

DTRX001 Professional Use

Powder Shaker Safety Manual



Please be sure to read this manual before using this product.
Keep this manual in a safe place for future use.

Thank you very much for purchasing this product.
Before using the product, please read the "SAFETY INSTRUCTIONS" and handling instructions carefully.
Please keep this manual within easy reach for quick reference.
For details of the setup manual, please refer to the mobile application at the QR code link below.

- The Brother GT/ISM Support App is a mobile app that provides up-to-date support information on garment printers, industrial sewing machines, and industrial printers. When selecting the product, choose it from [Industrial Printer] > [Wide Format].
 - With this application, you can download and view the Setup Guide, the Instruction Manual, other manuals, a list of parts (the Parts Book) required for regular care and repairs, and a video on maintaining your equipment.
 - Search by Error code.
 - Downloaded contents can be seen offline.



SAFETY INSTRUCTIONS

1. Safety indications and their meanings

This instruction manual and the indications and symbols that are used on the machine itself are provided in order to ensure safe operation of this machine and to prevent accidents and injury to yourself or other people. The meanings of these indications and symbols are given below.

Indications

DANGER	The instructions which follow this term indicate situations where failure to follow the instructions will result in death or serious injury.
WARNING	The instructions which follow this term indicate situations where failure to follow the instructions could result in death or serious injury.
CAUTION	The instructions which follow this term indicate situations where failure to follow the instructions may result in minor or moderate injury.
IMPORTANT	The instructions which follow this term indicate situations where failure to follow the instructions may result in damage to property.
NOTE	The instructions which follow this term indicate precautions and restrictions for use.

Symbols

	This symbol indicates something that you must not do.		This symbol indicates something that you must do.
	This symbol indicates something you must not allow to come into contact with liquids.		This symbol indicates you must make a ground connection.
	This symbol indicates something you must not disassemble.		This symbol indicates you must unplug the power cord immediately.
	This symbol indicates parts or components that must not be touched.		

2. Notes on safety

Basic information

DANGER	
	Contact with high-voltage parts may lead to a serious injury. Turn off the power, disconnect the power cord, and remove power supply's protective cover after waiting 5 minutes.
WARNING	
	The machine should only be used by operators who are appropriately trained in its safe operation.
	The machine is not suitable for use in places where children are present.
	To prevent accidents and problems, do not modify the machine yourself. Brother will not be held responsible for any accidents or problems resulting from modifications made to the machine.
	Do not handle the power cord with wet hands. Otherwise, it may cause electric shock.
	Do not allow the machine to come into contact with liquids. Otherwise, it may cause fire or electric shocks or malfunction.
	Do not place containers containing liquids on top of this machine.
	In the following circumstances, Immediately turn off the power, disconnect the power cord, and contact the place of purchase or a qualified technician: <ul style="list-style-type: none"> • If foreign matter or liquid has entered the interior of the machine • If the machine has been dropped • If smoke is coming from the machine or an unusual odor is detected If you continue to use the machine while there is a foreign object inside, it may result in fire or electric shocks or malfunction.
CAUTION	
	When malfunction occurs with the operation of the machine, contact your dealer or a qualified technician.
	Use the machine in a place which is adequately ventilated. A slight odor is generated when the media and powder are being fixed by heat.

Unpacking, transport, and installation

WARNING	
	Unpacking, transporting, and installing this machine must be performed only by a qualified technician.
	Do not set up the machine in a dusty environment. If dust collects inside the machine, it may cause fire or electric shocks or problems with correct operation.
	When lifting this machine with a forklift or similar equipment, lift it horizontally so that it does not tilt. Failure to do so may result in injury due to the machine falling or product malfunction.
	When lifting the machine from packaging materials such as its pallet or when moving it, clear the area around your feet and ensure safety before starting work. Failure to do so may result in injury due to tipping or dropping of the machine, or product malfunction.
	Be sure to connect the ground. Failure to do so may cause electric shock or malfunction.
	Do not forcibly bend or crush the cord. Doing so may cause fire or electric shock.
CAUTION	
	The machine weighs 400 kg (882 lb). When transporting or installing the machine, follow the correct holding method for the machine. Failure to do so may result in injury due to the machine falling or product malfunction.
	Do not place the machine on a shaky table or high shelf or other unstable location. Failure to do so may result in injury due to tipping or dropping of the machine, or product malfunction.
	Do not set up the machine in a place where it will be affected by vibration. This may cause deterioration in print quality, injury due to machine movement, or product malfunction.
	Do not connect the power cord until installation is complete. The machine may operate if the power is turned on by mistake, which could result in injury.
	Do not climb onto the machine or place heavy objects on top of it. Doing so may cause injury due to tipping or falling.
IMPORTANT	
	The lower part of the machine is equipped with four casters with stoppers. During installation, secure the machine using the stoppers.

