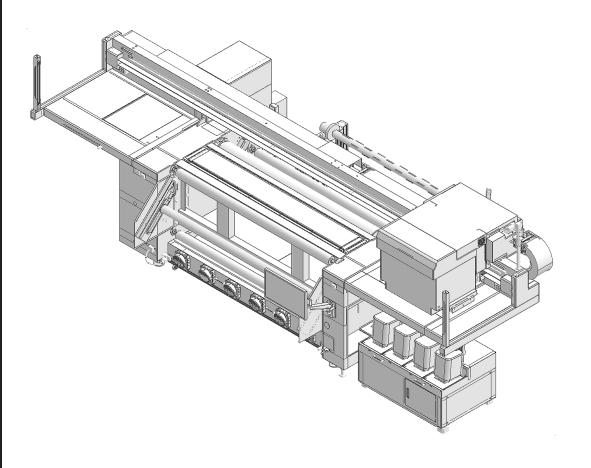
**INKJET PRINTER** 

# Tiger600-1800T5

**Operation Manual** 



You can also download the latest manual from official website.

MIMAKI ENGINEERING CO., LTD.

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# Introduction

Thank you for purchasing the Inkjet printer Tiger600 Series.

Read this operating manual ("this document" hereinafter) thoroughly and make sure you understand its contents to ensure safe and correct use of the product.

Please note that the illustrations contained in this manual are intended to show functions, procedures, or operations and may sometimes differ slightly from the actual machine.

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- MIMAKI ENGINEERING REJECTS ALL LIABILITY FOR DAMAGE ARISING DIRECTLY OR INDIRECTLY FROM THE USE OF THE Tiger600 Series ("THIS MACHINE" HEREINAFTER), WHETHER OR NOT THE PRODUCT IS FAULTY.
- MIMAKI ENGINEERING REJECTS ALL LIABILITY FOR DAMAGE, DIRECT OR INDIRECT, TO MATERIALS CREATED WHILE USING THIS MACHINE.
- USING THIS MACHINE IN CONJUNCTION WITH DEVICES OTHER THAN THOSE RECOMMENDED BY MIMAKI ENGINEERING MAY RESULT IN FIRE OR ACCIDENTS. SUCH INCIDENTS ARE NOT COVERED BY THE PRODUCT WARRANTY. MIMAKI ENGINEERING REJECTS ALL LIABILITY FOR DAMAGE, DIRECT OR INDIRECT, ARISING FROM SUCH INCIDENTS.
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  PRODUCTS MAY RESULT IN FAILURES OR REDUCE PRINT QUALITY. SUCH INCIDENTS ARE
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#### TV and radio interference



 The machine emits high-frequency electromagnetic radiation while operating. Under certain circumstances, this may result in TV or radio interference. We make no guarantee that this machine will not affect special radio or TV equipment.

If radio or TV interference occurs, check the radio or TV reception after turning off the machine. If the interference disappears when the power is turned off, the machine is likely to be the cause of the interference.

Try any of the following solutions or combinations of these solutions:

- Change the orientation of the TV or radio antenna to find a position where interference does not occur.
- Move the TV or radio away from this machine.

# To Ensure Safe Use

# **Symbols**

In this manual, symbols indicate and explain precautions. Make sure you fully understand the meaning of each symbol and use the machine safely and correctly.

	Explanation			
<b>∆WARNING</b>	Warning Indicates a potential hazard that may result in death or serious injuit handled improperly or if instructions are disregarded.			
<b>△ CAUTION</b>	Caution	Indicates a potential hazard that may result in minor or moderate injury if handled improperly or if instructions are disregarded.		
Notice Indicates a potential hazard that may result in property damage i handled improperly or if instructions are disregarded.		Indicates a potential hazard that may result in property damage if handled improperly or if instructions are disregarded.		
Warning sign Indicates something that requires attention. Warning specifics a drawn inside the symbol.		Indicates something that requires attention. Warning specifics are drawn inside the symbol.		
0	Mandatory action sign	Indicates an action that must be carried out. The specifics of the mandatory action are drawn inside the symbol.		
Prohibition sign Indicates a prohibited action. The specifics of the prohare drawn inside the symbol.		Indicates a prohibited action. The specifics of the prohibited action are drawn inside the symbol.		
(Important!)	Important	Indicates important information related to use of this machine.		
	Tip	Indicates useful reference information.		
(A)	Reference information	Indicates the corresponding page for related information.		

# **Explanation of ink icons**



• Ink icons are shown for items where differences exist between ink types.





• Ink icons are not shown for items where the details are the same for all ink types.

# **Usage Precautions**

#### In the event of abnormal conditions

# **↑** WARNING



 In the event of abnormal conditions such as smoke or unusual odor, turn off the main power immediately and turn off the breaker. Continuing to use the machine under these conditions may result in failure, electric shock, or fire. Once you have confirmed that smoke is no longer being emitted, contact your local dealer or our service office. Never attempt to repair the machine yourself, which is hazardous.

# **CAUTION**



- Immediately wipe off any ink, maintenance liquid, waste ink, or other liquid used with the product that comes into contact with your skin. Then wash using soap, and rinse with plenty of water. Failure to wash off ink may result in skin inflammation. If your skin becomes irritated or painful, seek medical attention immediately.
- If ink, maintenance liquid, waste ink, or any other liquid used in the product comes into contact
  with your eyes, rinse immediately with plenty of clean water. Rinse for at least 15 minutes. If you
  wear contact lenses and they can be easily removed, remove after rinsing for at least 15
  minutes with clean water. Be sure to also rinse the undersides of your eyelids. Failure to rinse
  off ink may result in blindness or impaired vision. If your eyes become irritated or painful, seek
  medical attention immediately.
- If ink, maintenance liquid, waste ink, or any other liquid used in the product enters your mouth or is swallowed, gargle with water immediately. Do not induce vomiting. Seek medical attention promptly. Inducing vomiting may cause liquid to enter the airway.
- If a large amount of vapor is inhaled, move to a well-ventilated area, keep warm, and rest in a
  posture that allows easy breathing. If the condition does not improve, seek medical attention
  promptly.

## **NOTICE**



• If an ink leak occurs, turn off the main power immediately and turn off the breaker. Then, contact your local dealer or our service office.

## Power supply precautions

# **MARNING**



- Do not damage or modify the power cable. Do not place heavy objects on, heat or stretch it.
   Doing so may damage the cable, leading to electric shock or fire.
- Do not use the power cable if it is damaged or broken or if the core wire is exposed. Otherwise there is a risk of failure, electric shock, or fire.

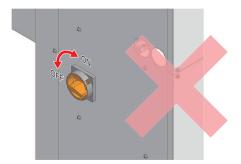


• Always connect the machine to a switchboard with grounded polarity. Otherwise there is a risk of failure, electric shock, or fire. All electrical work (Class C grounding work; formerly Type 3 grounding work) must be handled by a licensed electrician.

## **NOTICE**



Do not turn off the main power supply for the machine and the power supply for the control PC.
Turning off the power supply will disable the automatic maintenance function (including nozzle
clogging prevention function and ink discharge channel cleaning function). This increases the
risk of ejection failures (such as nozzle clogging or deflection).





- Use the machine with a power supply that meets specifications.
- When connecting the power cable, check the input voltage of the power outlet and the capacity
  of the breaker. Also, connect each cable to a separate power source with an independent
  breaker. Connecting to power outlets linked with the same breaker will cause the breaker to trip.

## Vacuum unit

## **NOTICE**



• Do not attempt to disassemble or repair the vacuum unit. Doing so may reduce the vacuum strength or cause abnormal heat generation or failure of this machine.



 Avoid touching the relief valve (pressure regulating valve) and blocking the exhaust port of the vacuum unit. Doing so may reduce the vacuum strength or cause abnormal heat generation or failure of this machine.





Use at low temperature may cause the vacuum unit to generate a high-pitched noise. This does
not indicate a failure.

#### Do not stand or sit on the machine.

#### **NOTICE**



- Never stand or sit on the platen. Disregarding this precaution may impair the precision of the platen surface and affect print quality.
- Never stand or sit on the drying unit, take-up/feeding motors, or external supply unit.
   Disregarding this precaution is extremely dangerous, and may result in injury or damage to the machine.

# Caution regarding moving parts

# **!**CAUTION



 Keep parts of the body such as the face and hands away from moving parts. Also keep clothing (e.g., loose clothing and accessories) that may impede work away from the machine. Failure to do so may result in injury.



· Long hair should be tied back. Failure to do so may result in injury.

## Do not disassemble or repair

# **MARNING**



Do not attempt to disassemble or repair this machine. Otherwise there is a risk of failure, electric shock, or fire.

#### About the monitor arm

## **♠ CAUTION**



- The maximum load capacity of the monitor arm is 8 kg. Do not mount a monitor weighing more than the maximum load capacity. Doing so may damage the arm.
- The monitor arm on which the touch panel is mounted is attached to the front of the machine.
   Take care to avoid bumping into the monitor arm or touch panel and injuring yourself while working.

#### **NOTICE**



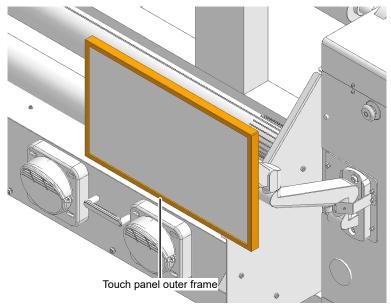
The monitor arm angle can be adjusted to vary the touch panel mounting angle and orientation. Adjust the arm angle so as not to impede the carriage movement range or printing operations.

## About the touch panel

## **NOTICE**



- Do not press, rub, or push the touch panel with excessive force.
- · Do not tap the touch panel with a ball-point pen or other hard metal object.
- Do not touch the black outer frame of the screen.
- Do not affix adhesive tape or labels to the touch panel screen or black outer frame. Doing so may reduce sensitivity and prevent operation.



- Immediately wipe off any liquid on the touch panel.
- Take care not to allow any liquids to get inside the touch panel gaps.

## Other usage precautions

# **MARNING**



· Keep children away from the machine.

# **CAUTION**



• Do not use the product after consuming medication or alcohol that may impair movement or thinking. Otherwise there is a risk of injury due to incorrect operation.

## NOTICE

## Disposing of the product

# **⚠** CAUTION



- Please contact your local retailer or service agent.
- When disposing of the product yourself, contact an industrial waste disposal operator or dispose
  of the product in accordance with local laws and regulations.

# **Prohibited Dangerous Actions**

Never perform any of the following dangerous actions while the power is turned on. Disregarding these precautions may result in serious injury (crushing or severing) if the carriage moves, for example during periodic maintenance.

# Keep face, hands, and body away from carriage



• Keep your face, hands, and body away from the gap between the carriage and Y-bar.



• Keep your face, hands, and body away from the gaps between the carriage and platen or station.



# Keep face, hands, and body away from moving parts



Keep your face, hands, and body away from the Y-bar belt.



## • Keep face, hands, body, and other objects away from cableveyor



Keep your face, hands, and body away from the Y cableveyor, and do not place objects on top
of it



# • Keep face, hands, and body away from underneath platen during operation



• Do not crawl under or insert your face, hands, or body underneath the platen while the machine is operating.

# Keep face, hands, and body away from take-up unit, and do not peer inside during operation

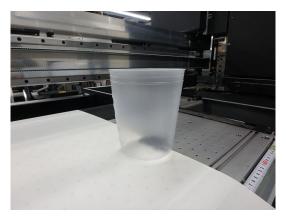


• Keep your face, hands, and body away from the take-up unit, and do not peer inside while the machine is operating.

# • Keep hands and objects away from platen



 Keep your face, hands, and body away from the platen, and do not place objects other than media on top of it.



## Do not impede carriage operation



• Do not forcibly move the carriage while it is operating (e.g. during printing and cleaning).

# **Usage Restrictions**

# **Usage Restrictions**

# **MARNING**



 The machine includes high-speed moving parts and high-temperature parts, which can present extreme hazards. Use of the machine is restricted to operators with a thorough understanding of the hazards involved.

# **Operator Restrictions**

# **MARNING**



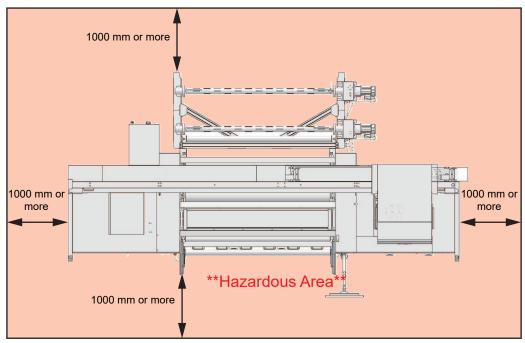
 The machine must be operated only by persons who have received Mimaki safety training or who have been trained by them.

# **Area Restrictions**

# **MARNING**



- All persons except those who have received the appropriate training must keep away from the
  machine. Area restrictions should be set up for the area indicated in the figure below. The area
  restrictions must include appropriate measures to clearly indicate that this is a hazardous area,
  such as by installing the machine in a dedicated room or by setting up an enclosure.
- Access to the hazardous area must be prohibited for all persons except those who have
  received safety training from Mimaki Engineering or persons who have received training from
  them. If unauthorized persons are present in the restricted area while the machine is operating,
  there is a danger of being hit by the carriage or tension bar during printing.





- If safety fences are used to restrict the area around the machine, install safety fences in accordance with the EN ISO 13857 standard.
- If the machine is installed in a dedicated room, a lock or safety interlock should be fitted to the room door, and a risk assessment should be conducted for the installation site before use.

# Connecting the Power

The printer requires a large power supply and must be powered directly from the switchboard. Customers must complete any electrical work before the printer is carried in.



Always connect the machine to a switchboard with grounded polarity. Otherwise there is a risk
of failure, electric shock, or fire. All electrical work (Class C grounding work; formerly Type 3
grounding work) must be handled by a licensed electrician.



- Make sure the connections are correct. Incorrect connections may result in damage to the equipment.
- Be careful to avoid problems in wiring configuration.

# **Tiger600 Wiring Configuration**



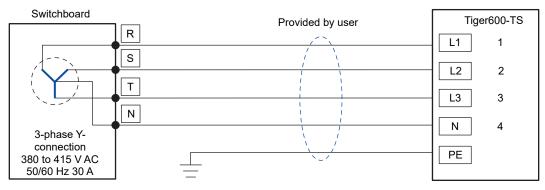
- Terminal blocks are attached inside the machine's electrical box.
   A power cable is not included. The user is responsible for providing power cables. Electrical work between the terminal blocks connecting the switchboard to the main unit must be performed by a licensed electrician.
- Be sure to only use the following types of cables and circuit breakers.
  - (1) Cable: VCT-5.5 mm<sup>2</sup> × 5-core (600 V) or UL-AWG10 × 5C (600 V) or equivalent. Outer sheath external diameter 16 to 25 mm.
  - (2) Circuit breaker: Three-phase four-wire 380 to 415 V AC, 30 A

## Wiring connections

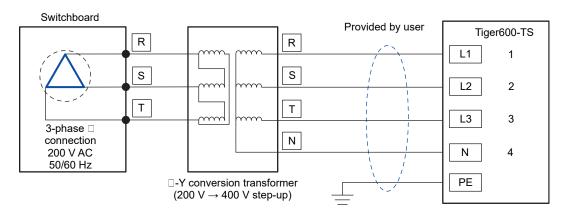


 Check the specifications of the switchboard three-phase power supply. A delta-star conversion transformer must be provided if three-phase four-wire star connection wiring is not used.

If the power supply is three-phase Y (star) connected (three wires + neutral)



If the power supply is three-phase △ (delta) connected (three wires)



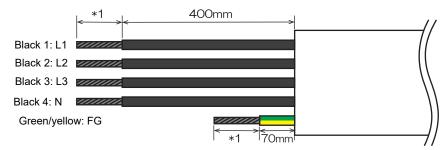
# • List of nominal industrial voltage for major countries

Check the voltage at the installation site beforehand and refer to the following table to ascertain whether a transformer is required.

No.	Nominal industrial voltage [V]	Country	Transformer
1	200 V 3-phase 3-wire	Japan	Required
2	208 V 4-phase 3-wire	USA	
3	220 V 4-phase 3-wire	Brazil	
4	346 V 4-phase 3-wire	Hong Kong	
5	380 V 4-phase 3-wire	China	Not required
6		Taiwan	
7		Thailand	
8		Italy	
9		Spain	
10		Russia	
11		Other 380 V regions	
12	400 V 4-phase 3-wire	India	
13		Belgium	
14		Denmark	
15		France	
16		Germany	
17		Netherlands	
18		Sweden	
19		Switzerland	
20		UK	
21		Portugal	
22		New Zealand	
23		Other 400 V regions	
24	415 V 4-phase 3-wire	Singapore	
25		Malaysia	
26		India	
27		Australia	
28		New Zealand	
29		UK	
30		Other 415 V regions	
31	460 V 4-phase 3-wire	USA	Required
32	480 V 4-phase 3-wire	Mexico	
33	480 V 3-phase 3-wire	Philippines	

# Wire preparation

# 1 Strip the power cable sheath as shown in the diagram below.



<sup>\*1:</sup> Please prepare the wire according to the particular crimp terminal specifications.

# **2** Attach the allowable types of crimp terminals to the L1, L2, L3, N, and FG wires.

- The sheath must be stripped off the wires to a length that is appropriate for the crimp terminal type you are using.
- · For more information regarding allowable crimp terminals, see below.
  - · Terminal block connection details

(1) Model No.: TXUM3004

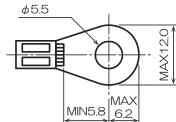
(2) Manufacturer: Patlite

(3) Terminal screws: M5 × 10

• L1, L2, L3, and N wire end preparation

(1) Preparation method: Ring terminal with insulating layer

(2) Shape:



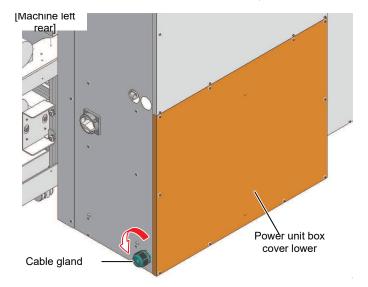
- (3) Examples of allowable crimp terminals:
  - N5.5-5 (J.S.T. Mfg)
  - FN5.5-5 (J.S.T. Mfg)
  - TMEX5.5-5 (Nichifu)
- · FG wire end preparation
- (1) Preparation method: Ring terminal with insulating layer
- (2) Mounting screws: M5 × 10 (3-part SEMS screw)
- (3) Examples of allowable crimp terminals:
  - N5.5-5 (J.S.T. Mfg)
  - FN5.5-5 (J.S.T. Mfg)
  - TMEX5.5-5 (Nichifu)
- Screw tightening torque: 2.2 to 2.8 Nm



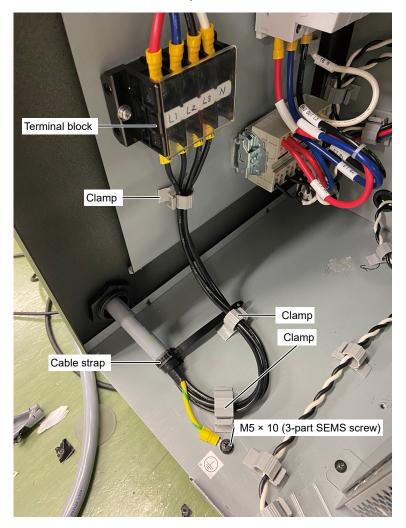
- Be sure to observe the following three points. Failure to observe the following three points may result in fire, smoke generation, or electric shock.
  - (1) Only use power cables and crimp terminals that satisfy the specifications.
  - (2) Be sure to attach a ring crimp terminal to the end of the power cable.
  - (3) Secure the ring terminal to the terminal block using the specified tightening torque.

#### Power connection work

- 1 Make sure that the machine main power supply and the switchboard circuit breaker have been turned off.
- **?** Remove the lower cover on the power supply box.
- 2 Loosen the nut on the cable gland, and insert the cable.
  - If the power cable has an outer diameter of 20 mm or less, use the FGA33-22B provided instead.



- Secure the L1, L2, L3, and N wires to the terminal block, and secure the FG wire to the screw hole next to the protective ground name plate.
  - Tighten the terminal block screws to a torque of 2.2 to 2.8 Nm.



- **5** Once the cable has been wired in place, secure using the clamps and cable strap.
- 6 Tighten the nut on the cable gland, and replace the lower cover on the power supply box.

# Ink and Other Liquid Handling Precautions

Precautions regarding ink, maintenance liquid, or other liquids used with this machine are included with the containers. Thoroughly read them and make sure you understand the contents.



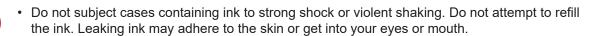
Be sure to read the safety data sheet (SDS) before use. https://mimaki.com/supply/sds/

# **CAUTION**



Pay close attention to ventilation and be sure to wear safety glasses, gloves, and a mask when
handling ink, maintenance liquid, waste ink, or other solutions used with the machine. Leaking
ink may adhere to the skin or get into the eyes or mouth.







 Do not disassemble cases containing ink. Leaking ink may adhere to the skin or get into your eyes or mouth.



 Do not store ink, maintenance liquid, or other liquids used with the machine in locations where children may enter.



 When disposing of ink, maintenance liquid or other liquid used with the product, or containers or non-woven fabric contaminated with ink or other liquid, contact an industrial waste disposal operator or dispose of the product in accordance with the local laws and regulations.

#### NOTICE



- Do not store ink, maintenance liquid, or other liquids used with the machine in locations exposed to direct sunlight.
- Do not store ink, maintenance liquid, or other liquids used with the machine in environments
  where cutting fluid or other volatile substances (such as amines or modified amine alcohol) are
  present in significant quantities. Storage in such places increases the risk of failure or ejection
  failures (e.g., nozzle clogging or deflection).
- Do not use ink, maintenance liquid, or other liquids used with this machine with other printers. Doing so may cause failure.



- Be sure to store them in a low place no higher than 1 m above the floor. Otherwise there is a risk of scattering if the containers fall.
- Store in tightly sealed containers.
- Store in a cool, dark place.
  - (1) Store ink in a place where ink does not freeze. Using defrosted ink may deteriorate ink constituents and reduce print quality.
  - (2) When ink is moved from a cold place to a warm place, leave it in the environment where the machine is installed for at least three hours, and check that the ink temperature is close to that of the use environment before using it.
  - (3) Open the container just before installing it, and use it up as quickly as possible. If it is opened and left for an extended period of time, print quality may be reduced.



Do not use ink, maintenance liquid, or other liquids used with this machine with other printers.
 Doing so may cause failure.



• Do not touch the metal parts of the ink IC chip. Static electricity may damage the ink IC chip, and dirt or damage may cause the ink IC chip read error.



• Printing is disabled if a different ink IC chip is used.

# **Ink Specifications**

Item		Details		
Туре		MLSb510	AP50	
Color		Yellow (Y) Magenta (M) Blue (B) Black (K)  Yellow (Y) Magenta (M) Cyan (C) Black (K)		
Form		Ink tank		
Ink capacity		10 L		
Expiration date		As indicated on the Ink tank.  However, ink should be consumed within three months after opening, even if before the expiration date.		
temperature Ho		<ul> <li>5 °C to 30 °C (daily mean temperature)</li> <li>However, not more than 1 month at 30 °C</li> <li>Ink quality may deteriorate if stored outside these conditions.</li> </ul>		
40 °C • Where positions all		However, not more than 120 hours at 40 °C  • Where possible, avoid storing in clocations above 40 °C.	ever, not more than 120 hours at 60 °C, and not more than 1 month at the contract of the contr	



• The ink expiration date is indicated on the ink containers. Expired ink may cause ejection failures or alter the color tone. Printing is possible even if the ink has passed its expiration date. Nevertheless, we recommend replacing with new ink or using up as quickly as possible.

# **Installation Precautions**

# **MARNING**



- · Do not install the machine in a place close to fire.
- Do not place flower vases, pots, cups, containers containing cosmetics, chemicals or water, or small metal items on or close to the machine. If they enter the machine, there is a risk of failure, electric shock, or fire.



 Do not install this machine in humid locations or locations where it may be exposed to splashing water. Otherwise there is a risk of failure, electric shock, or fire.



• Do not install the machine in a place where children may enter.

# **CAUTION**



- A ventilation system must be provided if this machine is installed in a poorly ventilated area or sealed room.
- Be sure to observe the following points when installing an extractor outlet:
  - (1) The extractor outlet must be installed in accordance with applicable local EHS (environmental, health, and safety) guidelines.
  - (2) If the extractor outlet is fitted with a shutoff valve, the valve must be open when this machine is in use.



Check to confirm that the floor is sufficiently strong to bear the weight of the machine before installing.

#### **NOTICE**



- Do not install this machine in locations where dust or powder is present. Failure or printing defects may result (e.g., nozzle clogging, deflection) if dust gets inside this machine.
- Do not install this machine in locations exposed to drafts (e.g., from air conditioning). Disregarding this precaution may result in dust or powder getting inside this machine.
- Do not install this machine in unstable locations or locations subject to vibration. This will increase the risk of failure or printing defects (e.g., nozzle clogging, deflection).
- Do not install this machine in locations exposed to direct sunlight.
- Do not install this machine in locations subject to sudden temperature changes. This will increase the risk of failure or printing defects (e.g., nozzle clogging, deflection).
- Do not install this machine in locations exposed to excessive noise from large machinery.
- Do not install this machine in locations where photographic fixing agents generate vapor or acid
  gas (e.g., acetic acid, hydrochloric acid) or locations filled with metal working fluids or highly
  volatile substances (e.g., amines, amine-modified alcohols). Malfunctions or printing defects
  may result (e.g., nozzle clogging, deflection) as print head ink is more likely to harden under
  such environments.



- Operating environment: 20 to 30 °C (68 to 86 °F), 35 to 65%RH (no condensation)
- Temperature range in which accuracy is guaranteed: 20 to 25 °C (68 to 77 °F)



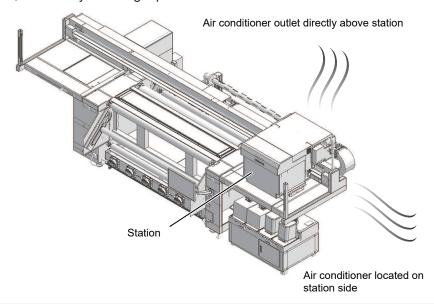
• Install the machine in a location where the entire working area is clearly visible. (Guideline: 300 lux)

There is a risk of incorrect operation and injury if operated in a dark location.



Pay particular attention to the following diagram, and avoid installing in such conditions where
possible. Conditions in which the side of the station is subject to drafts will increase the risk of
nozzle clogging occurring during standby.

If using the machine in the conditions described in the diagram below is unavoidable and nozzle clogging occurs during standby, take measures to avoid the station being exposed to direct drafts, such as by installing a partition between the machine and the air conditioner.

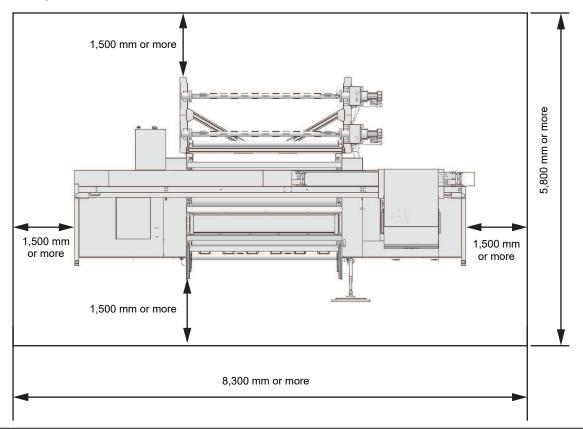


# **Installation Space**

Provide the following space around the machine to allow safe and proper replacement of ink and media:

Item	Tiger600-1800TS
Width*1	At least 8,300 mm (5,300 mm)
Depth*1	At least 5,800 mm (2,800 mm)
Height <sup>*1</sup>	(1,900 mm)
Weight	1,620 kg

<sup>\*1.</sup> The figures in parentheses indicate machine dimensions.



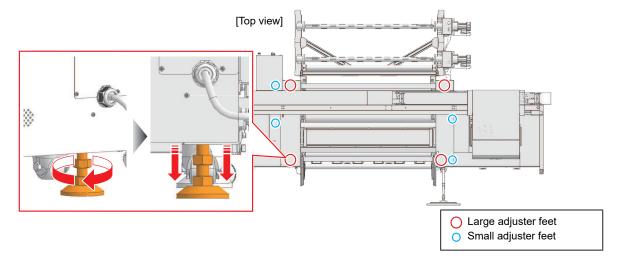


- If safety fences are used to restrict the area around the machine, install safety fences in accordance with the EN ISO 13857 standard.
- If the machine is installed in a dedicated room, a lock or safety interlock should be fitted to the room door, and a risk assessment should be conducted for the installation site before use.

# **Adjuster Feet**

Do not attempt to adjust the adjuster feet yourself. Doing so may prevent the machine from operating correctly.

If you have any queries, contact your local distributor, our sales office, or service center.



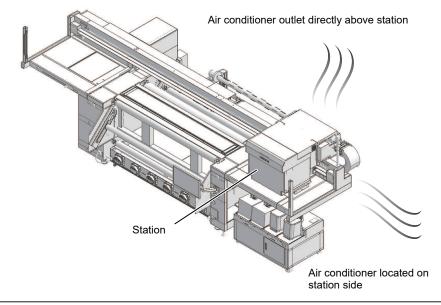
# When Relocating This Machine

Contact your local dealer or our service office. Attempting to handle relocation yourself may result in failure or damage.



Pay particular attention to the following diagram, and avoid installing in such conditions where
possible. Conditions in which the side of the station is subject to drafts will increase the risk of
nozzle clogging occurring during standby.

If using the machine in the conditions described in the diagram below is unavoidable and nozzle clogging occurs during standby, take measures to avoid the station being exposed to direct drafts, such as by installing a partition between the machine and the air conditioner.



# Emergency Stop Switches and Light Curtain

The machine is equipped with emergency stop switches and a light curtain to ensure safety during use. The light curtain stops the machine when a person or object is detected.



• Check to confirm that the emergency stop switches and light curtain operate correctly before starting operation.

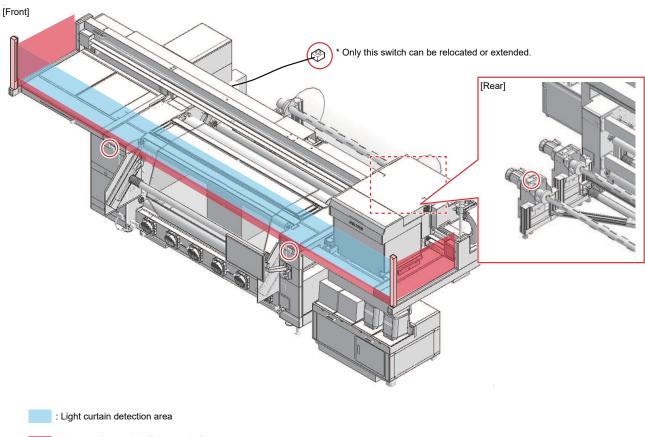


• If an obstruction or danger to the operator occurs, press one of the emergency stop switches to stop the machine and prevent more serious problems from arising.



To release an emergency stop switch, check to confirm that there are no objects trapped in the
feed unit and that the operator is safe before resetting the switch. To reset the emergency stop
switch, turn it counterclockwise. Once the emergency stop switch has been reset and the alarm
has been cleared on the MPC screen, the feed unit initializes, after which the machine is ready
for operation.

# Emergency stop switch locations and light curtain detection area



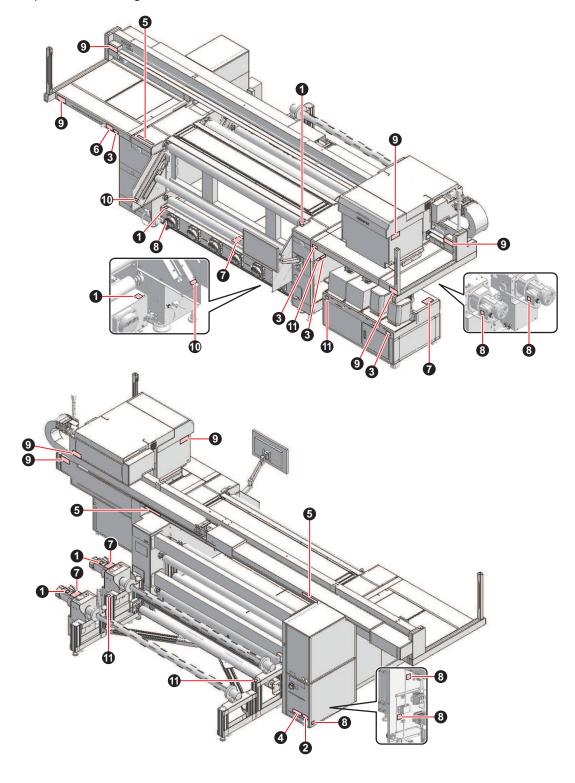
: Area not detected by light curtain (area 61.5 mm above the platen and also the sides)

: Emergency stop switch

# Warning Labels

Make sure you fully understand the details indicated on the various warning labels.

If any of the warning labels become dirty and illegible or peel off, contact your local dealer or our service office to request new warning labels.



N o.	Order code	Label	Details
1	M903239		Indicates hot parts.
2	M903281	See SET UP GUIDE before connecting to the supply. 電源を接続する前に、必ずセットアップガイドを読むこと。 在接通电源之前请一定阅读安装说明书。	Note when connecting the power supply cable.
3	M903330		Wear safety glasses and gloves while working.
4	M905624	本等	Caution regarding current leakage.
5	M906115	本書告 本書告 MARANING MANDORANDING AVARSCHUNNG AVARSCHUNNG AVARSCHUNNG MARANING MANDORANDING PARTS (GEFARMLUDE BERWICLUSE TEMPORALISE MARANING MANDORANDING PARTS (GEFARMLUDE BERWICLUSE TEMPORALISE TEMPORALISM TEMP	Caution regarding moving parts.
6	M906222		Caution overhead.
7	M907764	注意 CAUTION ATTENTION  上部に乗るな DO NOT STEP ON TOP NE GRIMPEZ PAS DESSUS	Do not climb on top
8	M907935		Caution regarding high voltage.
9	M909381	本等告	Caution regarding moving parts.

