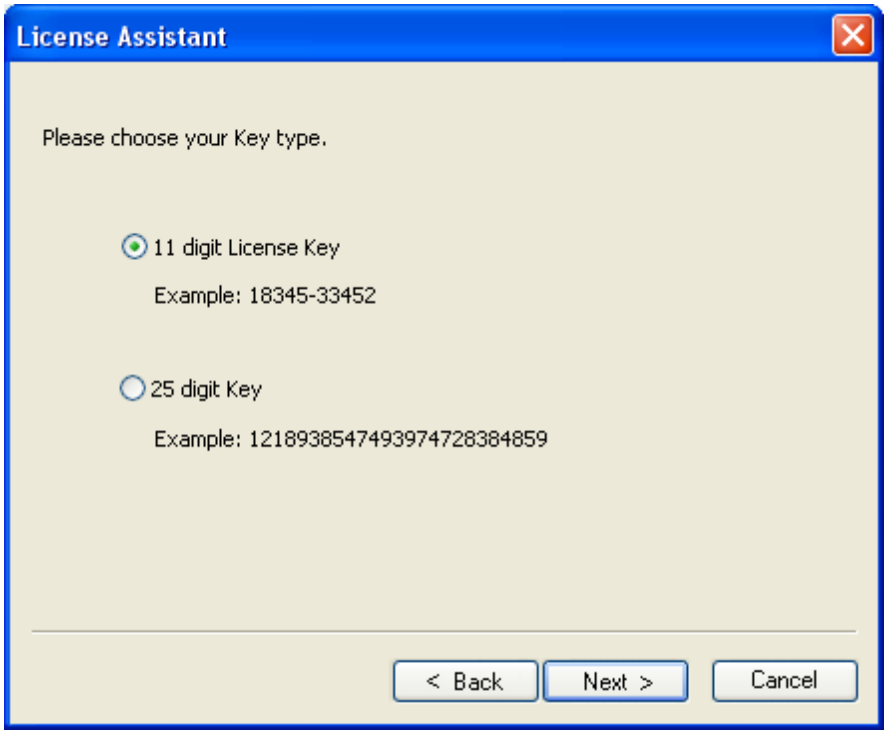

Figure 69 Licence key

5 Please enter the 11-digit "license key" found on the CD-ROM sleeve. Then click on the "Next" button.

If you register the software over the Internet you will receive additional information concerning software updates and new functions.

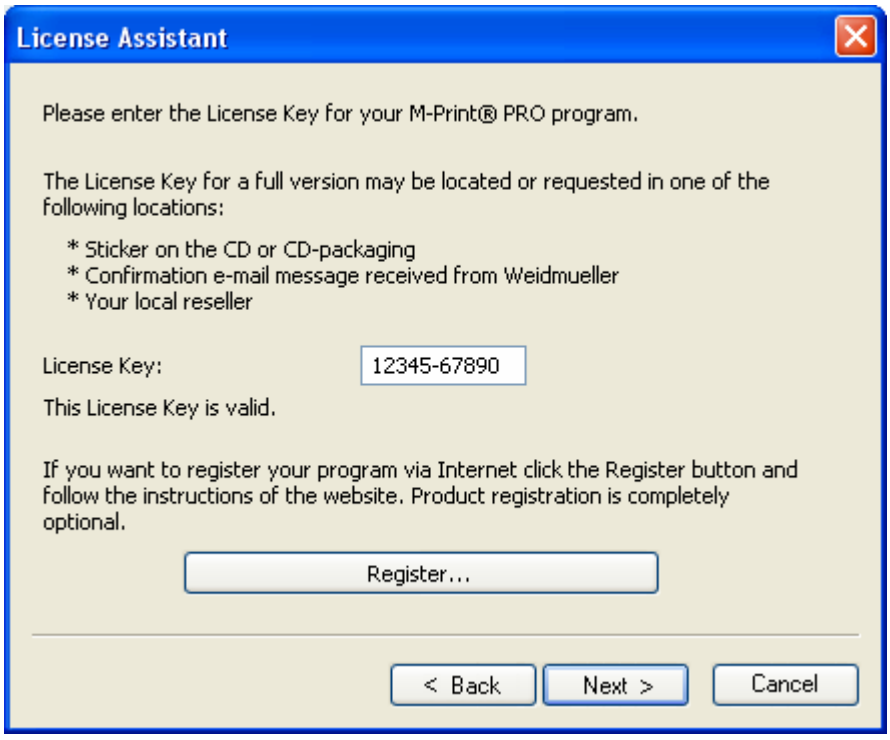

Figure 70 Registering

6 Click on the "Finish" button to finish the registration process.

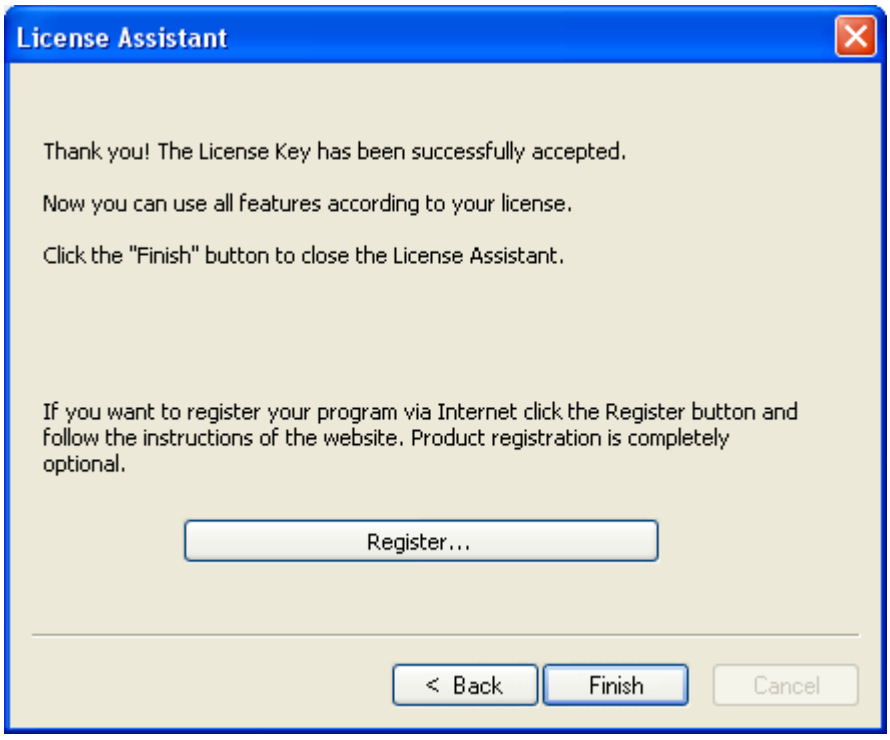

Figure 71 Completing installation

6.3 Printer driver settings

If you are not using M-Print® PRO, please contact your Weidmüller representative for additional information on these printer driver settings. The driver settings can be done directly in the M-Print® PRO software. Please take the following steps:

