

CFX Series Safety Precautions

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MIMAKI ENGINEERING CO., LTD.

DISCLAIMERS

- MIMAKI ENGINEERING REJECTS ALL LIABILITY FOR DAMAGE ARISING DIRECTLY OR INDIRECTLY FROM THE USE OF THE CFX ("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.
- USE ONLY GENUINE MIMAKI ENGINEERING TOOLS AND PARTS. USE OF OTHER PRODUCTS MAY RESULT IN FAILURES OR REDUCE CUT QUALITY. SUCH INCIDENTS ARE NOT COVERED BY THE PRODUCT WARRANTY. MIMAKI ENGINEERING REJECTS ALL LIABILITY FOR DAMAGE, DIRECT OR INDIRECT, ARISING FROM SUCH INCIDENTS.

TV and Radio Interference

In use, the machine emits high-frequency electromagnetic radiation. If installed or used incorrectly, this may result in TV or radio interference. Accordingly, there is no assurance that the machine will not affect special radio or TV equipment.

If you believe the machine is interfering with radio/TV reception, turn it off to investigate. 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.
- Place TVs or radios away from the product.
- Plug TVs or radios into outlets on a different power supply path than the product.

Usage Restrictions

Usage Restrictions

The machine can be dangerous due to parts that move at high speeds and parts with high temperature. This machine is to be used only by those having complete understanding of dangers associated with these parts.

User Restrictions

Users of the machine must be properly trained. Restrict the operation of the machine to properly trained users.

Area Restrictions

- Only adequately trained and versed individuals are allowed to come closer to the equipment. Set area
 restrictions within the range shown in the following figure. As for the method of area restriction, the machine
 should be installed in a dedicated room or enclosed for everyone to understand that it is a hazardous area.
- Follow EN ISO13857 standards when securing the area with safety fence.
- When installing the setup in a dedicated room, install locks and interlocks on the door of the room, and lastly conduct risk assessment at the installation site before use.

Voluntary restraint of electromagnetic interference

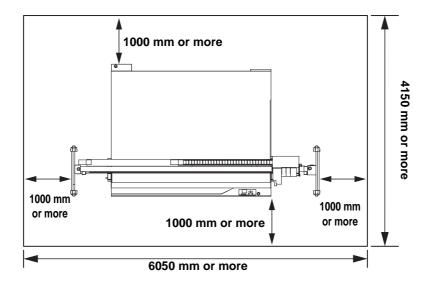
Only adequately trained and versed individuals are allowed to come closer to the equipment. Set area restrictions within the range shown in the following figure.

This product is VCCI Class A information technology equipment. Use of the machine in a residential environment may cause interference.

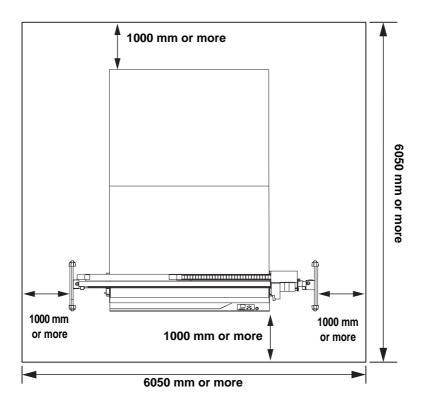
Such incidents may require the user to take appropriate measures.

VCCI-A

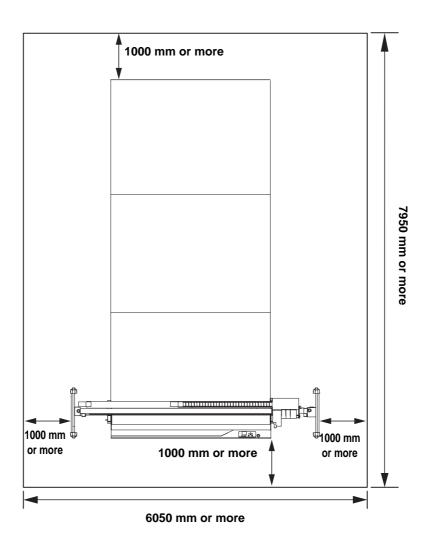
CFX-2513



CFX-2531



CFX-2550



Introduction

Thank you for purchasing a CFX Series flatbed cutting plotter.

This manual describes the CFX Series.

Read this manual carefully and make sure you understand it before use. Keep the manual in a convenient place for reference as needed.