N o.	Order code	Label	Details
1 0	M912054		Caution regarding entrapment.
1 1	M918531	<u>Kg</u>	Caution when lifting heavy objects.

# **Chapter 1 Before Use**



#### This chapter

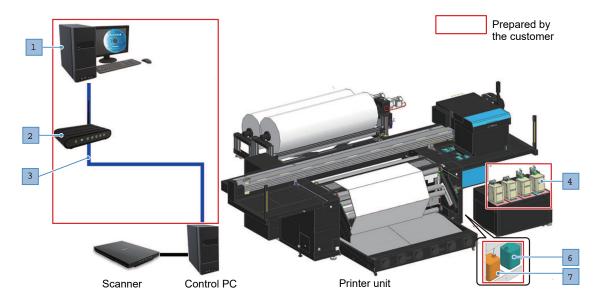
This chapter describes information essential before use, such as part names.

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# 1.1 Items to be Prepared by the Customer

The following items should be prepared by the customer before installing the machine.

# Equipment and consumable items



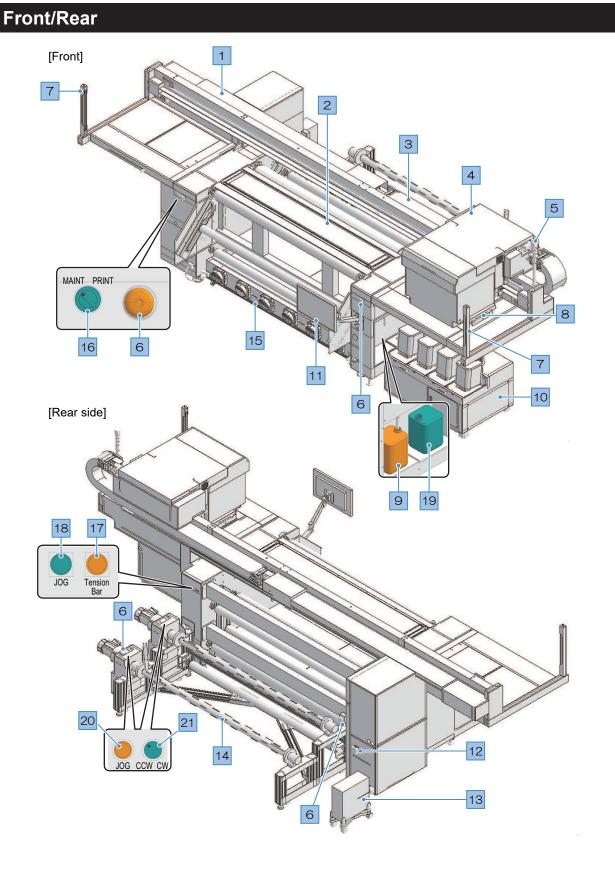
No.	Item	Remarks	
1	RIP PC	Reference: Recommended RIP PC requirements (P. 43)	
2	10 Gb compatible hub	When using multiple machines with the same PC	
3	LAN cable	As required	
4	Ink	10 L ink tanks for water-based sublimation ink	
5	Purified water	-	
6	Purified water tank	Max. 220 mm (W) × 350 mm (D) × 400 mm (H)	
7	Waste ink tank	We recommend using a 20L tank (empty weight: approx. 1100 g as a purified water tank. If a larger tank is used, the error message "068A: Purified Water Tank Sensor" may appear.	

# Installation environment and equipment

Item	Requirements	Remarks
Main unit power supply	3⊘-4L-380 to 415 V AC, 25 A	
Power supply circuit breaker	"Connecting the Power"(P. 15)	
Power cable		Use the cable gland provided (FGA33-22B) for cables with an outer diameter of 20 mm or less.
Transformer		
Air facilities	Compressor capacity: 6 to 8 bar@Dry air	For air chuck shaft
Lifter	"Lifter specifications"(P. 69)	For loading the media

For more information on other installation environment requirements, refer to Typecifications" (P. 218).

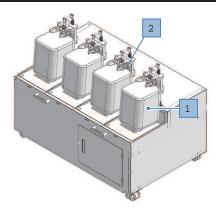
# 1.2 Part Names and Functions



No.	Name	Overview
1	Y-bar	The Y-bar is equipped with a carriage. This part moves over the table to print.
2	Platen	Print area. Telaten"(P. 37)
3	Cable carrier (Y-bar)	Ink tubes and other parts are routed through the cable carrier. Do not insert your hands or other objects into the cable carrier.
4	Carriage	Consists of components such as the print head and jam sensor. © "Carriage"(P. 36)
5	Signal tower light	To confirm machine status, check the color of the illuminated lights. A buzzer sounds to signal that the carriage will begin moving soon. "Signal tower light" (P. 38)
6	Emergency stop switch	Press to stop the machine in emergencies. Located on the left and right sides on both the front and rear. "Emergency Stop Switches and Light Curtain"(P. 26)
7	Light Curtain	Detection of a person or object will halt the machine.  "Light Curtain"(P. 37)
8	Station	Includes wipers and a moisture tray to prevent the print head nozzle surface from drying out. 🕾 "Station"(P. 37)
9	Waste ink tank	<ul> <li>Container for waste ink. ** "Waste Ink Tank Waste Ink Level Checking"(P. 164)</li> <li>This should be provided by the customer. ** "Items to be Prepared by the Customer"(P. 32)</li> </ul>
10	Ink Supply Unit	Supplies ink to the print head from the lnk tank. This Supply Unit (P. 36)
11	Touch panel	The touch panel is used to control the machine. "Mimaki Printer Controller"(P. 124)  • How to operate the touch panel  - Tap: Select a function.  - Long tap: Select multiple jobs.  - Swipe: Move the screen up or down.
12	Main power switch	The main power supply for the machine. To prevent print head ejection failures (such as nozzle clogging or deflection), do not turn off the main power supply. Power Supply"(P. 152)
13	Control PC	Controls the machine. Do not turn off the control PC.  "System Configuration"(P. 40)
14	Winding unit	Consists of the take-up unit and feeding unit. (28" "Winding unit"(P. 36)
15	Drying unit	Dries the ink on the printed media from underneath the machine. Trying unit"(P. 38)
16	Maintenance Switch	Selects maintenance mode (MAINT) or print mode (PRINT). © "Maintenance Switch"(P. 39)
17	Tension bar initializing switch	Initializes the tension bar.
18	Feed switch	Rotates the X drive roller to feed the media. The take-up unit and feeding unit also operate in unison after the tension bar has been initialized.
19	Purified water tank	<ul> <li>Used to feed water to the moisturizing tray and to clean the wiper.</li> <li>This should be provided by the customer. "Items to be Prepared by the Customer" (P. 32)</li> </ul>
20	JOG button	Feeds the take-up unit and feeding unit respectively.

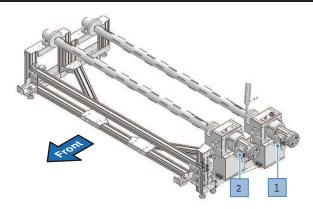
No.	Name	Overview
21	Rotation direction switch CCW/CW	Used to change the rotation direction of the take-up unit and feeding unit respectively.

# **Ink Supply Unit**



No.	Name	Overview
1	Ink tank	Mount the Ink tank. 🕾 "Replacing the ink tank"(P. 56)
2	Cap cover	Lift up the lever to remove the lnk tank.

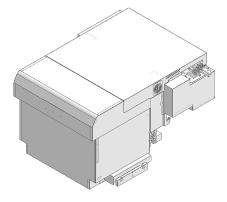
# Winding unit



No.	Name	Overview
1	Take-up Unit	Rolls up the printed roll media. The media."(P. 68)
2	Feeding unit	Loads the roll media prior to printing. Compatible with 3-inch paper cores.

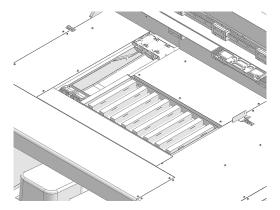
# Carriage

The carriage includes a print head for ejecting ink, and a jam sensor for stopping the carriage when media clogs. Printing occurs as ink is ejected while traversing left and right.



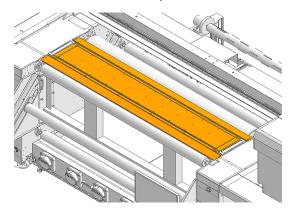
# **Station**

The station includes a moisture tray for preventing the print head nozzle surface from drying out, and a wiper required for print head maintenance.



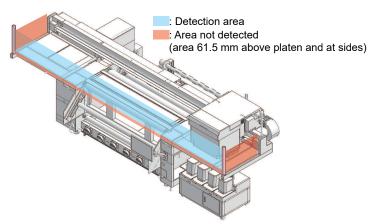
# **Platen**

Print area. The platen secures the media under vacuum pressure.



# **Light Curtain**

The light curtain is used to stop the machine when a person or object is detected.





 Detection is not possible in the area up to 61.5 mm above the platen and in the areas at the sides. Parts of the body or other objects in this area cannot be detected. This can pose serious hazards because the carriage does not stop moving.

# Signal tower light

The signal tower light allows the machine status to be confirmed from the color of the illuminated lights.



Color	Status	Overview
Red	Illuminated	Error level 2 or 3 <sup>*1</sup> occurrence Printing is not possible due to system failure.
	Off	The printer is operating normally.
Yellow	Illuminated	Error level 0 or 1 <sup>*1</sup> occurrence A recoverable error has occurred. Check the displayed message and take appropriate action. "Problems Indicated by Messages" (P. 195)
	Off	The printer is operating normally.
Green	Illuminated	Standby state with the power turned on.
	Flashing	Indicates printing is underway.
	Off	Power turned off.

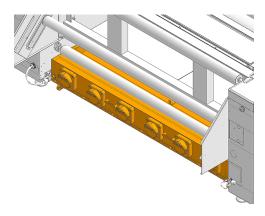
- \*1. Error level
  - 0: Information: Ink near end, etc.
  - 1: Warning: Light curtain detection, etc.
  - 2: Error: Ink leak, etc.
  - 3: Emergency: Y limit sensor activated, etc.



• Printing cannot be started in level 1 or higher.

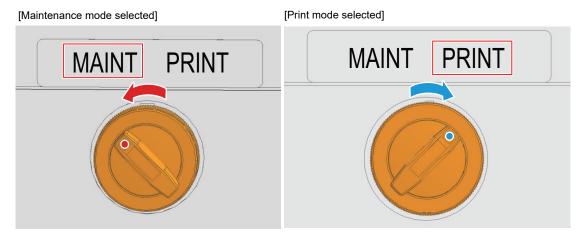
# **Drying unit**

The drying unit consists of the drying heater and drying heater fan. It is located underneath the machine and dries the ink on the printed media.



# **Maintenance Switch**

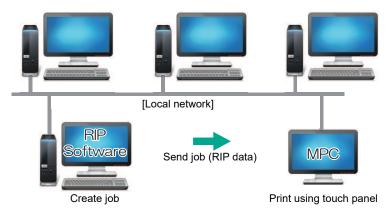
Switch for selecting maintenance mode (MAINT) or print mode (PRINT). Be sure to switch to maintenance mode before carrying out maintenance work. The light curtain is disabled when in maintenance mode. \*\* "Light Curtain"(P. 37)



# 1.3 System Configuration

Use RIP software to prepare jobs (RIP data) from print data created in applications such as Illustrator or Photoshop.

Jobs prepared this way are printed using the MPC (Mimaki Printer Controller) application installed on the machine (control PC). Tetrings (MPC)"(P. 123)



#### Control PC



- Do not use a web browser if the control PC is connected to the Internet. Using a web browser can create security risks.
- Do not install any software other than our company's designated software or make configuration changes on the control PC. Also, do not use it for purposes other than MPC. Doing so may cause serious malfunctions, such as the product failing to start or being unable to print.
- Never disconnect the LAN cables connected to the machine, as shown in the red frames below.





• Install the control PC no more than 2 m (ideally less than 1.5 m) away from the machine. (Because the LAN cable is 2 m long)

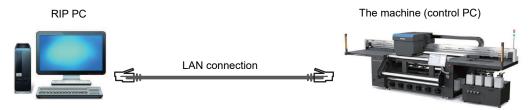
# **Connecting to a Local Network**

Connect the machine (control PC) and RIP PC via a local network or direct LAN cable to enable jobs (RIP data) to be easily imported. Insert the LAN cable until it clicks into place.

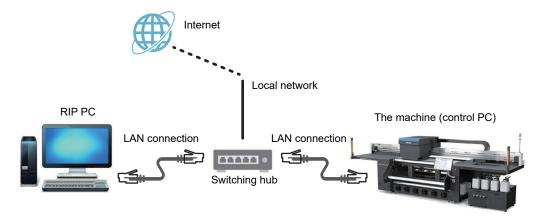
#### Machine (control PC) and RIP PC configuration

The machine can be connected using one of the following two methods:

· Connection using a LAN cable



· Connection via a local network



#### LAN connection precautions

- Set up the control PC and the RIP PC to transfer print data on the same network. Connections via a router or using Wi-Fi are not possible.
- The following connection devices should be used for a local network connection.

Device	Required	Recommended
RIP PC LAN port	1 Gbps or higher	10Gbps
LAN cable	Category 6A	
Switching hub	1 Gbps or higher	10Gbps

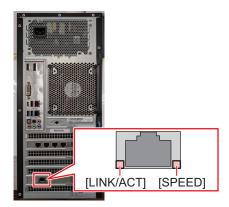
#### LAN connection checking method

#### Check the machine (control PC) status

Check the LAN connector indicators near the bottom on the back of the control PC.

· The LAN connector indicators are illuminated when the system is connected.

• If the indicators are not illuminated, insert the LAN cable until it clicks into place.



LED	Status	Overview
SPEED	Green	Linked via 10GBASE-T
	Yellow	Linked over a connection other than 10GBASE-T
LINK/ACT	Flashing green	Data is being sent and received.
	Green	No network traffic.



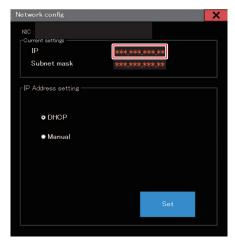
• Do not unplug the cable while data is being transferred.

#### Check the touch panel

Check [Network setting] on the touch panel.



- Be sure to confirm whether the LAN connector indicator is lit before configuring the following settings.
- From MENU on the touch panel, tap [SETTING 2] > [System setting] > [Network setting]. Check the dialog box. If the LAN connection has been successfully established, the address will be displayed.



# 1.4 Preparing the RIP PC

# **RIP PC System Requirements**

The customer should provide a RIP PC and network devices that meet the recommended requirements.



 RIP software cannot be installed on the Tiger600-1800TS control PC. The user must provide a separate PC for use with the RIP software. An Internet connection is also required in order to obtain the RIP software license.

#### Recommended RIP PC requirements

Item	Requirement
os	Windows 11® Pro 64bit
Processor	Performance equivalent to intel® Core i7-7700K (4.2 GHz) or higher
Chipset	Genuine intel® chipset
Memory	8 GB or more
Storage	500 GB SSD ×2 or more
Network interface	10 Gigabit Ethernet * PCI Express X1 or higher is required when adding a 10 Gigabit Ethernet board to the PCI.
USB interface	USB 2.0 port (for connecting dongle)
Display	1,920 × 1,200 pixels or more
Optical drive	Optical drive capable of reading CD-ROM

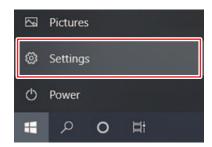
#### Recommended network environment

Item	Requirement
Network hub * Not required if the machine is directly to the RIP PC.	SW-HUB 10 Gigabit Ethernet compatible
LAN cable	Category 6 or 6A

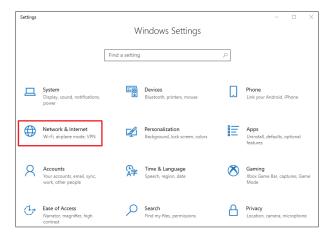
# Setting up an Ethernet connection

#### **Sharing a Network**

1 On the RIP PC, open the Windows start menu and click [Settings].



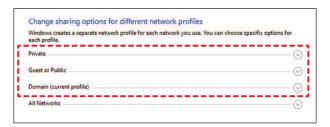
**9** Select [Network & Internet].



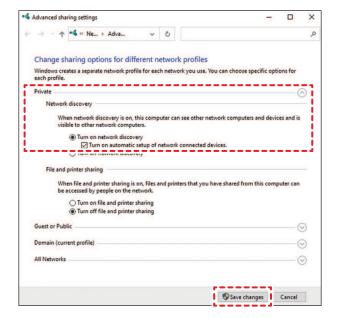
3 Under the "Change your network settings" section, select [Network and Sharing Center].



- Select [Private], [Guest or Public], or [Domain].
  - The selection items may vary depending on the network configuration. Contact your network administrator.



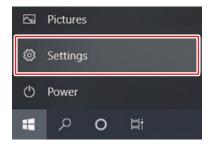
5 Select [Turn on network discovery] and click [Save changes].



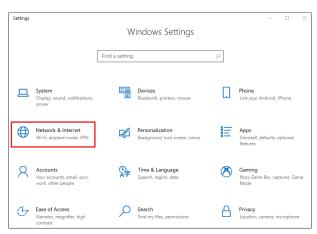
6 Restart the RIP PC.

#### Setting up an Ethernet connection

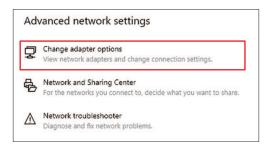
1 On the RIP PC, open the Windows start menu and click [Settings].



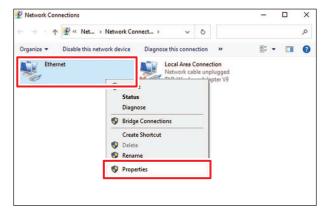
2 Select [Network & Internet].



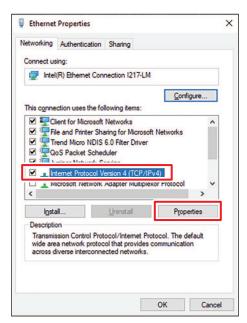
3 Select [Change adapter options].



- ▲ Right-click [Ethernet], and then select [Properties].
  - If there are multiple [Ethernet] icons, select the properties for the port you wish to use.
  - The names may vary depending on the PC.

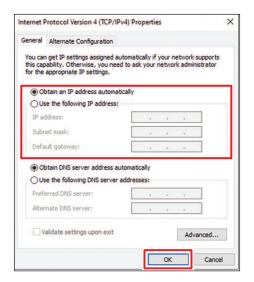


On the Networking tab, select the [Internet Protocol Version 4 (TCP/IPv4)] item, then click [Properties].



#### 6 Configure the network settings.

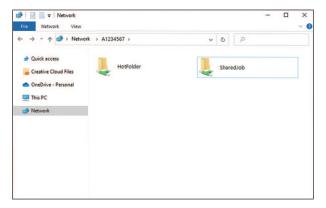
- · Configure the network according to the network settings of the control PC.
- For more information regarding the network settings of the control PC and RIP PC, contact your network administrator.



- **7** Restart the RIP PC.
- **Q** Confirm that the connection has been established.
  - Connect the RIP PC and control PC via a LAN cable. Tonnecting to a Local Network (P. 41)
- Open Explorer on the RIP PC and enter [\machine serial number] in the address bar.
  - The machine serial number can be checked on the touch panel (MENU > [SYSTEM] > [System information]).

## 1 Check the Explorer display.

• Check whether two folders, [HotFolder] and [SharedJob], are displayed. If they are displayed, configuration is complete.



## **Preparations for using TxLink**

#### Installing RIP Software

The explanation here applies to the MIMAKI RIP software (TxLink).



• If using TxLink, refer to the TxLink operating manual.

#### Install TxLink.

· The following icon appears on the PC desktop once the software has been installed.



#### **Obtaining Color Profiles**

Print quality (e.g., tone, bleeding) will vary depending on the media and ink set. To maintain consistent print quality, select a color profile that suits the media and ink set.

- provides a function to download color profiles directly from the Internet and install them. For more information, refer to "Profile Installation" in the installation guide.
   https://mimaki.com/download/software.html
   [ used] > [Manuals]
- Our website provides color profiles for our RIP software (TxLink). https://mimaki.com/download/inkjet.html [Tiger600 Series] > [Profile]

#### **Setting Up RIP Software**

The explanation here applies to the MIMAKI RIP software (TxLink).

This section describes the procedure for registering the Tiger600 Series printer configuration.

#### 1 Launch TxLink.

• If no printer configuration has yet been registered, a guide to creating the printer configuration will be displayed when first launched. Click [Add], then proceed to step 3.

#### **7** The add printer configuration window appears.

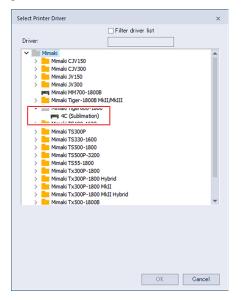
(1) Click the printer configuration button at the top of the window.



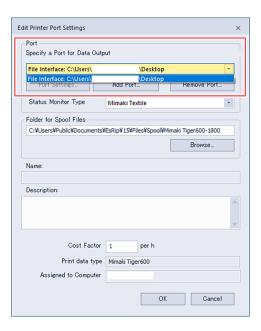
(2) Click [Add].

# 3 Create a print client.

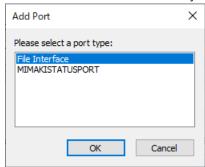
- (1) Click the [+] button.
- (2) Select the desired printer driver, then click [OK].
  - Open the Mimaki Tiger600-1800 folder.



(3) Select a port.

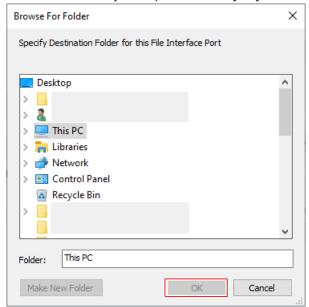


- If the port is not listed in the combo box, follow these steps to create it.
- (1) Click [Add Port].
- (2) Select the type of port for the connection and click [OK].
  - File Interface: Sends jobs to the RIP computer.
  - MIMAKISTATUSPORT: Sends jobs to the machine (control PC) over the local network.



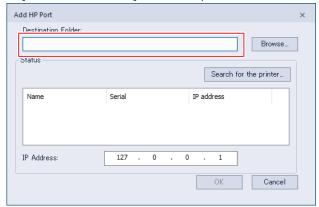
#### • When File Interface is selected

(1) Select a folder for job output and click [OK].

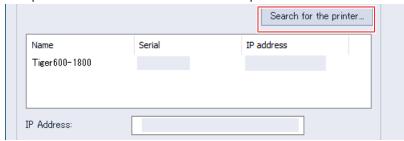


#### When MIMAKISTATUSPORT is selected

- (1) Join the local network. Tonnecting to a Local Network (P. 41)
- (2) In [Destination Folder], enter the path of the shared folder for job output.



- The output shared folder can be selected from the following:
  - SharedJob: To print from [Job List] on the touch panel (Ex.: [\\\*\*\*\*\*\*\SharedJob])
  - HotFolder: To print automatically (Ex.: [\\\*\*\*\*\*\*\HotFolder)
- (3) Click [Search for the printer].
  - · The printer list at the bottom of the UI is updated.



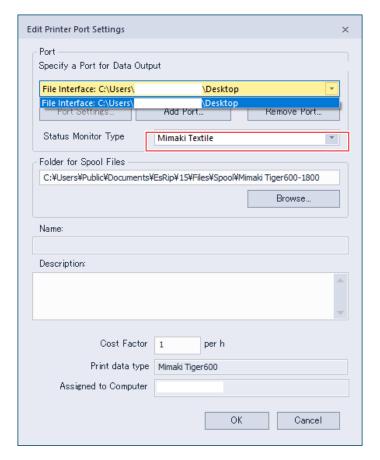
(4) In the printer list, select the printer to connect, then click [OK].



- Please change "\*\*\*\*\*\*\*" to the serial number of the printer.
- From MENU on the touch panel, tap [SYSTEM] > [System information] to display the serial number on the browser screen at right.

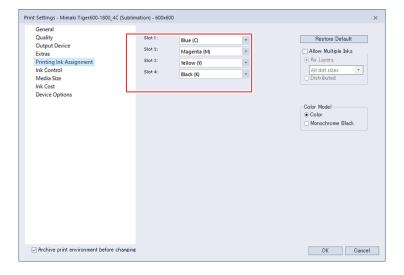
#### **▲** Select the type of status monitor.

- Mimaki Textile: Monitors the printer on a regular schedule and displays the status in the print client window. See Step 5 of © "Creating RIP Data"(P. 100).
- · None: Printer status is not monitored.



- 5 Click [OK].
- 6 Set an appropriate name for the print client, then click [OK].
  - The printer configuration is then created.

Click [Print Settings] > [Printing Ink Assignment], set the ink for each slot, then click [OK].



# Preparations for using RasterLink

#### Installing the Mimaki Driver



- · This procedure is not required when using TxLink.
- Use MimakiDriver version 5.9.8 or later.

#### **■** Download the Mimaki driver from our website.

 https://mimaki.com/download/inkjet.html [Tiger600 Series] > [Driver/Utility]

#### Install the MIMAKI driver.

#### **Installing RIP Software**

The explanation here applies to the MIMAKI RIP software (RasterLink).



· Use RasterLink7 version 3.3.1 or later.

#### 1 Install RasterLink.

· The following icon appears on the PC desktop once the software has been installed.





For more information, refer to the RasterLink installation guide. https://mimaki.com/download/software.html

#### **Obtaining Color Profiles**

Print quality (e.g., tone, bleeding) will vary depending on the media and ink set. To maintain consistent print quality, select a color profile that suits the media and ink set.

- The RasterLink series provides a function to download color profiles directly from the Internet and install
  them. For more information, refer to "Installing Profiles" in the RasterLink Series installation guide.
  https://mimaki.com/download/software.html
  [RasterLink Series used] > [Manuals]
- Our website provides color profiles for our RIP software (RasterLink). https://mimaki.com/download/inkjet.html [Tiger600 Series] > [Profile]

#### Setting Up RIP Software

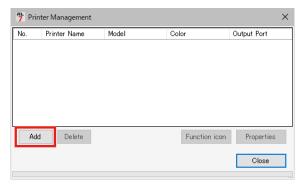
The explanation here applies to the MIMAKI RIP software (RasterLink).

#### Launch RasterLink.

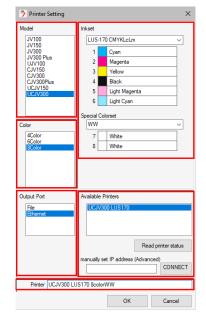
- The [Printer Management] screen appears.
- To add a new model, launch RasterLink, then select [Environment] > [Printer Management].

#### ? Register Tiger600 Series.

(1) Click [Add].



(2) Set the information for Tiger600 Series.



- Model name: Select the model.
- · Color: Select the ink set that is filled.
- · Output Port: [Ethernet] is recommended. With output port set to [Ethernet]
- Available Printers: Select the connected Tiger600 Series.
- Printer: Enter any name.
- (3) Click [OK].
  - · A confirmation screen appears.
- (4) Click [Yes].
  - Printer registration starts.



For more information, refer to the RasterLink installation guide. https://mimaki.com/download/software.html

# 1.5 Ink Tank Replacement Method

#### When Ink Near End is Displayed

Ink levels are low. We recommend replacing with new lnk tank as soon as possible. Note that ink may run out during printing.

You can check which Ink tank must be replaced in INK STATUS on touch panel. (P. 126)



# When Ink End is Displayed

The ink has run out. Replace with new lnk tank.

Thoroughly read the following and make sure you understand its contents. "Ink and Other Liquid Handling Precautions" (P. 20)



• Pay close attention to ventilation and be sure to wear safety glasses, gloves, and a mask when handling ink, maintenance liquid, waste ink, or other solutions used with the machine. Leaking ink may adhere to the skin or get into the eyes or mouth.



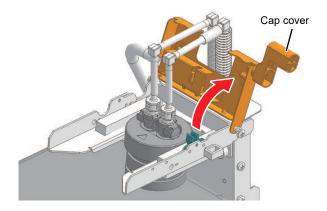


# Replacing the ink tank

#### Replacing the ink tank

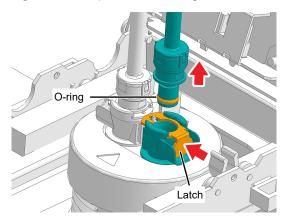
#### Removelnk tank

- 1 Lift up the cap cover.
  - The machine detects that the cap cover is detached, allowing the tank to be removed.



#### **?** Remove the fitting from the lnk tank cap.

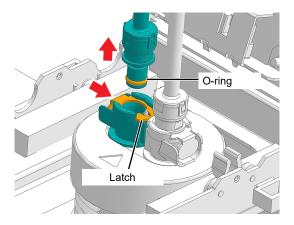
· Press down on the fitting latch, then pull out the fitting.



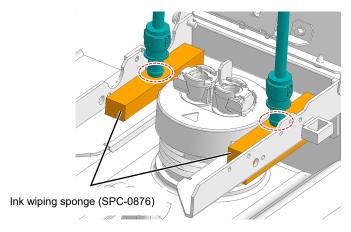


• Be sure to press down the latch fully to remove the fitting. If you try to force off the fitting without pressing down the latch fully, there is a risk of damaging the O-ring on the fitting, which may cause ink leakage.

#### 3 Remove the other fitting in the same way.

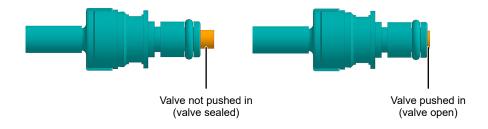


4 Press the tip of the fitting lightly against the ink wiping sponge to prevent ink dripping from the tip of the fitting.

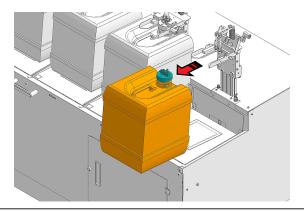




• Do not press the valve at the tip of the fitting in firmly. If the valve is pushed in, ink may leak out, and air may enter the ink paths, causing malfunctioning.



#### 5 Remove the lnk tank from the ink supply unit.





 When disposing of ink, maintenance liquid or other liquid used with the product, or containers or non-woven fabric contaminated with ink or other liquid, contact an industrial waste disposal operator or dispose of the product in accordance with the local laws and regulations.

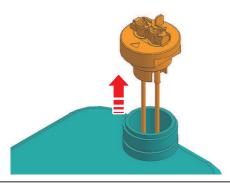
#### PrepareInk tank

- **Shake the new lnk tank gently from left to right to ensure it is fully mixed.** 
  - Tighten the lnk tank lid securely, then move from left to right to ensure that the ink moves inside, holding the lid with a paper towel.



#### SetInk tank

Remove the lnk tank cap, then attach the new lnk tank.

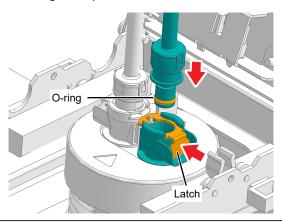




 When disposing of ink, maintenance liquid or other liquid used with the product, or containers or non-woven fabric contaminated with ink or other liquid, contact an industrial waste disposal operator or dispose of the product in accordance with the local laws and regulations.

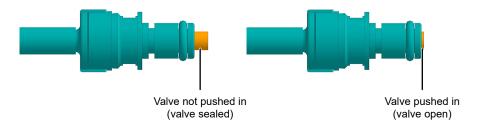
#### **9** Mount the new lnk tank in the supply unit, then attach the fitting.

· Insert the fitting with the fitting latch pressed down.

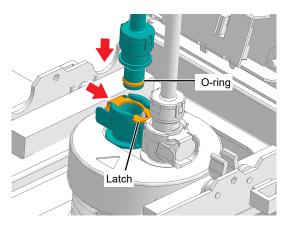




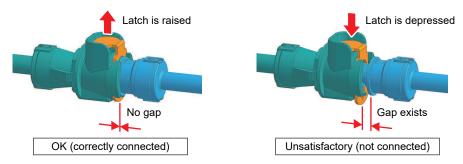
- Be sure to press down the latch fully when inserting the fitting. If you try to forcibly insert the fitting without pressing down the latch fully, there is a risk of damaging the O-ring on the fitting, which may cause ink leakage.
- Take care not to push in the valve at the tip of the fitting when connecting the fitting.
   If the valve is pushed in, ink may leak out, and air may enter the ink paths, causing malfunctioning.



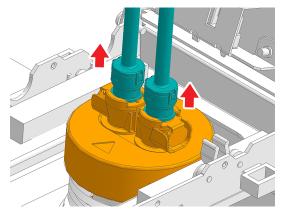
3 Attach the other fitting in the same way.



- ⚠ Check to confirm that the fittings are securely connected.
  - (1) There are no gaps in the fittings.

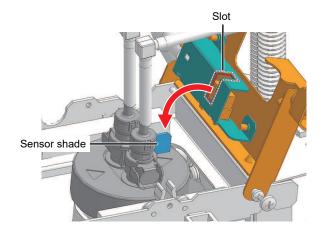


(2) The fittings do not detach when pulled gently.

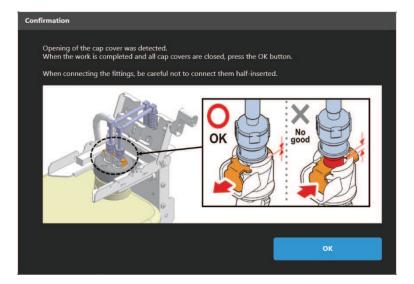


#### 5 Lower the cap cover.

 When closing the cap cover, make sure the sensor shade is inserted inside the slot in the cap sensor



6 Check the touch panel display, then tap OK.



#### 7 Tap the [CLEAR ALARM] button on the touch panel.

• [When using AP50]
After replacing the tank, insert the ink IC into the ink IC unit, then perform ink charging. "Ink Charging and Disposal"(P. 184)

# 1.6 Purified Water Replenishment Procedure

# When Purified Water Near End is Displayed

Once the remaining purified water level is low, "0689 Purified Water NEAR END" will appear in SYSTEM ALARM on the touch panel.

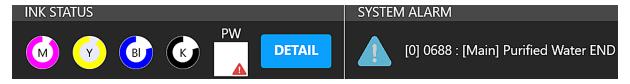
We recommend replenishing purified water as soon as possible.