Operation

WARNING	
	Do not bring fingers or body parts close to rotating fans or rollers. Doing so may result in entanglement and injury.
	When opening the upper heater oven cover for media installation or replacement, ensure that the heater and the media do not come into contact. Heat from the heater may deform or melt the media, causing fire or malfunction.
	The inside of the oven reaches temperatures exceeding 100°C (212°F) during operation. When opening the heater oven cover for media replacement, turn off the power and confirm that the temperature has decreased before opening. Failure to do so may result in burns.
CAUTION	
	Do not touch the media during operation. Doing so may result in injury such as fingers being caught.
	Do not put your hands inside the covers while the machine's power is turned on. Otherwise your hands may touch against moving parts and this may result in injury.
	Powder will scatter during powder loading. Wear vinyl gloves, a mask, and protective goggles and ensure sufficient ventilation during work.
	When opening the heater oven cover for media installation or replacement, do not touch the heater. Heat from the heater may cause burns.
	When installing or replacing media, be careful not to bump, rub, or pinch your hands or fingers. Failure to do so may cause injury.

Maintenance

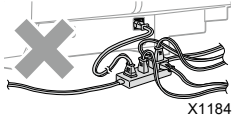
WARNING	
	When opening the machine's heater oven cover, turn off the power and confirm that the temperature has decreased before opening. Failure to do so may result in burns.
	When replacing heater tubes, turn off the power and confirm that the temperature has decreased before replacement. Failure to do so may result in burns or malfunction.
CAUTION	
	When closing the machine's covers, be careful not to pinch your fingers. Failure to do so may cause injury.
	Do not ingest liquids or grease accumulated in the waste liquid tray or filters. They may cause diarrhea or vomiting. Keep out of reach of children.
	Liquids accumulated in the waste liquid tray or filters, ink printed on media, powder, and grease may cause irritation if they come into contact with eyes or skin. In case of contact with eyes, do not rub but immediately rinse the eyes with water.
	Follow the corresponding instructions in the manual when you put your hands inside the cover during regular maintenance while the power is turned on.
	When replacing parts and installing optional accessories, be sure to use only genuine Brother parts. Brother will not be held responsible for any accidents or malfunction resulting from the use of non-genuine parts.
	When replacing or cleaning parts or installing optional accessories, be sure to follow the procedures described in the Instruction Manual. Incorrect procedures could cause injuries or problems.

Others

NOTE	
	Use the machine in an area which is free from sources of strong electrical noise such as electrical line noise or static electric noise. Sources of strong electrical noise may cause problems with correct operation.
	Any fluctuations in the power supply voltage should be within ±10% of the rated voltage for the machine. Voltage fluctuations which are greater than this may cause problems with correct operation.
	The power supply capacity should be greater than the requirements for the machine's power consumption. Insufficient power supply capacity may cause problems with correct operation.
	In the event of an electrical storm, turn off the power and disconnect the power cord from the wall outlet. Lightning may cause problems with correct operation.

1 Checking the installation site

- Leave at least 39.4 in. (100 cm) of working space on the left side, right side, rear, and above the shaker.
- Do not use extension cables or daisy-chain power connections.
- Install the shaker on a floor that is as flat and level as possible to prevent wobbling.



- Use the machine under the following environmental conditions.