About This Operation Manual

- This manual describes the operation, maintenance, and other handling of CFX Series flatbed cutting plotters ("the machine").
- Read this manual carefully and make sure you understand it before use. Keep the manual in a convenient place for reference as needed.
- Ensure that the manual reaches the person using the machine.
- Although every effort has been made to ensure the accuracy of the information in this manual, if you find any issues, contact our service office.
- This manual is subject to change without notice for improvement.
- You can also download the latest manual from our website.



• The machine uses sharp blades. It can be very hazardous during operation. Never put your hands or head near the machine head. There is a risk of injury.

Unit abbreviations

The following abbreviations may appear in titles and elsewhere in the manual.

No.	Abbreviation	Name
(1)	TUT-15	Tangential unit
(2)	TUT-30	High-pressure tangential unit
(3)	R10	Router unit

Accessories

Confirm that all accessories have been included. (P.8-3)

If any accessories are missing or damaged, contact a dealer or our sales office.

Symbols

In this manual, symbols indicate and explain precautions. The indicated symbol varies depending on the nature of the precaution. Make sure you understand the meaning of each symbol and use the machine safely and correctly.

Examples of symbols

	Explanation
Warning	Failure to observe the instructions given with the [Warning] symbol may result in death or serious injuries to personnel. Be sure to read the precaution carefully and use the machine correctly.
Caution	Failure to observe the instructions given with the [Caution] symbol may result in injury to personnel or damage to property.
(Important!)	Important notes regarding use of the machine are given with the [Important] symbol. Use as reference information.
(Hint!)	Useful information is given with the [Tip] symbol. Use as reference information.
	Indicates the corresponding page for related information.
<u>A</u>	The \(\sum_{\text{symbol}}\) symbol indicates precautions (including danger and warning items) that must be followed. Specific precautions are shown in the figure, as in the warning of electric shock shown at left.
	The Symbol indicates prohibited actions. Specifically prohibited actions are shown in or near the figure, as in the prohibition of disassembly shown at left.
B -\$	The symbol indicates actions that must be taken or instructions that must be followed. Specific instruction are shown in the figure, as in holding cords by the plug when unplugging them, shown at left.

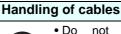
\wedge

Warning

Do not disassemble or modify

Never disassemble or heart.

 Never disassemble or modify plotter main unit or vacuum unit. Disassembling or modifying will result either in electric shock or malfunction of this machine.



 Do not attempt to modify power or communication cables, and avoid damaging or breaking them. Placing heavy objects on, heating, or pulling the cable may damage it, which may result in fire or electric shock.

4

Do not use in humid environments



Do not use in humid environments, and do not splash water on the equipment.

Failure to change these instructions may result.

Failure to observe these instructions may result in fire, electric shock, or failure.

Handling of tools



 Store cutter holders and blades out of the reach of children. Do not place cutter holders or blades on the tray by the operating panel.

When a problem occurs



• Use of the machine under an abnormal condition, as when it is emitting smoke or fumes, may result in fire or electric shock. Turn off the power switch immediately, and then be sure to unplug the machine from the outlet. Once you have confirmed that smoke is no longer being emitted, request repair from your dealer or service office. Never attempt to repair the machine yourself, which is hazardous.

Power supply and voltage



• The machine contains parts that generate high voltage. Electrical work by individuals other than licensed electricians is prohibited.



 To prevent electric shocks during maintenance, always turn the main power switch off, and remove the power plug. Capacitors of some units may take one minute to discharge. Before maintenance, always wait 3 minutes after turning off the main power supply switch and disconnecting the power inlet.

Entrust maintenance to service engineers



 In the event of failure, entrust maintenance work to service engineers. Never perform maintenance work by yourself, which poses risks including electric shock.



 Always ground the machine to prevent electric shock, because there is significant leakage current.



 Use a power supply that meets the power supply specifications. Always plug the power cable into a grounded socket. Failure to observe these instructions may result in fire or electric shock



 The task of turning on the main power supply switch of the machine should be performed only by personnel who are thoroughly familiarity with using the machine.

Handling of the power cable



• Use the power cable provided.

 Do not attempt to modify the cable, and avoid damaging or breaking it. Placing heavy objects on, heating, or pulling the cable may damage it, which may result in fire or electric shock.

Grounding work



- The machine must be grounded to protect against electric shock.
- Ground in accordance with Class C grounding work, formerly Type 3 grounding work.

Preventive measures against dust



 When handling dust-producing substance that pose health hazards, wear a mask or take other protective measures.