You can check the remaining purified water level in INK STATUS on the touch panel.



## When Purified Water End is Displayed

Once purified water runs out, "0688 Purified Water END" will appear in SYSTEM ALARM on the touch panel. Perform the following steps to replenish purified water.





- Water feeding to the moisture tray and dripping to the wiper stop when purified water runs out.
- While printing and cleaning are possible, using the machine in this state may lead to ejection failures (such as nozzle clogging or deflection). Replenish purified water immediately when purified water runs out.

# **Replenish Purified Water**



· Always wear safety glasses and gloves when doing this work.

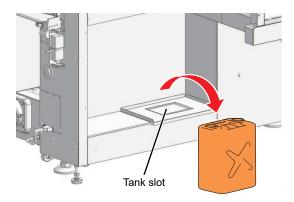




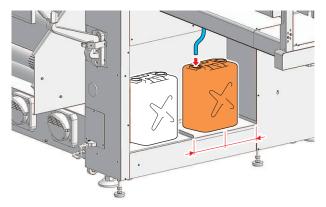
Watch your head when performing work under the station.

#### Procedure

1 Lower the purified water tank from the purified water tank slot.



- **?** Replenish purified water in the purified water tank.
- 3 Place the purified water tank on the purified water tank slot, then insert the purified water tube from the top panel into the purified water tank.





- Insert the tube into the purified water tank immediately after the purified water tank is placed on the purified water tank slot.
- 4 Check to confirm that the tube end sinks in the purified water tank.



- If the tube is not in the purified water tank when water feeding starts, air may enter the tube, causing it to rise up and preventing normal water feeding.
- If air enters the tube and the tube rises up, contact your local dealer or our service office.
- 5 Tap the [CLEAR ALARM] button on the touch panel.

# **Chapter 2 Printing**



#### This chapter

This chapter describes printing procedures and settings.

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reached	
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# 2.1 Print Process

# Setting Up RIP Software

- "Installing RIP Software"(P. 48) (required first time only)
- "Setting up an Ethernet connection" (P. 43) (required first time only)
  - 2. Set up the control PC and RIP PC on the same local network.
- "Connecting to a Local Network"(P. 41) (required first time only)
  - If the system is not connected to a local network, you can use a removable disk to store jobs (RIP data) in MPC. "With Output Port Set to [File Interface]" (P. 105)
  - 3. Load the media.

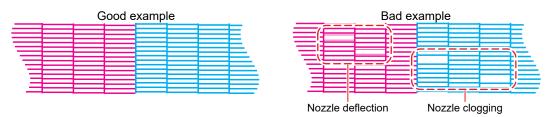
The load the media."(P. 68)

# 4. Setting the Head Gap

"Setting the Head Gap"(P. 90)

5. Check the state of the print head nozzles.

"Test Printing"(P. 91)



**6** Clean the head to clear malfunctioning nozzles.

"Head Cleaning"(P. 95)

7. Adjust the drop position for bi-directional printing.

"Correcting the Drop Position"(P. 97)

8. Import the job (RIP data) into MPC.

"Preparing a Job (RIP Data)"(P. 99)

**9.** Print the job (RIP data).

(P. 116)

# 2.2 Load the media.



 Adjust the head height before loading media. Moving the carriage after the media has been loaded may result in the print head coming into contact with the media and being damaged.

#### Media

#### Media handling precautions



Use Mimaki-approved media to ensure consistent high-quality printing.

#### **WARNING**



 Assign at least two people to load roll media. Otherwise there is a risk of back injury due to the weight of the media.

#### **NOTICE**



When using a lifter to load the media, check the lifter specifications before commencing.



• An air compressor is required for loading the media (recommended pressure 0.5 MPa).



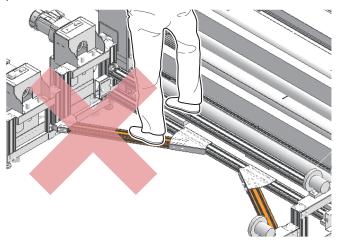
- Do not use media soon after it has been removed from its packaging. The media may expand or contract depending on the temperature and humidity of the location in which it was stored. Allow the media to stand for at least 24 hours in the same indoor environment as the machine before loading it.
- · Adjust the indoor conditions to suit the media used.
- Do not use media with wrinkles or misaligned roll edges. Doing so may impair print quality.



- Store unopened media in a cool, dry location away from direct sunlight.
- · After opening, be careful not to touch the surface (especially the printing surface).
- If the media is left out for extended periods, such as overnight, wrap plastic sheeting or similar at least once around the exterior of the media. This will help prevent any effects from ambient condition variations.

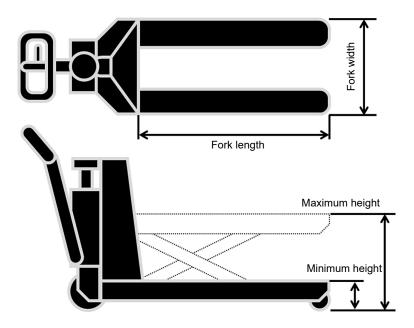


• Do not stand on or place heavy objects on the winding unit beams (parts shown in orange in the diagram below).



# • Lifter specifications

Item	Requirements
Load capacity	Min. 350 kg
Fork length	800 mm or more
Fork width	500 to 700 mm (fork external dimension)
Minimum height	Max. 150 mm
Maximum height	500 mm or more
Recommended lifter	HC-10B-70 (load capacity 1,000 kg)



# **Preparation**

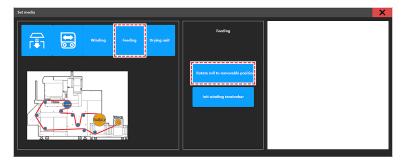
- When no media is loaded (at the time of new installation)"(P. 70)
- When media is loaded (at the time of media replacement)"(P. 72)

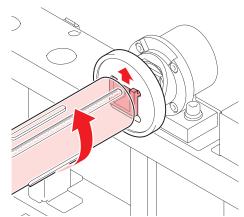
#### When no media is loaded (at the time of new installation)

- **↑** Tap [SET 2] > [Media] > [Set media] on the touch panel.
- **9** Switch the maintenance switch to maintenance mode. The "Maintenance Switch" (P. 39)
- 2 Lower the two tension bars on the feeding side and take-up side.

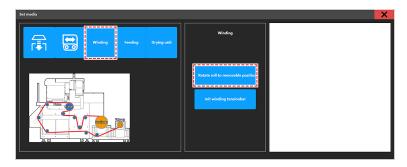


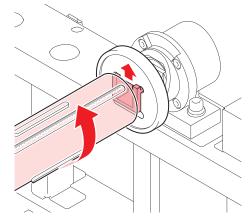
- If the tension bar is at the retract position, [Rotate roll to removable position]] in Steps 4 to 5 will not function.
- Tap [Feeding] > [Rotate roll to removable position] on the touch panel to rotate the air shaft until the air shaft inlet is facing upward.



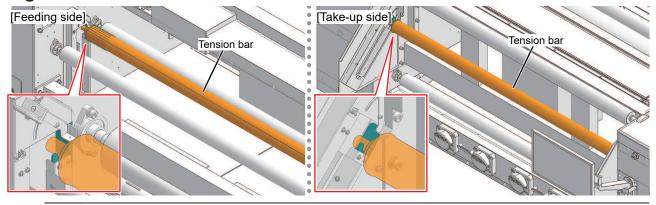


Tap [Winding] > [Rotate roll to removable position] on the touch panel to rotate the air shaft until the air shaft inlet is facing upward.





**6** Retract the two tension bars on the feeding side and winding side.

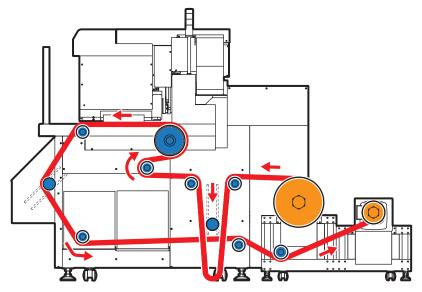




- Hold the tension bars level (two people should be used for this task). The tension bars may not operate correctly if they are not kept level.
- When raising or retracting the tension bars, move them slowly and support with your hands.

#### When media is loaded (at the time of media replacement)

1 Slacken the feeding media (release the automatic tension bar control) using either procedure A or procedure B described below.



#### · Procedure A

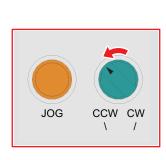
- (1) From MENU on the touch panel, tap [SET 2] > [Media] > [Set media].
- (2) Tap [Feeding] > [Rotate roll to removable position].

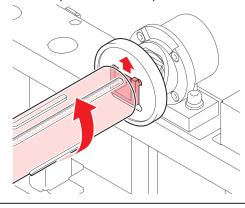


Check to confirm that the tension bar is not at the retract position.

#### Procedure B

- (1) Check to confirm that the feeding rotation direction switch is set to CCW.
- (2) Press the feeding JOG switch to feed the media.
  - · Release the switch once the removable position faces upward.

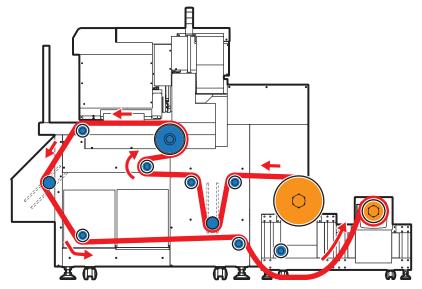






- Press the feeding JOG switch until the feeding tension bar is fully lowered, then check to confirm that the removable position is facing upward.
- · If the feeding tension bar is not fully lowered, it will drop when the media is cut.

# 2 Slacken the take-up media (release the automatic tension bar control) using either procedure A or procedure B described below.



#### Procedure A

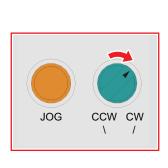
- (1) From MENU on the touch panel, tap [SET 2] > [Media] > [Set media].
- (2) Tap [Winding] > [Rotate roll to removable position].

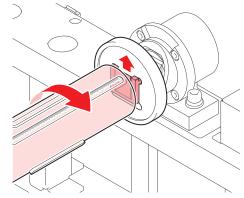


• Check to confirm that the take-up tension bar is not at the retract position.

#### Procedure B

- (1) Turn the take-up rotation direction switch to CW.
- (2) Press the take-up JOG switch to feed the media.
  - · Release the switch once the removable position faces upward.

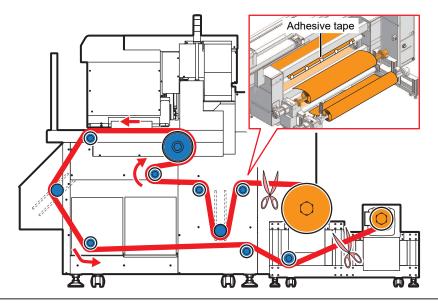






- Press the take-up JOG switch until the take-up tension bar is fully lowered, then check to confirm that the attach/detach position is facing upward.
- If the take-up tension bar is not fully lowered, it will drop when the media is cut.

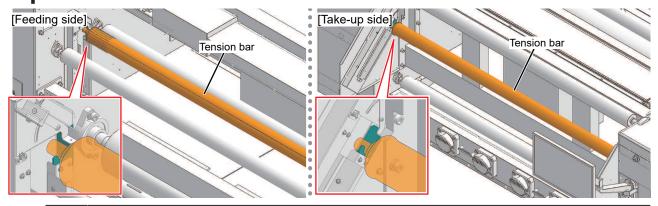
## 3 Cut the media.





• Fix the cut media to the return bar with adhesive tape.

## **1** Retract the tension bars.

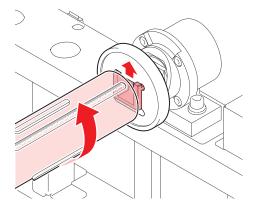


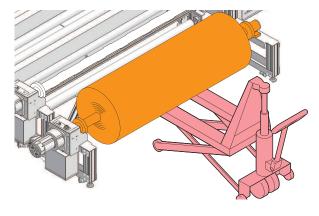


- Hold the tension bars level (two people should be used for this task). The tension bars may not operate correctly if they are not kept level.
- When raising or retracting the tension bars, move them slowly and support with your hands.

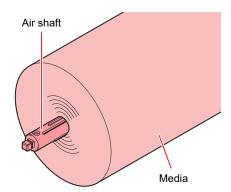
#### 5 Remove the take-up media.

• If the removable position does not face upward, press the take-up JOG switch to turn the removable position upward.



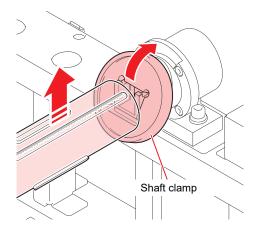


## 6 Pull out the take-up air shaft.

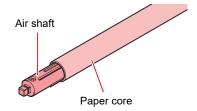


## 7 Remove the feeding media (paper core).

• If the removable position does not face upward, press the feeding JOG switch to turn the removable position upward.



## 8 Pull out the feeding air shaft.

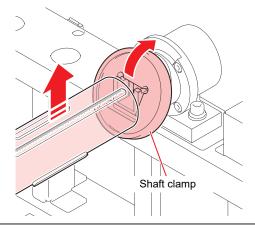


## Loading the Media on the Feeding Air Shaft



• Skip to Step 3 when media is loaded (at the time of media replacement).

1 Tilt the shaft clamp.

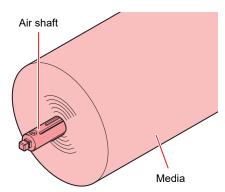




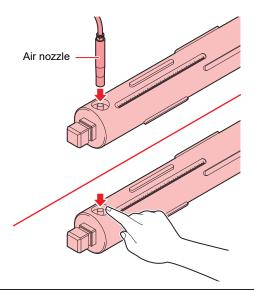
• Before tilting the shaft clamp, be sure to check that the air shaft inlet is facing upward.



- The shaft will not rotate unless the power is turned on.
- Be careful to avoid catching your hands or fingers when using force to move the shaft clamp.
- The shaft clamp movement is made stiff to ensure safety. A plastic hammer or similar can be used if it is difficult to move.
- **?** Remove the air shaft.
- 3 Insert the feeding air shaft into the media roll.

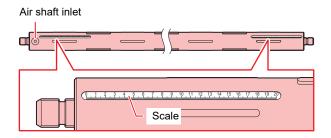


Adjust the air shaft position, then use the air nozzle provided to feed air into the air shaft and secure the media.





- Load so that the readings are identical on the scales at both ends of the air shaft.
- Be sure to mount with the air shaft inlet on the motor side.



Media loading position



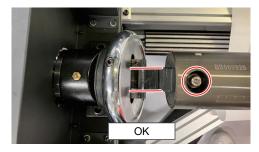
 Reference: For a media width of 1,620 mm, the readings should be approximately 14.5 mm on both left and right.

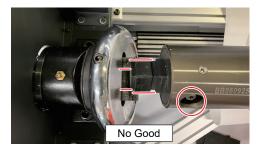


- If the air is insufficient, the media may slip, causing feeding problems.
- Applying pressure until the paper core deforms may cause feeding problems.
   Recommended pressure: 0.5 MPa

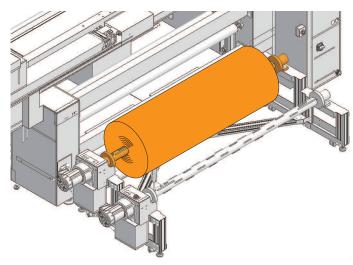


- When using a lifter, supply the air with the media placed on the lifter.
- Place the media on the lifter forks and adjust the angle so that the air shaft can be inserted into the grooves.

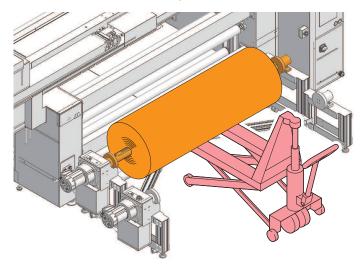




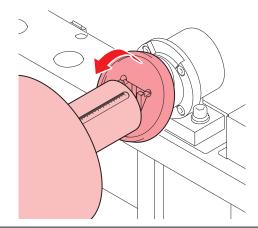
## 5 Move the media to the feeding shaft clamping position.



When using lifter
 When using a lifter, remove the front take-up air shaft.



## 6 Lower the media and clamp the feeding shaft.





• Be sure to clamp the shaft securely. There is a risk of the air shaft falling off if the media is rotated without clamping it, posing hazards.



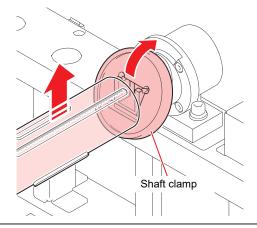
- Be careful to avoid catching your hands or fingers when using force to move the shaft clamp.
- The shaft clamp movement is made stiff to ensure safety. A plastic hammer or similar can be used if it is difficult to move.

## Loading the Paper Core on the Take-up Air Shaft



• Skip to Step 3 when media is loaded (at the time of media replacement).

1 Tilt the shaft clamp.

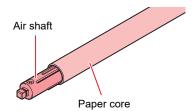




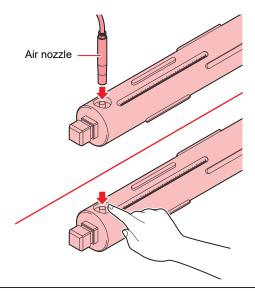
• Before tilting the shaft clamp, be sure to check that the air shaft inlet is facing upward.



- The shaft will not rotate unless the power is turned on.
- Be careful to avoid catching your hands or fingers when using force to move the shaft clamp.
- The shaft clamp movement is made stiff to ensure safety. A plastic hammer or similar can be used if it is difficult to move.
- **?** Remove the air shaft.
- 3 Insert the take-up air shaft into a new paper core.

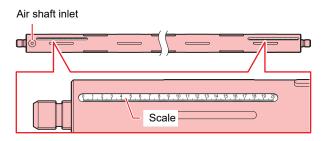


Adjust the air shaft position, then use the air nozzle provided to feed air into the air shaft and secure the paper core.





- · Load so that the readings are identical on the scales at both ends of the air shaft.
- Be sure to mount with the air shaft inlet on the motor side.

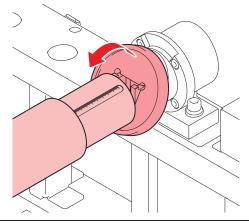


Paper core loading position



- · If the air is insufficient, the paper core may slip, causing feeding problems.
- Applying pressure until the paper core deforms may cause feeding problems.
   Recommended pressure: 0.5 MPa

## 5 Clamp the take-up shaft.





 Be sure to clamp the shaft securely. There is a risk of the air shaft falling off if rotated without clamping it, posing hazards.



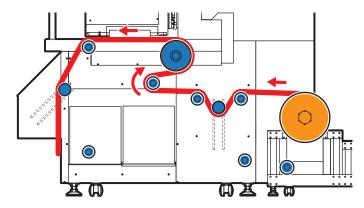
- Be careful to avoid catching your hands or fingers when using force to move the shaft clamp.
- The shaft clamp movement is made stiff to ensure safety. A plastic hammer or similar can be used if it is difficult to move.

## Loading Media on to the Printer Main Unit

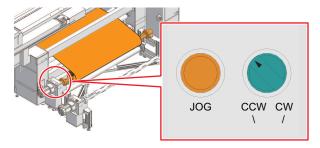
- # "When no media is loaded (at the time of new installation)"(P. 81)
- When media is loaded (at the time of media replacement)"(P. 84)

## When no media is loaded (at the time of new installation)

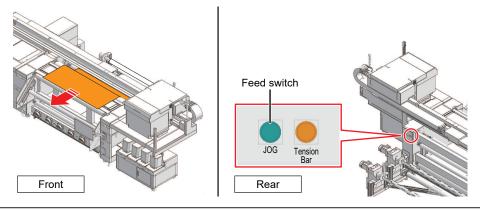
1 Feed the media through to the printer main unit.



- (1) Feed the media through with the tension bar raised.
  - Use the feeding JOG switch to feed the media.
  - · Turn the feeding rotation direction switch to CCW.



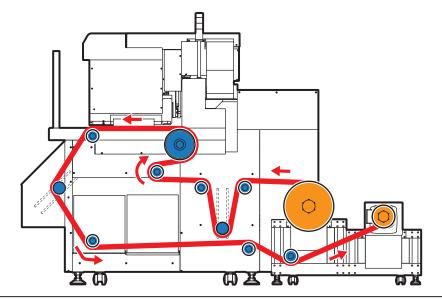
- (2) Feed the media as far as the printing surface.
  - Pull the media out from the platen side at the front, and use the rear feed switch and feeding JOG switch to feed the media.





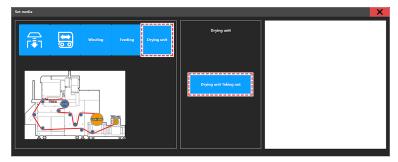
• The media can be loaded more easily if the task is performed by two persons, one at the front and one at the rear.

## **7** Feed the media underneath the printer.

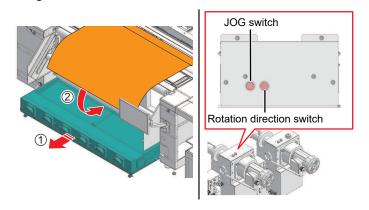




- Loading the media on to the take-up paper core requires feeding out approximately 6 m of the media.
- (1) Tap [Drying unit] > [Drying unit Taking out] on the touch panel, then pull out the drying unit.

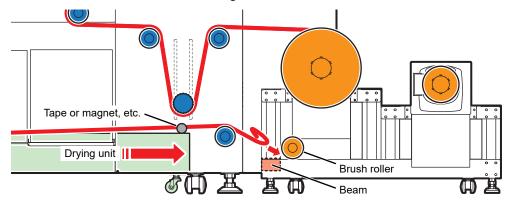


(2) Use the feeding JOG switch to feed out the media.



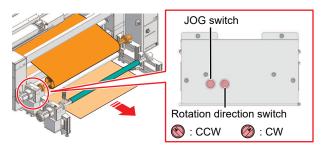


- Pulling out the drying unit then securing the fed media to the drying unit (with adhesive tape or magnets, etc.) makes it easier to feed the end.
- When feeding under the brush rollers on the take-up and feeding unit, folding over the end if the media to increase its strength makes this easier.



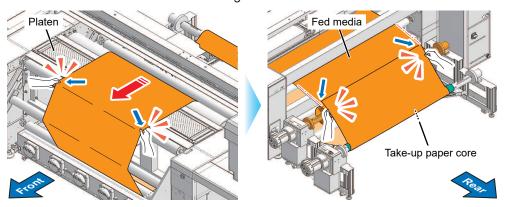
### Press the feeding JOG switch to feed the media.

• Feed the media to the position where it can be wound on to the paper core.



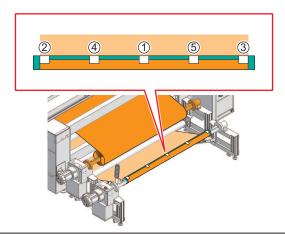


- Load media straight using the following procedure.
  - (1) Tension the media on the platen to ensure it is straight.
  - (2) Align the media to be attached to the take-up paper core with the fed media, and confirm that the media is straight.



#### ▲ Secure the media to the take-up paper core.

· Secure the media with adhesive tape.



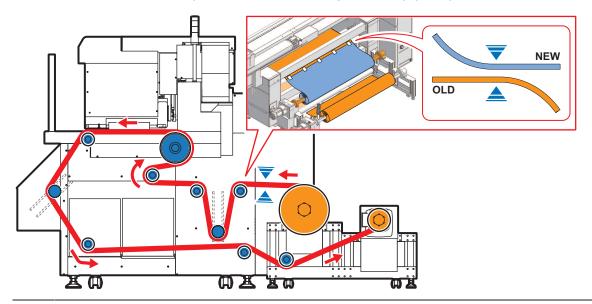


- Pull the roll media evenly on both the left and right sides, aligning both edges, check to confirm that it is free of sagging and creasing, then affix the tape.
- If the end of the media is damaged, pull it out to where there are no wrinkles or folds, then cut it and tape it down.

#### When media is loaded (at the time of media replacement)

1 Connect the feeding media to the end of the media cut in Step 3 in [Preparation] > [When media is loaded (at the time of media replacement)].

"When media is loaded (at the time of media replacement)"(P. 72)





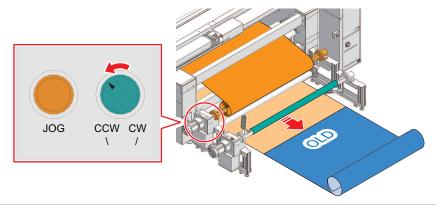
• Tape them securely. Otherwise, the feeding media may be removed from the cut media when loading media.



• Taping them with the loaded media (OLD) facing down makes it easier to feed the end.

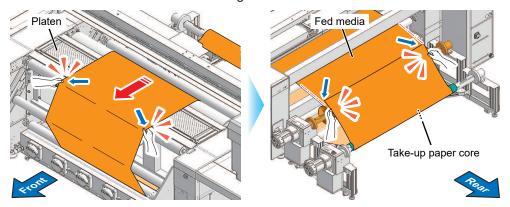
#### **?** Press the feeding JOG switch to feed the media.

- · Turn the feeding rotation direction switch to CCW.
- Feed the media until the media loaded in the machine (approximately 6 m) goes through the takeup air shaft.
- · Cut the taped portion.



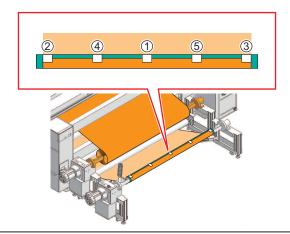


- · Load media straight using the following procedure.
  - (1) Tension the media on the platen to ensure it is straight.
  - (2) Align the media to be attached to the take-up paper core with the fed media, and confirm that the media is straight.



## 3 Secure the media to the take-up paper core.

• Secure the media with adhesive tape.



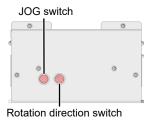


- Pull the roll media evenly on both the left and right sides, aligning both edges, check to confirm that it is free of sagging and creasing, then affix the tape.
- If the end of the media is damaged, pull it out to where there are no wrinkles or folds, then cut it and tape it down.

# **Initializing the Tension Bar**

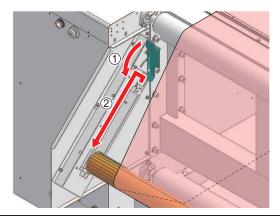
#### Press the feeding JOG switch to feed the media.

• Feed the media to the position where the take-up tension bar can be lowered.



#### 2 Lower the tension bar.

 Use the feeding JOG switch to feed out the media until the tension bar lowers to its lowest position.



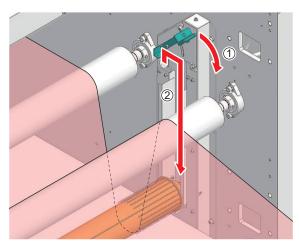


 When lowering the tension bar (when passing through the rail), support it with your hand and lower it slowly. The tension bar may not operate correctly if it is subjected to excessive force.

The tension bar may drop if the stopper is released without supporting it, posing hazards.

## 3 Lower the feeding tension bar.

 Use the feeding JOG switch to feed out the media until the tension bar lowers to its lowest position.

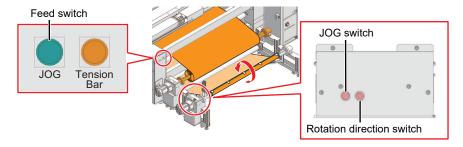




 When lowering the tension bar (when passing through the rail), support it with your hand and lower it slowly. The tension bar may not operate correctly if it is subjected to excessive force.

The tension bar may drop if the stopper is released without supporting it, posing hazards.

- ⚠ Press the feeding JOG switch to feed the media.
- 5 Press the take-up JOG switch and feed switch to wind the media at least five times around the paper core.





- Check to confirm that the media edges are not misaligned.
- Wind so that the take-up tension bar cannot rise fully.



- If there is insufficient media, press the feeding JOG switch and feed switch to feed out the media.
- **6** Tap [Set media] > [Winding] on the touch panel, then press the Tension Bar switch.
  - · The take-up tension bar is initialized.



If an error occurs

- Use the feeding JOG switch to lower the tension bar to its lowest position, and try again. Be careful to ensure that the media does not sag down here.
- 7 Tap [Set media] > [Feeding] on the touch panel, then press the Tension Bar switch.
  - · The feeding tension bar is initialized.

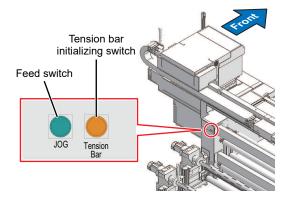


If an error occurs

• Use the feeding JOG switch to lower the tension bar to its lowest position, and try again. When repeating the procedure, be careful so that the media does not sag down.



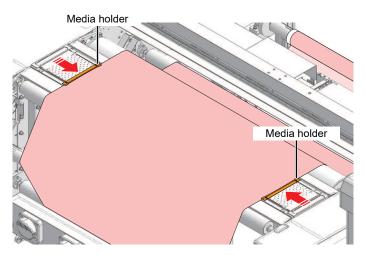
- Pressing the feed switch after initializing the tension bar also feeds the feeding and takeup units in unison with the X drive roller.
- Pressing the Tension Bar switch at the rear of the printer initializes both the feeding tension bar and the take-up tension bar.



- R Tap [Forward feed] on the touch panel.
  - · The tension bar operates.



- Switch the maintenance switch to print mode. The "Maintenance Switch" (P. 39)
- 1 Position the media holders.



11 Turn on the platen vacuum.



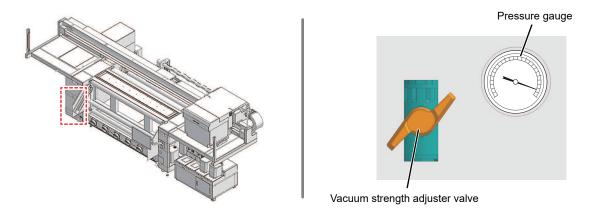


 Be sure to check the ink levels and waste ink level before starting printing. Printing will stop midway if there is insufficient ink.



• Be careful to avoid objects being dragged into the take-up unit during printing (during take-up). Otherwise, there is a risk of clothing etc. being dragged in. Where this is unavoidable, for example when checking print quality, either pause printing or check inside while holding the emergency box.

## **Adjusting the Vacuum Pressure (When Using Grooved Platen)**



#### Conditions for adjusting the vacuum strength adjuster valve

#### 1 When changing the media width

- When the media width decreases: Increase the pressure (open the vacuum strength adjuster valve)
- When the media width increases: Decrease the pressure (close the vacuum strength adjuster valve)

## **9** When cockling or feed accuracy is an issue

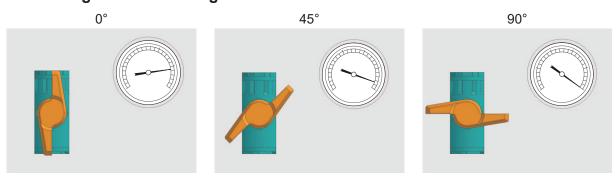
- To minimize cockling Increase the pressure (open the vacuum strength adjuster valve)
- To improve feed accuracy: Decrease the pressure (close the vacuum strength adjuster valve)



Adjust the vacuum strength adjuster valve referring to the pressure adjustment ranges shown below.

- If the pressure is below the adjustment range, there is a risk of the media lifting up.
- If the pressure exceeds the adjustment range, there is a risk of degraded feed accuracy.

#### Valve angle reference diagrams



Media Width	Pressure adjustment range	Vacuum strength adjuster valve angle
1,900 mm sublimation transfer paper	-0.1 kPa to -0.25 kPa	62° to 67°
1620 mm sublimation transfer paper	-0.2 kPa to -0.4 kPa	45° to 55°
1,400 mm water-based pigment	-0.5 kPa to -0.7 kPa	0 to 40°

# 2.3 Setting the Head Gap

Set the height from the media to the print head nozzle surface.



- Be sure to correct the dot position after altering the print head height. © "Correcting the Drop Position"(P. 97)
- Adjust the print head height to suit the media. With inkjet printers, if the gap between the print
  and media increases, the ink droplets may vaporize before they reach the media. Vaporized ink
  may adhere to the print head nozzle surface and media, affecting print quality and causing
  failure of the print head.
- **1** From MENU on the touch panel, tap [SETTING 2].
- 7 Tap [Media] > [Head gap].
- 3 Enter the head gap value.
  - · Setting value: 2.0 to 4.0 mm
- Tap [SET].

## **Checking the Head Gap Value**

- **from MENU on the touch panel, tap [SETTING 2].**
- 7 Tap [Media].
  - The head gap value is displayed.

# 2.4 Test Printing

Print a test pattern to confirm that the ink prints correctly. Perform head cleaning if you observe any ejection failures (e.g., nozzle clogging or deflection). \*\* "Head Cleaning"(P. 95)

#### Check beforehand

- Is media loaded? The media."(P. 68)
- Is the maintenance switch set to print mode? The "Maintenance Switch" (P. 39)
- Did you set the head gap? Tetting the Head Gap"(P. 90)

## **Checking Print Head Discharge**

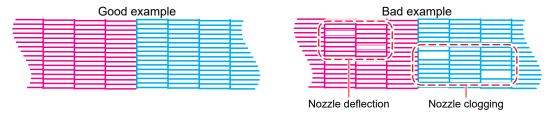
- From the MPC menu, tap [PRINT] > [TEST PATTERN] > [User] > [TestPattern] > [TestDraw].
  - · A dialog box appears.
  - Set the print origin as necessary. Tetting Print Conditions"(P. 117)
  - The layout can be changed automatically when using repeated printing. (P. 94)



#### **7** Tap [Print].

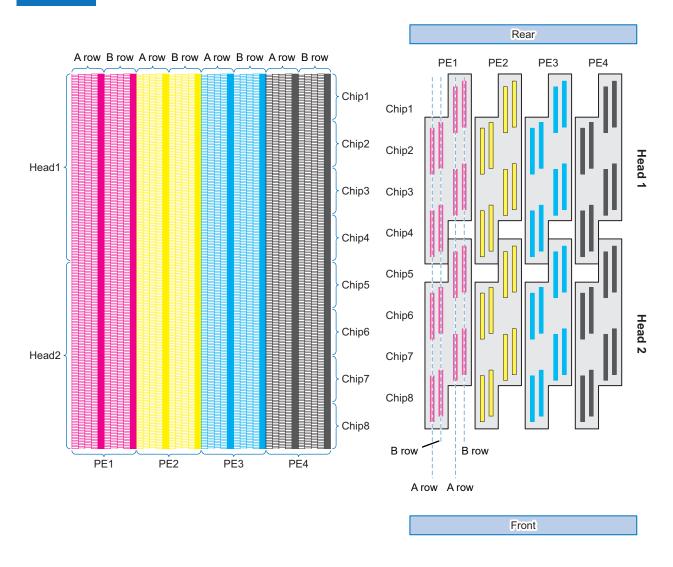
· Test printing starts.

