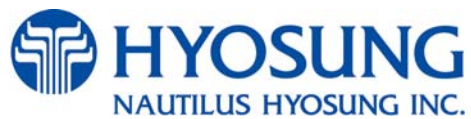


# **NH-2900**

## **Installation Manual**



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## Revision Record

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## Introduction

The NH-2900 is designed to meet the everyday demands of immediate cash needs for individuals with a compact size to fit in virtually any place. This Automated Teller Machine (ATM) is connected to a network processor to verify accounts and any other inquiries through the insertion of a customer's card. The NH-2900 is easy to use, easy to service and able to support customer's needs.

This manual is designed to provide installation guide for the NH-2900 ATM and provide detailed description of the following:

- Information for installation
- Environmental Specification
- Power Specification

All information described in this manual is a licensed product of Nautilus Hyosung Corporation. It is the policy of Nautilus Hyosung Corporation to improve products as new technology, components, software, and firmware become available. Therefore Nautilus Hyosung reserves the right to change specifications without notice.

## Warning Signs

### Common Precautions for Safety







Precautions outlined in this manual provide information on safe and proper handling of the product. Non-compliance of the precautions may result in injury or damage to the product.





This precaution symbol with sample term tells you safety warnings during equipment handlings.

#### **Be sure to read and understand the following safety precautions before handling the product.**

- Follow the procedures shown in this manual.
- Please comply with the safety precautions in this manual and on the product.  
If you do not follow these precautions, bodily injury could result.
- Do not attempt to operate the product in ways other than mentioned in this manual.
- If a problem persists even after following the procedures laid out in this manual, please contact our customer service department.
- This equipment shall not be set up to make automatic calls to the telecom '111' emergency service.
- This equipment is not intended to be connected to a line in parallel with other terminal equipment.
- This equipment should not be used under any circumstances which may constitute a nuisance to other telecom customers.

## Description of Warning Signs

Sign	Description
	<p><b>Risk Of Electric Shock</b></p> <ul style="list-style-type: none"> <li>• Do not remove cover. Only a maintenance engineer should open the cover.</li> <li>• To avoid risk of electric shock, do not touch.</li> <li>• Make sure to turn off the power before servicing the equipment.</li> </ul>
	<p><b>Hot Surface</b></p> <ul style="list-style-type: none"> <li>• Do not touch the equipment when it is on.</li> <li>• The equipment can get extremely hot and may cause a burn.</li> <li>• Make sure to close the cover before running the equipment.</li> </ul>
	<p><b>Moving</b></p> <ul style="list-style-type: none"> <li>• The equipment is heavy. Make sure at least 2 people lift or move the equipment</li> <li>• Do not attempt to move the equipment alone. You may be injured from dropping the heavy equipment</li> </ul>
	<p><b>Risk of Injury</b></p> <ul style="list-style-type: none"> <li>• Always lock Push-Plate before adding cash to cassette.</li> <li>• Refer to user manual for details.</li> </ul>
	<p><b>Risk of Injury</b></p> <ul style="list-style-type: none"> <li>• Turn off the machine before performing any service work.</li> <li>• Use caution to avoid injury</li> </ul>
	<p><b>Handling Heavy Equipment</b></p> <ul style="list-style-type: none"> <li>• You may be injured if machine is dropped or mishandled.</li> <li>• Use caution when moving the machine to avoid injury</li> </ul>
	<p><b>Risk of Injury</b></p> <ul style="list-style-type: none"> <li>• Use caution when operating the push-plate to avoid injury.</li> <li>• The covers should be locked to avoid injury.</li> <li>• Refer to operating manual before installing the cassette.</li> </ul>

Sign	Description
	<p><b>Fire Hazard</b></p> <ul style="list-style-type: none"> <li>• Place the equipment in an area away from any combustible materials.</li> <li>• The equipment may catch on fire from overheating or short circuit of the power supply unit.</li> </ul>
	<p><b>Disassembly</b></p> <ul style="list-style-type: none"> <li>• Do not disassemble or modify the equipment unless you are a certified engineer.</li> <li>• Contact the service center for maintenance, adjustments and repairs.</li> <li>• Improper disassembly may cause fire or electrical shock.</li> </ul>
	<p><b>Fall down</b></p> <ul style="list-style-type: none"> <li>• Do not place the equipment where the floor cannot sustain the weight of the equipment, or on slanted or unstable surface.</li> <li>• Equipment may fall down and cause injury or damage.</li> </ul>
	<p><b>Unplug the Equipment</b></p> <ul style="list-style-type: none"> <li>• Stop using the equipment immediately if it smokes, emits an unusual smell, makes abnormal sounds, or if liquids or other foreign materials enter the equipment.</li> <li>• If the above-mentioned abnormalities occur, immediately turn off the power, unplug the equipment and contact the service center.</li> <li>• If you ignore these symptoms, the equipment may catch on fire or cause electric shock.</li> </ul>