Environment	Temperature	Humidity
Storage	0°C to 40°C (32°F to 104°F)	20 % to 85 % (no condensation)
Working Environment *1	18°C to 30°C (64°F to 86°F)	
Recommended Print Environment *2	20°C to 28°C (68°F to 82°F)	35 % to 65 % (no condensation)

Electrical requirements	Power	Power consumptions
—	Single-phase 200 - 240 V, 16/20 A 50 / 60 Hz	3840 / 4000 W

*1: Environmental range where the printer can be operated.

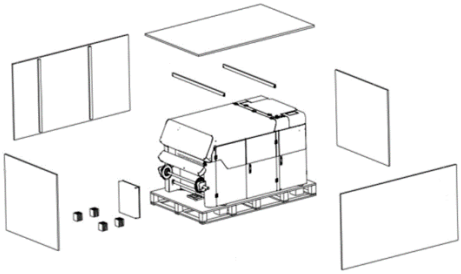
*2: Environmental range where sufficient printing quality can be secured.

2 Unpacking

When performing unpacking work, always wear work gloves to prevent injury.

CAUTION

The machine weighs 400 kg (882 lb). Unpacking work must be performed by two or more people. Failure to do so may result in injury due to the machine falling or product malfunction.



IMPORTANT

Do not turn on the power until unpacking, transport, and installation are complete. Failure to do so may result in product malfunction.

1. Remove the bands securing the wooden crate, metal fittings at corners, hex bolts, and metal fittings connecting the left and right sides inside the crate. Then remove the top lid and side wooden frames.

2. Remove the packing materials and take out the included accessories.

CAUTION

Remove the removed wooden frames and metal fittings from the unpacking work area. There is a risk of injury if wooden frames or metal fittings are stepped on during unpacking.

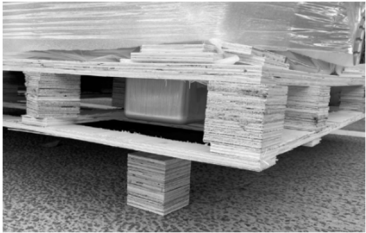
3 Transporting the machine

1.



Using a forklift (hand lift), raise the machine along with its pallet in a horizontal orientation approximately 5.9 in. (15 cm) above the ground.

2.



Since the four casters are embedded in the pallet while stored in metal containers, place the included wooden blocks directly beneath the four metal containers.

3.



Slowly lower the forklift forks and place the pallet on the ground. At this time, because of the wooden blocks, the machine will remain lifted above the pallet together with the metal containers.

4.

Insert the forklift (hand lift) forks into the gap between the top of the pallet and the bottom of the machine, lift the machine horizontally, remove the four metal containers housing the casters, and lower the machine onto a floor surface on which the casters will be able to roll.

WARNING

When lifting the machine with the forklift (hand lift), lift it horizontally so that it does not tilt. Failure to do so may result in injury due to the machine falling or product malfunction.

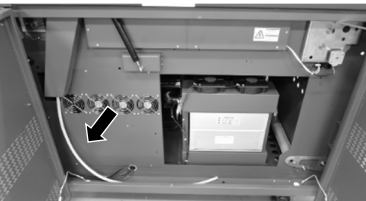
The machine weighs 400 kg (882 lb). Do not attempt to lift it manually with multiple people. When moving or installing the machine by rolling it on its casters, always perform the work with two or more people.

If there are steps or ramps on the floor, do not attempt to cross them forcibly; instead, lift and transport the machine using a forklift (hand lift). Failure to do so may result in injury due to falling or tipping, or product malfunction.

4 Mounting the supplied accessories

Mount the supplied accessories according to the following procedures.

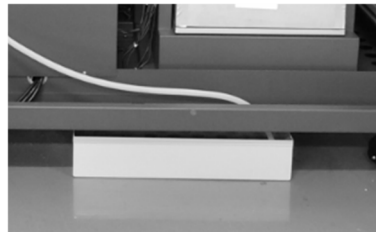
1.



Open the side cover on the filter side and pass the waste liquid drain tube (white) through the hole at the bottom so that it runs to the floor.

IMPORTANT Be careful not to bend the waste liquid drain tube. Otherwise, waste liquid may not flow smoothly.

2.



Place the waste liquid tray on the floor beneath the drain tube outlet.

IMPORTANT Position it so that waste liquid dripping from the end of the drain tube collects inside the tray and does not soil the floor.