## 3 Check the print results.

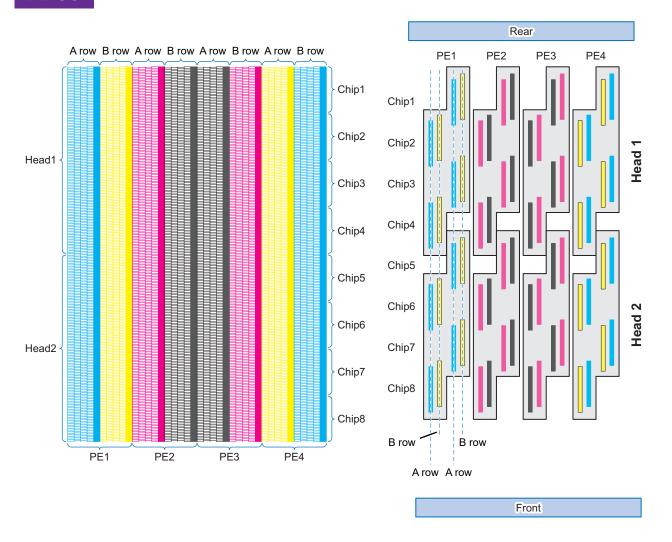


• Nozzle layout for TestDraw

## **SB510**



# **AP50**



## **Printing Layout and Direction**

You can change the printing layout and direction.

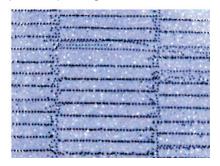
- **1** From MPC, tap [SETTING 1].
- 7 Tap [Internal pattern] > [Auto print origin shift].
  - · A dialog box appears.

Internal pattern	Set the print position for printed patterns used in test printing or for correcting the drop position.	
Origin shift	<ul> <li>Origin shift: Prints in the direction specified when set to ON.</li> <li>Origin shift direction: Set the print direction.</li> <li>: Scan (horizontal) direction.</li> </ul>	
Origin shift margin	Y margin: Sets the scan (horizontal) direction margin.	

**3** Tap [SET].

## **Ejection Failures**

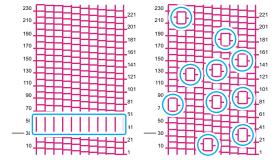
Typical examples of ejection failures (e.g., nozzle clogging, deflection) are as shown below. In order to prevent printing in such a state, check whether the ink has been properly ejected regularly before printing.











# 2.5 Head Cleaning

## Cleaning

The following cleaning methods are available. Choose the method based on test results.

Item	Details
Soft	If the print shows bent lines (nozzle deflection)
Normal	If the print shows missing lines (nozzle clogging)
Hard	If soft cleaning and normal cleaning fail to resolve ejection failures (e.g., nozzle clogging or deflection).



- Cleaning is not possible when [Ink End] is displayed. Replace with new ink. "Ink Tank Replacement Method"(P. 56)
- **1** From the MPC menu, tap [MAINTENANCE].
  - · The Maintenance menu is displayed.
- 7 Tap [Cleaning] > [Cleaning].
  - The Cleaning menu is displayed.



- The Cleaning menu can also be accessed by tapping [Cleaning] in the quick menu.
- 3 Select the type of cleaning and the head to be cleaned.
- 4 Tap [EXEC].
- 5 Run another test print and check the print results.
  - · Repeat the cleaning and test printing process until the print results appear normal.



- Do the following if head cleaning fails to resolve ejection failures such as nozzle clogging or deflection:
- "Wiper Cleaning"(P. 159)
- "Powerful Cleaning"(P. 95)
- "Cleaning the Print Head Nozzle Surface"(P. 174)

## **Powerful Cleaning**

Powerful cleaning is a function for helping to resolve ejection failures. It involves applying high pressure inside the sub-tank to eliminate all ink from inside the sub-tank, purging any air from inside the head, and then replacing the old ink inside the sub-tank with new ink.



- Powerful cleaning consumes approximately 130 ml of ink.
- 1 From the MPC menu, tap [MAINTENANCE].
  - · The Maintenance menu is displayed.

- Tap [Cleaning] > [Powerful cleaning].
- 3 Select the head to be cleaned.



- Only one head unit can be selected for powerful cleaning. If you wish to perform powerful cleaning on multiple heads, repeat the procedure, changing the head selected.
- 4 Tap [EXEC].

# 2.6 Correcting the Drop Position

Changing the media and print head height will alter the drop positions during bi-directional printing. Correct the drop position to suit the type of media used. Image defects (e.g., overlaid lines or blurred images) will result if the drop position is not properly corrected.

#### Check beforehand

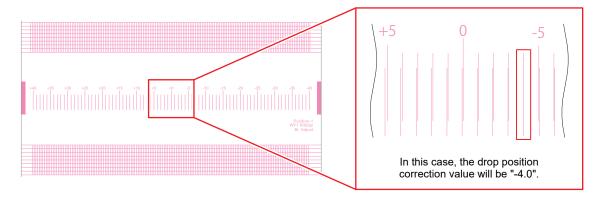
- Is media loaded? The media."(P. 68)
- Is the maintenance switch set to print mode? The "Maintenance Switch" (P. 39)
- Did you set the head gap? Tetting the Head Gap"(P. 90)



- Load media at least 500 mm wide. You cannot print the entire pattern if media less than 500 mm wide is used.
- 1 From MENU on the touch panel, tap [SETTING 2].
- **7** Tap [Bi-directional adjustment] > [\*\*\*\* \*\*pattern].
  - · Select the resolution to adjust.



- The indicated resolutions are those in the scan direction.
- 3 Tap [EXEC].
- Check the print results.
  - · A correction value input screen appears.
  - Enter the position where the two upper and lower lines coincide.





For System Pack version 1.03.0 and later, grid patterns are added to the top and bottom
of the correction pattern, but they are not used for adjustment.
 Grid pattern printing is indented for consistent discharge and more precise adjustment.



- Printed using cyan with the AP50 ink set.
- 5 Tap [Bi-directional adjustment] > [Adjust Bi-directional print].
- 6 Enter the correction value.
  - · Correction value: -40 to 40
- **7** Tap [EXEC].



• If the lines do not coincide when the correction value is within the range -40 to 40, the head gap may be inappropriate. Adjust the gap. Tetting the Head Gap"(P. 90)

# 2.7 Preparing a Job (RIP Data)

The explanation here applies to MIMAKI RIP software (TxLink and RasterLink). The method for importing jobs (RIP data) to the machine (control PC) differs depending on the output port setting (\*\* "Setting Up RIP Software"(P. 48)) in the TxLink and RasterLink printer settings.

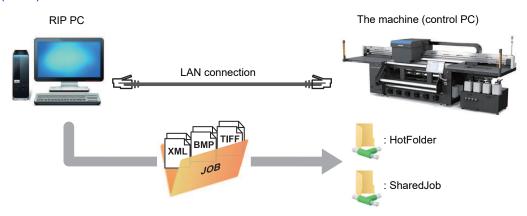


- · Prepare suitable image data for printing.
- Load a job to the control PC for printing using the following procedure. Other methods (such as using the control PC to access a server and printing a job from the server) are not recommended, as they may cause unexpected problems.

## When using TxLink

## With Output Port Set to [MIMAKISTATUSPORT]

Import jobs (RIP data) to the machine (control PC) using a local network. (PC) using a local network. (PC) using a local network.



The shared folder for the machine (control PC) includes the following two types: These should be used as necessary, as the operation differs depending on the data saving destination.

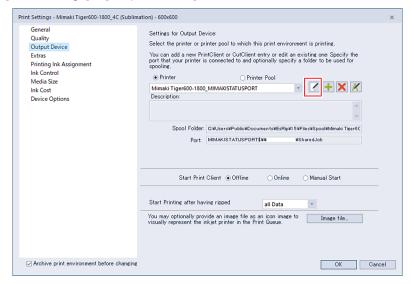
Item	Overview
SharedJob	<ul> <li>Saving data in [SharedJob] adds the jobs to the MPC job list. Twhen saved to [SharedJob]"(P. 103)</li> </ul>
	<ul> <li>Jobs can be printed by selecting from the job list.</li> </ul>
HotFolder	Saving data in [HotFolder] starts printing immediately.
	<ul> <li>Printing is not always started immediately, even if you save to [HotFolder].</li> </ul>

#### **Creating RIP Data**

- 1 Launch TxLink.
- **2** Set the port type to [MIMAKISTATUSPORT].
  - (1) Click the printer configuration button at the top of the window.



- (2) Click [SET].
- (3) Click [Print settings] > [Output Device], then click the edit button.



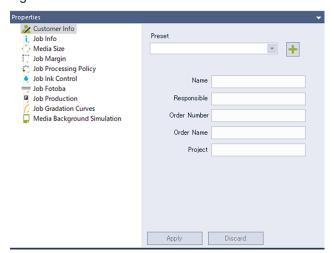
- (4) Select [MIMAKISTATUSPORT] for the port type, then click [OK]. The output shared folder can be selected from the following:
  - SharedJob: To print from [JOB LIST] on the touch panel (Example: [\\\*\*\*\*\*\SharedJob])
  - HotFolder: To print automatically (Example: [\\\*\*\*\*\*\HotFolder])



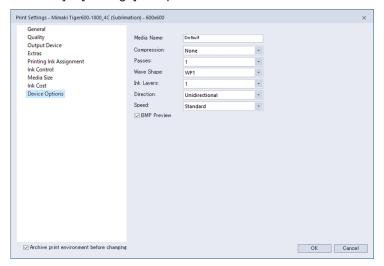
- Please change "\*\*\*\*\*\*" to the serial number of the printer.
- From MENU on the touch panel, tap [SYSTEM] > [System information] to display the serial number on the browser screen at right.
- 3 Select the image data to print.
  - (1) Select [File] > [Open].
  - (2) Select the desired image data, then click [Open].

## ⚠ Check the settings and alter as necessary.

- Configure the following print settings as required:
  - · Properties on right of window



• [Print environment] > [Settings] at top of window

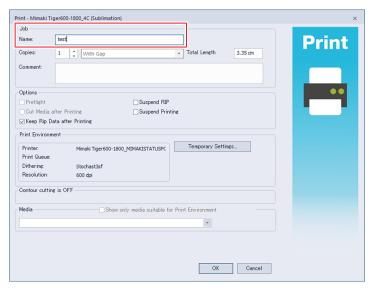


#### 5 Prepare a job (RIP data) from image data.

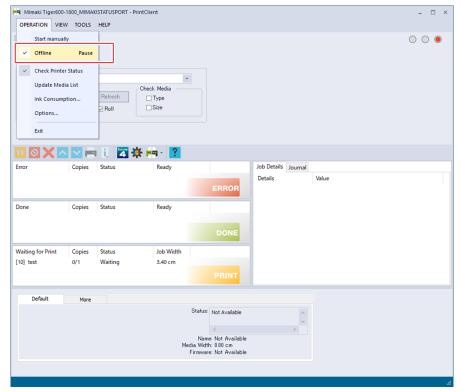
• Clicking the [Print] button at the top of the window displays the print dialog.



· Set the name, then click [OK].



Clicking the [Start print client] button at the top of the window displays the print client dialog.
 Click [Controller] > [Offline] at the top of the window to unselect the offline check box. The job output then starts automatically.

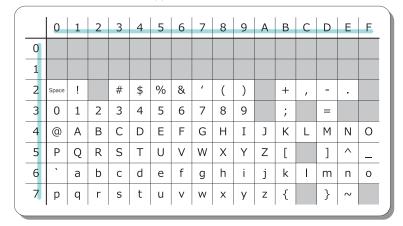


- When the output destination folder is [SharedJob]: The RIP job is added to the touch panel job list. "When saved to [SharedJob]"(P. 103)
- When the output destination folder is [HotFolder]: "Job receiving" is displayed in the lower-left corner of the touch panel screen, and printing starts. "When saved to [HotFolder]"(P. 103)



When saving on the RIP PC, only the following ASCII characters can be used. Printing will
not be possible if other characters are included.

File name and folder name supported characters list



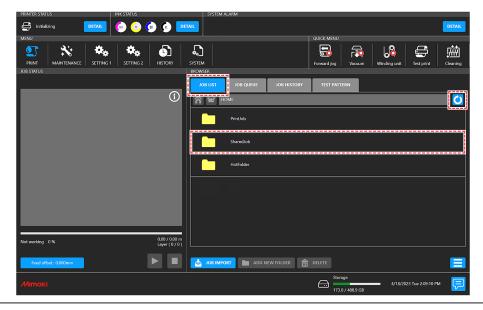
## When saved to [SharedJob]

Saving data in [SharedJob] adds the jobs to the MPC job list.

### Job checking procedure

Jobs that have been successfully loaded are saved in [SharedJob].

• From MENU on the touch panel, tap [PRINT] > [JOB LIST] > [SharedJob].





If a job is not displayed, tap the refresh button.

#### When saved to [HotFolder]

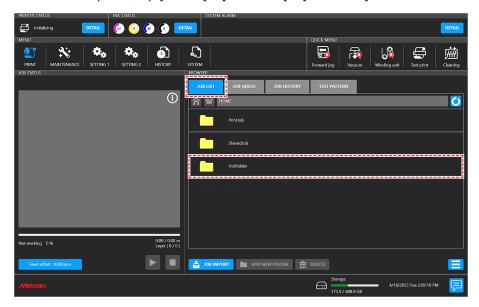
Saving data in [HotFolder] starts printing immediately.

- · If another job is currently being printed
  - The job is added to the queue. Printing starts automatically when the other job print is complete.

#### Job checking procedure

Jobs that have been successfully loaded are saved to [HotFolder].

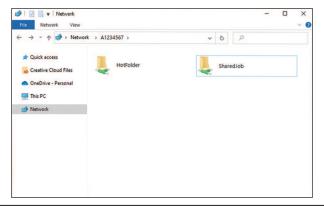
• From MENU on the touch panel, tap [PRINT] > [JOB LIST] > [HotFolder].



### Copying jobs to a shared folder at any time

Jobs can be created in advance on the RIP PC, and then copied to the shared folder at any time for importing to MPC.

- Create a job on the RIP PC in advance.
- 2 Copy the job created on the RIP PC to the shared folder (SharedJob or HotFolder) to be used.
  - Enter [\\\*\*\*\*\*\*] in the Explorer address bar to open the shared folder of the machine.





- Please change "\*\*\*\*\*\*\*" to the serial number of the printer.
- From MENU on the touch panel, tap [SYSTEM] > [System information] to display the serial number on the browser screen at right.

## With Output Port Set to [File Interface]

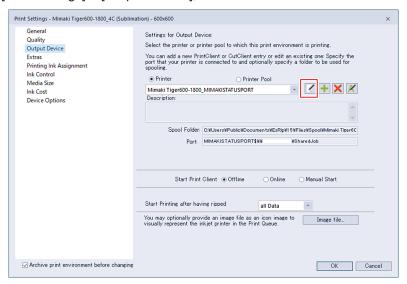
Import jobs (RIP data) to the machine (control PC) using an external hard drive (e.g., USB flash memory).

### **Creating RIP Data**

- 1 Launch TxLink.
- **9** Set the port type to [File Interface].
  - (1) Click the printer configuration button at the top of the window.



- (2) Click [SET].
- (3) Click [Print settings] > [Output Device], then click the edit button.



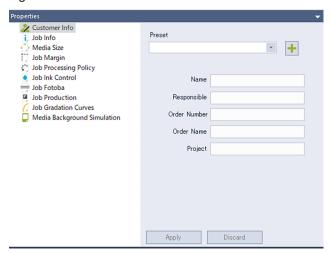
(4) Select [File Interface] for the port type, then click [OK]

## 3 Select the image data to print.

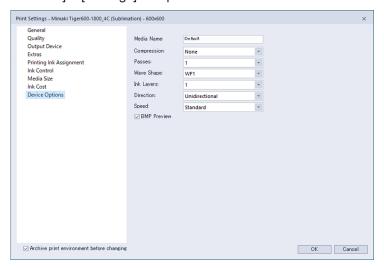
- (1) Select [File] > [Open].
- (2) Select the desired image data, then click [Open].

## ⚠ Check the settings and alter as necessary.

- Configure the following print settings as required:
  - · Properties on right of window



• [Print environment] > [Settings] at top of window

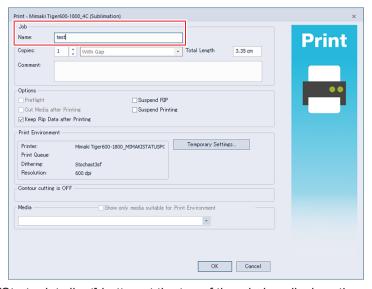


## 5 Prepare a job (RIP data) from image data.

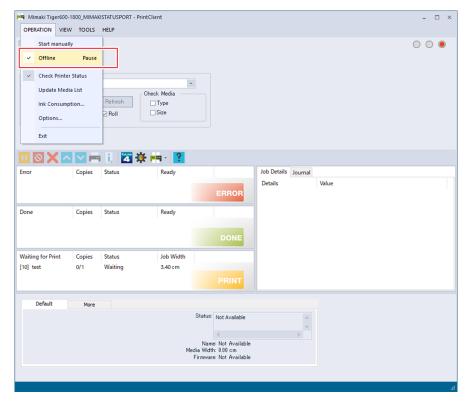
• Clicking the [Print] button at the top of the window displays the print dialog.



• Set the name, then click [OK].



Clicking the [Start print client] button at the top of the window displays the print client dialog.
 Click [Controller] > [Offline] at the top of the window to unselect the offline check box. The job output then starts automatically.



### Saving to an External Hard Drive (e.g. USB Flash Drive)

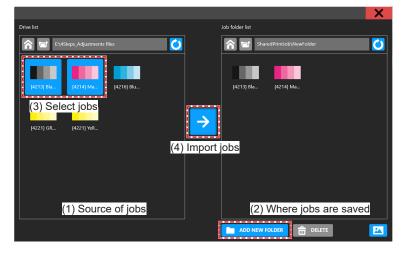
- 1 Save the job (RIP data) stored on the RIP computer to an external hard drive.
  - @ "Creating RIP Data"(P. 105)
- 2 Connect the external hard drive into the machine (control PC).
- 3 From MENU on the touch panel, tap [JOB IMPORT].



- · A dialog box appears.
- (1) Select the removable disk on which you will save the job.
- (2) Specify where to save the job.
  - To add a folder, tap [ADD NEW FOLDER]. When the dialog box appears, enter a folder name to add the folder.



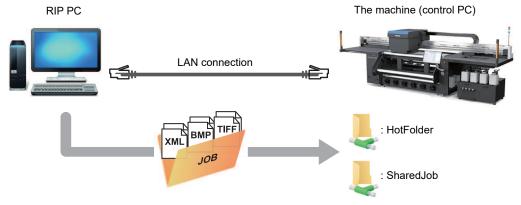
- (3) Select the job.
- (4) Tap  $[\rightarrow]$  to import the job.



# When using RasterLink

### With Output Port Set to [Ethernet]

Import jobs (RIP data) to the machine (control PC) using a local network. Connecting to a Local Network



The shared folder for the machine (control PC) includes the following two types: These should be used as necessary, as the operation differs depending on the data saving destination.

Item	Overview
SharedJob	Saving data in [SharedJob] adds the jobs to the MPC job list.       "When saved to [SharedJob]"(P. 111)
	<ul> <li>Jobs can be printed by selecting from the job list.</li> </ul>
HotFolder	Saving data in [HotFolder] starts printing immediately.
	<ul> <li>Printing is not always started immediately, even if you save to [HotFolder].</li> </ul>

### **Creating RIP Data**

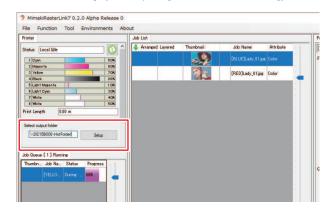
#### Launch RasterLink.

· Click the icon on the desktop of the RIP PC.



# **9** Select the shared folder from [Select output folder].

- SharedJob: To print from [JOB LIST] on the touch panel (Example: [\\\*\*\*\*\*\SharedJob]).
- HotFolder: To print automatically (Example: [\\\*\*\*\*\*\*\HotFolder]).

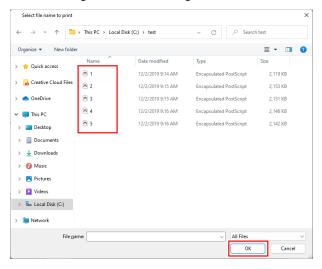




- Please change "\*\*\*\*\*\*\*" to the serial number of the printer.
- From MENU on the touch panel, tap [SYSTEM] > [System information] to display the serial number on the browser screen at right.

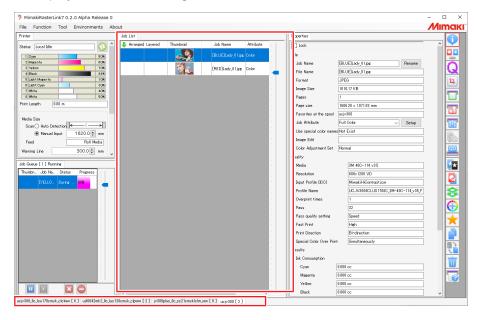
### 3 Select the image data to print.

- (1) Select [File] > [Open].
- (2) Select the desired image data, then click [Open].
  - If multiple printers are registered, select Tiger600 Series in "Printer Name".



### ▲ Select the loaded image data.

It will be displayed in the tab for Tiger600 Series selected in "Printer Name".



### 5 Check and alter the settings as needed.

- · Specify the following settings using the function icons on the right side of the screen.
  - (General Print): Specify settings such as enlargement/reduction and copying.
  - (Print Condition): Select a color profile that matches the media and ink set loaded in the machine.



 For more information, refer to the RasterLink reference guide. https://mimaki.com/ download/software.html

### 6 Prepare a job (RIP data) from image data.



- If the output port is set to [Ethernet], the job name is automatically determined by RasterLink and saved in the specified shared folder.
- Click (Execute) from the function icons on the right side of the screen. Select "RIP and Print", then click [Start].
- When the output destination folder is [SharedJob]: The RIP job is added to the MPC job list. When saved to [SharedJob]"(P. 111)
- When the output destination folder is [HotFolder]: "Job receiving" is displayed in the lower-left corner of the MPC screen, and printing starts. Twhen saved to [HotFolder]"(P. 112)



- If you select HotFolder, you can start printing while creating a job. You can start printing without waiting for a job to be completed, so you can reduce waiting time when printing long-distance jobs.
  - (1) Note 1
    - If you select HotFolder, use a 10GBASE-T network to connect the RIP PC and the control PC. If you connect with a network less than 10GBASE-T, scanning may stop during printing.
  - (2) Note 2
    - Longer distance jobs have larger file sizes. This can consume free space on the control PC, so refer to the following and delete jobs as needed during operation.
      - →Control PC job storage folder capacity: approx. 890 GB (initial state)
      - →Size estimates for jobs
        - 300 × 600 width 1,850 mm length 100,000mm (100 m): approx. 50 GB
        - 600 × 600 width 1,850 mm length 100,000 mm (100 m): approx. 100 GB
      - 600 × 1200 width 1,850 mm length 100,000 mm (100 m); approx. 200 GB

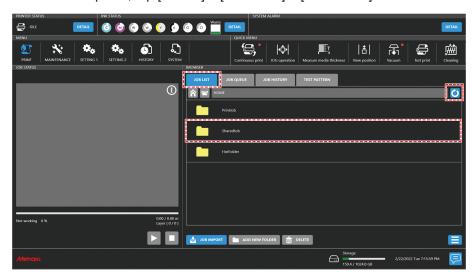
### When saved to [SharedJob]

Saving data in [SharedJob] adds the jobs to the MPC job list.

### Job checking procedure

Jobs that have been successfully loaded are saved in [SharedJob].

• From MENU on the touch panel, tap [PRINT] > [JOB LIST] > [SharedJob].





• If a job is not displayed, tap the refresh button.

### When saved to [HotFolder]

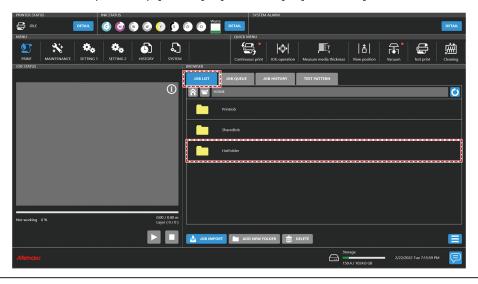
Saving data in [HotFolder] starts printing immediately.

- · If another job is currently being printed
  - The job is added to the queue. Printing starts automatically when the other job print is complete.
     However, if automatic operation mode or work change mode is turned on, continuous print mode will be turned off and printing will not start after the other job print is complete.

### Job checking procedure

Jobs that have been successfully loaded are saved to [HotFolder].

• From MENU on the touch panel, tap [PRINT] > [JOB LIST] > [HotFolder].





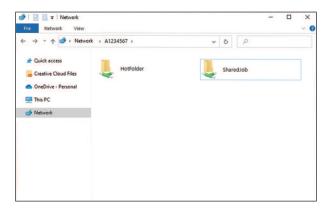
Up to 100 jobs can be saved to [HotFolder] by default. If the number of jobs exceeds 100, the oldest job in the print history will be deleted. The number of jobs that can be saved can be changed as follows:

Setting 2 Menu[System setting] > [HotFolder setting]

### Copying jobs to a shared folder at any time

Jobs can be created in advance on the RIP PC, and then copied to the shared folder at any time for importing to MPC.

- Create a job on the RIP PC in advance.
- 2 Copy the job created on the RIP PC to the shared folder (SharedJob or HotFolder) to be used.
  - Enter [\\\*\*\*\*\*\*] in the Explorer address bar to open the shared folder of the machine.





- Please change "\*\*\*\*\*\*\*" to the serial number of the printer.
- From MENU on the touch panel, tap [SYSTEM] > [System information] to display the serial number on the browser screen at right.

### With Output Port Set to [File]

Import jobs (RIP data) to the machine (control PC) using an external hard drive (e.g., USB flash memory).

### **Creating RIP Data**

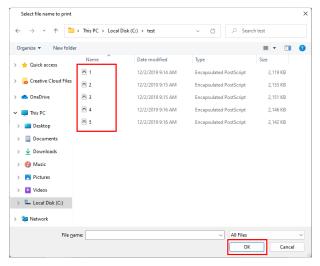
### 1 Launch RasterLink.

· Click the icon on the desktop of the RIP PC.



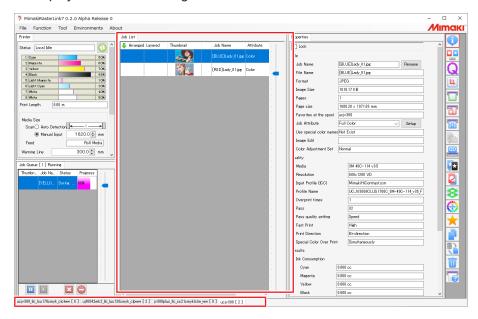
### 2 Select the image data to print.

- (1) Select [File] > [Open].
- (2) Select the desired image data, then click [Open].
  - If multiple printers are registered, select Tiger600 Series in "Printer Name".



### 3 Select the loaded image data.

• It will be displayed in the tab for Tiger600 Series selected in "Printer Name".



- ⚠ Check and alter the settings as needed.
  - Specify the following settings using the function icons on the right side of the screen.
    - [] (General Print): Specify settings such as enlargement/reduction and copying.
    - (Print Condition): Select a color profile that matches the media and ink set loaded in the machine.



- For more information, refer to the RasterLink reference guide. https://mimaki.com/download/software.html
- 5 Prepare a job (RIP data) from image data.
  - Click (Execute) from the function icons on the right side of the screen. Select "RIP and Print", then click [Start].
- 6 Specify the destination and save the job (RIP data).

### Saving to an External Hard Drive (e.g. USB Flash Drive)

- 1 Save the job (RIP data) stored on the RIP computer to an external hard drive.
  - @ "Creating RIP Data"(P. 113)
- **2** Connect the external hard drive into the machine (control PC).

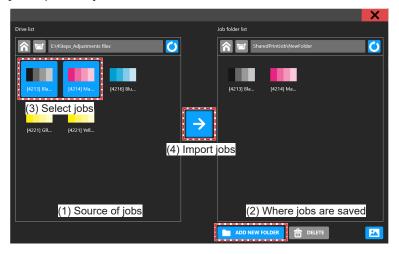
### 3 From MENU on the touch panel, tap [JOB IMPORT].



- A dialog box appears.
- (1) Select the removable disk on which you will save the job.
- (2) Specify where to save the job.
  - To add a folder, tap [ADD NEW FOLDER]. When the dialog box appears, enter a folder name to add the folder.



- (3) Select the job.
- (4) Tap  $[\rightarrow]$  to import the job.



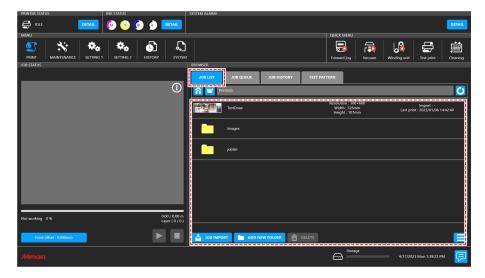
# 2.8 Printing

### Check beforehand

- Is media loaded? The media."(P. 68)
- Is the maintenance switch set to print mode? The "Maintenance Switch" (P. 39)
- Did you set the head gap? Tetting the Head Gap"(P. 90)

# **Starting Printing**

- 1 Tap [JOB LIST] and select the job to print.
  - · A dialog box appears.





- Print speeds may differ for the same image data, depending on the width of the medium loaded, print origin position, and resolution.
- · Any errors will prevent further printing.



- Turn on the heater when printing, to avoid any winding problems. "Setting 1 Menu"(P. 144)
- If you wish to delete a job, tap and hold (long tap) on the job and then tap [Delete]. Jobs deleted any other way will remain listed in [JOB LIST].

### **2** Set the print conditions.



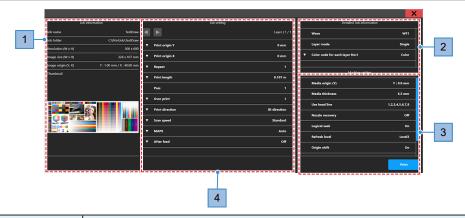
# 3 Tap [Print].

• Printing starts once the machine receives the job. Check printing progress in the print status area. "Mimaki Printer Controller"(P. 124)



- Print speeds may differ for the same image data, depending on the width of the medium loaded, print origin position, and resolution.
- Any errors will prevent further printing.

### **Setting Print Conditions**

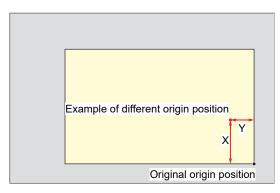


No.	Name	Overview
1	Job Information	Check the job information as needed.
	Job ID	The ID set for each job. This is used on PICT.
2	Detailed Job Information	Check the job details as needed.
3	Machine setting	Check the machine settings information as needed.
4	Print origin Y	Enter the print origin in the scan (horizontal) direction. Trint Origin"(P. 118)
	Print origin X	Enter the print origin in the feed (vertical) direction. Trint Origin"(P. 118)
	Repeat	Prints the set number of copies of the same job.
	Print Length	Sets the print length.
	Pass	Sets the passes. The passes selected using the RIP software are indicated as "RIP selected passes". Problems such as drying issues, image defects and nozzle clogging may arise if the number of passes selected is smaller than the RIP selected passes.
	Over print	Set the number of layers in overprinting.
	Print direction	Set to print unidirectionally or bidirectionally.
	Scan speed	Set the carriage scanning speed.

No.	Name	Overview
	MAPS	Set whether to use Auto or Presets 1 to 3 ( "Setting 1 Menu" (P. 144)). Selecting manual enables individual settings for each job.
	After feed	Sets the feed position and distance after printing.

# **Print Origin**

The print start position can be altered.



### **Pausing Printing**

- **1** While printing is in progress, tap [Pause].
  - · Printing pauses.





- Some functions are not available while printing is paused.
- 2 Tap [Resume].
  - · Printing resumes.



# **Stopping Printing**

1 Tap [Stop] to cancel printing.





- After cancellation, the carriage returns to the station.
- Any subsequent jobs are displayed in the print status area. To resume printing, tap [ Resume].

# Skipping the wait until heater temperature is reached

- 1 Tap [Skip] while waiting for the heater temperature to reach the specified level for printing.
  - Printing starts immediately, without waiting to reach the heater temperature.





• This may affect the print finish.

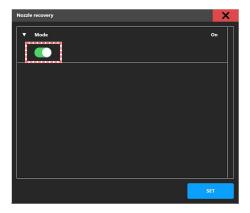
# **Printing Using Nozzle Recovery**

Nozzle recovery is a function that is useful when nozzle clogging cannot be resolved for specific nozzles. When nozzle recovery is enabled, if a nozzle is determined to be clogged in the nozzle check, normal nozzles are used supplementarily during printing.

### **Enabling Nozzle Recovery Function**

### Enabling nozzle recovery

- 1 From the MPC menu, tap [MAINTENANCE].
  - · The Maintenance menu is displayed.
- **7** Tap [Nozzle Recovery] > [Nozzle Recovery].
  - · A dialog box appears.
- 3 Tap [Mode] to enable it.



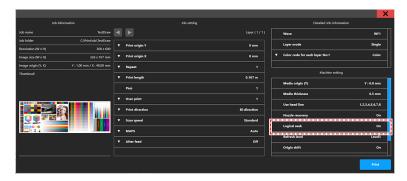
# 4 Tap [SET].



- · Using this function does not change the time required for printing.
- If the print conditions are set to the minimum number of passes in the RIP software, the nozzle recovery function will be disabled.
- Even when nozzle recovery has been registered and enabled, recovery will not be applied to print patterns such as test printing and dot position correction.