**CAUTION:**

1. TO REDUCE THE RISK OF FIRE, USE ONLY No. 26 AWG OR LARGER TELECOMMUNICATION LINE CORD
2. RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSED OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS
3. FOR PLUGGABLE EQUIPMENT, THE SOCKET-OUTLET SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE
4. THE EQUIPMENT IS TO BE SECURED TO THE BUILDING STRUCTURE BEFORE OPERATION

## Installation Information

### Installation Condition and Space

Following conditions should be met before installing equipment.

1. Temperature should be between 5°C ~ 40°C (41~104°F, while operating), -10°C ~ 60°C (14~140°F, storage).
2. Relative humidity should be between 25~85% (operating) / 10~90% (storage)
3. Avoid locations where intense direct light is reflected off the LCD screen.
4. Avoid locations where strong static electricity can occur.
5. The floor must allow easy wheelchair access from the front or the side.
6. Space required for servicing the machine should be considered before installation.

### Tools required for Installation

In order to move the machine and place it in a proper location, you need to get help of professionals trained in moving heavy equipment.

Following tools are needed to install the machine.

- Wire cutter
- Lifter
- Screw driver (Flat, Phillips)
- Wrench (Spanner)
- Leveling tool
- Silicone
- Silicone gun



## System Installation

### Unpacking the System

Unpack the machine on top of the pallette.

1. Cut the straps that are fastened around the box with a knife. (refer to Fig.1)  
(Be careful when cutting the straps.)
2. Use an appropriate tool to remove the nails from the pallette. (refer to Fig.2)
3. Remove the lid, then box from the top. Do not discard the packaging materials until you have verified any shipping damage claim. Contact your distributor immediately if you see any shipping damage. Store the box in a safe place to re-use or discard of appropriately.
4. Verify the contents carefully with the packing list to be sure all items listed are included. Notify your distributor of any shortages.
5. If only the pallette needs to be removed, lift the whole machine from the bottom and set it aside.

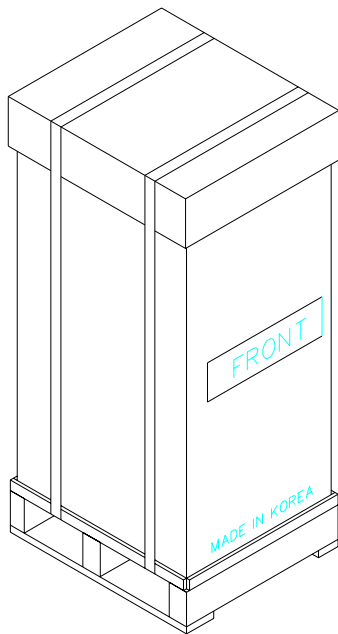


Fig.1

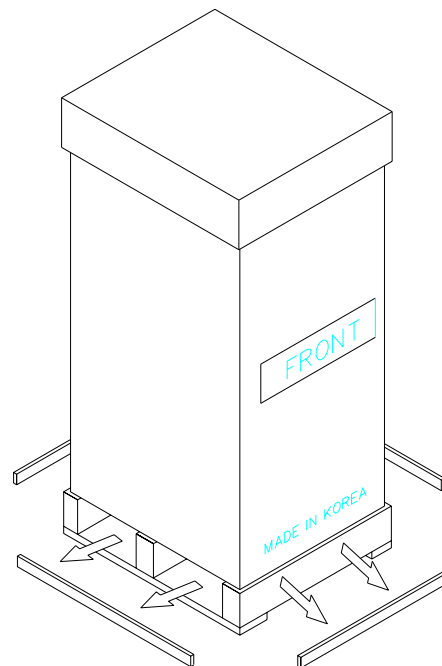


Fig.2

## Physical Installation

To install NH-2900 ATM, perform the following steps.