1 Select "Tools" from the menu pull-down, and then click on "Options".

2 In the Options window, click on the "PrintJet PRO" folder.

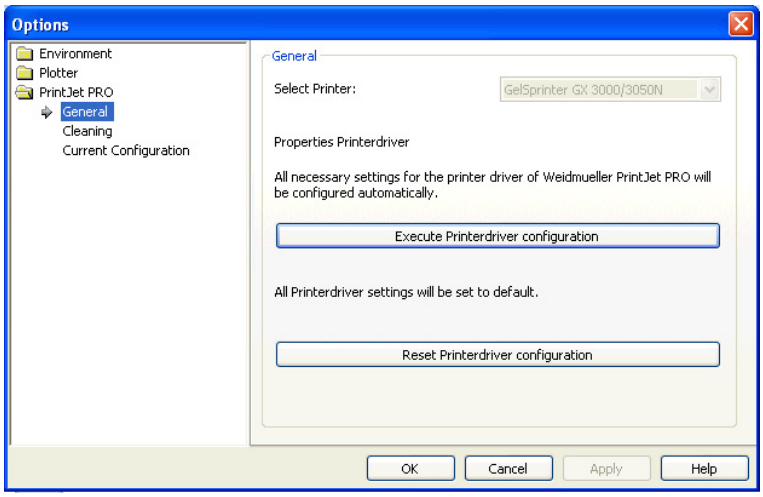

Figure 72 Configuring PrintJet PRO

3 Click on the button "Execute Printerdriver configuration".

4 Select the system type and confirm by clicking on [Next].

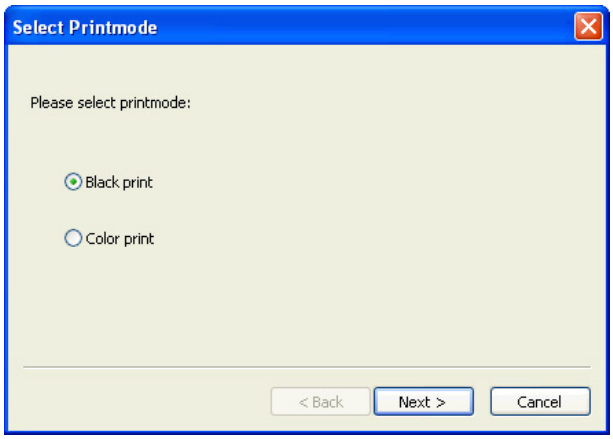

Figure 73 Selecting the print mode

5 If you have selected "color print", skip to step 7.

6 After selecting "Black print", select the correct slot where the black ink cartridge is located. Confirm your selection by clicking on [Next].

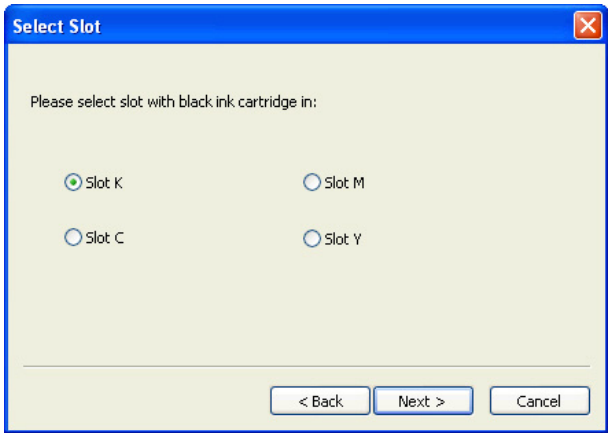

Figure 74 Allocating the black cartridge

7 Select the print quality. The recommended setting is "Standard quality". Please select "High quality" only when you will be printing intricate graphics. This will result in more ink usage and a slower print process.

8 Confirm the driver settings by clicking on the [Finish] button.

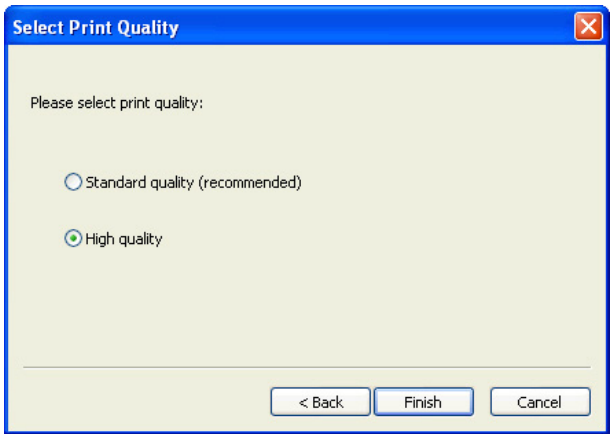

Figure 75 Selecting the print quality

6.4 Printer setup

The printer setup is intended for setting the precise zero point and for setting the different MultiCard types.

Please read and refer to the M-Print® PRO manual, found on the "Printer Driver & Software" CD, and the "Printer Setup" short guide, found in the M-Print® PRO directory. After the software installation these are available on your computer.

6.5 Adjust marker type

In order to compensate for physical changes to the MultiCards, you can measure in your marker type.

Please read and refer to the M-Print® PRO manual, found on the "Printer Driver & Software" CD, and the "Printer Setup" short guide, found in the M-Print® PRO directory. After the software installation these are available on your computer.

6.6 Cleaning the print head

The cleaning of the print head can be done directly from the M-Print® PRO software. Please take the following steps:

1 Select "Tools" from the menu pull-down, and then click on "Options".

2 In the Options window, click on the "PrintJet PRO" folder and then on the selection "Cleaning".

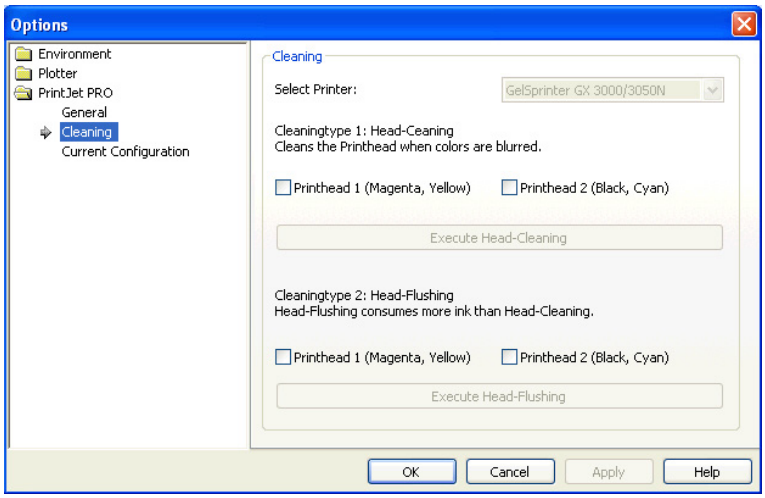

Figure 76 Print head cleaning option

6.6.1 Cleaning the print head

The cleaning process can clean the print head when the printed image appears blurred. Please take the following steps:

1 Select "Cleaningtype 1" and the corresponding ink-filled print heads.

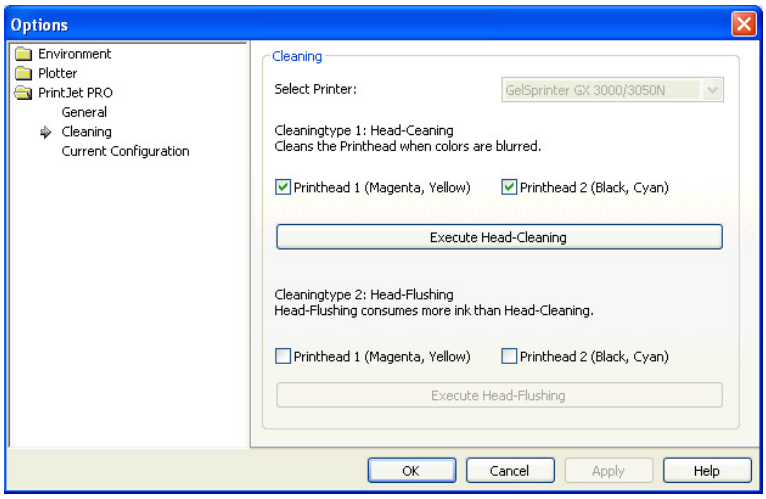

Figure 77 Cleaning the print head

2 Click on the button [Execute Head-Cleaning].

3 The cleaning process is initiated. This can take several minutes to run.

4 After the process has been executed by PrintJet PRO, print out a MultiCard and check the printing quality. Repeat this process if necessary or run through a complete head-flushing process.

6.6.2 Head flushing

The head-flushing process can clean the print head when the printed image appears very blurred. The cleaning process requires more ink than the head cleaning. Please take the following steps:

1 Select "Cleaningtype 2" and the corresponding ink-filled print heads.

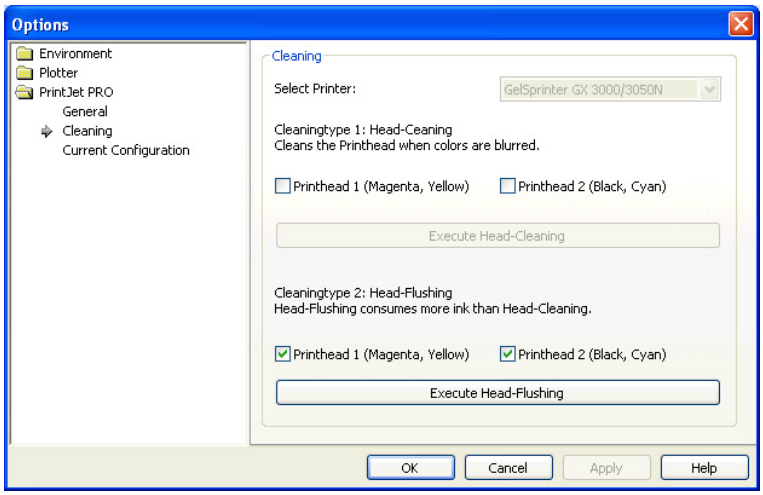

Figure 78 Thorough cleaning

2 Click on the button [Execute Head-Cleaning].

3 The cleaning process is initiated. This can take several minutes to run.

4 After the process has been executed by PrintJet PRO, print out a MultiCard and check the printing quality. Repeat the process if necessary.

7. The first time printing

7.1 Check list 72
7.2 Turning on the PrintJet PRO 72
7.3 Inserting the MultiCards in the PrintJet PRO loader 73
7.4 Heating settings 75

7.1 Check list

Overview of the necessary steps:

1 Start M-Print® PRO software.

2 Select marker and enter text.

3 Setup printer in M-Print® PRO.

4 Turn on PrintJet PRO.

5 Insert the MultiCards which correspond to the M-Print® PRO file in the PrintJet PRO loader.

6 On the PrintJet PRO select the correct fuser setting for the inserted MultiCards.

7 Start printing with M-Print® PRO.

A detailed description for using the M-Print® PRO software can be found in the manual located on the "Printer Driver & Software" CD.

7.2 Turning on the PrintJet PRO

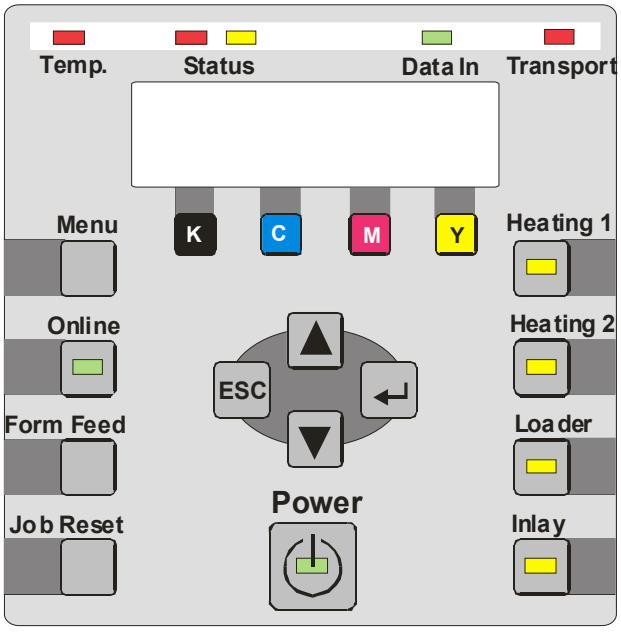

Figure 79 Display

1 Press the Power button.

NOTE

This activates the printing system!

The PrintJet PRO is then filled with ink.

This process can last between 6 to 10 minutes.

Make sure that a "Ready" message is then shown on the operating panel.

NOTE

Be sure to leave the printer on during this process. Make certain that the printer is not unplugged or that the filling process is not interrupted.

You will often hear a clicking noise as the print heads are being filled. These noises are normal and stop after a while.

After the print head is activated, the Power button stays illuminated and the display indicates "READY".

The system hardware is activated.

7.3 Inserting the MultiCards in the PrintJet PRO loader

NOTE

The PrintJet PRO Loader is suitable for use with Weidmüller MultiCards only.
Bent or broken side strips or markers can result in the loader malfunctioning.