### Checking nozzle recovery settings

1 Check the Nozzle recovery setting ("On" or "Off") in "Machine setting" on the print conditions screen.



2 Check the nozzle recovery setting ("Off", "Disabled", or "Enabled") for the job being printed on the JOB STATUS check screen after starting printing.



Disabled

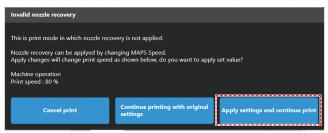


- ✓ A confirmation message is displayed before the start of printing to continue with nozzle recovery when certain conditions apply. There are three different patterns for the confirmation messages, as follows:
  - (1) For print conditions in which nozzle recovery does not apply
    - → Displayed when printing will be performed in high-performance mode. Change the following settings to enable nozzle recovery:
    - · Increase the number of passes
    - · Reduce the MAPS speed
    - · Change the scan speed from "High" to



"Normal"

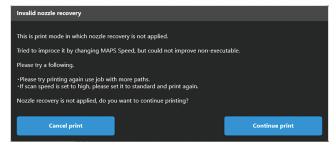
- (2) When nozzles exist that cannot be recovered using nozzle recovery (Case 1)
  - $\rightarrow$  Printing is possible by reducing the print speed to enable nozzle recovery. Select [Apply settings and continue print] on the message window.



- (3) When nozzles exist that cannot be recovered using nozzle recovery (Case 2)
  - → Displayed in the case of print conditions for which nozzle recovery cannot be applied even by reducing the print speed.

Change the following settings to enable nozzle recovery:

- · Increase the number of passes
- · Reduce the MAPS speed
- · Change the scan speed from "High" to "Normal"



# **Chapter 3 Settings (MPC)**



#### This chapter

This chapter describes various functions of the MPC (Mimaki Printer Controller).

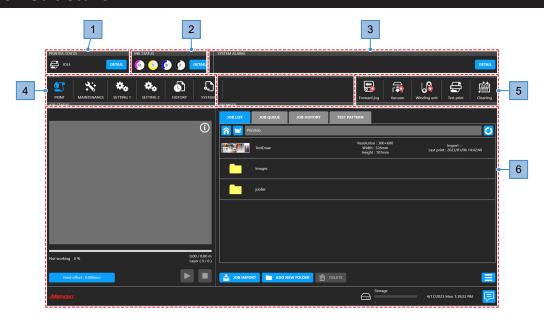
Mimaki Printer Controller	124	
Screen structure	124	
Print menu	128	
Maintenance Menu12		
Registering abnormal nozzle with the no	ozzle	
check tool	131	
Nozzle Recovery Registration	140	

Setting 1 Menu	144
Setting 2 Menu	
Brake function	147
History Menu	150
System menu	151
Power Supply	152

# 3.1 Mimaki Printer Controller

MPC software is used to operate and control the Tiger600 Series. The Mimaki Printer Controller is installed on the control PC. The touch panel is used for MPC operations.

# Screen structure



No.	Item	Overview
1	PRINTER STATUS (printer information area)	Machine status is indicated by icons. (P. 125)  • DETAIL: Displays the status of each component of the configuration.
2	INK STATUS (ink information area)	Icons indicate remaining ink levels, ink errors, and other lnk tank status information. "INK STATUS"(P. 126)  • DETAIL: Displays the lnk tank slot number and ink color.
3	SYSTEM ALARM (system information area)	Of various possible errors, this area shows the most important errors. "SYSTEM ALARM"(P. 126)  • DETAIL: Displays all current errors.
4	MENU (menu area)	Shows various menus. The "*" symbol displayed in each menu indicates the default values.  • ② (PRINT): Set print conditions/settings for the media used. ② "Print menu"(P. 128)  • ③ (MAINTENANCE): Menu used for machine maintenance ③ "Maintenance Menu"(P. 129)  • ③ (SETTING 1): Used to set various printing-related operations ③ "Setting 1 Menu"(P. 144)  • ③ (SETTING 2): Used to set various operations for the machine ③ "Setting 2 Menu"(P. 146)  • ⑥ (HISTORY): Shows maintenance records and other information. ② "History Menu"(P. 150)

No.	Item	Overview
		• System menu"(P. 151)
5	QUICK MENU (quick menu area)	Shows frequently used menus.  • If (Feed): Feeds the media.  • If (Vacuum): Applies suction to hold media in place.  • If (Tension bar): Initializes the tension bar.  • If (Test print): Prints a test pattern to confirm that the ink prints correctly.  If test Printing"(P. 91)  • If (Cleaning): Clean the heads in case of ejection failures (e.g., nozzle clogging, deflection).  If the description of the description of the drying heater is enabled.  If the description of the drying heater. The drying heater will not operate even when the button is pressed.  If the description of the drying heater. The drying heater will not operate even when the button is pressed.
		<ul> <li>Pressing the button starts heating the heater until the preset temperature is reached.</li> <li>(Heater on): The drying heater is warming up to the preset temperature. Pressing the button stops the heater.</li> <li>(Heater standby): The drying heater is at standby after warming up to the preset temperature. Pressing the button stops the heater.</li> </ul>
6	(Content area)	Shows setting screens for the selected menu.

# **PRINTER STATUS**

Icons indicate the machine status. Tap [Detail] to display the status of each component of the configuration.



# • Icon display

Icon	Overview
<b>\$</b>	Local mode. Used for test printing, maintenance, and settings
<b>=</b>	Printing in progress.
<b>=</b>	Printing is paused.
	Maintenance is in progress. No other operations can be performed while maintenance is underway.
IDLE  ⚠ Detect obstacle	An obstruction has been detected. Printing pauses.
IDLE  Maint mode	Set the maintenance switch to maintenance mode.

### Detail display

Display details	Overview
Machine status	Displays the device operation status.
Auto cleaning next time:	Displays the timing for auto cleaning and auto flushing.
Heater	Displays the drying heater temperature. This is displayed only when [Setting 1] > [Drying heater] is enabled. Temperature 1 Menu"(P. 144)

### **INK STATUS**

Icons indicate remaining ink levels, ink errors, and other Ink tank status information. Tap [Detail] to display the slot number and ink color.



# • Icon display

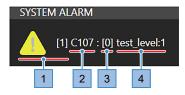
Icon	Overview	
100	Remaining ink levels are indicated graphically and as percentages.	
A blue warning icon appears in the lower right if ink runs low. Very little ink remains. Have ink ready.		
	A yellow warning icon appears in the lower right if ink runs out or ink errors occur. Printing is not possible.	
40	The remaining purified water level is indicated as a percentage.	
	A blue warning icon appears in the lower right if purified water runs low. Very little purified water remains. Replenish purified water.	
	A red warning icon appears in the lower right if purified water runs out or purified water tank errors occur. Take the appropriate action in based on the error.	

### **SYSTEM ALARM**

Of various possible errors, this area shows the most important errors. Tap [Detail] to display all current errors.



### Alarm display



No.	Overview	
1	Level  (Level 0): Printing is possible. Printing will continue even if these errors oc during printing.  • Examples: Ink near-end, tank cap not fitted	

No.	Overview	
		(Level 1): Printing and cleaning is not possible. Any printing underway will pause if any of these errors occur. Take the appropriate action in accordance with the content of the message.  • Examples: Ink end
		(Level 2): Printing and cleaning is not possible. Any printing underway is aborted if any of these errors occur. Take the appropriate action in accordance with the content of the message.  • Examples: Ink overflow
		(Level 3): No machine operations are possible. Take the appropriate action in accordance with the content of the message. If you see this message repeatedly, contact your local dealer or our service office.
2	Code	Refer to the error code list. The "Problems Indicated by Messages" (P. 195)
3	Unit	Not disclosed; used for service
4	Contents	Refer to the error code list. The "Problems Indicated by Messages" (P. 195)

### **Clearing Alarms**

### 1 Tap [DETAIL].

· Displays all current errors.



- **?** Resolve the cause of the error.
  - @"Problems Indicated by Messages"(P. 195)
- 3 Tap [CLEAR ALARM].
  - · This clears the error.



(Important!)

• If this does not clear the error/alarm, your response may be incorrect or inadequate. Check the alarm details once again and take corrective action. If this alarm recurs, contact your local dealer or our service office.

# 3.2 Print menu

Set print conditions/settings for the media used.



No.	Item	Overview
1	Job status area	Displays a job thumbnail and print status.
		Pause the job currently being printed.
		Resume printing.
		•
2	Browser area	List print jobs. Tap a job to display a dialog box for setting print conditions/ settings. "Setting Print Conditions"(P. 117)
		Show the jobs stored on the control PC.
		Show queued jobs. Numbers in the upper right of the icon indicate the number of queued jobs.
		Show printed jobs. Tap on a job to print it.
		TEST PATTERN     : Show jobs used for test patterns.
		Show the home folder.
		• 🚅: Show the folder one level above.
		Update the folder display.
		DOB IMPORT: Import the job into MPC.    "With Output Port Set to [File Interface]"(P. 105)
		ADD NEW FOLDER: Create a new folder. A dialog box appears.
		Delete the job or folder that was selected with a long tap.  Jobs deleted any other way will remain listed in [JOB LIST].
		Lets you sort or otherwise change how the job list is displayed.

# 3.3 Maintenance Menu

This menu is used for machine maintenance.



Item	Overview		
Cleaning	Print a test pattern to clean the heads in case of ejection failures (e.g.( nozzle clogging, deflection). ** "Head Cleaning"(P. 95)		
Cleaning	There are three types of cleaning. Choose the method based on test results.		
Powerful Cleaning	Use when problems are not resolved by regular cleaning.		
Auto Maint.	Set the conditions to start print head cleaning automatically.		
Cleaning(Stan dby)	<ul> <li>Cleaning(Standby): When this is turned on, head cleaning will be performed once the [Interval (Time)] has elapsed. When set to OFF, cleaning will not be performed.</li> <li>Interval(time): Cleans heads after the specified value is exceeded.</li> <li>Mode: Set type of cleaning.</li> </ul>		
Cleaning(Print	<ul> <li>Cleaning(Print): When this is turned on, during printing head cleaning will be performed once the [Interval (Time)] has elapsed. When set to OFF, cleaning will not be performed.</li> <li>[AP50 only] Auto Interval Setting "When set to ON, cleaning will be performed automatically during printing based on the ambient temperature. If this setting is ON, the 'Interval (Time)' setting will be ignored."</li> <li>Interval(Time):: Cleans heads during printing after the specified value is exceeded.</li> <li>Mode: Set type of cleaning.</li> </ul>		
Flushing(Stan dby)	<ul> <li>Flashing (Standby): When set to ON, flashing is performed. Flushing reduces nozzle clogging via regular print head ink discharge.</li> <li>Interval(time): Flushes heads after the specified value is exceeded.</li> </ul>		
Nozzle Recovery	Allows other nozzles to be used for printing if nozzle washing or other maintenance fails to resolve ejection failure (such as nozzle clogging or deflection).		
Nozzle Recovery	Mode: Set to ON to perform nozzle recovery.		
Nozzle recovery confirmation message	If nozzle recovery cannot be performed, setting [Nozzle Recovery Confirmation Message] to OFF will start printing without displaying the print continuation confirmation dialog box.		
Nozzle recovery operation guide	Shows the nozzle recovery operation guide.		
Scanner	Starts the scanner application.		
Nozzle check tool	Launch the nozzle check tool.Allows nozzles with abnormalities to be registered.		
Nozzle Recovery Registration	Displays the results of the currently registered nozzle check. Also allows abnormal nozzles to be registered and cleared manually. "Nozzle Recovery Registration" (P. 140)		

	Item	Overview
Daily maintenance		Lists items for which daily maintenance should be performed.
	Daily station maintenance	Moves the carriage for cleaning around the station.  "Wiper Cleaning"(P. 159)  "Wiper Unit Cleaning"(P. 163)
1 1	Head maintenance	Moves the carriage to the maintenance space for cleaning in the print head area. "Carriage Underside Cleaning"(P. 161)
	Station & Head maintenance	Perform daily station maintenance and head maintenance simultaneously. Moves the carriage to the maintenance space for cleaning the area around the station and the print head. Since the carriage only needs to be moved once, maintenance can be performed efficiently.  "Wiper Cleaning"(P. 159)  "Carriage Underside Cleaning"(P. 161)  "Wiper Unit Cleaning"(P. 163)
1	ekly intenance	Lists items for which weekly maintenance should be performed.
!	Weekly station maintenance	Moves the carriage for cleaning around the station. Wiper Unit Cleaning" (P. 163)
Oth mai	er intenance	Lists maintenance items to inspect in the event of errors.
1 1	Ink tank calibration	Runs the ink tank calibration wizard.
t	Purified water tank calibration	Runs the purified water tank calibration wizard.
	Drying unit Taking out	Runs the drying unit taking out wizard.
1 1	Moisture tray maintenance	Runs the moisture tray maintenance wizard. "Moisture Tray Cleaning" (P. 169)
Rep	olace parts	Displays replacement instructions for components requiring periodic replacement.
1 1	Replace ink filter	<ul> <li>The machine requires ink filter replacement about once a year, but sooner replacement may be required depending on operating conditions. "Ink filter replacement" (P. 180)</li> <li>If a supply error (061B INK SUPPLY) occurs: The filter may be clogged. The filter may be Use this function to replace the ink filter.</li> <li>If a supply warning (067D INK SUPPLY WARN) occurs: The filter may be beginning to clog. Replacing the ink filter as soon as possible is recommended.</li> </ul>
	Replace Wiper	This unit counts the number of wipes. When the specified value is reached, "0605 REPLACE WIPER" will appear on the touch panel's SYSTEM ALARM. If the wiper is heavily soiled or warped, replace it with a new one. "Wiper Replacement" (P. 177)
Machine status check		Checks the machine status.
	Ink supply unit test	Performing an ink supply capacity check operation.  Displays the amount of ink that can be supplied over a specific period in increments of 0.1 ml.
Ink	charge	[Displayed for AP50 only] [Ink IC] compatible inks require ink charging and expiration management via the [Ink IC].
	Ink charge	Performs ink charging via the [Ink IC]. This Charging and Disposal"(P. 184)

Item		Overview
	Expired ink disposal	Disposes of expired ink. 🕾 "Ink Charging and Disposal"(P. 184)

# Registering abnormal nozzle with the nozzle check tool

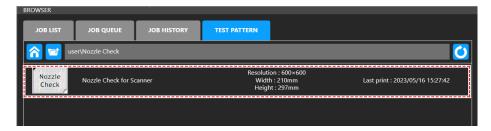
Abnormal nozzle locations can be registered by using the nozzle check tool with printed image data from a nozzle recovery pattern.

### Printing nozzle recovery patterns

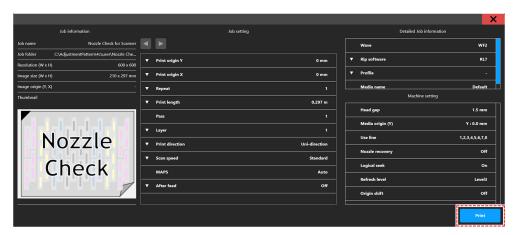
Print the nozzle recovery pattern. Patterns are printed at about A4 size.



- Use various types of transfer paper for the media.
- **1** From the MPC menu, tap [PRINT] > [TEST PATTERN].
- **7** Tap [User] > [NozzleCheck], then tap the nozzle recovery pattern.



Tap [Print] to print the pattern on the media.



### Scanning nozzle recovery patterns

Cut out and scan the printed nozzle recovery pattern.

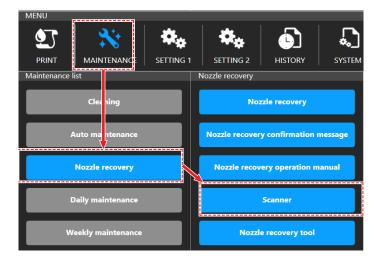
1 Cut the printed nozzle recovery pattern along the cut lines.



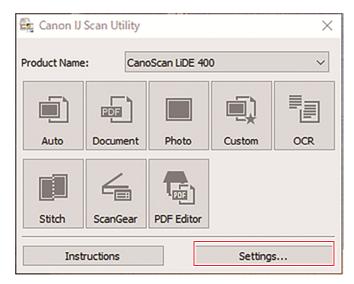




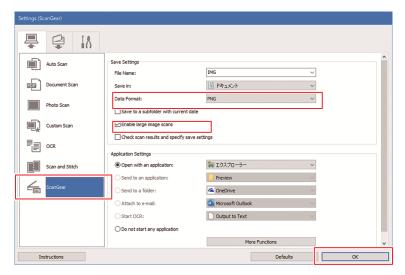
- **7** From the MPC menu, tap [MAINTENANCE] > [Nozzle recovery] > [Scanner.
  - The scanner application starts up.



# 3 Tap [Scan settings].

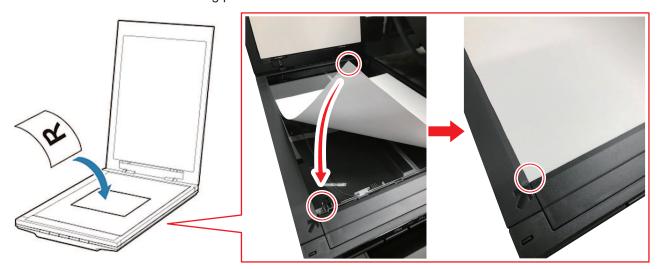


- 4 On the scan settings screen, select [ScanGear]. Configure the settings as follows, then select [OK].
  - [Data Format]: png
  - Select the [Enable large image scans] check box.



### 5 Place the printed nozzle recovery pattern face-down on the scanner and close the cover.

• On the scanner, align the top of the black triangle in the pattern with the arrow mark of the scanner that indicates the starting point.



- 6 Open the scanner application and select [ScanGear.
  - A dialog box appears.

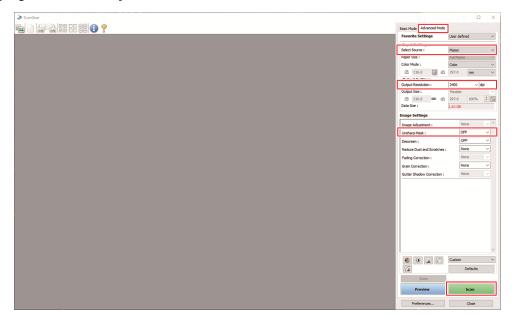


# 7 Select the [Extended Mode] tab, configure the settings as follows, then select [Scan].

• [Document Type]: Paper/Photo

• [Output Resolution]: 2400

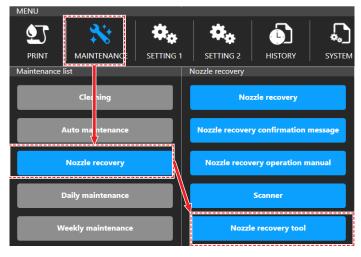
• [Edge Enhancement]: OFF

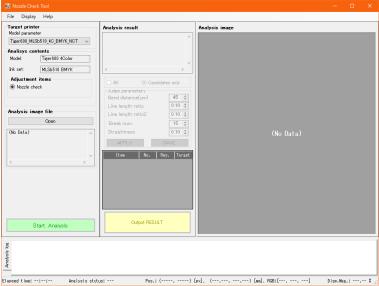


### Analyzing and applying nozzle recovery patterns

The scanned nozzle recovery pattern is analyzed by the nozzle check tool and analysis results are applied to the printer.

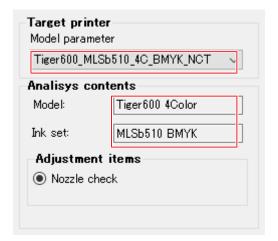
- **↑** From the MPC menu, tap [MAINTENANCE] > [Nozzle recovery] > [Nozzle check tool].
  - · The nozzle check tool starts up.





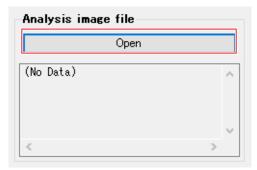
### **2** Configure nozzle check tool settings.

- In [Model parameter], select the model, type of ink, and ink set.
- In [Analysis contents], confirm that the model, type of ink, and ink set are correctly selected.

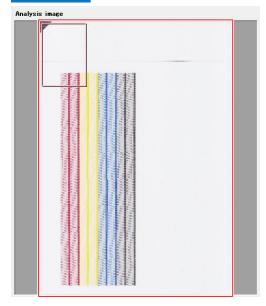


### 3 In [Analyze image file], tap [Open] and select the scanned image data.

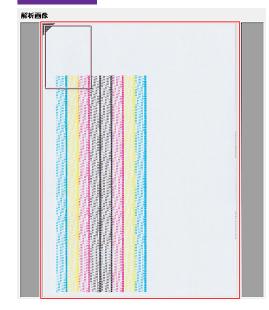
• Image data is displayed in [Analysis image].





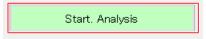


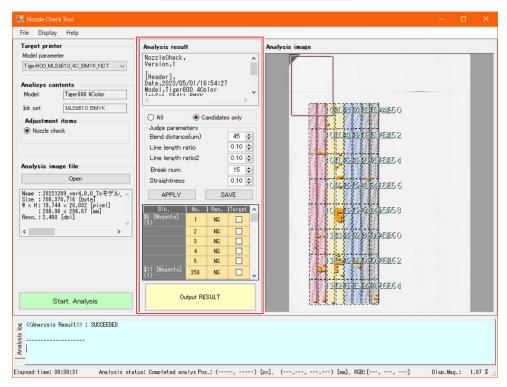




### 4 Tap [Start Analysis].

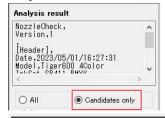
• The image data is analyzed and the analysis results are displayed in [Analysis result].

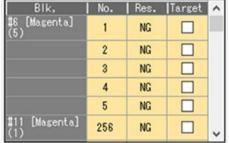




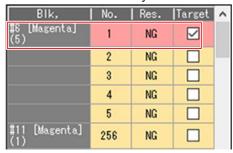
### 5 Configure nozzles for nozzle recovery.

- (1) Tap [Candidates only].
  - Only nozzles that are candidates for nozzle recovery are shown in the data display area.





- (2) For nozzles targeted for recovery, click the [Target] check box.
  - Nozzles set for recovery are indicated by a red cell background color.



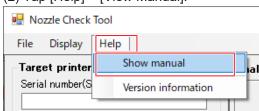
# 6 Tap [Output RESULT].

· The settings are saved and applied to the printer.



(Important!)

- In case of errors, refer to the operation manual for the nozzle check tool.
- · Follow the steps below to launch the operation manual.
  - (1) Launch the nozzle check tool.
  - (2) Tap [Help] > [View Manual].

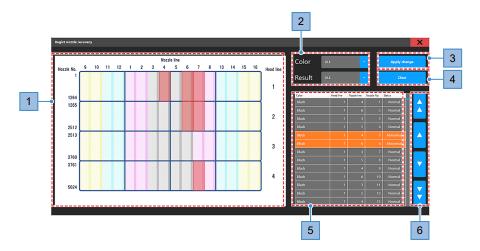


# **Nozzle Recovery Registration**

### Nozzle recovery registration dialog

Displays the results of the currently registered nozzle check. Also allows abnormal nozzles to be registered and cleared manually.

- **from MENU on the touch panel, tap [MAINTENANCE].** 
  - The Maintenance menu is displayed.
- 7 Tap [Nozzle Recovery] > [Regist nozzle recovery].
  - · A dialog box appears.

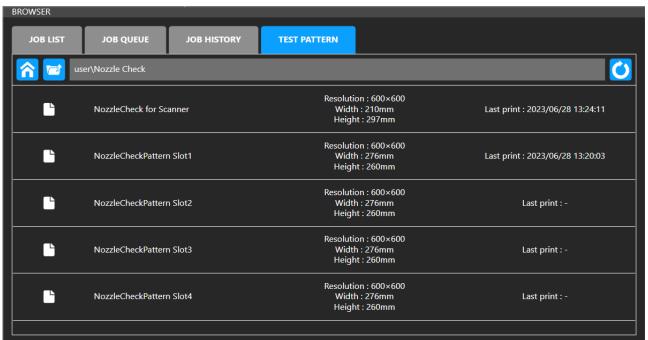


No.	Name	Overview
1	Nozzle image	Displays an image corresponding to the nozzle recovery table.  • Clogged nozzle locations flash red.
2	Nozzle recovery table filter	This allows the details in the nozzle image and nozzle recovery table to be narrowed down by specifying particular conditions.  • [Color] :Narrow down nozzles by ink color.  "ALL" displays all ink colors and nozzles.  • [Result]:Filters the nozzles by nozzle check results.  "Abnormal" displays only the clogged nozzles.  ALL" displays all results.
3	Apply change	Updates the nozzle recovery registration with the changes made.
4	Clear	Clears the changes made to the nozzle recovery registration.
5	Nozzle recovery table	Displays the individual nozzle status for each color.  • Abnormal nozzles are highlighted in orange.  • Head line: Head row(horizontal direction on nozzle status image)  • Nozzle line: Nozzle row(vertical direction on nozzle status image)  • Nozzle No.: Nozzle number for each ink color  • Status: Nozzle check results(normal/abnormal)
6	Scroll buttons	Used to scroll the nozzle recovery table.  • Line 1,000 nozzles in the direction of the arrow.  • Line 100 nozzles in the direction of the arrow.

### Print and register nozzle check pattern

The procedure for manual nozzle recovery registration is as follows:

- **↑** From MENU on the touch panel, tap [Print].
- 2 Tap [Test pattern] > [User] > [Nozzle Check], then tap the job for the slot on which the color for nozzle recovery is mounted.

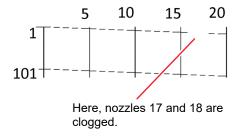


### 3 Tap [Print].

- Print a nozzle check pattern.
- Ink is ejected from all of the nozzles for the color selected.

# **⚠** Check the print results.

• Check the nozzle numbers for the clogged nozzle locations.



- **5** From MENU on the touch panel, tap [Maintenance].
  - · The Maintenance menu is displayed.
- 6 Tap [Nozzle Recovery] > [Regist nozzle recovery].
  - A dialog box appears. "Nozzle recovery registration dialog" (P. 140)

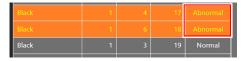
7 Update the nozzle recovery table with the print results.



- (1) Set the filters as follows.
  - [Color]: Color for nozzle recovery registration
  - [Result] ALL



- (2) Refer to the nozzle numbers for the clogged nozzle locations in the print results on the nozzle recovery table, then tap the [Status] row to set to. [Abnormal].
  - The text in the nozzles for which [Status] was changed turns yellow.



### **8** Tap [Apply change].

- · A dialog box appears.
- To edit the change details, tap [Cancel].

## 9 Tap [Apply].

· The changes are applied.





- The results for nozzles to which changes were applied in nozzle recovery registration will not be updated even if changes are subsequently applied using the nozzle check tool. (Manual registration via nozzle recovery registration takes precedence.)
- To update only the results of the nozzle check tool, clear the nozzle recovery registration information and then apply the changes using the nozzle check tool. "Nozzle recovery registration dialog" (P. 140)

# 3.4 Setting 1 Menu

Set various print options.



Item	Overview	
Print	Set print options.	
Logical Seek	Sets the range of carriage movement.  - Carriage movement range for Logical Seek OFF setting Unidirectional print Bi-directional printing	
	Print data Color bar Carriage movement  Flushing Box	
	Carriage movement range for <b>Logical Seek ON</b> setting	
	When the refresh level is 0, the carriage moves to the color bar.  Unidirectional print  Bi-directional printing	
	Print data  Carriage movement	
	For refresh levels 1 to 3, the carriage moves to the flushing box for the refresh	
	operation.  Unidirectional printing  Bi-directional printing  Print data  Carriage movement	
Refresh	Reduces nozzle clogging by regularly discharging ink from the print heads.  • Level: More ink is discharged for higher level numbers.	
Pre feed	Turn on to allow pre feed length to be set.	
Select head	Sets the head line used.	
Select head operation manual	Allows the head selection operation manual to be viewed.	
Dry feed	Sets the feed distance when drying.	
Add feed	Sets the additional feed distance.	

Item		Overview			
1 1	ndby ore drying d	<ul><li>[Displayed for AP50 only]</li><li>Waits for a preset time to dry to prevent wrinkles from forming before media take-up.</li><li>When enabled, the machine waits for a preset time before drying feed.</li></ul>			
Colo	or bar	Position: Sets the position for printing a color bar.			
		Off: No color bar is printed.  Dight side: Drinte on the right side of the print data.			
		<ul><li>Right side: Prints on the right side of the print data.</li><li>Left side: Prints on the left side of the print data.</li></ul>			
		- Both sides: Prints on both sides of the print data.			
		<ul> <li>Discharge amount: Sets the amount of ink discharged on the color bar. Selecting a larger amount makes the color bar bolder. The width also varies according to the print conditions.</li> <li>Overlay: Sets whether to print color bars overlaid.</li> </ul>			
		OFF: Prints color bars without overlaying.			
		ON: Prints color bars overlaid.			
Prin	nt feed ed	Sets the feed speed during printing in %.			
This function disper between passes les     Altering MAPS may		<ul> <li>MAPS: Mimaki Advanced Pass System</li> <li>This function disperses the boundaries between passes to make feed streaks between passes less visible.</li> <li>Altering MAPS may alter the color. This function may be less effective with certain types of images.</li> </ul>			
1 1	PS preset etting	Register a preset of your choice.  • Speed: Reducing speeds will make streaks less visible. However, printing will be			
1 1	PS preset etting	<ul><li>slower.</li><li>Smoothing: Increasing smoothing makes streaks less visible.</li></ul>			
1 1	PS preset etting				
Defa	ault MAPS	Set your preferred preset from 1 to 3 as described above or set to Auto. This should normally be set to Auto.			
Internal	l pattern	Set the print position for printed patterns used in test printing or for correcting the drop position.			
Orig	gin shift	<ul> <li>Origin shift: Prints in the direction specified when set to ON.</li> <li>Origin shift direction: Set the print direction.</li> <li>: Scan (horizontal) direction.</li> </ul>			
		4 3 2 1			
Orig mar	gin shift gin	Y margin: Sets the scan (horizontal) direction margin.			
Heater		Sets the drying heater operation.  • Drying heater: Toggles the drying heater on and off. (Default: On)  • Temperature: Specifies the heater temperature (20 to 60 °C, default: 40 °C)  • OFF Time: Toggles the setting to turn off the heater after the preset time has elapsed. (Default: On)  • OFF Time: The time until the heater turns off. (0 to 90 mins, default: 60 mins)			
Feed Comp.		Set the feed offset.  • Feed offset: Enter the feed offset value.  • Feed offset pattern: Prints a feed offset pattern.			

# 3.5 Setting 2 Menu

Set various operation-related settings.



Item	Overview			
Media	Set information about media.			
Media origin	Enter the media origin position.			
Media thickness / Head gap	Manually enter the media thickness and head gap.  "Setting the Head Gap"(P. 90)			
Brake Roller	Sets the brake roller. Setting a larger value increases the brake force. Set to an appropriate value to suit the media used. (Can be set in 1 % increments)  • Brake Roller: On/Off (Default: Off)  • Rear Brake L: 0 to 100 % (Default: 0 %)  • Rear Brake R: 0 to 100 % (Default: 0 %)  • Front Brake: 0 to 100 % (Default: 0 %)			
Set media	Displays the media setting items. 💝 "Load the media."(P. 68)			
Media near end	Sets the conditions for which media near end is detected.  Media near end is detected using the thickness of the paper core as the datum.  Measure the thickness of the paper core on the feeding shaft, and enter this value.  • Paper core thickness: 1 to 20 mm			
Bi-directional adjustment	When using bi-directional printing, correct the drop position. Correcting the Drop Position"(P. 97)			
Bi-direction adjustment value	Check the printed pattern and enter correction values.			
***dpi Pattern	Select and print the pattern based on the print conditions.  [With MLSB510]  Options: WF1 600 dpi / WF2 300 dpi  [With AP50] Options: WF2 300 dpi, 600 dpi			
Feed Control	Sets feeding			
Feed Speed	Set the feed speed in % when executing the feed function in the QUICK MENU.			
System setting	Configure the system.			
Languages	Change the touch panel display language.			
Length unit	Changes the length units on the touch panel.			
Temp. unit	Changes the temperature display units on the touch panel.			
Print speed units	Sets the print speed units displayed on the job status screen.			
Network setting	Set the network address.  • Check IP address: Shows the machine's current IP address.  • DHCP: Set to ON to use the IP address assigned by the DHCP server.			
Notification setting	[Displayed for AP50 only]			

Item		Overview
		Sets the notification messages that appear before printing when head maintenance or head gap height adjustment is required.
	Total print distance notification	When enabled, a message prompting maintenance is displayed at the start of printing according to the total print distance.
	Head gap warning notification	When enabled, a message prompting adjustment of the head gap height is displayed at the start of printing.

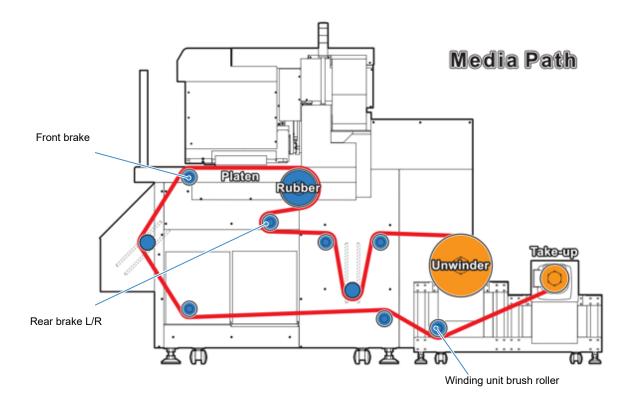
## **Brake function**

A roller is available with a brake function on the return roller. Controlling the friction torque on the return roller improves feeding accuracy and winding performance.

- 1. Brake roller: Brake can be set via the MPC.
- 2. Winding unit brush roller: Can be clamped or unclamped depending on whether a slit collar is fastened.