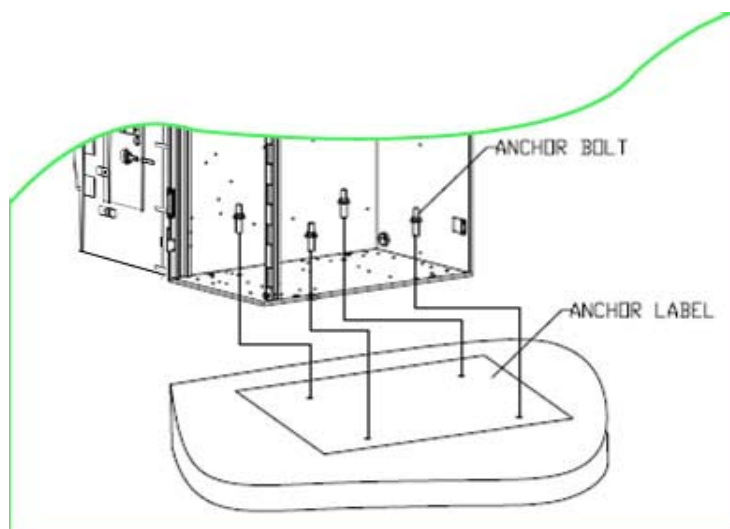
1. Place the “Anchor bolts locate sheet” at the place where the machine is to be installed. (Refer to Fig.3)
2. Place the system on a flat surface. Be careful when opening the top or bottom of the machine because it can be off balance
3. Place the Anchor nuts into the ground according to the anchor bolts locate sheet.  
(4 places)
4. Place NH-2900 ATM on top of the sheet.
5. Open the Security cover with the key provided.
6. Using the supplied combination, open the Security Door. The combination should be changed as soon as possible.
7. After the anchor nuts are in place according to the anchor holes on the bottom of NH-2900 ATM, tighten the anchor bolts tightly. (Refer to Fig.3)

### REFERENCE: Anchor Setting

1. Select an appropriate installation area and stick this label on the floor as the picture. Place keep minimum distance from the wall or object.

**NOTICE:** When you install the ATM machine between the wall and the object, the front of the ATM machine must stick out approximately 50mm (2 inch) from the wall so that front door can be opened without any problems.

- 2 Make 4 anchor holes.
3. Place the ATM machine over the fixed label so that anchor holes line up according to the picture.



