

CAMM-3

Modeling Machine by Roland DG Corporation

PNC-3200

Protective Cover

USER'S MANUAL

Thank you very much for purchasing the PNC-3200 Protective Cover.

- To ensure correct and safe usage with a full understanding of this product's performance, please be sure to read through this manual completely and store it in a safe location.
- Unauthorized copying or transferral, in whole or in part, of this manual is prohibited.
- The contents of this operation manual and the specifications of this product are subject to change without notice.
- The operation manual and the product have been prepared and tested as much as possible. If you find any misprint or error, please inform us.



ROLAND DG CORPORATION

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MODEL NAME : See the MODEL given on the rating plate.

RELEVANT DIRECTIVE : **EC MACHINERY DIRECTIVE (98/37/EC)**

EC LOW VOLTAGE DIRECTIVE (73/23/EEC)

EC ELECTROMAGNETIC COMPATIBILITY DIRECTIVE (89/336/EEC)

WARNING



This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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To Ensure Safe Use

About ⚠ WARNING and ⚠ CAUTION Notices

 WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
 CAUTION	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

About the Symbols

	The ⚠ symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. The symbol at left means "danger of electrocution."
	The ⚡ symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. The symbol at left means the unit must never be disassembled.
	The ● symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. The symbol at left means the power-cord plug must be unplugged from the outlet.

⚠ WARNING



Do not disassemble, repair, or modify.

Doing so may lead to fire or abnormal operation resulting in injury.



Do not use with any electrical power supply that does not meet the ratings displayed on the unit.

Use with any other power supply may lead to fire or electrocution.



Ground the unit with the ground wire.

Failure to do so may result in risk of electrical shock in the even of a mechanical problem



Do not use while in an abnormal state (i.e., emitting smoke, burning odor, unusual noise, or the like).

Doing so may result in fire or electrical shock.

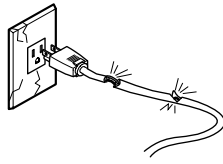
Immediately switch off the power, unplug the power cord from the electrical outlet, and contact your authorized Roland DG Corp. dealer or service center.

CAUTION



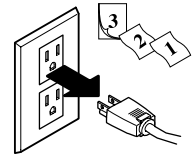
Do not use with a damaged power cord or plug, or with a loose electrical outlet.

Use with any other power supply may lead to fire or electrocution.



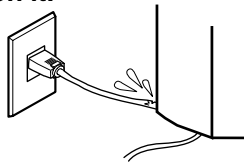
When not in use for extended periods, unplug the power cord from the electrical outlet.

Failure to do so may result in danger of shock, electrocution, or fire due to deterioration of the electrical insulation.



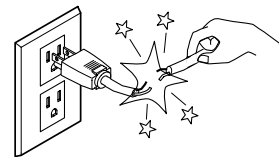
Do not injure or modify the electrical power cord, nor subject it to excessive bends, twists, pulls, binding, or pinching, nor place any object of weight on it.

Doing so may damage the electrical power cord, leading to electrocution or fire.



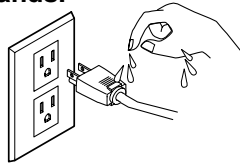
When unplugging the electrical power cord from the power outlet, grasp the plug, not the cord.

Unplugging by pulling the cord may damage it, leading to fire or electrocution.



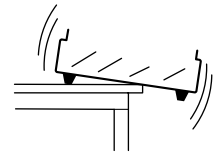
Do not attempt to unplug the power cord with wet hands.

Doing so may result in electrical shock.



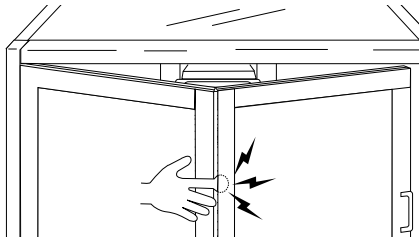
Install on a stable surface.

Failure to do so may result in falling of the unit, leading to injury.



When closing the door take care not to catch your fingers in it.

Always use the provided handles to open and close the door.



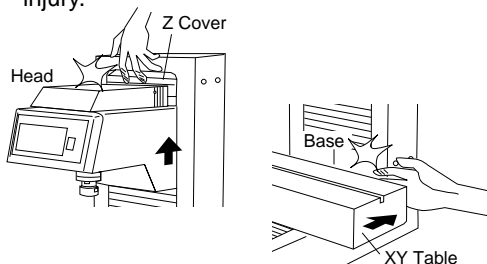
Do not use the protective cover if it is cracked.