Handling of grease



- If grease enters a user's eyes, wash with clean water for 15 minutes and seek medical attention.
- If grease gets on skin or clothing, wipe it off well and wash thoroughly with water and soap.
- If you feel ill after inhaling a large amount of vapor, go to a place with fresh air, rest under a blanket or the like to stay warm, and seek medical attention.
- If grease is accidentally ingested, seek medical attention immediately without inducing vomiting.
- In case of fire involving grease, initially use extinguishing agents such as powder, carbon dioxide, or dry sand. For large fires, use foam extinguishers to block out air around the fire. Evacuate people not involved in firefighting to a safe place.
- Do not use water to extinguish grease fires, because this is hazardous and may cause the fire to spread.
- Wear protective equipment when fighting fires. Fight fires from upwind.

Safety measures

Take the following safety measures when working with flammable materials.

- Before working with these materials, make sure that wood chips or other remains are removed.
- Do not leave the machine unattended while it is in use.
- Keep a fire extinguisher nearby.
- Keep flammable materials away from the machine.

Marning

Machine disposal



- Request an industrial waste disposal company to dispose of the machine.
- Dispose of in accordance with local regulations.

Other usage precautions



• Keep children away from this machine.

For safe operation

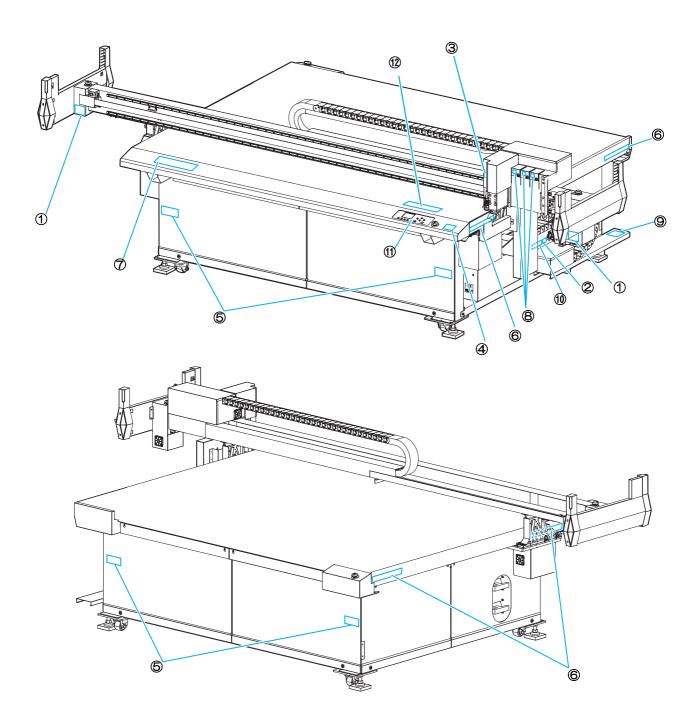
<u> Caution</u>			
Do not	place heavy objects on cables	Wait 30 seconds before restoring power	
\Diamond	Do not use force to bend the power or communication cable, and do not place heavy objects on them. Failure to observe these instructions may break the cables, cause electric shock, generate heat, or cause fires.	0	Wait 30 seconds before turning the machine on again after it is turned off. Failure to observe these instructions may result in malfunctioning.
Do not	sit on the main unit	Keep your face away from the cutting panel during use	
\Diamond	Do not sit on the main unit. This may lead to failure.	\Diamond	 Keep your face and hands away from the cutting panel during cutting or drawing. Failure to observe this precaution poses a risk of injury from the cutter.
Do not work while wearing baggy clothing or jewelry		Contact N	Mimaki before moving the plotter to another location
\bigcirc	 Do not wear baggy clothes or fashion accessories while working. Keep long hair bound. 	0	 Plotters are precision instruments. Contact Mimaki in advance if you will move the plotter to another location.