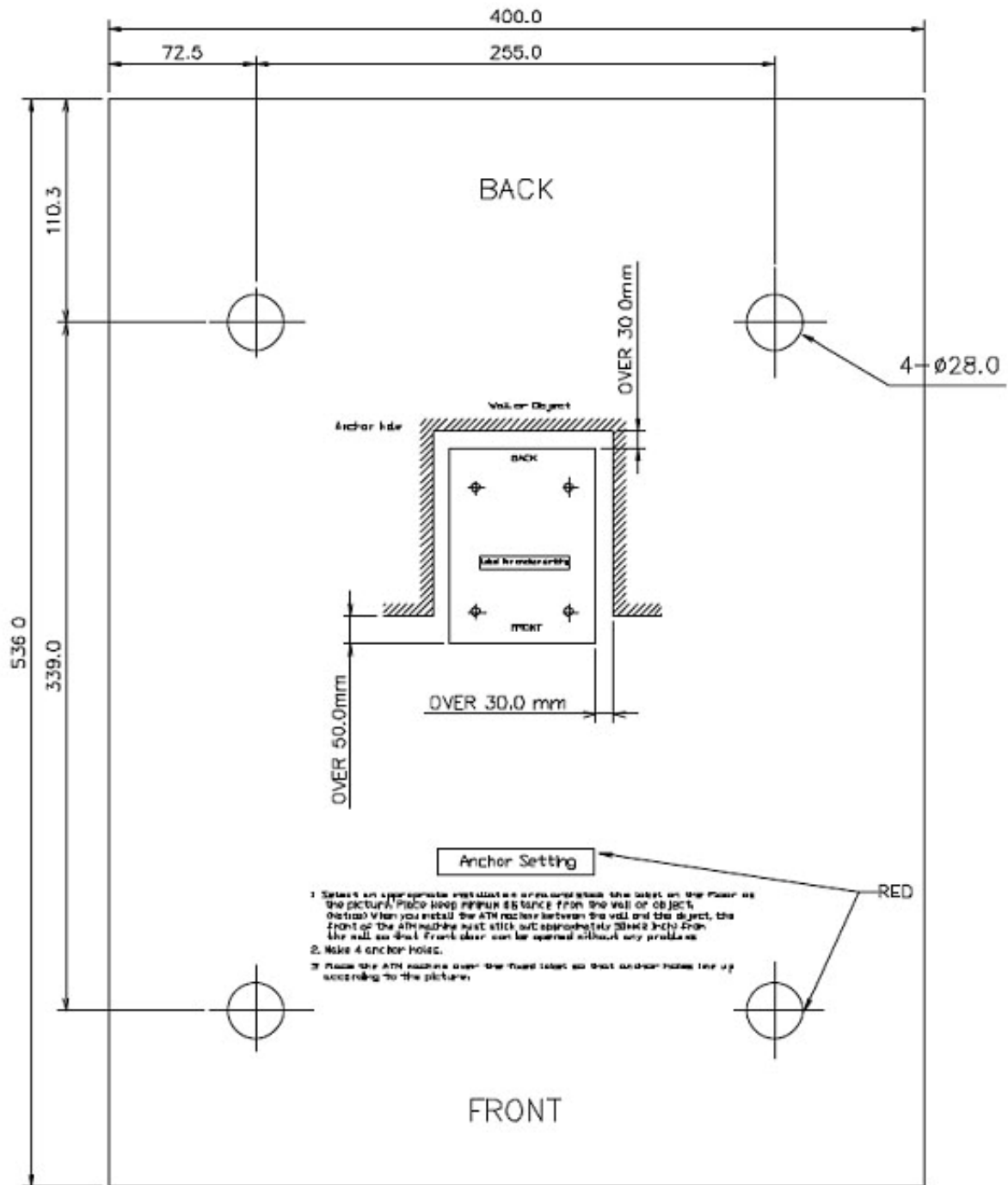


Fig.3 Anchor diagram of NH-2900 ATM

### Packing Dimensions

In some cases it may be necessary to store the ATM (in its box) before it is installed. See Fig.4 for information on the dimensions of a boxed NH-2900 ATM.