If you find a crack, contact your authorized Roland DG Corp. dealer or service center immediately.



Do not insert the fingers between the XY table and base or between the head and Z cover.

The fingers may be pinched, resulting in injury.



CAUTION



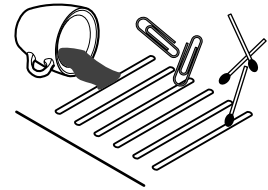
Do not touch the tip of the blade with your fingers.

Doing so may result in injury.



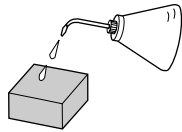
Do not allow liquids, metal objects or flammables inside the machine.

Such materials can cause fire.



Perform dry cutting with no cutting oil.

Such materials can cause fire.



Do not touch the tool immediately after cutting operating stops.

The tool may have become hot due to friction heat and may cause burns if touched.



When cleaning, set the power switch on the unit to OFF.

Failure to do so may result in injury or electrical shock.



Please use a vacuum cleaner to remove cutting dust.

Do not use any blower like airbrush. Otherwise, dust spread in the air may harm your health.



When you're finished, wash your hands to rinse away all cuttings.

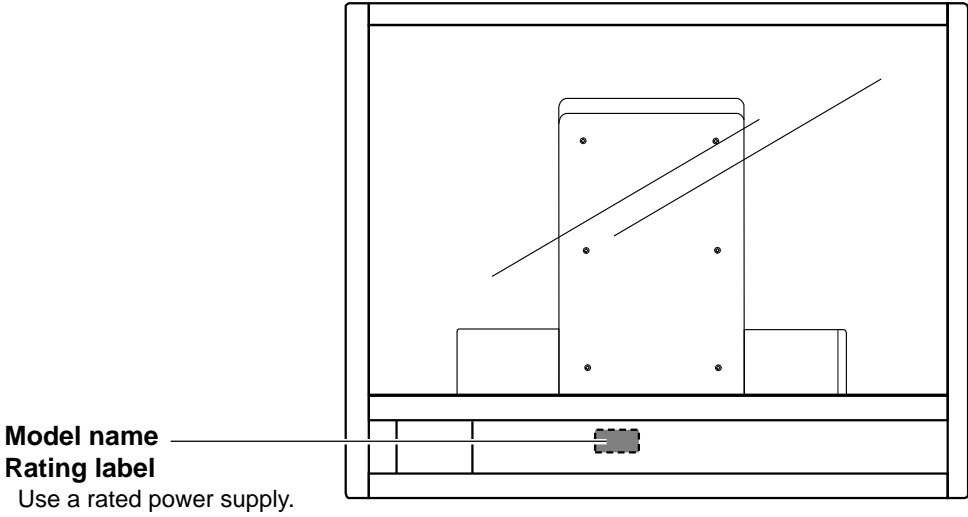
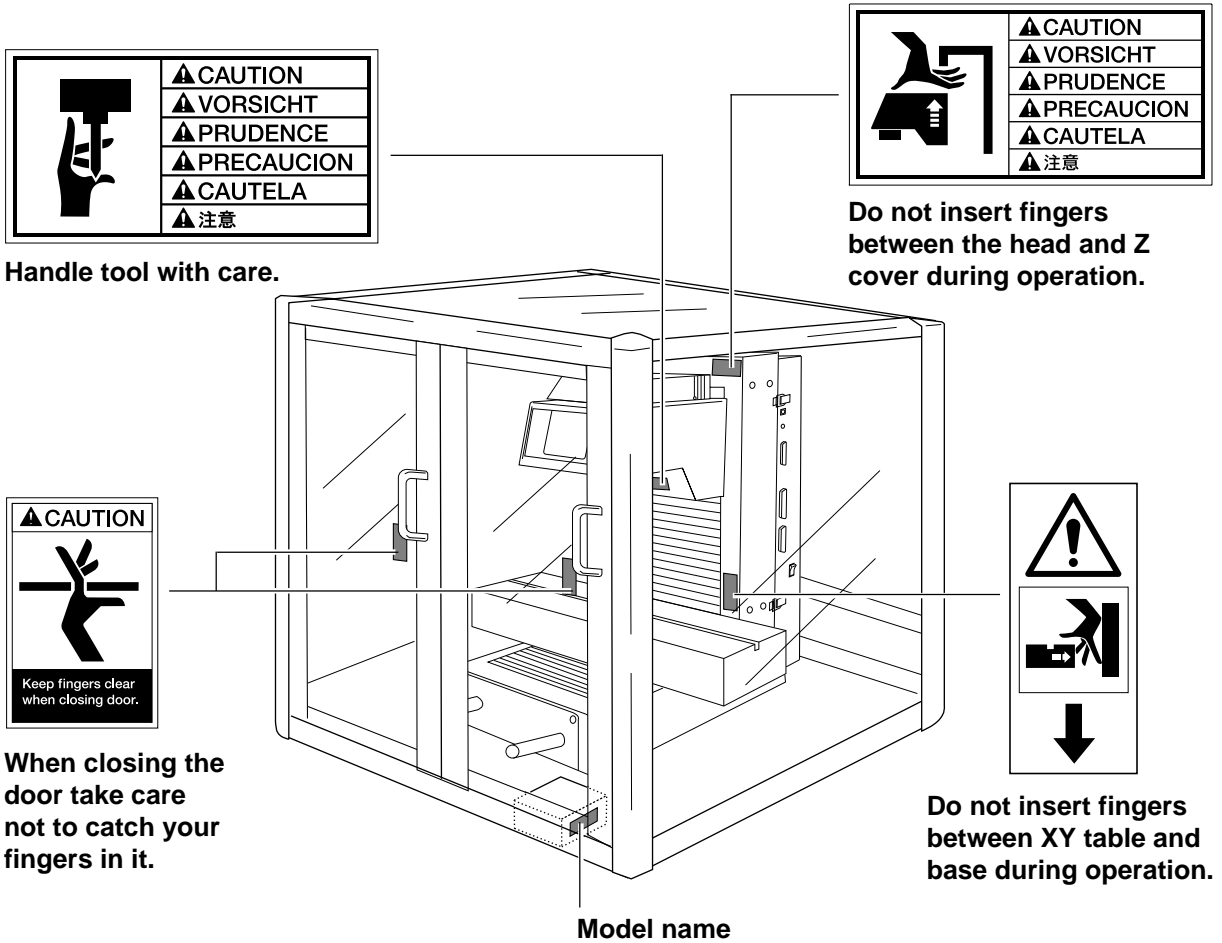