For safe installation

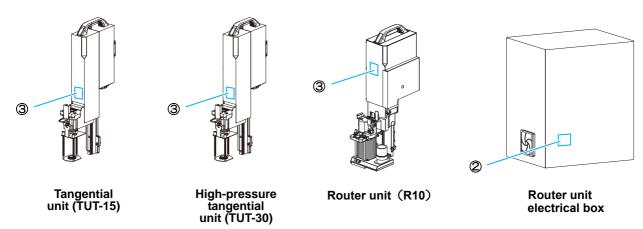
<u>∕</u> Caution			
Exposed to direct sunlight	Where vibration occurs		
Do not install where direct sunlight or the like will cause the cutting panel surface temperature to exceed 60°C. Failure to observe this precaution may result in deformation of the cutting panel or failure.	Normal results cannot be obtained where vibration occurs.		
Exposed to significant changes in temperature or humidity	Dusty, dirty, or smoky environments		
 Use the machine under the following environmental conditions: Operating environment: 10° to 35°C, 35% to 75% (RH) 	Plotters are precision instruments. Do not use in areas filled with dust or dirt.		
Exposed to direct air flow from an air conditioner or similar location	Near flammable materials		
Cutting quality may be adversely affected.	Do not place flammable materials near the vacuum or in front of the exhaust area, because exhaust air becomes very hot when the vacuum is used.		
Places with uneven surfaces	Places with open flame		
Normal results cannot be obtained unless the plotter is level. Failure to observe these instructions may also result in failure.	Do not place vases, pot plants, cups, cosmetics, containers of chemicals or water, or small metal objects on top of this machine. There is a risk of failure, electric shock, or fire if liquids or items drop inside the machine.		

Warning labels have been applied to the machine. Make sure you fully understand the details indicated on the various warning labels.

If a warning label is illegible due to stains or has come off, purchase a new one from a dealer or our service office.



Optional accessories



No.	Order code	Label	Details
1	M902667	CAUTION ATTENTION ACHTUNG	PL label Be careful around moving parts. Failure to observe these instructions may result in injury.
2	M907935	4	Hazardous high voltage inside.
3	M905694	WARNING WE'S AVERTISSEMENT WARNUNG	Be careful around the blade.
4	M915343	A 注意 A CAUTION A ATTENTION 取り付けたシールが、本体お よびアブリケーションで選定 する他一型にいること The attached tools must be consistent with those specified in the machine and applications. Les outils fixed dolvent error en ocherence aveo oaxe specified aur la machine et les spelications. MOISSAI MOISSAI A 注意 (CAUTION A TIENTION ATTENTION V ールの取り付け注意 A demicro the tool mounting vialinate for faut montage de foutil the proven la rainfure MOISSAI MOISSAI A 注意 A 注意 A 注意 A CAUTION A TIENTION V ールの取り付け注意 A demicro the tool mounting vialinate for faut montage de foutil the proven la rainfure la rainfure MOISSAI MOISSAI MOISSAI A TIENTION V ールの取り付け注意 A demicro the tool mounting vialinate for faut montage de foutil the proven la rainfure l	Advises caution regarding tool installation.
5	M909381	本籍告	Keep fingers and body away from moving parts to avoid injury.
6	M906115	本警告 本際告 本WARNING AWARSCHUMING AVERTISSEMENT 手指和身体请勿難近這 鬼残之可能的	Keep fingers and body away from moving parts to avoid injury.
7	M902663	(人) ド語語中ウリモートモードのときは、手や題を HAZARDOUS MOVING PARTS AWAY KEEP FINGERS AND OTHER BODY PARTS AWAY KEEP FINGERS AND OTHER BODY PARTS AWAY MAYER MAYE	Keep fingers and face away from the machine when the head is moving and when the machine is in remote mode, to avoid injury.
8	M918910		Attach the cover if an optional unit is not used.

9	M909385		Prohibits putting feet on the indicated place.
10	M905624	本警告	Be sure to ground the machine, in consideration of the high leakage current.
11	M918881		Standby label
12 ^{*1}	M915322	可能性の科性を加工する際は、以下の定体対象としてださい。 中間性の科性を加工する際は、以下の定体対象としてださい。 中間性の神性を加工する際は、以下の定体対象としてださい。 中間性の神性を加工する際は、以下の定体対象としてださい。 中間にの神性を加工する際は、以下の定体対象としてださい。 中間にの神性を加工する際は、以下の定体対象としてださい。 中間にの神性を加工する際は、以下の定体対象としてださい。 中間にの神性を加工する際は、対象となった。 中間にの神性を加工する際は、対象となった。 中間にの神性を加工する際は、対象となった。 中間にの神性を加工する際は、対象となった。 中間にの神性を加工する際は、対象となった。 中間にの神性を加工する際は、対象を対象を対象を対象を対象を対象を対象を対象を対象を対象を対象を対象を対象を対	Warns about taking the appropriate safety measures when processing flammable materials.

^{*1.} Included with purchase of R10 option.