Description of the MultiCard

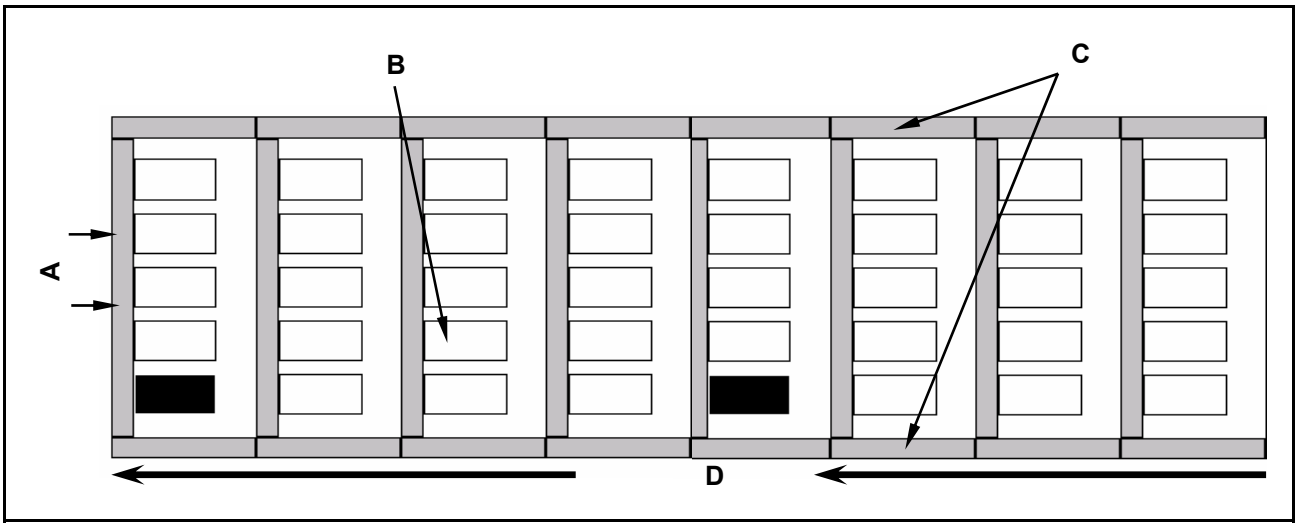

Figure 80 Description of MultiCard

A 1. Project marking surface
B Marking surface
C Side strips
D Feed-in direction

Insert as shown

Make sure the MultiCards are inserted in the correct way with the project marking surface facing towards the PrintJet PRO.

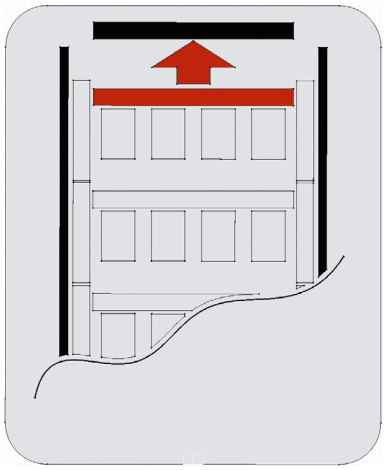

Figure 81 Insertion instructions

Insert the MultiCards into the loader so that they are laying flush with the end stop.

By pressing the "LOADER" button on the display, the lowest MultiCard is separated and taken into the system (in case that there is no other MultiCard on the transport mechanism).

NOTE

Do not exceed the maximum permitted stacking height when filling the loader.

You can insert complete or half Multi-Cards. Do not mix or alternate complete and half MultiCards.

Stacking heights

Do not stack the MultiCards above the height of the loader paper stop.

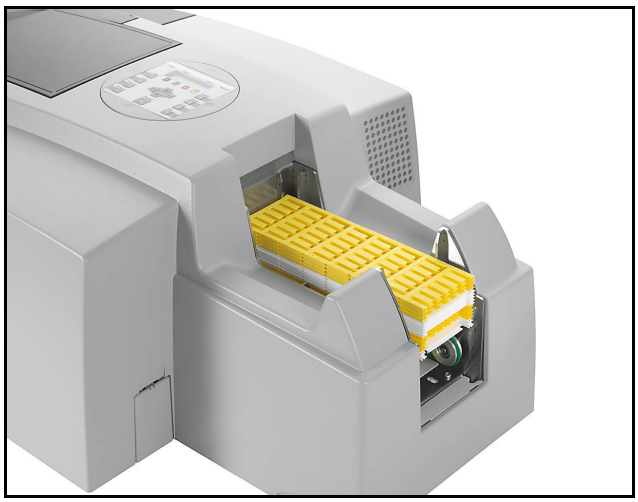

Figure 82 Stacking heights in the loader

NOTE

Under certain circumstances, the separation process may malfunction when the maximum amount of MultiCards is inserted. Remove a few of the Multi-Cards from the loader to rectify this problem.

After the first MultiCard has been transported into the printer, it is printed and fed out to the PrintJet PRO output rail. The next MultiCard is then separated out so that it can be fed in and printed.

If no MultiCards are in the loader during an automatic separation step, then the feed-in will fail and an error message will be displayed on the PrintJet PRO.

If this happens, re-load the loader and acknowledge the error message (flashing loader button) on the PrintJet PRO.

7.4 Heating settings

With some MultiCards it may be necessary to adjust the heating settings in order to optimize the printing quality. Take the necessary settings from the table if required.

Preliminary recommendation for field test printers:

If Heating 1 causes bubbles on the surface, please change to Heating 2

Marker - Type	Color	Fixing settings	
		600 dpi	1200 dpi
Terminal markers: DEK, WS, MF, ZS	White	H1	H1
	Yellow	H1	H1
	Red	H1	H1
	Blue	H1	H1
Terminal markers: WS Plus, DEK Plus, MF*	White	H2	H2
Equipment markers: ESG, SM, CC, DMC	White	H1	H1
	Silver	H1	H1
	Yellow	H1	H1
Equipment markers: ESG	Turquoise	H2	H2
Cable markers: V2: SF, SFX, TMI,	White	H1	H1
	Yellow	H1	H1
	Blue	H1	H1
	Red	H1	H1
	Green	H1	H1
Cable markers V2: SF	Yellow	H1	H2
Cable markers V2: SFC	all colors	H2	H2
Cable markers V0: SFX	all colors	H2	H2
Cable markers V0: SF1 bis SF 5	all colors	H2	H2
Cable markers V0: SF 6	all colors	H1	H2

Table 1 Heating settings

* without project field

NOTE

The required Fixing Settings are depending on markertype, -color, -material and operating time of the PrintJet PRO. Please check the wipe and scratch resistance in regular intervals.

NOTE

If a print job is unintentionally carried out without fusing it is possible send an 'empty' print job to the printer and set the correct fusing settings H1/H2.

The PrintJet PRO is now prepared for the first printing.

Start up a new print job with the M-Print® PRO software.

NOTE

Before printing, make sure to install the printer driver and the M-Print® PRO application program.

For more help here, please read the installation notes in Chapter 6.

8. Cleaning instructions

8.1 Cleaning the printer 78

8.1 Cleaning the printer

Clean the outside of the printer regularly.

Clean the printer housing by wiping it with a soft cloth that is either dry or moist.

If the dirt does not come off, wipe the printer next with a cloth moistened with a neutral cleaning agent. Follow this up by wiping with a moist cloth and finally with a dry cloth.