If the machine is still in operation when you open the protective cover, wait until operation stops.

Doing so may result in injury.

About the Labels Affixed to the Unit

These labels are affixed to the body of this product.
The following figure describes the location and content of these messages.



In addition to the **▲ WARNING** and **▲ CAUTION** symbols, the symbols shown below are also used.

NOTICE : Indicates information to prevent machine breakdown or malfunction and ensure correct use.

: Indicates a handy tip or advice regarding use.

How to Read This Manual

This manual is organized in the following format. Please use it in the way that best matches your needs.

This User's Manual lists information relating to the protective cover, along with precautions to assure safety when using the PNC-3200 with the protective cover.

NOTICE Fasten the tool and material securely in place. Failure to do so may lead to faulty operation or breakdown.

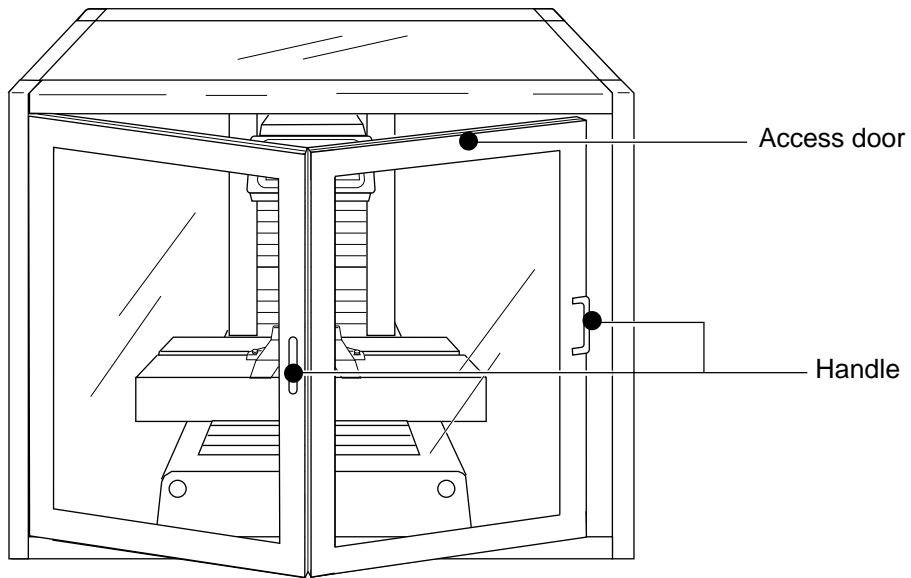
Do not place a load of 8 kg (17.6 lb.) or more (combined weight of the workpiece and vise) on the XY table. Doing so may lead to faulty operation or breakdown.