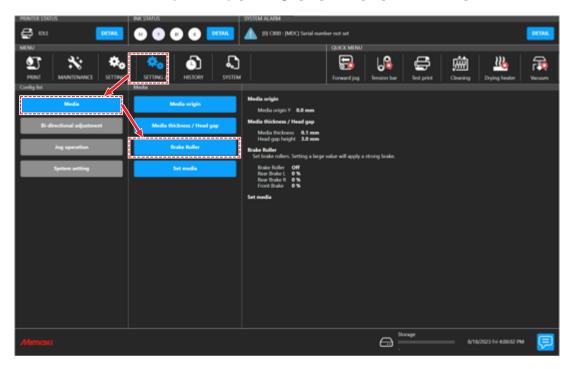


 Depending on the media type and print conditions, there is a risk of deteriorating feeding accuracy and winding performance.
 The conditions should be determined by checking operation with the media to be used.



### **Setting procedure (MPC)**

**from MENU on the touch panel, tap [Setting 2] > [Media] > [Brake Roller].** 

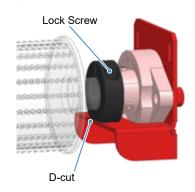


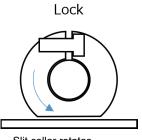
- 2 Set the brake conditions.
- 3 Tap SET.

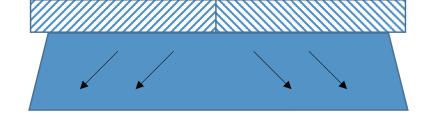


## **Setting procedure (Winding unit brush roller)**

	Lock screw	Brush roller	Typical use
1	Lock	Brush clamped	Basic settings
2	Unlock	Brush free to rotate	For thin media and high-density printing. * Clamping may increase the chance of wrinkling. Normally it is recommended to increase the basic weight.



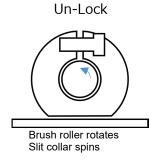


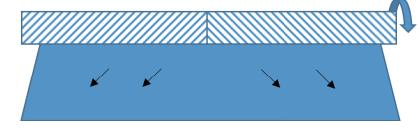


Slit collar rotates

☐ Rotation prevented by metal plate

V Wrinkle smoothing





\* Brush roller is non-driven

#### [Feed conditions and printable ink volume for different media]

Media / Maker		Jet-X / Coldenhove	TexPrint Moda39 / Beaver Paper	Versa / Canapa	TRS95 (MTW-110-162-150) /Mimaki (Sappi)		
Reco	omme	ended environment	20~25℃/35~60%	23°C/50%	23~25°C/45~55%	25°C/45%	
	Ba	asis weight		57gsm	39gsm	22gsm	95gsm
S		X speed	Def : 350 mm/s	350mm/s	350mm/s	350mm/s	350mm/s
Feeding		X acceleration	Def : 0.2 G	0.2G	0.2G	0.2G	0.2G
Fee	R	Brake Roller tear L/Rear R/Front	Each 0~100%	0% / 0% / 0%	5% / 5% / 0%	0% / 0% / 0%	0% / 0% / 0%
		Draft 550ml/h @300x600 1P BiStd	GAP <sup>⊗1</sup> 3mm in () : 2mm GAP OK	<8.5 cc/m² ( <4.6 cc/m² )	<7.4 cc/m² ( <7.4 cc/m² )	<7.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<9.6 cc/mi ( <9.6 cc/mi )
a a		Drying %2	Set temperature : 70℃	12.5 cc/mi	12.5 cg/ml	19.4 cc/ml	12.5 cc/mi
volume		Cockling	GAP** 2mm / 3mm	<4.6 cc/ml , ≥19.3 cc/ml	≥19.3 cc/mi , ≥19.3 cc/mi	0.0 cc/m , <9.2 cc/m	>18.4 cc/mi, >18.4 cc/mi
ink vol		Winding wrinkles	⊚Minimum winding diameter (≤100mm)	<8.5 cc/ml	<7.4 cc/rd	<7.1 cc/rd	<9.6 cc/ml
Printable in		Standard 310ml/h @600x600 1P BiStd	GAP <sup>®1</sup> 3mm in () : 2mm GAP OK	9.2~11.4 cc/m ( 0.0 cc/m )	<9.6 cc/m² ( <9.6 cc/m² )	<6.4 cc/m² %3 ( <6.4 cc/m² )	<12.9 cc/mi ( <12.9 cc/mi )
Prin		Drying :: 2	Set temperature : 70℃	18.2 cc/mi	18.2 cc/ml	19.4 cc/ml	18.2 cc/mi
		Cockling	GAP=: 2mm / 3mm	0.0 cc/m , ≥9.2 cc/m	12.8 cc/ml , ≥19.3 cc/ml	<6.4 cc/mi . <6.4 cc/mi	>25.7 cc/mi, >25.7 cc/mi
		Winding wrinkles	⊚Minimum winding diameter (≤100mm)	<11.4 cc/ml	<9.6 cc/rd	<11.4 cc/m	< 12.9 cc/m

# 3.6 History Menu

Shows the machine's maintenance history and other information.



Item	Overview
Maintenance	Shows maintenance history.
Alarm	Shows the system alarm history.
Print	Shows the print history.
Controller	Shows the MPC operation history.

# 3.7 System menu

Shows various information about the machine.



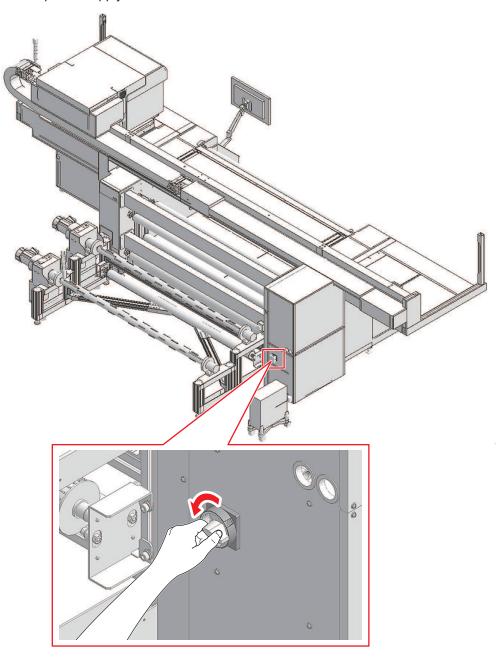
Item		Overview		
Sys	etem information	Shows system information about the machine and control PC.		
	HDD disk space	Shows the disk space available on the control PC.		
	Machine information	Shows information about the machine.		
	Version	Shows the machine firmware version and MPC version.		
	License	Shows license information.		
Too	ol	Executes the various tools.		
	Manual Log collection tool	Collects the machine operating logs and settings information manually. "Collecting Logs"(P. 214)		
	Open PICT Up	Displays PICT Up.		
	PICT Up update	Updates PICT Up.		
Dod	cument	Shows the MPC user's guide and an error code list.		
	Operation manual	Shows the MPC user's guide.		
	Alarm list	Shows a list of error codes.		
	Application note	Displays a document describing solutions to problems and other useful tips.		
	Support Video Link	Displays the QR code used to view the support video.		
Ser	vice maintenance mode	This mode is exclusively for use by Mimaki representatives.		
Pov	ver	Controls power to the machine and the control PC. The "Power Supply" (P. 152)		
	Reset machine	Used when the alarm does not clear even after clearing the alarm, or when operation is unstable.		
	Reboot System	Used if recovery fails even after a machine reset. The control PC will restart. The system will take some time to start up.		
	Shutdown system	Shuts down the system. Turn off the main power supply. Turning Off the Power"(P. 152)		

## **Power Supply**

Do not turn off the main power supply for the machine or the power supply for the control PC. The control PC controls the machine. Turn off the power only when machine issues cannot be resolved, and always restart after turning the power off.

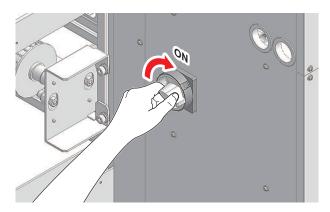
#### **Turning Off the Power**

- **1** From [MENU] on the touch panel, tap [SYSTEM].
  - This displays the system menu.
- **7** Tap [POWER] > [ Shutdown System].
  - The control PC shuts down.
- **3** Turn off the main power for the machine.
  - Turn the switch 90 degrees counterclockwise.
  - The main power supply is located on the left at the rear of the machine.



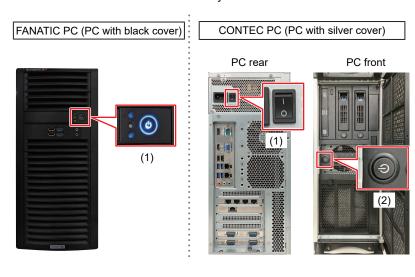
## **Turning On the Power**

Turn the machine main power switch 90 degrees clockwise.



### **7** Turn on the control PC.

• This launches the MPC. The machine is ready to use.



Chapter 3 Settings (MPC)	

# **Chapter 4 Maintenance**



#### This chapter

To ensure years of precise performance, maintain the machine periodically based on frequency of use.

Read the maintenance precautions thoroughly before maintaining this product.

Maintenance Precautions156	С
Maintenance Timing	
Performing Maintenance	
Platen Cleaning	

Consumable Item Replacement	177
Wiper Replacement	177
Carriage Filter Replacement	178
Blower Filter Replacement	179
Ink filter replacement	180
Ink Charging and Disposal	184

## 4.1 Maintenance Precautions



This machine includes parts that must be replaced periodically. We therefore recommend taking out a maintenance contract. Carry out maintenance periodically and replace consumable items to prevent quality defects and accidents.

#### **⚠ WARNING**



- Clean periodically. Debris and dust will accumulate on electrical components when the machine
  is used for extended periods. There is a risk of failure, electric shock, or fire due to current
  leakage.
- Do not clean by blowing—e.g., avoid using air blowers. Doing so may lead to failure, electric shock, or fire involving the machine if airborne debris or dust gets inside electrical components. Wipe using a soft cloth soaked in diluted neutral detergent and thoroughly wrung out. A vacuum cleaner may also be used for cleaning.



 Take care not to allow liquids to get inside the machine. Otherwise there is a risk of failure, electric shock, or fire.

#### **CAUTION**



 For heavy soiling, wipe using a soft cloth soaked in diluted neutral detergent and thoroughly wrung out.



Pay close attention to ventilation and be sure to wear safety glasses, gloves, and a mask when
handling ink, maintenance liquid, waste ink, or other solutions used with the machine. Leaking
ink may adhere to the skin or get into the eyes or mouth.





#### **NOTICE**



- Never touch the print head nozzle surface. (Allow only personnel trained by Mimaki engineers to clean the head nozzle surface. No other persons must ever touch the nozzle surface.) Do not allow water or alcohol to come into contact with the print nozzle surface. This will increase the risk of machine failure or ejection failures (e.g., nozzle clogging or deflection).
- Do not use cotton swabs to clean around the head or carriage. Fibers from cotton swabs may adhere to the head nozzle surface and lead to ejection failures (e.g., nozzle clogging or deflection).
- Do not splash ink or maintenance liquid on the covers. Exposure to splashing ink or maintenance liquid may damage or deform the cover.
- Do not use benzine, thinner, or any chemical agent containing abrasives. Use of these chemicals may result in damage to or deformation of parts.
- Do not move the carriage by hand. To move the carriage, use the carriage out function on the menu.

# 4.2 Maintenance Timing

Timing	Item
At the end of the work	Clean the wiper and wiper bracket. Twiper Cleaning"(P. 159)
day	Clean the underside of the carriage. Tarriage Underside Cleaning"(P. 161)
	Clean the wiper unit. Twiper Unit Cleaning"(P. 163)
	Clean the flushing filter. Trlushing Box Cleaning"(P. 163)
	Check the waste ink levels in the waste ink tank. Tank Waste Ink Level Checking"(P. 164)
At the end of the week's	Clean the platen. Telaten Cleaning"(P. 165)
work	Clean the X drive roller. TX Drive Roller Cleaning"(P. 165)
	Shake the ink. 🕾 "Ink Maintenance"(P. 166)
At the end of two	Clean the drying fan filter. Trying Fan Filter Cleaning"(P. 167)
weeks' work	Clean the jam sensor detecting plate.
	Clean the cover (exterior). Texterior Cleaning (e.g., cover, Y-bar, )"(P. 169)
	Clean the moisture tray. The moisture Tray Cleaning (P. 169)
Once a month	Perform a supply test. Terforming supply test"(P. 171).
Cleaning as required	Clean the drying unit.  Maintain the unit if there is any dust or ink contamination. "Drying Unit Cleaning"(P. 173)
	Clean the print head nozzle surface if other cleaning fails to resolve nozzle clogging or deflection.  [Cleaning guide]  • With MLSb510: When one mini-jumbo roll (approx. 3,000 m) has been printed or when the printing time exceeds 24 hours  • With AP50: When two rolls (approx. 1,000 m) have been printed or when the printing time exceeds 8 hours  © "Cleaning the Print Head Nozzle Surface"(P. 174)
	Replace the wiper (SPA-0271). The machine maintains a count of the number of wiping cycles. Once the specified value is reached, the message [0605] appears in SYSTEM ALARM. Replace dirty or warped wipers with new ones. ** "Wiper Replacement"(P. 177)
	Replace the carriage filter (SPC-0766). Check the mist filters, and replace all of them at the same time if especially dirty.  "Carriage Filter Replacement"(P. 178)
	Replace the blower filter (SPC-0921). Check the blower filter condition, and replace if especially dirty.  • Replacement guide: Once every six months (* Varies depending on extent of contamination, usage environment, and volume printed.) * "Blower Filter Replacement"(P. 179)
	Replace the ink filters (SPA-0363). Replace the ink filter for the corresponding path if a message (067D or 061B) appears in SYSTEM ALARM or if the result of the supply test is less than 45 cc.  "Ink filter replacement"(P. 180)

## **Items Required for Maintenance**

To order replacement consumable items, contact your local dealer or our service office. For more information on consumable items, refer to our website. https://mimaki.com/supply/inkjet.html

Code	Item	Intended use
SPC-0527	Cleaning Stick for Head Surrounding	For maintenance
SPC-0774	300 fan filter	For drying fan filter replacement
SPC-0826	3-inch paper core 160	3-inch paper core
SPC-0755	Cotton gauze	For maintenance
SPC-0766	H fan filter	For carriage filter replacement
SPA-0271	Wiper kit 300TS	For wiper replacement
SPC-0876	Cap absorber	Ink wiping sponge
SPA-0327	20 L polyethylene container	For purified water tank and waste ink tank
SPA-0355	10 L ink tank cap	Cap for external supply tank
SPC-0921	Blower filter	For blower filter replacement
SPA-0363	Replacement ink filters (×4)	For external supply filter replacement



• Do not store consumables where children may enter.

# 4.3 Performing Maintenance

### **Wiper Cleaning**

The wiper wipes off ink adhering to the print head nozzle surface. Using a dirty wiper with dried ink or dust on it may cause the wiper to rub against the nozzle surface and lead to ejection failures (such as nozzle clogging or deflection).



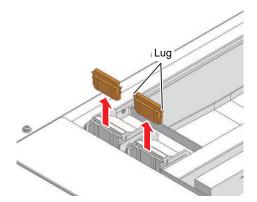
• Be careful to avoid leaving fragments from the cleaning stick behind when cleaning. These fragments will increase the risk of ejection failures (e.g., nozzle clogging or deflection).



The following maintenance items can be performed at the same time. Maintenance can be performed efficiently since the carriage only needs to be moved once. It can be carried out simultaneously from the MPC MENU under [Maintenance] > [Daily Maintenance] > [Station & Head Maintenance].

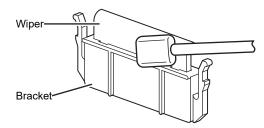
- Wiper Cleaning"(P. 159)

  Carriage Underside Cleaning"(P. 161)
  - "Wiper Unit Cleaning"(P. 163)
- **1** From the MPC menu, tap [MAINTENANCE].
  - · The Maintenance menu is displayed.
- **7** Tap [Daily maintenance] > [Maintenance wizard], then tap [Daily station maintenance].
  - · The carriage moves over the table.
- 3 Switch the maintenance switch to maintenance mode. The "Maintenance Switch" (P. 39)
- ▲ Remove the wiper.
  - · Hold the lugs on both sides of the wiper bracket, then pull out the wiper.



#### 5 Clean the wiper and bracket.

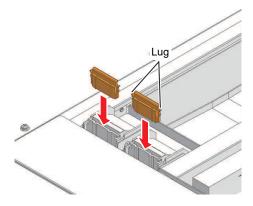
Wipe off any ink and dust adhering using a cleaning stick moistened with maintenance liquid. Wipe
off the maintenance liquid. Make sure none remains.





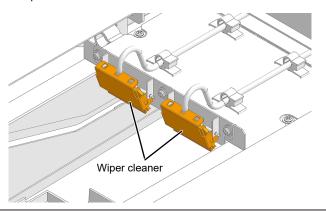
• Replace dirty or warped wipers with new ones. Twiper Replacement (P. 177)

#### 6 Reattach the wiper at the original position.



#### 7 Clean the wiper cleaner.

• Wipe off any ink and dust adhering using a cleaning stick moistened with maintenance liquid. Wipe off the maintenance liquid. Make sure none remains.





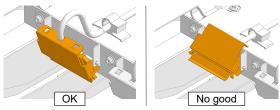
• Clean only the surface of the wiper cleaner. There is no need to clean the back side.



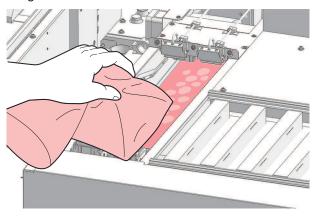
Do not remove the wiper cleaner from the bracket.



· After cleaning is completed, check to confirm that the wiper cleaner is not facing upward.



 Soak up ink in the ink-receiving pan with a paper towel once a week. Failure to do so may result in leaking ink.





- Do not remove the pad in the pad case. There is a risk of ink overflowing.
- **R** Tap [Complete] once cleaning is complete.
- Switch the maintenance switch to print mode and tap [OK]. "Maintenance Switch" (P. 39)

## **Carriage Underside Cleaning**

The underside of the carriage becomes coated with ink wiped off by the wiper. Continuing to use the dirty carriage underside will rub dried ink and attached dust on to the media, resulting in contaminated prints.

The print head uses an extremely delicate mechanism. Take great care when handling it.



• Be careful to avoid leaving fragments from the cleaning stick behind when cleaning. These fragments will increase the risk of ejection failures (e.g., nozzle clogging or deflection).

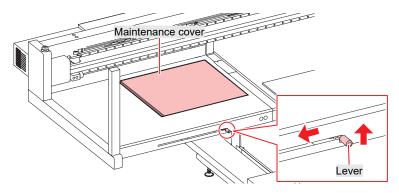


The following maintenance items can be performed at the same time. Maintenance can be performed efficiently since the carriage only needs to be moved once. It can be carried out simultaneously from the MPC MENU under [Maintenance] > [Daily Maintenance] > [Station & Head Maintenance].

- Wiper Cleaning"(P. 159)
   "Carriage Underside Cleaning"(P. 161)
   "Wiper Unit Cleaning"(P. 163)
- **1** From the MPC menu, tap [MAINTENANCE].
  - The Maintenance menu is displayed.
- 2 Tap [Daily maintenance] > [Maintenance wizard], then tap [Head maintenance].
  - · The carriage moves to the maintenance space.
- 3 Switch the maintenance switch to maintenance mode. (P. 39)

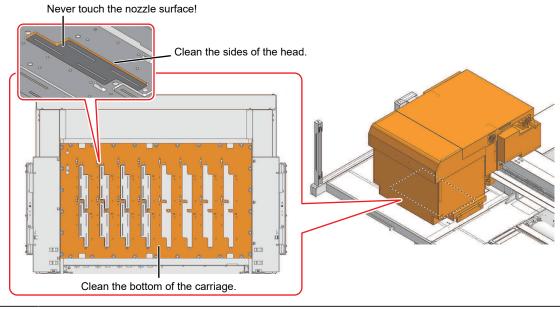
#### ▲ Slide the maintenance cover on the left side of the Y-bar.

• Lift the lever and slide it to the left.



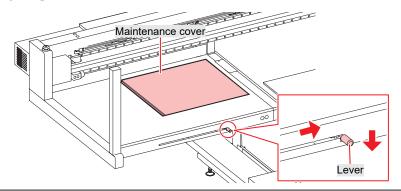
#### 5 Clean around the print head.

• Wipe off any ink and dust adhering using a cleaning stick moistened with maintenance liquid. Wipe off the maintenance liquid. Make sure none remains.





- Never touch the print head nozzle surface.
- Once cleaning is complete, slide the maintenance cover on the left side of the Y-bar to close it and tap [Complete].





Make sure the maintenance cover is returned to the correct position.

- 7 Switch the maintenance switch to print mode. The "Maintenance Switch" (P. 39)
- 8 Tap [Complete] > [Finish].

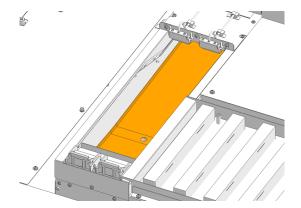
#### Wiper Unit Cleaning

Continued use when dirty may prevent ink from flowing into the waste ink tank or cause dried ink and attached dust to rub against the head nozzle surface, leading to ejection failures (e.g., nozzle clogging, deflection).



The following maintenance items can be performed at the same time. Maintenance can be performed efficiently since the carriage only needs to be moved once. It can be carried out simultaneously from the MPC MENU under [Maintenance] > [Daily Maintenance] > [Station & Head Maintenance].

- Wiper Cleaning"(P. 159)
   "Carriage Underside Cleaning"(P. 161)
   "Wiper Unit Cleaning"(P. 163)
- 1 From the MPC menu, tap [MAINTENANCE].
  - · The Maintenance menu is displayed.
- **7** Tap [Weekly maintenance] > [Weekly station maintenance].
  - The carriage moves over the platen.
- Switch the maintenance switch to maintenance mode. The "Maintenance Switch" (P. 39)
- ▲ Clean the wiper tray.
  - Wipe off any ink and dust adhering using a cleaning stick moistened with maintenance liquid. Wipe
    off the maintenance liquid. Make sure none remains.
  - · Scrape off any dried ink with a spatula or similar tool.

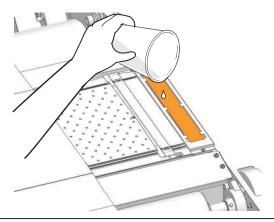


- 5 Tap [Complete] once cleaning is complete.
- 6 Switch the maintenance switch to print mode and tap [OK]. "Maintenance Switch" (P. 39)

## Flushing Box Cleaning

The flushing box filter becomes dirty with ink during flushing. Continuing to use the dirty carriage underside will rub dried ink and attached dust on to the media, resulting in contaminated prints.

- **1** Switch the maintenance switch to maintenance mode. □ "Maintenance Switch"(P. 39)
- 2 Use a disposable cup or similar container to rinse the contaminated parts of the filter on the left and right with purified water.





- Take care not to allow liquids to get inside the machine. Otherwise there is a risk of failure, electric shock, or fire.
- 3 Switch the maintenance switch to print mode. The "Maintenance Switch" (P. 39)

### Waste Ink Tank Waste Ink Level Checking

Ink used during head cleaning and other processes is collected in the waste ink tank at the lower right of the machine.



Continuing to use the product without disposing of the waste ink may result in waste ink
overflowing from the waste ink tank. Visually check the ink level in the waste ink tank every day.



 Pay close attention to ventilation and be sure to wear safety glasses, gloves, and a mask when handling ink, maintenance liquid, waste ink, or other solutions used with the machine. Leaking ink may adhere to the skin or get into the eyes or mouth.



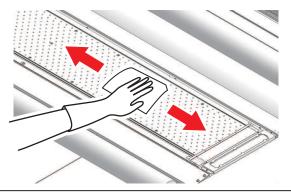


## **Platen Cleaning**



• Switch the maintenance switch to maintenance mode before carrying out maintenance.

Continuing to use the dirty platen will prevent proper feeding of the media. It will also cause dried ink and attached dust to rub against the head nozzle surface and lead to ejection failures (e.g., nozzle clogging or deflection).





 Take care not to allow liquids to get inside the machine. Otherwise there is a risk of failure, electric shock, or fire.



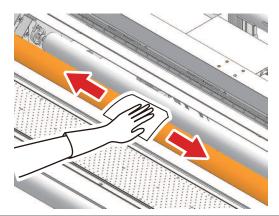
 For heavy soiling, wipe using a soft cloth soaked in diluted neutral detergent and thoroughly wrung out.

## X Drive Roller Cleaning



• Switch the maintenance switch to maintenance mode before carrying out maintenance.

Continuing to use the dirty platen will prevent proper feeding of the media. It will also cause dried ink and attached dust to rub against the head nozzle surface and lead to ejection failures (e.g., nozzle clogging or deflection).





Clean using purified water.



• Take care not to allow liquids to get inside the machine. Otherwise there is a risk of failure, electric shock, or fire.



 For heavy soiling, wipe using a soft cloth soaked in diluted neutral detergent and thoroughly wrung out.

## Ink Maintenance

If ink constituents are sedimented, the ink density may become uneven. We recommend stirring the ink periodically to keep printing consistent.

#### Shaking the lnk tank

- 1 Shake the lnk tank gently from left to right to ensure it is fully mixed.
  - Tighten the lnk tank lid securely, then move from left to right to ensure that the ink moves inside, holding the lid with a paper towel.



## **Drying Fan Filter Cleaning**



• Switch the maintenance switch to maintenance mode before carrying out maintenance.

Wash the drying fan filter in water if it is dirty.

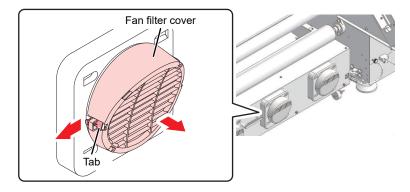
#### Recommended cleaning guide



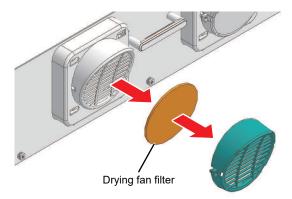
- · Check the filter for dirt every two weeks, and wash.
- · Replace the filter every three months. Blowing Fan Filter Replacement

#### 1 Remove the fan filter cover.

• Push the fan filter cover claw outward, and pull the cover to the front.



#### **?** Remove the filter.



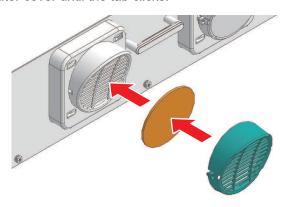
#### **?** Wash the filter.



• Dry the filter after washing.

#### 4 Attach the dry filter together with the fan filter cover.

· Push in the fan filter cover until the tab clicks.



## **Jam Sensor Detecting Plate Cleaning**

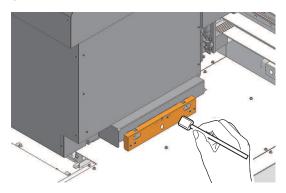


• Switch the maintenance switch to maintenance mode before carrying out maintenance.

Continuing to use the dirty carriage underside will rub dried ink and attached dust on to the media, resulting in contaminated prints.

#### 1 Clean the jam sensor detecting plate.

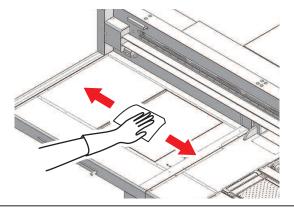
- Clean the jam sensor detecting plate underside at the left and right sides of the carriage.
- Wipe off any ink and dust adhering using a cleaning stick moistened with maintenance liquid. Wipe off the maintenance liquid. Make sure none remains.



## Exterior Cleaning (e.g., cover, Y-bar, )



Switch the maintenance switch to maintenance mode before carrying out maintenance.





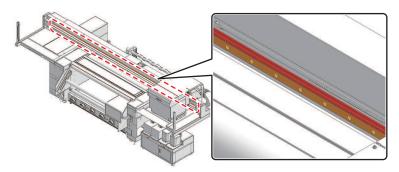
For heavy soiling, wipe using a soft cloth soaked in diluted neutral detergent and thoroughly wrung out.



 Take care not to allow liquids to get inside the machine. Otherwise there is a risk of failure, electric shock, or fire.

#### LM Guide

Wipe off dust from the left and right ends of the LM guide surface with a soft dry cloth.



(Important!)

• The LM guide is lubricated. Never wipe with solvents such as ethanol. Wipe off any excess or dripping lubricant with a soft dry cloth.

## **Moisture Tray Cleaning**

Replace the water in the moisture tray periodically. Continuing to use it when it is dirty will result in contaminated prints.



- be sure to wear the included safety glasses and gloves.
- Be careful to avoid contaminating the surrounding area with ink.



• Before commencing maintenance, check to confirm that the waste ink tank is sufficiently empty (with capacity for at least 5 L) and that there is at least 3 L of purified water for replenishment.

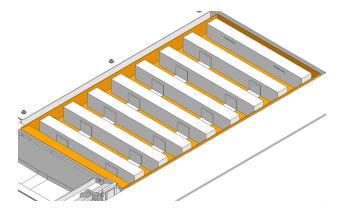
#### **1** From the MPC menu, tap [MAINTENANCE].

· The Maintenance menu is displayed.

- 7 Tap [Other maintenance] > [Moisture tray maintenance].
- Move the carriage to the maintenance position.
- **△** Switch the maintenance switch to maintenance mode. <sup>™</sup> "Maintenance Switch"(P. 39)
- Open the discharge valve on the moisture tray as instructed on the wizard screen. Tap [OK], then drain the ink from the moisture tray.



- Draining takes approximately 10 minutes.
- 6 Clean the moisture tray. Once cleaning is complete, tap [OK].



- **7** Replenish the purified water in the moisture tray. Once complete, tap [OK].
- Switch the maintenance switch to print mode. The "Maintenance Switch" (P. 39)
- **9** Return the carriage to its original position.
- 1 Exit [Moisture tray maintenance], then tap [OK].

## **Performing supply test**

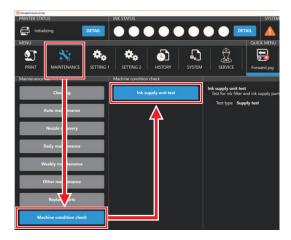
If the ink filter becomes clogged, this may prevent normal maintenance and possibly lead to head damage. This procedure should therefore be performed regularly to check the extent of ink filter clogging (ink supply capacity).



- If the ink supply capacity is reduced, replacing the ink filter can prevent problems caused by filter clogging.
- Note that the test may fail if the ink level in the ink tank is near the end or exceeds 10 L. The result for paths where the test failed will be 0.0 cc.



- Do not replace the ink tank or subject the external supply unit to vibration while the test is in progress, as this may cause the test to fail.
- 1 From the MPC menu, tap [MAINTENANCE].
  - · The Maintenance menu is displayed.
- **7** Tap [Machine condition check] > [Ink supply unit test].
  - · A dialog box appears.



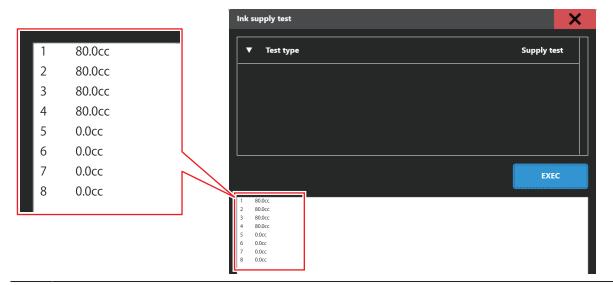
- 3 Check to confirm that "Supply test" is selected for [Test type], then tap [EXEC].
  - · The test starts.





• The test takes approximately three to five minutes.

#### 4 Check the results.





• The result for paths where the test failed will be 0.0 cc. Check to confirm that there are no ink tank level warnings (such as INK END or INK NEAR-END) and check to confirm that the ink tank is properly installed before starting the test.

Test result	Machine compatible with simple filter replacement kit
45 cc or greater	Normal No particular action is required.
Under 45 cc	Check to confirm that the ink tank is installed properly, then repeat the test. If the results do not improve, replace the ink filter. The filter replacement (P. 180)

## **Drying Unit Cleaning**

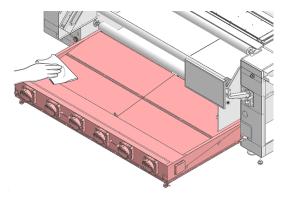
Maintain the unit if there is any dust or ink contamination.



• The drying unit becomes extremely hot. Check to confirm that the unit has sufficiently cooled before commencing maintenance.



- Switch the maintenance switch to maintenance mode before carrying out maintenance.
- 1 From the MPC menu, tap [MAINTENANCE].
  - · The Maintenance menu is displayed.
- **2** Tap [Other maintenance] > [Drying unit Taking out].
  - Pull out the drying unit as instructed on the wizard screen.
- 3 Carry out maintenance once the drying unit has been pulled out.





 For heavy soiling, wipe using a soft cloth soaked in diluted neutral detergent and thoroughly wrung out.



 Take care not to allow liquids to get inside the machine. Otherwise there is a risk of failure, electric shock, or fire.

## **Cleaning the Print Head Nozzle Surface**

Clean the print head nozzle surface if other cleaning or maintenance fails to resolve ejection failures (e.g., nozzle clogging, deflection).

#### [Cleaning guide]

- With MLSb510: When one mini-jumbo roll (approx. 3,000 m) has been printed or when the printing time exceeds 24 hours
- With AP50: When two rolls (approx. 1,000 m) have been printed or when the printing time exceeds 8 hours



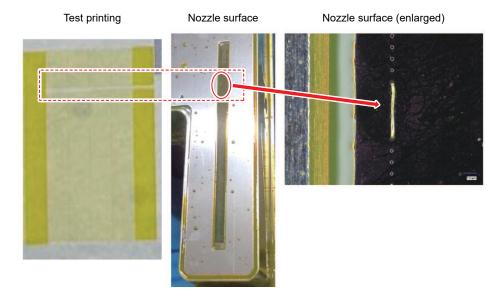
 Allow only personnel trained by Mimaki engineers to clean the head nozzle surface. Allowing those without adequate training to clean nozzle surfaces may result in head failure.



• Use only the supplies specified by Mimaki. Cleaning with other products may cause print head wear.



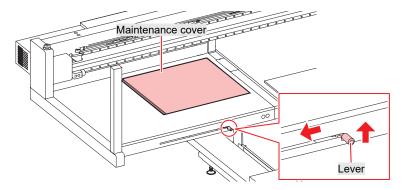
• Do not clean the nozzle surfaces using cotton or other materials that may shed fibers. Fibers from such materials may cause nozzle clogging.