CAUTION!

Do not use volatile chemicals such as benzene, thinning fluid or insecticide on the printer. The use of such chemicals can result in damage to the printer including cracks or colour changes. If you use a cloth moistened with a cleaning agent, be careful that you only clean the outside of the device. None of the moisture should be allowed inside of the printer.

WARNING!

In order to avoid dangerous electric shock you should only clean the outside of the printer. Contact Weidmüller Service if the printer needs to be checked, adjusted or repaired.

Do not take the printer apart and do not try to conduct modifications or repairs by yourself.

In doing so you risk fire, electric shock, explosion or even loss of vision.

In addition, such actions would invalidate the warranty.

9. Maintenance

9.1 General maintenance 80
9.2 Maintenance via the display 80
9.3 Printing a nozzle test pattern 81
9.4 Head cleaning via the display 82
9.5 Head flushing via the display 83
9.6 Replacing the ink collector unit 84
9.7 Transport and shipment 85

9.1 General maintenance

If the printer will not be used for a prolonged period, turn off the printer. Then disconnect the USB cable, the Ethernet cable, and the power cord.

Please observe the following:

The print-head nozzles can become dried up or clogged. You should periodically use the printer in order to avoid such damage. The printer should be turned on once a week for a few minutes.

If you do not use the printer for a long time, always check first to see if the nozzles are clear.

Print out the nozzle-test pattern (→ Print nozzle test), from the internal maintenance menu on the printer (→ "Service" menu). If necessary clean the print heads (→ Clean print heads) and then start the printing.

If you do not use the printer for a long time, imperfections may then develop in the printing even if multiple print head cleanings are carried out. If this happens, shut down the printer for 30 minutes. Then turn on the printer again and run through a nozzle test and a print head cleaning.

NOTE

Dried-up ink will work free after the print heads have been cleaned multiple times. Normal printing should then be possible.

If even these multiple cleaning fails to help, contact The Weidmüller service or a sales representative.

9.2 Maintenance via the display

The "Maintenance" menu allows you to change printer maintenance settings, such as shading and brightness.

Nozzle Check

A sample test pattern can be printed to test if the ink is being correctly ejected from the print-head nozzles.

Head cleaning

It is possible to clean the print head.

This should be done whenever certain colours are being printed weakly or insufficiently. Ink is used during the cleaning of the print heads.

Head-flushing

You can clean the print head more thoroughly.

Since the head flushing uses more ink than the normal head cleaning, you should only undertake the complete cleaning when the normal cleaning method was insufficient to remedy your problem.

Adj.Paper Feed

If printed lines are horizontally misaligned or if images are printed unevenly, print the test pattern and adjust the paper feed setting.

Registration

You can print out a test pattern and adjust the print starting point.

Key Repeat

You can enable or disable repetition of an operation if a key on control panel is pressed continuously.

Paper Feed Test

You can eject a MultiCard without printing it.

De-condensation

In order to remove humidity from inside the printer, you should allow three MultiCards to be ejected without printing.

9.3 Printing a nozzle test pattern

In order to check if the print-head nozzles are clogged, proceed as described below. Print out a nozzle test pattern for this purpose. If necessary, apply paper over the marking surface. Then take out the side strips.

1 Press the [Menu] button.

2 Press the [▲] or [▼] button, in order to display [Maintenance]. Then press the [↵] button (enter).

M e n u : M a i n t e n a n c e

3 Press the [▲] or [▼] button, in order to display [Nozzle Check]. Then press the [↵] button (enter).

M a i n t e n a n c e : N o z z l e C h e c k

4 Press the [↵] button (enter).

A test pattern is then printed.

5 Press the [Online] button.

The output display is then shown.

P r e s s # t o p r i n t p a t t e r n

6 Check the printed test pattern.

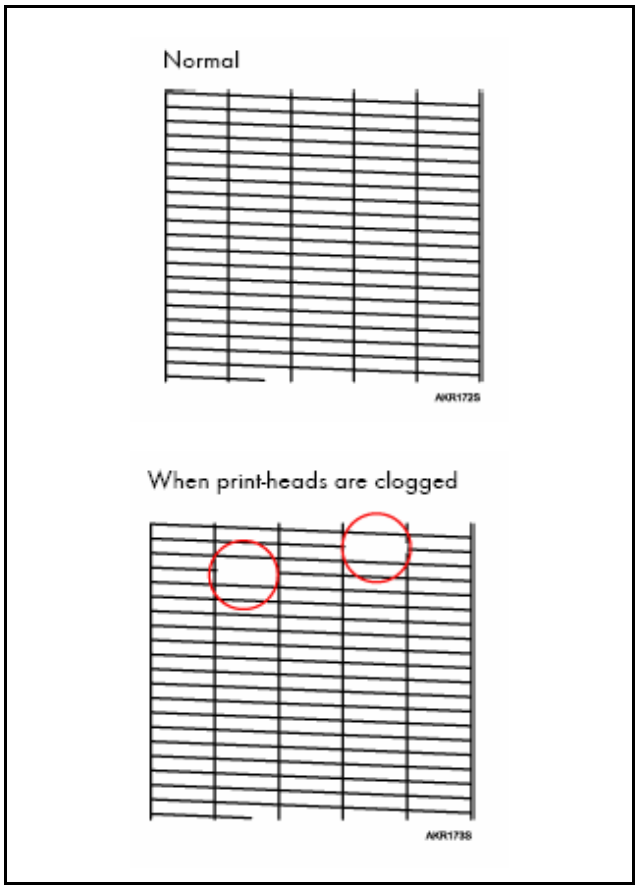

Figure 83 Test pattern

9.4 Head cleaning via the display

The head cleaning process can be executed via the corresponding function in the M-Print® PRO software.

Read Chapter 6 "The M-Print® PRO" for more information.

In order to execute a normal head cleaning, proceed as described below. Perform a head cleaning when a colour can not be printed or when the printout is smeared. Ink is used during the cleaning of the print heads.

NOTE

When the ink cartridge is empty, replace it instead of cleaning the print heads. After you replace an ink cartridge, the print heads will automatically be cleaned.

1 Press the [Menu] button.

2 Press the [▼] or [▲] button, in order to display [Maintenance]. Then press the [↵] button (enter).

```
Menu:
Maintenance
```

3 Press the [▼] or [▲] button, in order to display [Head cleaning]. Then press the [↵] button (enter).

```
Maintenance:
Head-cleaning
```

4 Press the [▼] or [▲] button, in order to select a colour. Then press the [↵] button (enter).

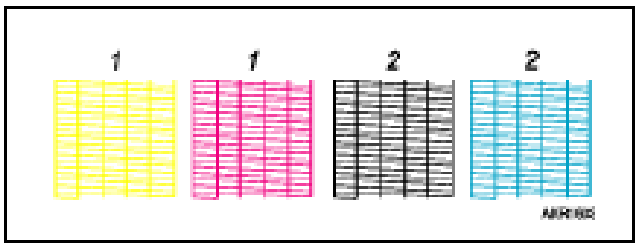

Figure 84 Test pattern – cleaning the print head

```
Head-cleaning:
All heads
```

1. Head 1
2. Head 2

5 Press the [↵] button (enter).

```
Press # to
clean heads
```

The head cleaning begins.