Do not operate beyond capacity or subject the tool to undue force. Doing so may lead to faulty operation or breakdown.

If the PNC-3200 is installed with a protective cover, please be aware that the following restrictions apply.

- A brush adapter for chip cleaning (ZAD-10/ZAD-20) cannot be used.
 - The cover at the rear of the PNC-3200 cannot be opened and closed, and the interior of the machine cannot be cleaned.
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1 Names of Parts



2 Setting Up and Connection

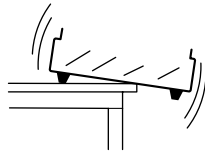
Setting Up

CAUTION



Install on a stable surface.

Failure to do so may result in falling of the unit, leading to injury.



NOTICE

Use within a temperature range of 5 to 40°C (41 to 104°F) and within a humidity range of 35 to 80%.

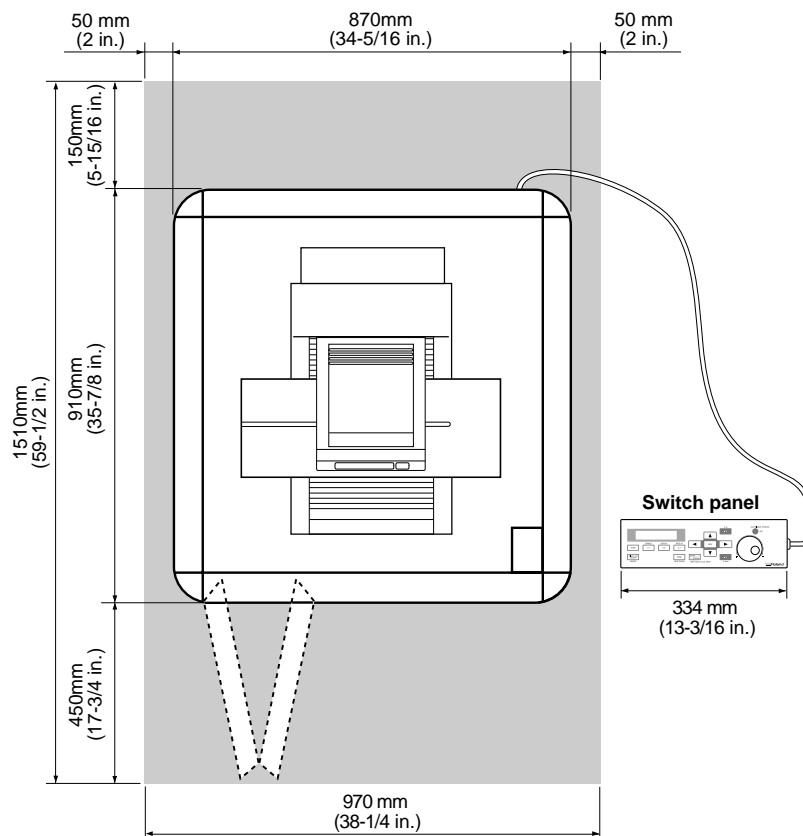
Do not place any object except tools or workpiece materials inside the protective cover. Doing so may not only obstruct operation, it may result in machine breakdown.

Do not place any objects on the main unit's head or protective cover.

To prevent accidents, do not install in any of the following types of areas.

- Avoid use in areas subject to strong electric noise.
- Avoid use in areas subject to high humidity or dust.
- The PNC-3200 generates heat when used, and should not be installed in an area with poor heat radiation characteristics.
- Do not install in an area subject to strong vibration.

Installation requires the following access space.