- 1 From the MPC menu, tap [MAINTENANCE].
  - The Maintenance menu is displayed.
- Tap [Daily maintenance] > [Maintenance wizard], then tap [Head maintenance].
  - · The carriage moves to the maintenance space.
- 3 Switch the maintenance switch to maintenance mode. The "Maintenance Switch" (P. 39)

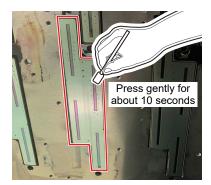
#### **⚠** Slide the maintenance cover on the left side of the Y-bar.

· Lift the lever and slide it to the left.



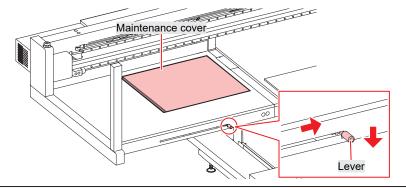
#### 5 The nozzle surface is cleaned.

 Gently press a cleaning stick moistened with maintenance fluid against the nozzle surface for about 10 seconds.





- Do not rub or press the cleaning stick with excessive force against the nozzle surface.
   Doing so may cause print head wear.
- · Do not reuse cleaning sticks.
- Once cleaning is complete, slide the maintenance cover on the left side of the Y-bar to close it and tap [Complete].





- Make sure the maintenance cover is returned to the correct position.
- **7** Switch the maintenance switch to print mode. The "Maintenance Switch" (P. 39)
- R Tap [Complete] > [Finish].
- Cale in the property of the
  - # "Head Cleaning"(P. 95)

- 10 Make a test print and check the print results.
  - Repeat the cleaning and test printing process until the print results appear normal.

# 4.4 Consumable Item Replacement

To order replacement consumable items, contact your local dealer or our service office.

For more information on consumable items, refer to our website. https://mimaki.com/supply/inkjet.html



· Do not store consumables where children may enter.

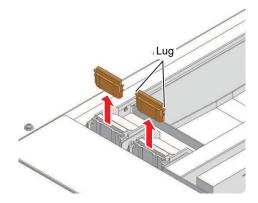


When disposing of consumable items, contact an industrial waste disposal operator or dispose
of in accordance with local laws and regulations.

### Wiper Replacement

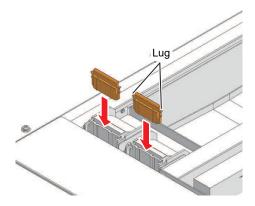
The machine maintains a count of the number of wiping cycles. Once the specified value is reached, [0605] will appear in SYSTEM ALARM on the touch panel. Replace dirty or warped wipers with new ones.

- 1 From the MPC menu, tap [MAINTENANCE].
  - · The Maintenance menu is displayed.
- Tap [Replace parts] > [Replace wiper].
  - · The carriage moves over the platen.
- 3 Switch the maintenance switch to maintenance mode. 💝 "Maintenance Switch"(P. 39)
- A Remove the wiper.
  - · Hold the lugs on both sides of the wiper bracket, then pull out the wiper.



- 5 Clean the wiper cleaner.
  - "Wiper Cleaning"(P. 159)

#### 6 Mount a new wiper.



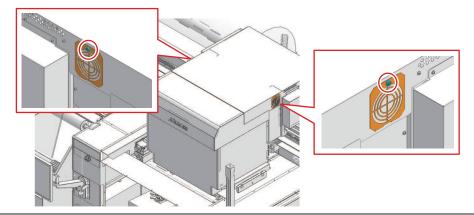
- 7 Tap [Complete] once replacement is complete.
  - · The wiper usage count is reset.
- Switch the maintenance switch to print mode and tap [OK]. "Maintenance Switch" (P. 39)

## **Carriage Filter Replacement**

Check the mist filters and replace if very dirty.



- Switch the maintenance switch to maintenance mode before carrying out maintenance.
- 1 Remove the carriage filter covers.
  - · Remove the screws, then remove the filter covers.





- Filters are positioned on the left and right of the carriage.
- Install new filters.
- 3 Install the filter covers.
  - Left and right of carriage: Fit the tabs on the bottom of the filter cover to the carriage cover, then secure with screws.

## **Blower Filter Replacement**

Check the blower filter condition, and replace if especially dirty.

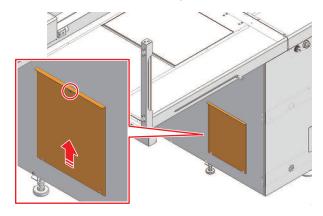
• Replacement guide: Once every six months (\* Varies depending on extent of contamination, usage environment, and volume printed.)



• Turn off the main power before performing maintenance tasks.

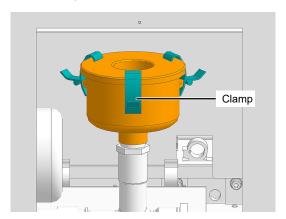
#### 1 Remove the side cover.

• Remove the knob screw, then slide the cover upward to remove it.



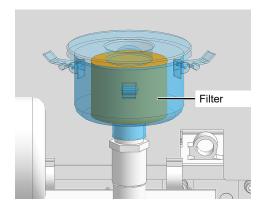
#### ? Remove the filter box cover.

• Remove the three filter box clamps, then remove the cover.



## 3 Replace the filter.

· Replace the cylindrical filter with a new filter.



- A Reattach the filter box cover and the side cover.
  - Reattach the three filter box clamps, and reattach the knob screw on the side cover.

## Ink filter replacement

#### Ink filter replacement timing

Replace the ink filter for the corresponding path if one of the following messages appear in SYSTEM ALARM or if the result of the supply test is less than 45 cc.

Message	Status	Remarks
067D:09(ZZZZZZZZ)INK SUPPLY WARN	The ink supply rate has started to drop.	Printing and maintenance are still possible, but it is recommended that the ink filter be replaced as a precaution.
061 B:09(ZZZZZZZZ)INK SUPPLY	Ink cannot be supplied to the sub-tank.	Printing is not possible, and normal maintenance such as auto cleaning is not possible.  While the basic maintenance operations are possible, leaving the machine in this state may lead to nozzle clogging that cannot be remedied. The ink filters therefore must be replaced.

<sup>\* &</sup>quot;ZZZZZZZZ" indicates the path number. (\_3\_ for path 3 and \_6\_ for path 6)



 Ink filters can be replaced by the operator only on machines compatible with the simple filter replacement kit.

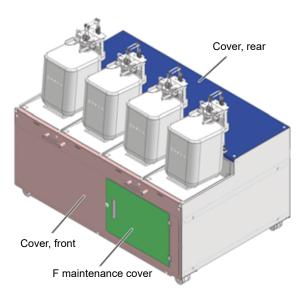


- be sure to wear the included safety glasses and gloves.
- If the messages described persist even after replacing the ink filters, contact Mimaki Technical Support.

#### Ink filter replacement procedure

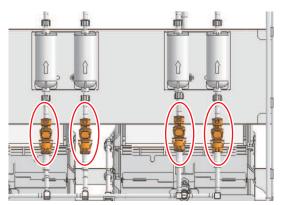
- **1** From MENU on the touch panel, tap [MAINTENANCE].
  - · The Maintenance menu is displayed.
- Select [Replace parts] > [Replace ink filter], then tap [Start].

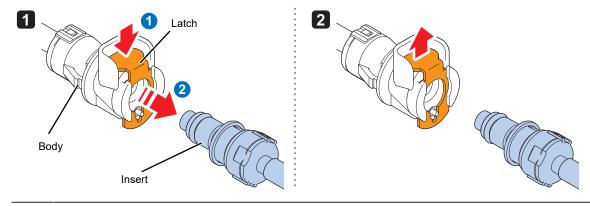
## 3 Open the F maintenance cover as instructed on the wizard screen.



## 4 Remove the fitting below the filter.

· Press down on the fitting latch, then pull out the insert.

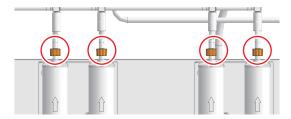






• Be sure to press down the latch fully before removing the insert. If you try to force off the insert without pressing down the latch fully, there is a risk of damaging the O-ring on the fitting, which may cause ink leakage.

5 Remove the fitting above the filter.



6 Detach the tube from the filter.



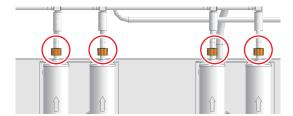
• Lay paper towels around the area before starting replacement work to protect the surrounding area from ink when disconnecting tubes.



7 Attach the tube to the new filter.



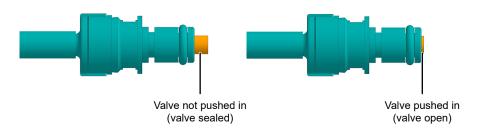
- Mount the ink filter so that the arrow engraved on it is pointing upward.
- Attach the filter to the upper fitting.

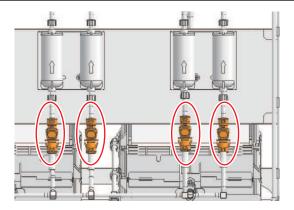


**9** Attach the tube to the lower fitting.

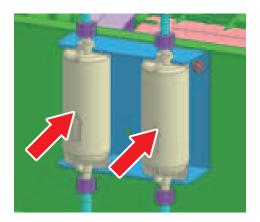


- Be sure to press down the latch fully when inserting the fitting. If you try to forcibly insert the fitting without pressing down the latch fully, there is a risk of damaging the O-ring on the fitting, which may cause ink leakage.
- Take care not to push in the valve at the tip of the fitting when connecting the fitting.
   If the valve is pushed in, ink may leak out, and air may enter the ink paths, causing malfunctioning.

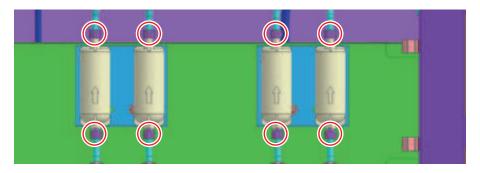




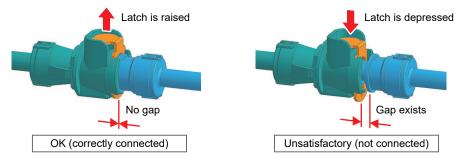
## 1 Mount the filter by pushing into the filter BKT.



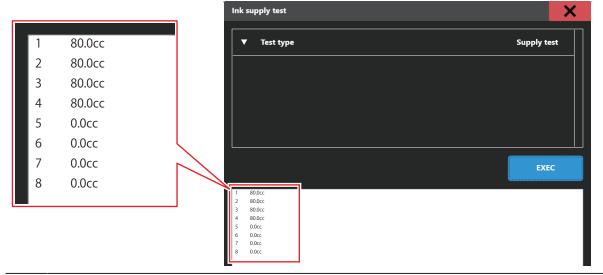
1 1 Tighten the fittings above and below the filter, and recheck to confirm that they are not loose.



- 12 Check to confirm that the fittings are securely connected.
  - (1) There are no gaps in the fittings.



- (2) The fittings do not detach when pulled gently.
- **13** Close the F maintenance cover.
- Perform a supply test from the MPC [MAINTENANCE] menu. Terforming supply test"(P. 171)
- 15 Check to confirm that the test results are less than 45 cc.





 If the test results are less than 45 cc immediately after replacing the filters, contact Mimaki Technical Support.

# **Ink Charging and Disposal**

# **AP50**

#### Overview

Some ink sets compatible with this product support the [Ink IC]. Compatible ink requires charging and expiration management via [Ink IC].

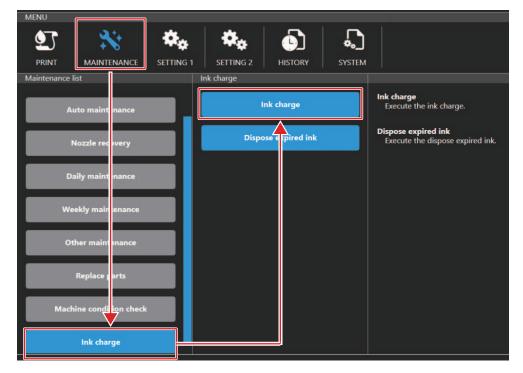
If the ink has expired, SYSTEM ALARM [641], [642], and [643] will occur. If the ink has expired, execute [Dispose expired ink].



## Ink charging

#### Procedure

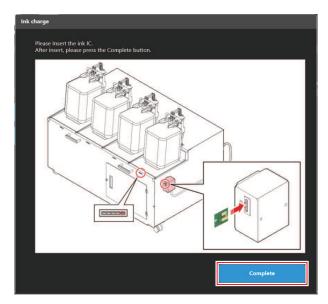
**1** From the MPC MENU, tap [MAINTENANCE] > [Ink charge] > [Ink charge].



7 Tap [OK] in the [Ink charge] wizard displayed.



3 Insert the ink IC, then tap [Complete].



**4** Execute [CLEAR ALARM]. Tap [OK] on the screen.



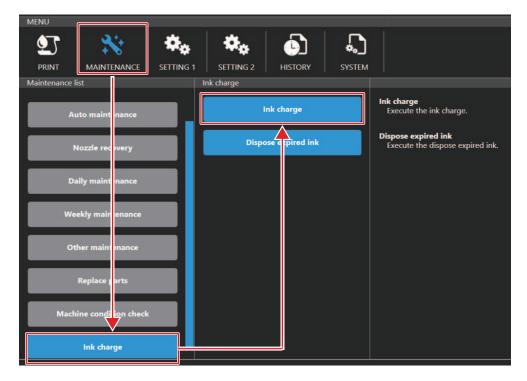
5 Tap [Finish] to complete the ink charge.



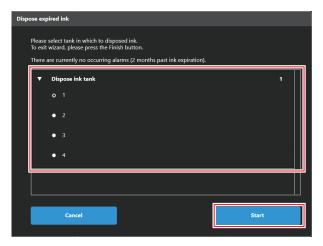
## Ink disposal

#### Procedure

**from the MPC MENU, tap [MAINTENANCE] > [Ink charge] > [Dispose expired ink].** 



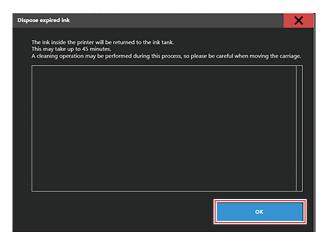
2 Select the tank for which ink is to be disposed of in the [Dispose expired ink] wizard displayed, then tap [Start].



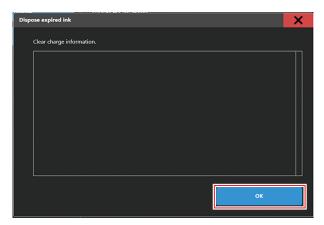
3 Check the remaining ink level and reduce the level to 70% or less, then tap [OK].



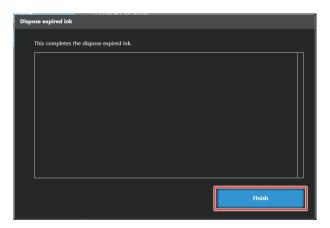
4 Tap [OK] to discharge the ink.



5 Tap [OK] to clear the charged ink information.



6 Tap [Finish] to exit the [Dispose expired ink] wizard.



7 Tap [Finish] again to complete ink disposal.



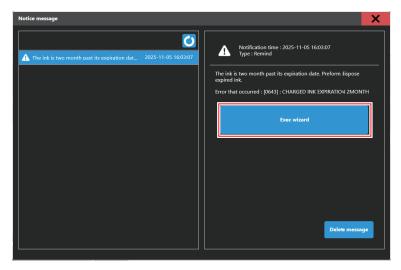
## Ink disposal from a notification message when an alarm occurs

#### Procedure

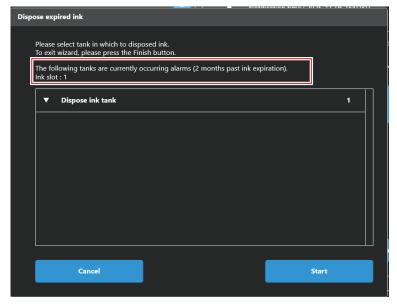
1 When an ink expiration alarm occurs, tap the notification button at the lower right of the screen.



2 Select the ink expiration notification, then tap [Exec wizard].



3 The [Dispose expired ink] wizard will appear, indicating the tank for which the alarm occurred.



• For the subsequent procedure, refer to Think disposal"(P. 187).

# **Chapter 5 Troubleshooting**



#### This chapter

This chapter describes corrective action for troubleshooting and messages on the display.

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# 5.1 Troubleshooting

For information on troubleshooting, refer to this chapter. Refer to the Mimaki website (https://mimaki.com/support/) for frequently asked questions (FAQs) about the machine and customer support videos.

If the recommended corrective action does not resolve the problem, contact your local dealer or our service office.

# The power does not turn on.

Points to check	Corrective action	
Is the main power supply turned on?	Turn on the main power supply. Turning On the Power"(P. 153)	
Is the PRINTER STATUS icon on	Turn the power on. Turn the power on. Turn the power on.	
the touch panel set to 😅?		

## Printing is not possible.

Points to check	Corrective action	
Is the LAN cable connected to the machine also connected to the control PC?	Insert the LAN cable connector into the LAN port until it clicks into place. Tystem Configuration"(P. 40)	
Does an "Ink end" message appear in SYSTEM ALARM on the touch panel?	Replace with new ink. Tank Replacement Method"(P. 56)	
Does a message appear in SYSTEM ALARM on the touch panel?	Take appropriate measures based on the message. TSYSTEM ALARM"(P. 126) Troblems Indicated by Messages"(P. 195)	

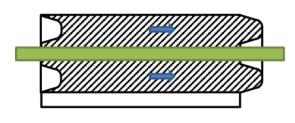
# The media jams or the media is dirty.

Points to check	Corrective action
Are you using the recommended media?	Make sure you are using the recommended media. https://mimaki.com/supply/inkjet.html
Are you using curled media?	Do not use curled media or media with folded ends.

# The media is skewed (winding shift).

### Winding shift

Over time, strong forces acting in the core direction may cause the media to shift outward from the winding core side as it is taken up.







#### 1. Recover the take-up roll when it reaches approximately 1,500 m.

Winding shift tends to occur more easily beyond 1,500 m. Regularly recovering the take-up roll can help reduce the impact of winding shift on subsequent processes.

#### 2. Dry ink sufficiently on transfer paper.

Winding shift is more likely to occur when the ink is not sufficiently dried. Check the heater temperature setting, and check to confirm that the ink is sufficiently dried during take-up.

#### 3. Reduce the number of passes.

The extent of winding shift varies depending on the feed rate. Reducing the number of passes can help reduce the effects of winding shift.

# Image defects occur.

Symptom / Points to check	Corrective action		
White stripes, blurs, and dark stripes occur. (Scan (horizontal) direction)	1. Remove any paper scraps or other debris adhering to areas over which the print head passes. The "Platen Cleaning" (P. 165)		
, , ,	2. Perform the procedure described in 💝 "Head Cleaning"(P. 95).		
	3. Perform the procedure described in Twiper Cleaning"(P. 159).		
	4. Perform the procedure described in Tarriage Underside Cleaning"(P. 161).		
Offsetting occurs during bidirectional printing.	Perform the procedure described in  "Correcting the Drop Position"(P. 97).		
Ink droplets drip during printing.	1. Perform the procedure described in 💝 "Wiper Cleaning"(P. 159).		
	2. Perform the procedure described in Tarriage Underside Cleaning"(P. 161).		
	3. Perform the procedure described in 💝 "Head Cleaning"(P. 95).		
	4. Set auto maintenance. The "Maintenance Menu" (P. 129)		
Clear clogged nozzles.	1. Perform the procedure described in 💝 "Head Cleaning"(P. 95).		
	2. Perform the procedure described in  "Wiper Cleaning"(P. 159).		
	3. Perform the procedure described in Ink fillup (Print head).		
	4. Perform the procedure described in 💝 "Wiper Replacement"(P. 177).		
	5. Set [MAINTENANCE] > [Nozzle recovery] > [Nozzle recovery] to "On".		
Nozzle clogging occurs during standby.	Check to confirm that the station is not exposed to direct drafts, such as from air conditioners. If the station is exposed to direct drafts, take measures to protect it, such as by installing a partition between the machine and the air conditioner.		
Is the head gap excessive?	Reduce the head gap. If the head gap cannot be reduced, increase flushing frequency during printing ( "Maintenance Menu" (P. 129)) or make regular test prints to check for nozzle clogging.		
Are there any ink colors that aren't used much?	Increase the refresh level ( "Setting 1 Menu" (P. 144)) during printing. Discharge from infrequently used nozzles tends to be inconsistent. Increasing the refresh level will allow more frequent nozzle use but increase ink consumption.		
Are you using media easily affected by static electricity?	Increase flushing intervals during printing ( "Maintenance Menu" (P. 129) "Setting 1 Menu" (P. 144)) or make regular test prints to check for nozzle clogging.		
Is the machine installed in a location with low humidity?	Increase the humidity by installing a humidifier or similar equipment. When printing continuously, increase flushing frequency during printing ( "Setting 1 Menu" (P. 144)) or make regular test prints to check for nozzle clogging.		

## **Chapter 5 Troubleshooting**

Symptom / Points to check	Corrective action
Is the machine installed in a location with significant amounts of airborne dust or powder?	Install the machine in a location free of excessive dust or powder (office equivalent: dust levels = 0.15 mg/m <sup>3</sup> ). If the printer is installed elsewhere, make regular test prints to confirm no nozzle clogging occurs.

# Ink has leaked out.



• If an ink leak occurs, turn off the main power immediately and turn off the breaker. Then, contact your local dealer or our service office.

# Touch panel operation is not possible.

Points to check	Corrective action	
Are any objects such as tape or labels affixed to the touch panel screen or the black outer frame?	Touch panel operation may not be possible if objects such as tape or labels are attached to it. Please remove any such objects before operation.	
Is the touch panel dirty?	If it is very dirty, gently wipe off the dirt with a soft cloth.	

# 5.2 Problems Indicated by Messages

If a problem is detected, the buzzer will sound and a message will appear in SYSTEM ALARM on the touch panel. Take the appropriate action in accordance with the content of the message. If a message reappears even after taking the prescribed action, contact your local dealer or our service office.

Error numbe	Error level	Message	Cause	Corrective action
r				
0108	2	HD TYPE	<ul> <li>A problem was detected with head control.</li> </ul>	<ol> <li>Select [SYSTEM] &gt; [Power] &gt;         [Shutdown System]. Turn off the         control PC, then turn off the main         power supply for the machine. Wait</li> </ol>
010E	2	FROM CLEAR	A problem was	briefly before turning the power back
010F	2	FROM WRITE	detected with the control PCB.	on.  2. If the error appears again, contact your
0115	2	PCB MAIN-F1		local distributor, our sales office, or
0116	2	PCB MAIN-F2		service center.
011F	2	PCB SLIDER		
0122	2	PRAM NONE		
0123	2	PRAM DATA		
0124	2	PRAM ADDR		
0127	2	POWER OFF		
0128	2	HDC FIFO		
0129	0	BATTERY EXCHANGE	Internal clock     battery depletion     was detected.	Contact your local distributor, our sales office, or service center.
012A	2	HDC SPEED	<ul> <li>A problem was detected with head control.</li> </ul>	
012D	2	PCB MAIN-F4	A problem was detected with the control PCB.	Select [SYSTEM] > [Power] >     [Shutdown System]. Turn off the     control PC, then turn off the main     power supply for the machine. Wait
012E	2	HeadFaild	A problem was detected with the head.	briefly before turning the power back on.  2. If the error appears again, contact your
0151	2	Main PCB V1R2	A problem was	local distributor, our sales office, or service center.
0152	2	Main PCB V2R5	detected with the control PCB.	
0153	2	Main PCB V3R3		
0154	2	Main PCB V05		
015F	2	Head Drive Hot	A problem was detected with the control PCB.	
0171	2	NEW HEAD CONNECT	A new head connection was detected.	
0186	2	HDC WAVEFLOW	A problem was	
0189	2	COM VOLT	detected with head control.	

Error numbe r	Error level	Message	Cause	Corrective action
018C	2	Main PCB V12	A problem was	
018D	2	PCB EXIO1	detected with the control PCB.	
018E	2	FLS NOT COMP	A problem was	
018F	2	OFFSET WAVE	detected with head control.	
0190	2	Main PCB V_V1	A problem was	
019E	2	HDC FUSE ERROR	detected with the control PCB.	
01BB	2	COMIO VHV1		1. Select [SYSTEM] > [Power] >
01BF	2	PCB MAIN-F2/F3		[Shutdown System]. Turn off the control PC, then turn off the main
01D1	2	PCB EXIO-FUSE		power supply for the machine. Wait briefly before turning the power back
01D8	2	HEAD XHOT	A problem was detected with the head temperature.	on.  2. If the error appears again, contact your local distributor, our sales office, or
01E6	0	PRAM SIZE	A problem was	service center.
01E7	2	PCB INKCTRL1	detected with the control PCB.	
01EA	2	PCB EXIO2		
0201	1	COMMAND	A communication	
0202	1	PARAMETER	error was detected between the control	
0203	2	Ment Command	PC and printer.	
0205	0	WRITING COMMAND	Print lock expiration date update failed.	Check [Extend Date] and [Serial No.]     displayed in PasskeyForwarder, then     update the expiration date again.
				If the error appears again, contact your local distributor, our sales office, or service center.
030C	1	SCAN DATA TIMEOUT	<ul> <li>A communication error was detected.</li> </ul>	1. Clear the alarm on the touch panel. © "Clearing Alarms"(P. 127)
				2. If the error appears again, select [SYSTEM] > [Power] > [Shutdown System]. Turn off the control PC, then turn off the main power supply for the machine. Wait briefly before turning the power back on.
				If the error appears again even after turning the power back on, contact your local distributor, our sales office, or service center.
0310	2	PORT OPEN ERROR	A communication	Select [SYSTEM] > [Power] >
0311	2	ACK ERROR	error was detected.	[Shutdown System]. Turn off the control PC, then turn off the main
0312	2	CMD ERROR		power supply for the machine. Wait
0313	2	CMD TIMEOUT		briefly before turning the power back on.
0314	2	NOTICE ERROR		If the error appears again, contact
0401	2	MOTOR X	A problem was detected with the X motor.	your local distributor, our sales office, or service center.

Error numbe r	Error level	Message	Cause	Corrective action
0402	2	MOTOR Y	A problem was detected with the Y motor.	
0405	0	STATION ERROR	The carriage attempted to move beyond the upper limit.	
0406	2	Wiper origin detection failure	The wiper origin could not be detected.	
041B	1	MEDIA NEAR END	The remaining amount of media is low. Or the media roll diameter is small. * Near end detection has a margin of error of approximately 10 m.	Replace with new roll media.
0423	1	TAKE-UP TENSION- BAR	Take-up tension bar initialization failed.	1. Check to confirm that the media has been correctly loaded from the printing surface to the take-up shaft. The "Loading Media on to the Printer Main Unit" (P. 81)
				Check to confirm that the take-up shaft rotation direction switch is correctly set for the media orientation.
0424	1	FEEDING TENSION- BAR	Feeding tension bar initialization failed.	1. Check to confirm that the media has been correctly loaded from the feeding shaft to the printing surface. "Loading Media on to the Printer Main Unit"(P. 81)
				Check to confirm that the feeding shaft rotation direction switch is correctly set for the media orientation.
0425	1	TAKE-UP TENSION_BAR DROP DOWN	The take-up tension bar dropped below the limit position.	1. Check to confirm that the media is loaded via the correct path. "Loading Media on to the Printer Main Unit"(P. 81)
				Check to confirm that the take-up unit is rotating.
0426	1	FEEDING TENSION_BAR DROP DOWN	<ul> <li>The feeding tension bar dropped below the limit position.</li> </ul>	1. Check to confirm that the media is loaded via the correct path. The loading Media on to the Printer Main Unit"(P. 81)
				Check to confirm that the feeding unit is rotating.
0429	1	TAKE-UP TENSION- BAR LIMIT OVER	The take-up tension bar moved beyond the movement limit position.	1. Check to confirm that the media is loaded via the correct path. "Loading Media on to the Printer Main Unit"(P. 81)
				Check to confirm that the take-up unit is rotating.

Error numbe r	Error level	Message	Cause	Corrective action
042A	1	FEEDING TENSION- BAR LIMIT OVER	The feeding tension bar moved beyond the movement limit position.	1. Check to confirm that the media is loaded via the correct path. "Loading Media on to the Printer Main Unit"(P. 81)
			<b>.</b>	2. Check to confirm that the feeding unit is rotating.
0441	2	HEADHEIGHT WRONG	A problem was detected with vertical head control.	Select [SYSTEM] > [Power] >     [Shutdown System]. Turn off the     control PC, then turn off the main     power supply for the machine. Wait     briefly before turning the power back     on.
				If the error appears again, contact your local distributor, our sales office, or service center.
0449	2	SCAN COORD(MIN)	A problem was	Turn off the main power supply for
044A	2	SCAN COORD (MAX)	detected with Y motor control.	the machine and wait briefly before turning the power back on. If the error appears again, contact your local distributor, our sales office, or service center.
0481	3	Take-up Shaft Position	The take-up shaft ejection position	Execute [Winding] > [Rotate roll to removable position] again.
			1 1 1	2. If the error appears again, contact your local distributor, our sales office, or service center.
0482	3	Feeding Shaft Position	The feeding shaft ejection position	Execute [Feeding] > [Rotate roll to removable position] again.
			could not be detected.	2. If the error appears again, contact your local distributor, our sales office, or service center.
0483	1	Take-up INVERTER alarm	<ul> <li>A problem was detected with the take-up motor inverter unit.</li> </ul>	Select [SYSTEM] > [Power] >     [Shutdown System]. Turn off the     control PC, then turn off the main     power supply for the machine. Wait     briefly before turning the power back
0484	1	Feeding INVERTER alarm	A problem was detected with the feeding motor inverter unit.	on.  2. If the error appears again, contact your local distributor, our sales office, or service center.
0485	1	Take-up Emergency Button is pushed	The take-up unit emergency stop switch was pressed.	Reset the emergency stop switch on the take-up unit.
04A0	1	X serbo amp error	A problem was detected with the servo amplifier (X motor).	<ol> <li>Clear the alarm on the touch panel. "Clearing Alarms" (P. 127)</li> <li>If the error appears again, select [SYSTEM] &gt; [Power] &gt; [Shutdown</li> </ol>
04A1	1	Y serbo amp error	A problem was detected with the servo amplifier (Y motor).	System]. Turn off the control PC, then turn off the main power supply for the machine. Wait briefly before turning the power back on.  3. If the error appears again even after turning the power back on, contact your local distributor, our sales office, or service center.

Error numbe r	Error level	Message	Cause	Corrective action
04AF	0	Y motor position mismatch	A problem was detected with the Y motor coordinates.	<ol> <li>Clear the alarm on the touch panel. "Clearing Alarms"(P. 127)</li> <li>If the error appears again, contact your local distributor, our sales office, or service center.</li> </ol>
0505	1	MEDIA JAM	The media jam sensor was triggered.	<ol> <li>Remove the media in contact with the carriage and reload with fresh media.</li> <li>Clear the alarm on the touch panel. "Clearing Alarms" (P. 127)</li> </ol>
0509	2	HDC Position count	A problem was detected with position control.	<ol> <li>Clear the alarm on the touch panel. "Clearing Alarms"(P. 127)</li> <li>If the error appears again, contact your local distributor, our sales office, or service center.</li> </ol>
050A	3	Y origin detection failure	A problem was detected with Y origin detection (initialization).	Select [SYSTEM] > [Power] >     [Shutdown System]. Turn off the     control PC, then turn off the main     power supply for the machine. Wait     briefly before turning the power back
050F	2	L-SCALE BLACK	<ul> <li>A problem was detected with the linear scale.</li> </ul>	on.  2. If the error appears again, contact your local distributor, our sales office, or
0511	3	Z origin detection failure	A problem was detected with Z origin detection (initialization).	service center.
0519	2	NEGATIVE PRESS SENSOR	A problem was detected with the negative pressure sensor.	<ol> <li>Clear the alarm on the touch panel. "Clearing Alarms"(P. 127)</li> <li>If the error appears again, contact your local distributor, our sales office, or</li> </ol>
051A	2	POSITIVE PRESS SENSOR	A problem was detected with the positive pressure sensor.	service center.
0531	2	WRONG INKTANK SENSOR	A problem was detected with the weight sensor on the ink supply unit.	Check to confirm that the ink tank is correctly mounted, it has not been impacted, and no object has been placed on top.
				<ol> <li>If the error appears even after checking, perform [Maintenance] &gt; [Other maintenance] &gt; [Ink tank calibration].</li> </ol>
				3. Select [SYSTEM] > [Power] > [Shutdown System]. Turn off the control PC, then turn off the main power supply for the machine. Wait briefly before turning the power back on. If the error appears again, contact your local distributor, our sales office, or service center.
0542	1	Emergency switch	<ul> <li>An emergency stop switch was pressed.</li> </ul>	<ol> <li>Eliminate the cause for which the emergency stop switch was pressed.</li> <li>Reset the emergency stop switch.</li> </ol>

Error numbe r	Error level	Message	Cause	Corrective action
				<ul> <li>3. Clear the alarm on the touch panel. "Clearing Alarms"(P. 127) <ul> <li>Clearing the alarm will start the initial operations.</li> </ul> </li> <li>4. If the error is not cleared, contact your local distributor, our sales office, or service center.</li> </ul>
054A 054D	0	PDC Position interrupt  HDCE Cooling Fan Error	A problem was detected with print control.      An error was detected with the HDCE cooling fan rotation.	1. Select [SYSTEM] > [Power] > [Shutdown System]. Turn off the control PC, then turn off the main power supply for the machine. Wait briefly before turning the power back on.  2. If the error appears again, contact your local distributor, our sales office, or service center.
0556	3	Y LIMIT SENSOR	The carriage has exceeded the operating range in the Y direction.	Contact your local distributor, our sales office, or service center.
0557	1	Light curtain detects obstacles	The light curtain detected an obstacle.	<ol> <li>Remove the obstacle from the light curtain detection area. "Light Curtain"(P. 37)</li> <li>Clear the alarm on the touch panel. "Clearing Alarms"(P. 127)</li> </ol>
0558	0	PDC Scan position	A scan coordinate error occurred.	1. Select [SYSTEM] > [Power] > [Shutdown System]. Turn off the control PC, then turn off the main power supply for the machine. Wait briefly before turning the power back on.  2. If the error appears again, contact your local distributor, our sales office, or service center.
0561	3	Carriage Cap Sensor	A problem was detected with the carriage cap sensor.	Contact your local distributor, our sales office, or service center.
0601	0	INK NEAR END	The ink in the ink tank has run out.	<ul><li>Install an ink tank as follows:</li><li>1. Lift the cap cover and detach the fitting.</li></ul>
0602	1	INK END	Available ink has run out.	<ol> <li>Load a new ink tank.</li> <li>Connect the fitting and lower the cap</li> </ol>
0603	0	NO INK TANK	No ink tank was detected.	cover.  4. Execute [CLEAR ALARM].  If the warning persists, contact your local distributor, our sales office, or service center.
0605	0	REPLACE WIPER	It is time to replace the wiper.	<ol> <li>Replace the wiper. "Wiper Replacement" (P. 177)</li> <li>Clear the alarm on the touch panel. "Clearing Alarms" (P. 127)</li> </ol>
0606	0	NO INK IC	[Pigment models only]	[Pigment models] 1. Reinsert the ink IC.