6 Press the [Online] button.

The output display is then shown.

NOTE

Repeat the cleaning procedure if the print results are not satisfactory. However it is possible that after multiple cleanings the print heads remain clogged and the printer still does not properly print. In this case, execute a complete head cleaning procedure. If the complete cleaning also does not solve the problem, shut off the printer and allow it to remain off for at least eight hours. Then turn it on again. The problem may be solved by the longer residence time of the fresh ink as it is flushed through the heads.

If there is still no improvement after the steps described above, please contact the Weidmüller service or a Weidmüller sales representative.

9.5 Head flushing via the display

The head flushing process can be executed via the corresponding function in the M-Print® PRO software.

Read Chapter 6 "The M-Print® PRO" for more information.

In order to execute a head flushing, proceed as described below. Since more ink is used during this process than in the normal cleaning, you should execute this cleaning process only when the problem remains after multiple normal head cleanings.

NOTE

When the ink cartridge is empty, replace it instead of cleaning the print heads. After you replace an ink cartridge, the print heads will automatically be cleaned.

1 Press the [Menu] button.

2 Press the [▼] or [▲] button, in order to display [Maintenance]. Then press the [↵] button (enter).

```
Menu:
Maintenance
```

3 Press the [▼] or [▲] button, in order to display [head flushing]. Then press the [↵] button (enter).

```
Maintenance:
Head-flushing
```

4 Press the [▼] or [▲] button, in order to select a colour. Then press the [↵] button (enter).

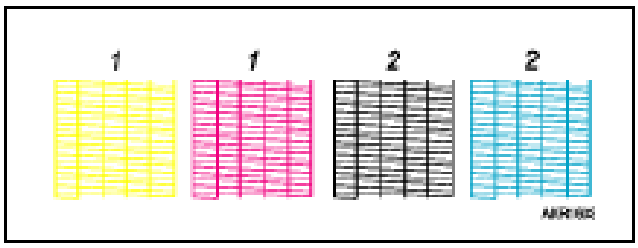

Figure 85 Test pattern – thorough cleaning

```
Head-flushing:
All heads
```

1. Head 1
2. Head 2

5 Press the [↵] button (Enter).

```
Press # to
flush heads
```

The head flushing begins.

6 Press the [Online] button.

The output display is then shown.

9.6 Replacing the ink collector unit

NOTE

Please dispose of properly by returning to an authorised dealer or taking to an appropriate collection point. Please ensure you observe local regulations if you dispose of the full ink collector unit yourself.

CAUTION!

Keep full ink collector units away from children.

If the ink comes into contact with your eyes wash out immediately with fresh running water. Contact a doctor if you have problems with your eyes.

If the ink comes into contact with your skin wash the affected area thoroughly with soap and water.

If you swallow ink rinse your mouth and drink plenty of water Do not force yourself to be sick.

NOTE

Ensure that no coloured ink comes into contact with your clothes when washing the ink collector unit.

Use the gloves included in the range of supply when replacing the ink collector unit.

Replace the ink collector unit if the following message is issued in the display:

```
Replace Ink
Collector Unit
```

1 Switch off the device.

2 Remove the new ink collector unit from the packaging (Article number: 1024140000). Use the gloves included in the range of supply!

3 Remove the full ink collector unit from the printer.

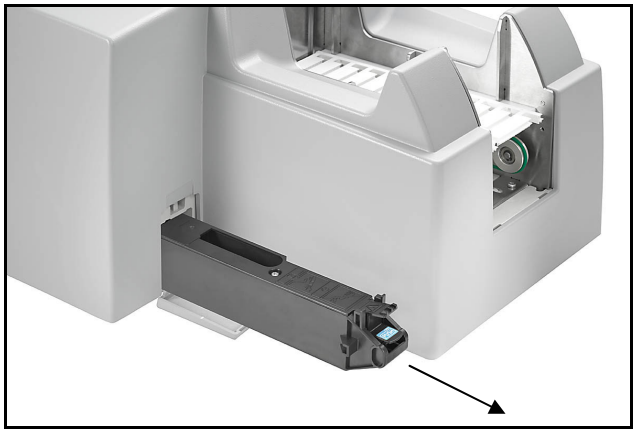

Figure 86 Replacing the ink collector unit

4 Place the full ink collector unit into the polybag included in the range of supply.

5 Insert the new ink collector unit into the printer as far as it will go.

6 Close the cover so that it snaps firmly into place.

7 Switch on the device.

8 A message in the printer display requests you to reset the internal counter or the display continues to display the message:

```
Replace Ink
Collector Unit
```

9 Press the [Menu] key

10 Use the arrow keys to select 'System' then press 'Enter'.

11 Confirm the following display texts:

```
Menu:
System
```

```
System:
Ink CU Replace
```

```
Overflow may
occur if Unit is
```

```
not replaced.
Reset counters?
```

```
Reset complete
Power Off/On
```

12 Switch the device off then on again.

You can return the full ink collector unit to Weidmüller for disposal.

9.7 Transport and shipment

NOTE

Please do not throw away the original packaging.

Always use the original packaging when transporting the printer over long distances (for example moving or returning). Only then can the maximum protection for the printer during transport be guaranteed.

Preparation:

1 Turn off the printer.

2 Unplug all cables (power cord, interface cable) from the printer.

3 Remove the remaining MultiCards from the loader.

4 Remove the ink waste pad and pack this in a sealable plastic bag. Enclose this along with the printer.

5 Place the moulded packaging inserts along the sides.

6 Place the printer carefully into the box. Be certain to lift the printer using only the recessed grips provided.

7 Close and seal the box.

NOTE

If you no longer have the original packaging, you can order the packaging kit from Weidmüller with order number 1027530000.

10. Troubleshooting

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10.1 Troubleshooting

10.1.1 LED error displays

LED		Cause	Troubleshooting / INFO
Transport	Flashing	A MultiCard may be stuck in the heating unit.	Turn off the system and then turn it on again in order to initialize. The MultiCard is then transported out of the printer. If the card is not fed out of the printer, proceed as follows: Turn off the printer and wait until it has cooled off. Unplug the power cord. If possible remove the MultiCard from the system. Restart the system. If the problem remains, please contact the Weidmüller service or a sales representative.
Temperature	Flashing	Excess temperature was reached	The heater is shut off immediately. Wait until the heating unit has cooled off. When the heating unit is cooled off, the system will be automatically reactivated. If the error occurs again, contact Weidmüller customer support or a sales representative.
	Illuminated	Upper temperature limit has been reached.	The heating unit has reached a limit value. The current print job is finished. The next print job is then delayed for safety reasons, but then automatically processed.
Heating 1	Flashing	The heating unit is currently heating up.	Wait until the unit has reached its operating temperature (< 1 minute).
Heating 2	Flashing	The heating unit is currently heating up.	Wait until the unit has reached its operating temperature (< 1 minute).
Heating 1 and Heating 2	Both not illuminated	The heating unit is not activated.	Fusing is deactivated. This setting can be used for sample test printing or for measuring the system without print fusing.