Connection

WARNING



Ground the unit with the ground wire.

Failure to do so may result in risk of electrical shock in the even of a mechanical problem



Do not use with any electrical power supply that does not meet the ratings displayed on the unit.

Use with any other power supply may lead to fire or electrocution.

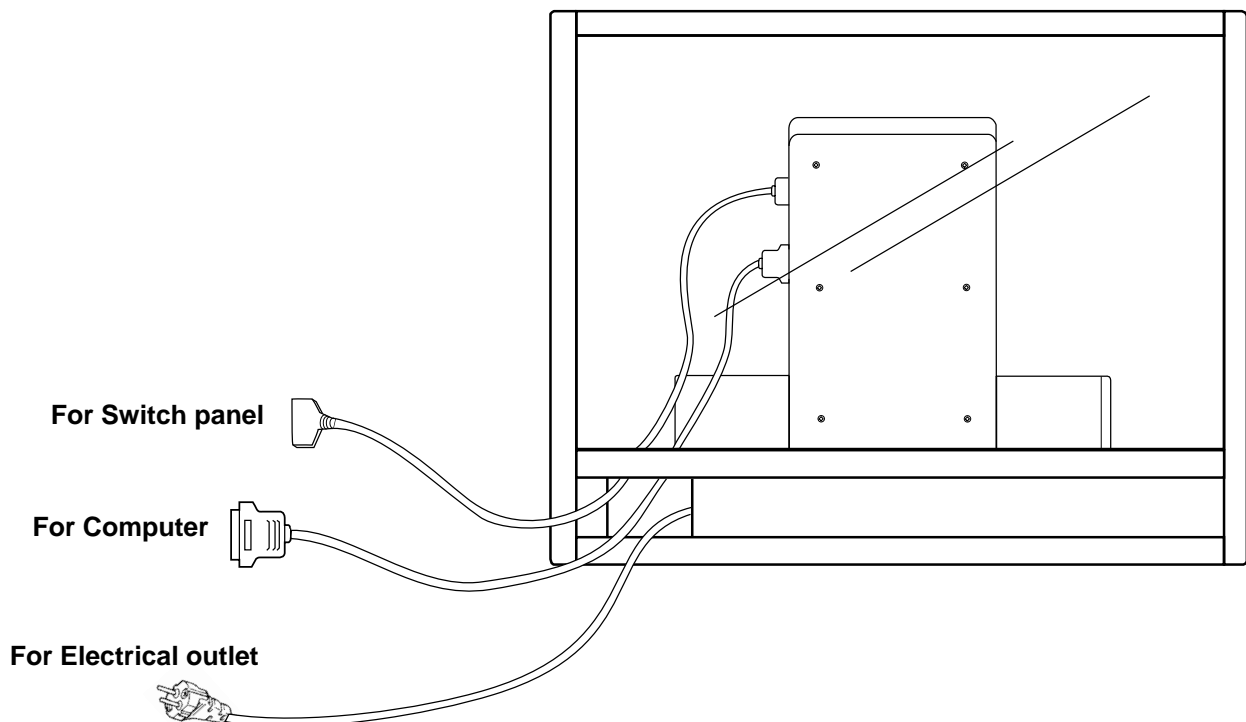
NOTICE

Be sure that the power to both the computer and the main unit is switched off when connecting the cable.

The included cable (for connecting the switch panel) should not be used to connect any other devices. Doing so may damage the equipment.

Securely connect the power cord, computer I/O cable and so on so that they will not be unplugged and cause failure during operation. Doing so may lead to faulty operation or breakdown.

Pass the cables through the back of the protective cover as shown in the figure.
For information about making the connections, see User's Manual 1 — "Setup and Maintenance."



3 Spindle action

When the protective cover is open, the spindle does not rotate. At such times, the [SPINDLE TEST ON/OFF] key has no effect. When sending operating instructions from the host computer or when rotating the spindle with the [SPINDLE TEST ON/OFF] key, close the protective cover.

Specifications

	PNC-3200 Protective Cover
Dimensions	870 mm(W) x 910 mm(D) x 635 mm(H) (34-5/16(W) x 35-7/8(D) x 25-1/16(H) in.)
Weight	37.5 kg (82.7 lb.)
Acoustic noise level	During no-load operation: 57 dB (A) or less (According to ISO 7779)
	Standby mode: 35 dB (A) or less