Error numbe r	Error level	Message	Cause	Corrective action
			The ink IC chip cannot be read correctly.	Afterwards, execute [CLEAR ALARM].     If the error appears again, insert the supplied ink IC into the new ink tank.     Once the ink IC has been inserted,
				execute [CLEAR ALARM].  4. If the error appears again, contact your local distributor, our sales office, or service center.  [Models other than pigment models]
				Execute [CLEAR ALARM].
				If the error appears again, contact your local distributor, our sales office, or service center.
0607	0	STATION CLEANING	Station     maintenance has	Perform station maintenance as follows:
			not been performed for a long period of time.	1. Clean the station. The "Wiper Cleaning" (P. 159)
			uille.	2. Clean the wiper.
				3. Clear the alarm on the touch panel. "Clearing Alarms"(P. 127)
0608	0	WRONG INK IC	[Pigment models only]	[Pigment models]
			The ink IC chip cannot be read	Reinsert the ink IC.
			correctly.	Afterwards, execute [CLEAR ALARM].     If the error appears again, insert the supplied ink IC into the new ink tank.
				Once the ink IC has been inserted, execute [CLEAR ALARM].
				If the error appears again, contact your local distributor, our sales office, or service center.
				[Models other than pigment models]
				Execute [CLEAR ALARM].
				If the error appears again, contact your local distributor, our sales office, or service center.
060C	0	INK TYPE ERROR	[Pigment models only]	[Pigment models]
			An ink IC of a different ink type	Check the ink type, then reinsert the ink IC.
			was detected.	If the error appears again, contact your local distributor, our sales office, or service center.
				[Models other than pigment models]
				Execute [CLEAR ALARM].
				If the error appears again, contact your local distributor, our sales office, or service center.
060F	0	INK EXPIRATION	[Pigment models only]	[Pigment models]
			An ink IC was detected for ink that has reached its expiration date.	The inserted ink IC has reached its expiration date. Please use it up as soon as possible.

Error numbe r	Error level	Message	Cause	Corrective action
				If this error appears when an ink IC is inserted for an ink tank that has not reached its expiration date, contact your local distributor, our sales office, or service center.  [Models other than pigment models]      Execute [CLEAR ALARM].  If the error appears again, contact your local distributor, our sales office, or service center.
0617	1	WRONG SUBTANK SENSOR	A problem was detected with the sub-tank fluid level sensor.	Select [SYSTEM] > [Power] >     [Shutdown System]. Turn off the     control PC, then turn off the main     power supply for the machine. Wait     briefly before turning the power back     on.      If the error appears again, contact your     local distributor, our sales office, or     service center.
061A	1	INK OVERFLOW	Sub-tank sensor limit was detected.	<ol> <li>Clear the alarm on the touch panel. "Clearing Alarms"(P. 127)</li> <li>If the error appears even after clearing, contact your local distributor, our sales office, or service center.</li> </ol>
061B	1	INK SUPPLY	Ink cannot be supplied to the sub- tank.	1. Check to confirm that the ink tank fittings are connected and the cap cover is mounted. "Replacing the ink tank"(P. 56)   This error may occur if the machine is allowed to stand for extended periods after Near End
				has occurred.  - Replace the ink filter. Think filter replacement (P. 180)
				2. Clear the alarm on the touch panel. © "Clearing Alarms"(P. 127)
				3. If the error appears again even after clearing, select [SYSTEM] > [Power] > [Shutdown System]. Turn off the control PC, then turn off the main power supply for the machine. Wait briefly before turning the power back on.
				If the error appears again, contact your local distributor, our sales office, or service center.
061C	1	NEGATIVE PRESS CONTROL	Negative pressure control could not be	1. Clear the alarm on the touch panel. © "Clearing Alarms"(P. 127)
061D	1	NEGATIVE PRESS NOT ENOUGH	<ul> <li>Proper negative pressure cannot be maintained.</li> </ul>	If the error appears again, contact your local distributor, our sales office, or service center.
061E	1	NEGATIVE PRESS OVER	Excessive negative pressure	

Error numbe r	Error level	Message	Cause	Corrective action
061F	1	POSITIVE PRESS CONTROL	Positive pressure control could not be initiated.	
0620	1	POSITIVE PRESS NOT ENOUGH	Proper positive pressure cannot be maintained.	
0621	1	POSITIVE PRESS OVER	Excessive positive pressure	
0629	0	INK EXPIRATION 1MONTH	[Pigment models only]  • An ink IC was detected for which the ink is one month past its expiration date.	[Pigment models]  1. The ink tank for the inserted ink IC will shortly become unusable. Check to confirm that the ink has expired, then use manual charging if ink charging is required.  [Models other than pigment models]  1. Execute [CLEAR ALARM].  2. If the error appears again, contact your local distributor, our sales office, or service center.
062A	0	INK EXPIRATION 2MONTH	[Pigment models only]  • An ink IC was detected for which the ink is two months past its expiration date.	<ol> <li>[Pigment models]</li> <li>This ink is no longer usable. Replace with a new ink tank.</li> <li>Replace with a new ink tank, charge the ink, then execute [CLEAR ALARM].</li> <li>[Models other than pigment models]</li> <li>Execute [CLEAR ALARM].</li> <li>If the error appears again, contact your local distributor, our sales office, or service center.</li> </ol>
0631	0	INK COLOR	[Pigment models only] • An ink IC was detected for a color not installed.	<ol> <li>[Pigment models]</li> <li>Insert the ink IC supplied with the ink tank for the color installed.</li> <li>Execute [CLEAR ALARM] after inserting the ink IC.</li> <li>If the error appears again, contact your local distributor, our sales office, or service center.</li> <li>[Models other than pigment models]</li> <li>Execute [CLEAR ALARM].</li> <li>If the error appears again, contact your local distributor, our sales office, or service center.</li> </ol>
0637	2	INK LEAK	A ink leak was detected at the ink supply unit.	Check whether there are any ink leaks in the vicinity of the lnk tank.      Select [SYSTEM] > [Power] > [Shutdown System]. Turn off the control PC, then turn off the main power supply for the machine. Wait briefly before turning the power back on.

Error numbe r	Error level	Message	Cause	Corrective action
				If the error appears again, contact your local distributor, our sales office, or service center.
0641	0	CHARGED INK EXPIRATION	<ul> <li>[Pigment models only]</li> <li>The charged ink         has reached its         expiration date.</li> </ul>	<ol> <li>[Pigment models]</li> <li>The charged ink has reached its expiration date. Please use it up as soon as possible.</li> <li>[Models other than pigment models]</li> <li>Execute [CLEAR ALARM].</li> <li>If the error appears again, contact your local distributor, our sales office, or service center.</li> </ol>
0642	0	INK EXPIRATION 1MONTH	[Pigment models only]  • The charged ink is one month past its expiration date.	<ol> <li>[Pigment models]</li> <li>The ink will soon become unusable.         Please use it up as soon as possible.</li> <li>[Models other than pigment models]</li> <li>Execute [CLEAR ALARM].</li> <li>If the error appears again, contact your local distributor, our sales office, or service center.</li> </ol>
0643	1	INK EXPIRATION 2MONTH	[Pigment models only]  • The charged ink is two months past its expiration date.	<ol> <li>[Pigment models]</li> <li>The ink is no longer usable.         Execute [Maintenance] &gt; [Ink supply option] &gt; [Dispose of expired ink] to remove the ink from the tank.</li> <li>Next, replace with a new ink tank, then charge with ink.</li> <li>[Models other than pigment models]</li> <li>Execute [CLEAR ALARM].</li> <li>If the error appears again, contact your local distributor, our sales office, or service center.</li> </ol>
0644	0	SUPPLY INK NEAR END	<ul><li>[Pigment models only]</li><li>There is little charge ink remaining.</li></ul>	[Pigment models]  1. Charge with ink.  2. Next, execute [CLEAR ALARM]. [Models other than pigment models]
0645	1	SUPPLY INK END	<ul><li>[Pigment models only]</li><li>There is no charge ink remaining.</li></ul>	Execute [CLEAR ALARM].     If the error appears again, contact your local distributor, our sales office, or service center.
0646	0	INK IC ALREADY USED	[Pigment models only]  • The machine detected that the ink IC from previously used ink was inserted.	<ul><li>[Pigment models]</li><li>1. Insert the ink IC supplied with the new ink tank.</li><li>[Models other than pigment models]</li><li>1. Execute [CLEAR ALARM].</li></ul>
066B	2	SUBTANK EMPTY	There is no ink in the sub-tank.	1. Check to confirm that the Ink tank fittings are connected and the cap cover is mounted. The "Replacing the ink tank" (P. 56)

Error numbe r	Error level	Message	Cause	Corrective action
				- This error may occur if the machine is allowed to stand for extended periods after Near End has occurred.
				<ul> <li>Replace the ink filter.  Tink filter replacement (P. 180)</li> </ul>
				2. Clear the alarm on the touch panel. Clearing Alarms"(P. 127)
				3. If the error appears again even after clearing, select [SYSTEM] > [Power] > [Shutdown System]. Turn off the control PC, then turn off the main power supply for the machine. Wait briefly before turning the power back on.
				If the error appears again, contact your local distributor, our sales office, or service center.
0678	0	INK CIRCULATION WARN	<ul> <li>A problem was detected with ink</li> </ul>	Check to confirm that the tube fittings are securely connected to the lnk tank.
			circulation control.	2. Clear the alarm on the touch panel. CP "Clearing Alarms"(P. 127)
				3. If the error appears again even after clearing, select [SYSTEM] > [Power] > [Shutdown System]. Turn off the control PC, then turn off the main power supply for the machine. Wait briefly before turning the power back on.
				If the error appears again, contact your local distributor, our sales office, or service center.
067D	0	INK SUPPLY WARN	<ul> <li>A drop in the ink supply speed to the sub-tank was detected.</li> </ul>	1. Check to confirm that the Ink tank fittings are connected and the cap cover is mounted. The placing the ink tank"(P. 56)
			<ul> <li>The ink filter may be becoming clogged.</li> </ul>	<ul> <li>This error may occur if the machine is allowed to stand for extended periods after Near End has occurred.</li> </ul>
				<ul> <li>Replace the ink filter. This filter replacement (P. 180)</li> </ul>
				2. Clear the alarm on the touch panel. (3) "Clearing Alarms"(P. 127)
				3. If the error appears again even after clearing, select [SYSTEM] > [Power] > [Shutdown System]. Turn off the control PC, then turn off the main power supply for the machine. Wait briefly before turning the power back on.
				If the error appears again, contact your local distributor, our sales office, or service center.

Error numbe r	Error level	Message	Cause	Corrective action
0686	0	Subtank Discharge	A problem was detected with the sub-tank discharge process.	<ol> <li>Clear the alarm on the touch panel. "Clearing Alarms" (P. 127)</li> <li>If the error appears again, contact your local distributor, our sales office, or service center.</li> </ol>
0687	0	Purified Water Tank None	The purified water tank was not detected.	<ol> <li>Check to confirm that the purified water tank is correctly mounted, then perform [CLEAR ALARM]. "Clearing Alarms" (P. 127)</li> <li>If the error appears again, contact your</li> </ol>
0688	0	Purified Water END	There is no purified water in the purified water tank.	local distributor, our sales office, or service center.  1. Replenish purified water in the purified water tank. "Purified Water Replenishment Procedure" (P. 62)
0689	0	Purified Water NEAR END	There is only a little purified water remaining in the purified water tank.	2. Check to confirm that there is sufficient purified water in the purified water tank, then perform [CLEAR ALARM]. "Clearing Alarms"(P. 127)
			parmod water tarm.	If the error appears again, contact your local distributor, our sales office, or service center.
068A	0	Purified Water Tank Sensor	<ul> <li>A problem was detected with the purified water tank sensor (load cell).</li> </ul>	<ol> <li>Perform [Maintenance] &gt; [Other maintenance] &gt; [Purified water tank calibration].</li> <li>If the error appears again, contact your local distributor, our sales office, or</li> </ol>
068B	0	Check InkTank Cap	The supply unit cap was detected as detached.	service center.  1. Check to confirm that the supply unit lnk tank cap cover is correctly attached, then perform [CLEAR ALARM]. Clearing Alarms"(P. 127)
				If the error appears again, contact your local distributor, our sales office, or service center.
068C	0	ST Tub Level Sensor	A problem was detected with the station moisture	1. Clear the alarm on the touch panel. Clearing Alarms"(P. 127)
			tray fluid level sensor.	<ol><li>If the error appears again, contact your local distributor, our sales office, or service center.</li></ol>
068D	0	ST Tub solution Low	The station moisture tray fluid level is below the	Check the fluid level in the station moisture tray, and replenish with purified water if it is low.
			minimum.	<ol> <li>Perform [CLEAR ALARM] after replenishing the purified water. "Clearing Alarms" (P. 127)</li> </ol>
				If the error appears again, contact your local distributor, our sales office, or service center.
068E	2	ST Tub solution Full	The station moisture tray fluid	1. Clear the alarm on the touch panel. Clearing Alarms"(P. 127)
			level exceeds the maximum.	Clearing an alarm will attempt draining for up to 20 seconds. If the alarm is still displayed even after you clear it

Error numbe r	Error level	Message	Cause	Corrective action
				multiple times, or if fluid is not drained to the waste ink tank when the alarm is cleared, contact your local distributor, our sales office, or service center.
068F	0	ST Tub solution Supply	A problem was detected with the station moisture tray purified water	<ol> <li>Check to confirm that the purified water tank is correctly mounted, then perform [CLEAR ALARM]. "Clearing Alarms" (P. 127)</li> </ol>
			supply.	<ol><li>If the error appears again, contact your local distributor, our sales office, or service center.</li></ol>
0690	0	Negative Press Leak	A problem was detected with	1. Clear the alarm on the touch panel. © "Clearing Alarms"(P. 127)
			negative pressure control.	If the error appears again, contact your local distributor, our sales office, or service center.
0691	2	INK LEAK in Carriage	<ul> <li>A ink leak was detected inside the</li> </ul>	Check whether there are any ink leaks in the vicinity of the carriage.
			carriage.	<ol> <li>Select [SYSTEM] &gt; [Power] &gt;         [Shutdown System]. Turn off the         control PC, then turn off the main         power supply for the machine. Wait         briefly before turning the power back         on.</li> </ol>
				If the error appears again, contact your local distributor, our sales office, or service center.
0694	0	Check InkTank Connection	A problem was detected with the	Check to confirm that the lnk tank fittings are securely connected.
			ink tank fitting connection.	2. Execute [CLEAR ALARM]. © "Clearing Alarms"(P. 127)
				If the error appears again, contact your local distributor, our sales office, or service center.
0702	2	THERMISTOR CONNECT	<ul> <li>A problem was detected with the heater thermistor connection.</li> </ul>	Select [SYSTEM] > [Power] >     [Shutdown System]. Turn off the     control PC, then turn off the main     power supply for the machine. Wait     briefly before turning the power back     on.
				If the error appears again, contact your local distributor, our sales office, or service center.
0703	1	Heater temperature not reached	The heater temperature setting is not reached even when heated beyond the stipulated duration.	1. Check to confirm that the room temperature is within the permissible ambient temperature range. "Specifications"(P. 218)
				<ol> <li>Check to confirm that the voltage is within the rated voltage range for the machine. "Specifications" (P. 218)</li> </ol>
				Lower the heater temperature setting, and check whether an error occurs.
				<ol> <li>Select [SYSTEM] &gt; [Power] &gt;         [Shutdown System]. Turn off the         control PC, then turn off the main</li> </ol>

Error numbe r	Error level	Message	Cause	Corrective action
				power supply for the machine. Wait briefly before turning the power back on.  5. If the error appears again, contact your local distributor, our sales office, or service center.
0710	2	HEATER TEMP ERROR	A problem was detected with the heater temperature.	Select [SYSTEM] > [Power] >     [Shutdown System]. Turn off the     control PC, then turn off the main     power supply for the machine. Wait     briefly before turning the power back     on.
				<ol> <li>If the error appears again, contact your local distributor, our sales office, or service center.</li> </ol>
071E	0	Head Temperature Mismatch	<ul> <li>A problem was detected with the</li> </ul>	1. Clear the alarm on the touch panel. Carriclearing Alarms"(P. 127)
071F	2	Head Thermistor Error	head temperature.	<ol> <li>Select [SYSTEM] &gt; [Power] &gt;         [Shutdown System]. Turn off the         control PC, then turn off the main         power supply for the machine. Wait         briefly before turning the power back         on.</li> </ol>
				3. If the error appears again, contact your local distributor, our sales office, or service center.
0759	1	HEATER UNCONNECTED	The drying heater is not connected.	1. Connect the connectors on the left and right of the drying unit.
				If the error appears again, contact your local distributor, our sales office, or service center.
075A	2	SSR cooling fan abnormal	The SSR cooling fan has stopped.	Select [SYSTEM] > [Power] >     [Shutdown System]. Turn off the
075B	2	Drying fan abnormal	The drying fan has stopped.	control PC, then turn off the main power supply for the machine. Wait briefly before turning the power back
075C	2	Drying fan sensing thermistor connection	A problem was detected with the connection of the thermistor used to detect drying fan operation error.	<ul><li>on.</li><li>2. If the error appears again, contact your local distributor, our sales office, or service center.</li></ul>
075D	2	SSR operation abnormal	<ul> <li>A problem was detected with heater control.</li> </ul>	
0801	2	(C)OPCODE	A problem was	
0802	2	(C)SWI	detected with the control PCB.	
0803	2	(C)PFTCH ABRT	CONTROL OD.	
0804	2	(C)DATA ABRT		
0806	2	FW/SIO bit		
0807	2	FW/SIO wbsy		
080E	2	FW/FROM prm		

Error numbe r	Error level	Message	Cause	Corrective action
080F	2	FW/SIO vch		
0811	2	FW/SIO read		
0815	2	FW/SIO rsrc		
0816	2	FW/FROM WRC		
0817	2	FW/SaveArea		
081B	2	FW/STACK OV		
0826	2	FW/PrmSaveBuf		
0828	2	Unexpected ERROR		
0829	2	FW/ERASE TIMEOV		
083A	2	PARAMETER ERROR	A parameter error was detected.	
083B	2	MESSAGE ERROR	A message between tasks contained an invalid value.	
0912	0	INVALID INK CHARGE	[Pigment models only]  • The machine detected that an ink IC that cannot be used for ink charging was inserted.	<ul> <li>[Pigment models]</li> <li>Check the following for each error:</li> <li>1. If charging failed because the ink has reached or is one month past its expiration date, execute [Maintenance] &gt; [Ink charge] &gt; [Ink charge]. (If you proceed with ink charging, use up the ink as soon as possible, as it will soon become unusable.)</li> <li>2. If charging failed due to incorrect ink type or color, insert the correct ink IC. If the error persists after inserting the correct ink IC, contact your local distributor, our sales office, or service center.</li> <li>3. If charging failed because the ink is two months past its expiration date, the ink IC is from previously used ink, or there is an IC error, insert a new ink IC.</li> <li>[Models other than pigment models]</li> <li>1. Execute [CLEAR ALARM].</li> <li>2. If the error appears again, contact your local distributor, our sales office, or service center.</li> </ul>
0913	0	FULL CHARGE INK	[Pigment models only]  • Charging is not possible due to the excessive charge ink level.	<ol> <li>[Pigment models]</li> <li>If ink end occurs and this error appears, preventing charging even after replacing with a new ink tank, use up the ink, then recharge with ink.</li> <li>Replace the ink tank with a new ink tank after ink near-end occurs, then charge with ink.</li> <li>If an ink tank is replaced when ink remains inside or if an ink tank is not charged when it is replaced, the</li> </ol>

Error numbe r	Error level	Message	Cause	Corrective action
				charging ink level may not be managed correctly, resulting in this error occurring and the charge ink level being lost.  [Models other than pigment models]  1. Execute [CLEAR ALARM].  2. If the error appears again, contact your local distributor, our sales office, or service center.
0914	0	WRITING DATE	Print lock start failed.	1. Select [SYSTEM] > [Power] > [Shutdown System]. Turn off the control PC, then turn off the main power supply for the machine. Wait briefly before turning the power back on.  2. If the error appears again, contact your local distributor, our sales office, or service center.
0915	0	WRITING PASSKEY	Print lock expiration date update failed.	Check [Extend Date] and [Serial No.]     displayed in PasskeyForwarder, then     update the expiration date again.      If the error appears again, contact your     local distributor, our sales office, or
				service center.
0916	2	ROM MISMATCH	An update was attempted with mismatched firmware.	Select [SYSTEM] > [Power] >     [Shutdown System]. Turn off the     control PC, then turn off the main     power supply for the machine. Wait     briefly before turning the power back
0917	1	WIPER MOVE	A problem was detected with the wiper operation.	on.  2. If the error appears again, contact your local distributor, our sales office, or service center.
091D	1	COVER OPEN	The maintenance	Close the maintenance cover.
			cover is open.	2. Clear the alarm on the touch panel. Clearing Alarms"(P. 127)
0935	1	Mode change failure	The maintenance switch was operated while the machine was under mechanical control.	Clear the alarm on the touch panel.     Clearing Alarms"(P. 127)
0B1A	2	PCB BaselO	A problem was	1. Select [SYSTEM] > [Power] >
0B1E	2	PCB BaselO-FUSE	detected with the control PCB.	[Shutdown System]. Turn off the control PC, then turn off the main
0B36	2	PCB INKIO		power supply for the machine. Wait briefly before turning the power back
0B37	2	PCB WFIO		on.
0B39	2	PCB WFIO-FUSE		If the error appears again, contact your local distributor, our sales office, or
0B3E	2	PCB LOADCELL AD		service center.
0B48	2	PCB HDCE		
0B49	2	PCB HDCE-VHVFET		
0B4A	2	PCB HDCE-FUSE		

Error numbe r	Error level	Message	Cause	Corrective action
0B4B	2	HDCE PCB V1R2		
0B4C	2	HDCE PCB V2R5		
0B4D	2	HDCE PCB V3R3		
0B54	2	PCB INKIO-FUSE		
0D09	2	HD MEMORY	<ul> <li>A problem was detected with head internal memory access.</li> </ul>	Select [SYSTEM] > [Power] >     [Shutdown System]. Turn off the     control PC, then turn off the main     power supply for the machine. Wait     briefly before turning the power back
0D0B	2	HD CONNECT	<ul> <li>A problem was detected with the head connection.</li> </ul>	on.  2. If the error appears again, contact your local distributor, our sales office, or
0D0C	2	HD THERMIS	<ul> <li>A problem was detected with the head temperature.</li> </ul>	service center.
0D1C	2	HD BUSY	A problem was	
0D1D	2	HD CMD	detected with head control.	
C101	0	Command Format ERROR	A communication error was detected	Select [SYSTEM] > [Power] >     [Shutdown System]. Turn off the     control PC, then turn off the main
C102	0	Notify recive ERROR	between the control PC and machine.	power supply for the machine. Wait
C103	0	Respons recive ERROR		briefly before turning the power back on.  If the error appears again, contact your local distributor, our sales office, or service center.
C104	0	No Parameters		
C105	0	Invalid parameter		
C106	0	Respons set ERROR	<ul> <li>An invalid parameter was received.</li> </ul>	
C107	0	Notice Respons ERROR	A communication error was detected between the control PC and machine.	
C111	2	Print data transmission error		
C800	0	Serial number not set	The serial number has not been set.	The machine serial number has not been set. contact your local distributor, our sales office, or service center.
C801	2	Destination specification error	A problem was detected with the machine connection.	The machine configuration settings are incorrect, contact your local
C802	2	Device composition error		distributor, our sales office, or service center.
C803	2	Version mismatch	<ul> <li>A problem was detected with the version of units in the system.</li> </ul>	The version of units in the system is incorrect. contact your local distributor, our sales office, or service center.

Error numbe r	Error level	Message	Cause	Corrective action	
C998	2	System error (datasize)	An unexpected error (other than an exception) occurred.	Select [SYSTEM] > [Power] >     [Shutdown System]. Turn off the     control PC, then turn off the main     power supply for the machine. Wait     briefly before turning the power back     on.  If the error appears again, contact your     local distributor, our sales office, or     service center.	
CC10	0	Cannotexecute automatic cleaning	Auto cleaning failed.	Auto maintenance cannot be performed, or an error occurred during	
CC11	0	Cannot execute automatic flushing	Auto flushing failed.	performing maintenance. Do the following:	
				Confirm that the carriage is in the parking position.	
				Confirm that there are no ink supply system errors.	
				3. Clear all errors that have occurred.	
2222				4. If necessary, perform a machine reset.	
CC20	0	Log upload confirmation	<ul> <li>Log upload confirmation OK.</li> <li>* This alarm is for confirmation purposes.</li> </ul>	-	
B004	0	Please Perform Daily Station Maintenance	At least one day     has passed since     "Daily station     maintenance" was     last performed.	1. Perform "Daily station maintenance".  "Wiper Cleaning"(P. 159)  "Wiper Unit Cleaning"(P. 163)	
B005	0	Please Perform Head Maintenance	<ul> <li>At least one day has passed since</li> </ul>	1. Perform "Head maintenance". © "Carriage Underside Cleaning"(P. 161)	
		Wallionarioe	"Head maintenance" was last performed.	2. Clear the alarm on the touch panel. "Clearing Alarms"(P. 127)	
B006	0	Please Perform Weekly Station Maintenance	At least seven days have passed since "Weekly station maintenance" was last performed.	1. Perform "Weekly station maintenance". "Wiper Unit Cleaning"(P. 163)	
				2. Clear the alarm on the touch panel. "Clearing Alarms"(P. 127)	
D002	0	CONNECT FAILED	A communication	Select [SYSTEM] > [Power] >	
D003	0	CONNECT TIMEOUT RETRY OVER	error was detected between the PC modules.	[Shutdown System]. Turn off the control PC, then turn off the main power supply for the machine. Wait	
D004	0	SEND FAILED		briefly before turning the power back on.	
D005	0	RECEIVE FAILED		2. If the error appears again, contact your	
D006	0	RECEIVE DATA FAILED		local distributor, our sales office, or service center.	
D007	0	RECEIVE NAK DATA			
D008	0	ACK/NAK TIMEOUT RETRY OVER			
D009	0	SEND TIMEOUT			

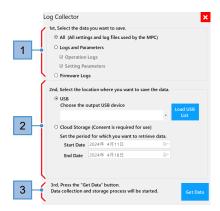
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	9

Error numbe r	Error level	Message	Cause	Corrective action
D010	0	RECEIVE TIMEOUT (Not received)		
D011	0	COMMAND UNDEFINED		
D012	0	RECEIVE TIMEOUT (Length Not achieved)		
D013	0	INITIALIZE ERROR		

# 5.3 Collecting Logs

If a problem arises with the machine, you may be requested by our service engineers or service office to collect the corresponding logs. Please follow the procedure below to collect the logs if requested.

## Log collection tool



No.	Overview
1	Select the data to be collected.  • All: Collects all log data. "All" should normally be selected.  • Logs and Parameters: Allows either "Operation Logs" or "Setting Parameters" to be selected.
2	Select a destination for saving data to.  • USB: Saves to an external hard drive.
	Choose the output USB device: Select the external hard drive to be saved to.
	<ul> <li>Load USB list: Tap if a particular external hard drive is not listed.</li> <li>Cloud Storage: Saves log data directly to Mimaki cloud storage.</li> </ul>
	<ul> <li>Set the period for which you want to retrieve data: Up to 180 days of log data can be set.</li> </ul>
3	Tap [Get Data] to start log data acquisition.

### Saving Log Data to an External Hard Drive

Save the logs to an external hard drive, and send the data to our service engineers by e-mail or other means.



- Please contact our service engineers if the log data volume is excessive.
- Connect an external hard drive to the machine (control PC).
- **?** From MENU on the touch panel, tap [SYSTEM] > [Tools] > [Manual Log collection tool].
  - The log collection tool starts up. @ P. 214
- 3 Select the data to be collected.
  - "All" should normally be selected.
- **▲** Select a destination for saving data to.
  - Select [USB], then select the external hard drive to be saved to.
- 5 Tap [Get Data].
  - Data is saved in Zip format to the external hard drive.
     Example: 20211001-0903\_Tiger600\_A1234567\_P.zip



• The log data has been encrypted and can be sent as is.

### Uploading the Logs to Cloud Storage

If the machine is connected to the Internet, you can save the logs directly to our cloud storage platform.



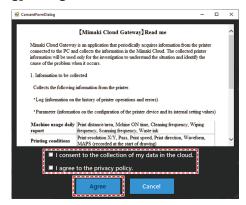
- · Contact your network administrator for more information regarding network connectivity.
- Please be careful of the size of the log data if you are using a metered Internet connection.
- **↑** From MENU on the touch panel, tap [SYSTEM] > [Tools] > [Manual Log collection tool].
  - The log collection tool starts up. 
     P. 214
- **9** Select the data to be saved.
  - · "All" should normally be selected.
- **3** Select a destination for saving data to.
  - · Select [Cloud Storage].
- **1** Set the log data collection interval.
  - If you select "Logs and Parameters", set the period specified by our service engineer.

### 5 Tap [Get Data].

- The log data is uploaded to the cloud storage platform.
- If it is the first time using this service, the [Cloud Settings] and [ConsentFormDialog] dialog boxes will appear.
  - [Cloud Settings] dialog box



- (1) Select the following check box:
  - · Allow data collection to the cloud
- (2) Set [Region] to [Global], then tap [OK].
- [ConsentFormDialog] dialog box



- (1) Check the details described, then select the following check boxes:
  - · I consent to the collection of my data in the cloud
  - · I agree to the privacy policy
- (2) Tap [Agree].
- 6 Please notify our service engineer once the upload is complete.

## **Chapter 6 Appendix**



#### This chapter

This chapter describes the machine specifications.

# 6.1 Specifications

lt	em	Specifications
Print head	Туре	On-demand piezo head
	Specifications	8 heads (2 staggered, 4 in-line array)
	Resolution	Y: 300 dpi, 600 dpi X: 600 dpi
Ink set	4-color	MLSb510: B, M, Y, K AP50: C, M, Y, K
Media	Form	Roll media only (3-inch paper core internal diameter)
	Туре	MLSb510: Decalcomania paper AP50: Roll paper for use with water-based pigment ink
	Max. printing width	1850 mm
	Max. mounting width	1900 mm
	Thickness	1 mm or less (Feed test required)
	Roll spindle	3-inch air chuck shaft
	Roll external diameter	600 mm or less
	Roll weight	300 kg or less (6.6 lb or less)
	Mounting position	Center mounting
	Printing face	Exterior
	Roll end	Taped or loosely affixed to paper core
Machine accuracy	Distance accuracy (Y)	±0.3 mm or ±0.3 % of specified distance, whichever is greater
	Distance accuracy (X)	±55 µm of intermittent feed amount or ±0.3 % of specified distance, whichever is greater
	Perpendicularity	±0.5 mm/500 mm
	Media skew	Not more than ±10 mm/2,000 m
Air pressure operation unit	Air gun	Input: 0.6 to 0.8 MPa @Dry air
Printing gap	•	2.0 mm to 4.0 mm
Origin alignment		Manual input
Ink supply	Ink capacity	2 L internal buffer tank + 10 L external supply unit
	Level detection	Weight detection (load cell)
Waste ink tank		Max. 220 mm × 350 mm × 400 mm
Purified water tank		Max. 220 mm × 350 mm × 400 mm
Drying unit		Installed underneath machine Temperature setting range: 20 to 70 °C
Interface	Data transfer function	10Gigabit Ethernet/USB3.1, USB2.0 (removable disk)
Languages		English, Japanese
Noise levels	During standby	Not exceeding 55 dB (A)
	Continuous operation	Not exceeding 68 dB (A)

It	em	Specifications
Compliance with standards		IEC 62368-1 ETL compliance, CE marking (EMC Directive, Low Voltage Directive, Machinery Directive), CB certified, RoHS, REACH, RCM marking, KC certification, UKCA marking
Power supply specifications*1		AC 3-phase 4-wire 380 to 415 V ±5 % 50/60 Hz ±1 %, max. 25 A
Power consumption		15 kW or less
Installation environment*2	Permissible ambient temperature	20 to 30 °C
	Relative humidity	35 to 65%RH (no condensation)
	Temperature range in which accuracy is guaranteed	20 to 25 °C
	Temperature gradient	Not more than ±10 °C/h
	Dust	Not more than 0.15 mg/m <sup>3</sup> (equivalent to typical office)
	Maximum operating altitude	2000 m
External dimensions*3	Width	Not exceeding 5,300 mm (not exceeding 5,850 mm)
	Depth*4	Not exceeding 2,800 mm (not exceeding 2,310 mm)
	Height	Not exceeding 1,900 mm (not exceeding 1,950 mm)
Weight <sup>*3, 5</sup>		Not exceeding 1,620 kg (not exceeding 2,300 kg)

<sup>\*1.</sup> Excluding options

<sup>\*2.</sup> Ink printing consistency will decrease in conditions outside this range.

<sup>\*3.</sup> The figures in parentheses indicate package dimensions.

<sup>\*4.</sup> Including main unit and winding unit (excluding touch panel protruding parts)

<sup>\*5.</sup> Not including weight of ink.

## 6.2 LICENSE Library

Mimaki printer Firmware

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### **Operation manual**

November, 2025

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