LED		Cause	Troubleshooting / INFO
Loader	Flashing	No MultiCard could be separated and fed in.	Insert MC and press the "Loader" button.
	Illuminated	Loader mode is activated.	
	Off	Loader mode is not activated.	
Inlay	Flashing	No inlay or MultiCard could be fed in.	Place an inlay on the conveyor and press the Inlay button.

Table 2 LED error displays

10.1.2 General troubleshooting

The print results are not satisfactory. The printed image is too weak or is spotted.

Check the printer status.

Check the printer status

Did you print out the nozzle test pattern?

Print out the nozzle test pattern in order to check if all print-head nozzles are emitting ink properly. If necessary, carry out a normal print head cleaning or a head flushing. Proceed as described below:

1. Print out the nozzle test pattern (refer to Chapter 9 "Maintenance").
2. If the printed test pattern indicates errors, you should carry out a head cleaning (refer to Chapter 9 "Maintenance") and then print out the test pattern again.
3. Carry out these steps (head cleaning and printing the test pattern) a few more times. Then check if the test pattern continues to show errors.
4. If the printed test pattern indicates errors, you should carry out a head flushing (refer to Chapter 9 "Maintenance") and then print out the test pattern again.

Has the printer been unused for a long time?

It is then possible that the ink has dried up or that the print-head nozzles are clogged. Print out the nozzle test pattern and clean the print heads if necessary (refer to Chapter 9 "Maintenance").

Is the printed image unclear or doubled?

In this case, please contact The Weidmüller service.

Is there a problem with the printer location?

Make sure that the printer is situated on a flat even surface. The printer should be located at a site that is free from vibration or excessive forces.

A MultiCard becomes stuck / caught in the device

Switch off the device then switch it on again. The card caught in the device will be transported out of the device.

The print is irregular, either too strong or too weak.

If there is a problem with the print quality, such as irregular print or inappropriate ink quantity, the following issues should be addressed:

- **Is an old ink cartridge being used?**
  Ink cartridges should only be used before the expiration date.
- **Is the paper-type setting correct?**
  Using the M-Print® PRO software, make sure that the printer driver is set correctly to either Standard or Quality.

Dirty or spotted printouts

If the printed marking surface is dirty or spotted, focus on the following:

- **Have you touched the unprinted MultiCard?**
  Avoid touching the unprinted marking surface before the printing process.
- **Are the MultiCards aligned correctly?**
  Verify the alignment of the inserted MultiCards.
- **Is an original Weidmüller ink cartridge being used?**
  If you do not use an original Weidmüller ink cartridge, or if you are using a refilled cartridge, the print quality can worsen and functional problems can result. Only use original Weidmüller ink cartridges.

Check the settings for the printer driver

If a problem occurs with regard to the printer status, use M-Print® PRO to check the printer driver (please refer to Operating Instructions M-Print® PRO).

Opening the maintenance cover during printing

Printing will be aborted if the maintenance cover is opened when the printer is printing. After the cover is closed printing will resume briefly and then be aborted. The card will be fed forward, but remains in the device. A transport error will be signalised via the display (blue LED will light up).

Switch off the device then switch it on again. The card caught in the device will be transported out of the device.

Opening the ink tank cover during printing

Printing will be aborted if the ink tank cover is opened when the printer is printing. After the cover is closed printing will resume briefly and then be aborted. The card will be fed forward, but remains in the device. A transport error will be signalised via the display (blue LED will light up). The ink tank status indicators will change to empty. The printer will automatically reinitialise the ink tank system (takes up to 2 minutes).

Switch off the device then switch it on again. The card caught in the device will be transported out of the device.

10.1.3 Error and status messages on the display

This section describes the meaning of the display messages, and what can be done when a message appears on the display.

Power Off On / Call Service if error reoccurs

An error has occurred.

Switch the printer off and then on again. If the message is still displayed, contact your The Weidmüller service or sales representative.

Ready

The printer is able to print.

Printing...

Printer is currently printing.

Close Duplex Unit Cover

A cover or lid is opened. Close all covers and lids.

Close Top Cover or reset the Duplex Unit correctly

A cover or lid is opened. Close all covers and lids.

When this does not solve the problem, contact your The Weidmüller service or sales representative.

Change Setting Tray #/

The paper format in the selected loader does not correspond to the specified paper format.

Reset the driver settings using the M-Print® PRO software.

Setting change

The printer is changing its settings. Please wait for a moment.

Energy Saver

The printer is in low-energy mode. The printer is ready for use.

Loading Ink...

Ink is being supplied. Please wait for a moment.

Ink Collector almost full

The ink waste pad is almost full.

Make sure that a new ink waste pad is readily available.

Ink Collector is full/Replace Ink Collector Unit

The ink waste pad is full. Replace it with a new one.

Read Chapter 9.6 “Replacing the ink collector unit” for more information.

Network Interface Board Error

An error in the network interface board network function has occurred. Do the following:

1 Turn off the printer.

2 Switch on the printer again.

If the message is still displayed, contact your The Weidmüller service or sales representative.

Guide Board is open/Close the Guide Board

Close all covers and lids.

Hardware Problem Ethernet

An error in the network interface board (ethernet board) network function has occurred.

Resetting Job...

The printer is initializing a new print job.

Please wait for a moment.

Close Top Cover or reset the Duplex Unit correctly

A cover or lid is open or not seated correctly. Close all covers and make sure they are all seated correctly.

Offline

The printer is offline. The printer must be switched to online before printing.

Load Paper: Tray# or Form Feed

The loader is empty or the print system is currently heating up.

Fill the loader.

Remove Misfeed Bypass

Reset the driver settings using the M-Print® PRO software. This will re-establish the correct settings.

Remove Misfeed Duplex

Reset the driver settings using the M-Print® PRO software. This will re-establish the correct settings.

Remove Misfeed Tray 1

There is a paper jam in the loader. Clear the jam in the loader.

Remove Misfeed Top Cover

Reset the driver settings using the M-Print® PRO software. This will re-establish the correct settings.

Right Front Cover is open/Close Right Front Cover

A cover or lid is opened. Close all covers and lids.

Remove Misfeed Output

Reset the driver settings using the M-Print® PRO software. This will re-establish the correct settings.

Remove Misfeed Guide Board

Reset the driver settings using the M-Print® PRO software. This will re-establish the correct settings.