5 Turning on the power

As shipped from the factory, the power cable terminates in three exposed wires. Connect a power plug suitable for the power outlet shape at the installation location. The black cable is labeled "L"; the white cable, "N"; and the green and yellow cable, "PE." Depending on the region, these correspond to L1 (L), L2 (N), and N (PE).

WARNING

Connection of the power plug must be performed by a qualified person or someone with sufficient knowledge. Regarding requirements governing electrical work qualifications, follow the laws and regulations of the country in which the machine is being installed. Incorrect wiring may cause electric shock, fire, or product malfunction.

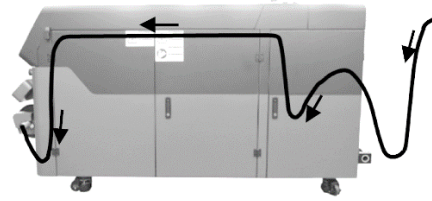
Be sure to connect the ground. Failure to do so may cause electric shock or malfunction.

When securing the cable, do not forcibly bend or crush it.

Doing so may cause fire or electric shock.

Do not handle the power cord with wet hands. Otherwise, it may cause electric shock.

6 Loading media



Feed the media from the printer side along the transport path and secure with tape to the take-up roll at the rear of the machine so that the printed surface of the media is wound inward.

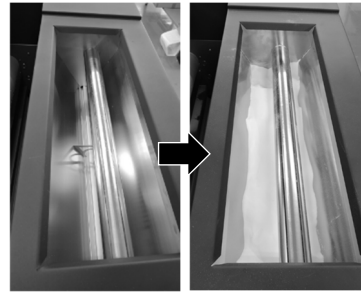
CAUTION

When loading media, be careful not to bump, rub, or pinch your hands or fingers. Failure to do so may cause injury.

When opening the heater oven cover for media installation or replacement, and after closing the cover, ensure that the heater and the media do not come into contact.

Heat from the heater may deform or melt the media, causing smoke, abnormal odors, fire, or malfunction.

7 Loading powder



Open the transparent powder box cover on the top surface and load powder into the powder box. Spread the powder evenly in the width direction inside the powder box to make the powder height uniform.

CAUTION

Powder will scatter during loading. Wear vinyl gloves, a mask, and protective goggles and ensure sufficient ventilation during work.

Maintenance list

To maintain the printing quality and use the shaker for a longer time, the following maintenance is needed. For details, refer to the Instruction Manual.

Maintenance timing	Description	Error / Warning display
Before starting operation	Check the powder level and replenish *1.	—
Daily	Check the amount of powder accumulated in the powder collection tray and return the powder to the powder box for reuse *1.	—
	Clean powder and waste liquid scattered around the machine *1,*2.	—
Weekly	Check and dispose of the amount of waste liquid accumulated in the waste liquid tray *2.	—
	Check waste liquid contamination of the filter section *2.	—
	Open the heater oven cover and clean waste liquid adhering around the cover *2,*3. Open the heater oven cover and clean the heater tubes and stainless steel parts *3,*4.	—
Monthly	If the powder is contaminated or has formed clumps and is no longer in powder form, empty the powder and clean and replace it *1.	—
Every 3 to 6 months	Replace the activated carbon filter and HEPA filter. If contamination is severe, replace them at shorter intervals as necessary *2.	—

*1:

CAUTION

Powder will scatter during loading and cleaning. Wear vinyl gloves, a mask, and protective goggles and ensure sufficient ventilation.

*2:

CAUTION

Liquids accumulated in the waste liquid tray or filters may cause irritation if they come into contact with eyes or skin. During cleaning or filter replacement work, wear protective gloves, a mask, and protective goggles. If material enters the eyes, do not rub and immediately rinse with water.

*3:

WARNING

When opening the machine's heater oven cover, turn off the power and confirm that the temperature has decreased before opening. Failure to do so may result in burns.

*4:

CAUTION

Because the heater tubes are made of glass, handle them with care during cleaning. Failure to do so may result in injury or malfunction.

*Please note that the contents of this manual may differ slightly from the actual product purchased as a result of product improvements.

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