Temp. alert Please wait...

The printer is either too hot or too cold and can not start up. Wait until "Ready" appears in the operating panel.

Ink depleted

The inserted ink cartridge is empty.

Replace the ink cartridge.

Reset Cartridge

No ink cartridge has been installed. Properly install the ink cartridge.

Dry Waiting...

Reset the driver settings using the M-Print® PRO software (refer to the M-Print® PRO manual).

Cannot use High Temp./Power Off On

The temperature is abnormally high.

Turn the printer off and then on again. If the message is still displayed, contact your The Weidmüller service or sales representative.

Cannot use Low Temp./Power Off On

The temperature is abnormally low.

Turn the printer off and then on again. If the message is still displayed, contact your The Weidmüller service or sales representative.

Waiting...

Please wait for a moment.

Maintenance in process...

The printer is currently cleaning or flushing the print head. Please wait for a moment.

Low Ink

The ink is running out. Replace the ink cartridge.

Appendix

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Appendix A: Technical data

Technical data	
Application:	Printing Weidmüller MultiCards
Technology:	Ink-jet process with heat fusing
Printing quality:	600 dpi to 1200 dpi
Printer drivers:	RPCS driver; WIN XP/ 2000; Vista;
Printing software:	M-Print® PRO recommended
System requirements:	WIN XP/ 2000; Vista;
Feed:	Automatic loader (max. 20 MultiCards)
Interfaces:	USB 1.1 / 2.0 and 10 Base -T /100 Base -TX
Power supply:	AC 220 – 240 V / 4 A , 50/60 Hz or AC 100-120 V / 8 A , 50/60 Hz
Fuses:	Top fuse: 10 A / delay-acting fuse 240/120 V Lower fuse: 2.5 A / fast fuse 240/120 V
Operating location:	Office conditions
Ambient temperature:	20 ° - 35 °C / 68 ° - 95 °F
Dimensions (L x W x H):	**approx. 1060 x 500 x 300 mm (without output rail)**
Weight:	approx. 32 kg
Ink system:	Depending on model, black or colour system Black system → 1 x black; 3 x fluid colour system → 1 x each of black; cyan; magenta; yellow
Range:	25 ml for each ink cartridge (approx. xxxx characters of Arial 7 font)
Included in delivery:	Power cord, USB cable, printer drivers, installation instructions, Printer driver & Software CD, output rail, 2 x DEK 5/5 MultiCards

Table 3 Technical data

Appendix B: Ordering data

Designation	Article order number
PrintJet PRO 230V	1001180001
PrintJet PRO 115V	1024050000
PJ PRO TNTK INK SET BK Black starter set kit: 1 x black, 3 x fluid	1027090000
PJ PRO TNTK INK SET COL Colour starter set kit: 1 x each of black; cyan; magenta; yellow	1027110000
PJ PRO TNTK INK K Black ink cartridges	1027040000
PJ PRO TNTK INK C Cyan ink cartridges	1027050000
PJ PRO TNTK INK M Magenta ink cartridges	1027060000
PJ PRO TNTK INK Y Yellow ink cartridges	1027070000
PJ PRO TNTK FL Fluid ink cartridges	1027080000
PJ PRO TNAW Ink waste pad	1024140000

Table 4 Ordering data

Appendix C: CE Declaration

EG-Konformitätserklärung
EC Conformity Declaration

Weidmüller

Dokument-Nr./Monat/Jahr
Document no./month/year: **PTPVCM K006/05/08**

Hersteller / manufacturer: **Weidmüller Interface GmbH & Co. KG**

Anschrift / address: **Klingenbergstr. 16**
D-32758 Detmold

Produktbezeichnung
Product designation: **1001180001 PrintJet PRO 230V**
1024050000 PrintJet PRO 115V

Das bezeichnete Produkt stimmt mit den Vorschriften folgender EG Richtlinie(n) überein:
The designated product conforms to the provisions of the following EC directive(s):

2006/95/EG	Richtlinie des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten betreffend elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen.
2006/95/EC	Council Directive on the harmonization of the laws of the Member States relating to the equipment designed for use within certain voltage limits.

Anbringung der CE-Kennzeichnung / affixing of the CE marking [1] **08**

2004/108/EG	Richtlinie des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über die elektromagnetische Verträglichkeit.
2004/108/EC	Council Directive on the harmonization of the laws of the Member States relating to electromagnetic compatibility.

Weitere Angaben über die Einhaltung der Richtlinie(n) enthält der Anhang.
For further information about compliance with this (these) directive(s), see annex.

Detmold, den 15.05.2008
Ort, Datum / place, date

Rechtverbindliche Unterschrift / legally binding signature

Leiter Portfolio Markierungssysteme

Name und Funktion der zur Unterschrift berechtigten Person
name and function of the signatory empowered to bind the manufacturer

Der Anhang ist Bestandteil dieser Erklärung. Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, beinhaltet jedoch keine Zusicherung von Eigenschaften. Die Sicherheitshinweise der mitgelieferten Produktdokumentation sind zu beachten.
The annex is integral part of this declaration. This declaration certifies compliance with the indicated directives but no warranty of properties. The safety instructions of the accompanying product documentation shall be observed.
[1] Nur nach der Niederspannungsrichtlinie / Only for the LVD

PTPVCM K0060508.doc

Anhang zur EG-Konformitätserklärung
Annex to the EC Conformity Declaration
Dokument-Nr./document no. PTPVCM K006/05/08

Weidmüller

Produktbezeichnung Product designation	**1001180001 PrintJet PRO 230V** **1024050000 PrintJet PRO 115V**

Die Übereinstimmung der bezeichneten Produkte mit den Vorschriften der Richtlinie **2006/95/EG** wird nachgewiesen durch die vollständige oder teilweise Einhaltung folgender Normen und Bestimmungen:
The conformity of the designated products of Directive **2006/95/EC** is proved by fully or partly[1)] compliance with the following standards:

Harmonisierte Europäische Normen / harmonized European standards:

Referenznummer Reference number	Ausgabedatum Date of issue	Referenznummer Reference number	Ausgabedatum Date of issue
EN 60950-1	2006		

Die Übereinstimmung der bezeichneten Produkte mit den Vorschriften der Richtlinie **2004/108/EG** wird nachgewiesen durch die vollständige Einhaltung folgender Normen und Bestimmungen:
The conformity of the designated products of Directive **2004/108/EC** is proved by fully compliance with the following standards:

Harmonisierte Europäische Normen / harmonized European standards:

Referenznummer Reference number	Ausgabedatum Date of issue	Referenznummer Reference number	Ausgabedatum Date of issue
EN 55022	2006	EN 61000-3-3	1995
EN 55024	1998	+ Amendment A1	2001
+ Amendment A1	2001	+ Amendment A2	2005
+ Amendment A2	2003		
EN 61000-3-2	2006		

[1)] Nur nach der Niederspannungsrichtlinie / Only for the LVD

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