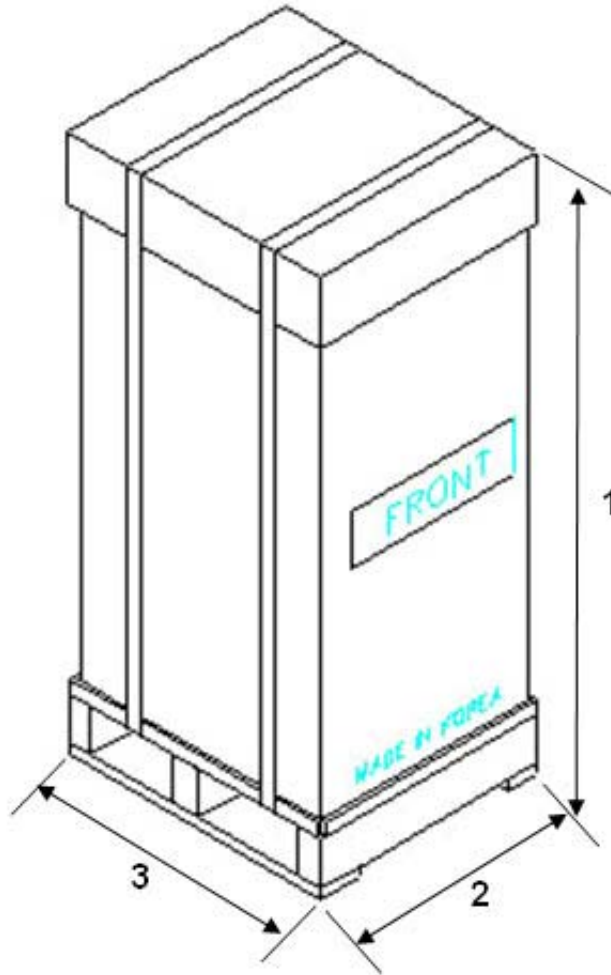


Fig.4 Boxed ATM Dimensions

**NOTE:**

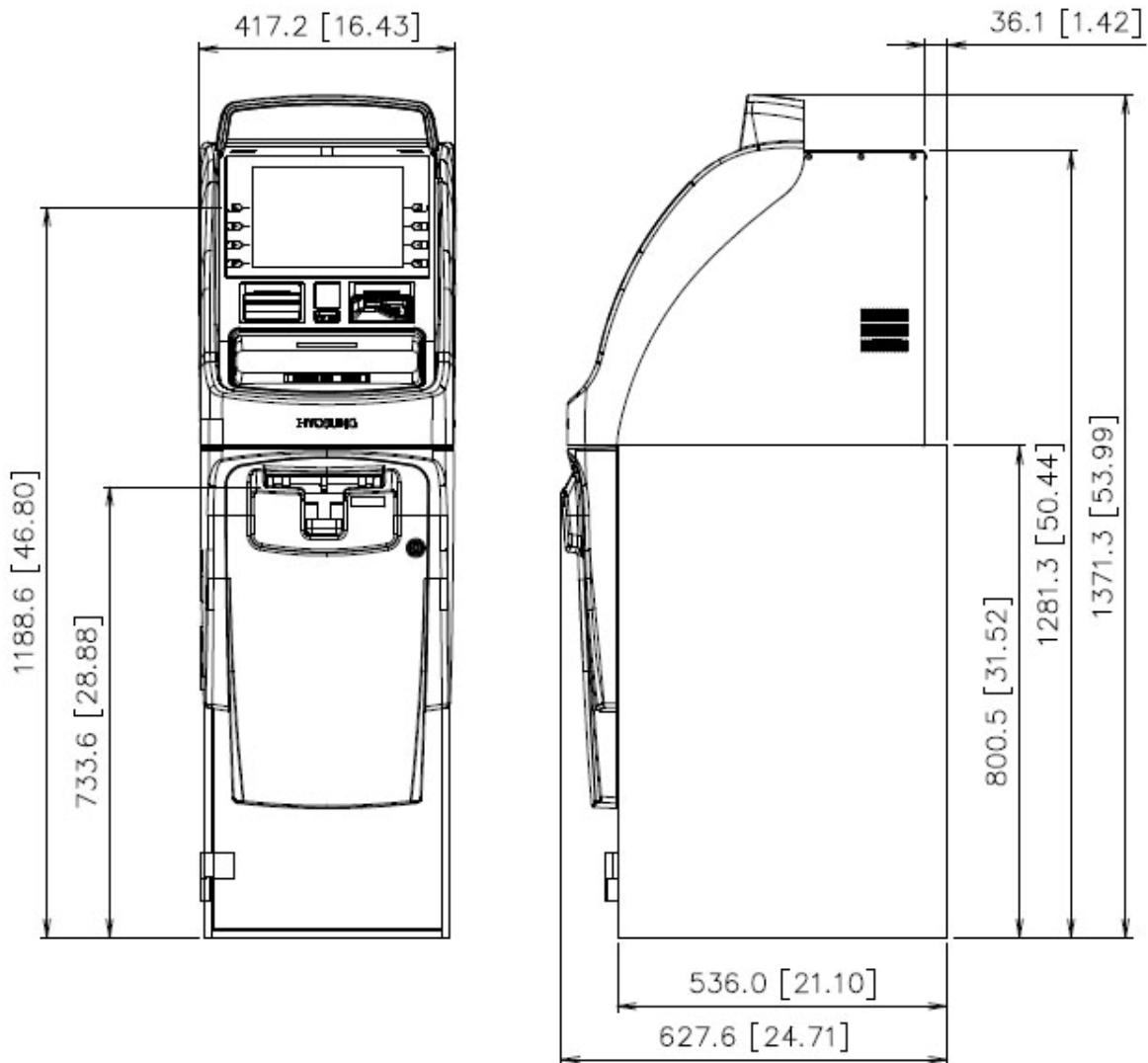
Approximate weight of a boxed MoniMax7600I ATM is 595.25lb (270Kg). Actual weight will vary depending on ATM component configuration.

1	1520 mm (59.84 inches)
2	740 mm (29.13 inches)
3	510 mm (20.08 inches)

## Clearance Information

### ATM Dimensions

The following diagrams are description system dimensions for NH-2900.



### Installation and Service Clearance

Following diagrams are describing the areas required for installing and servicing the NH-2900.

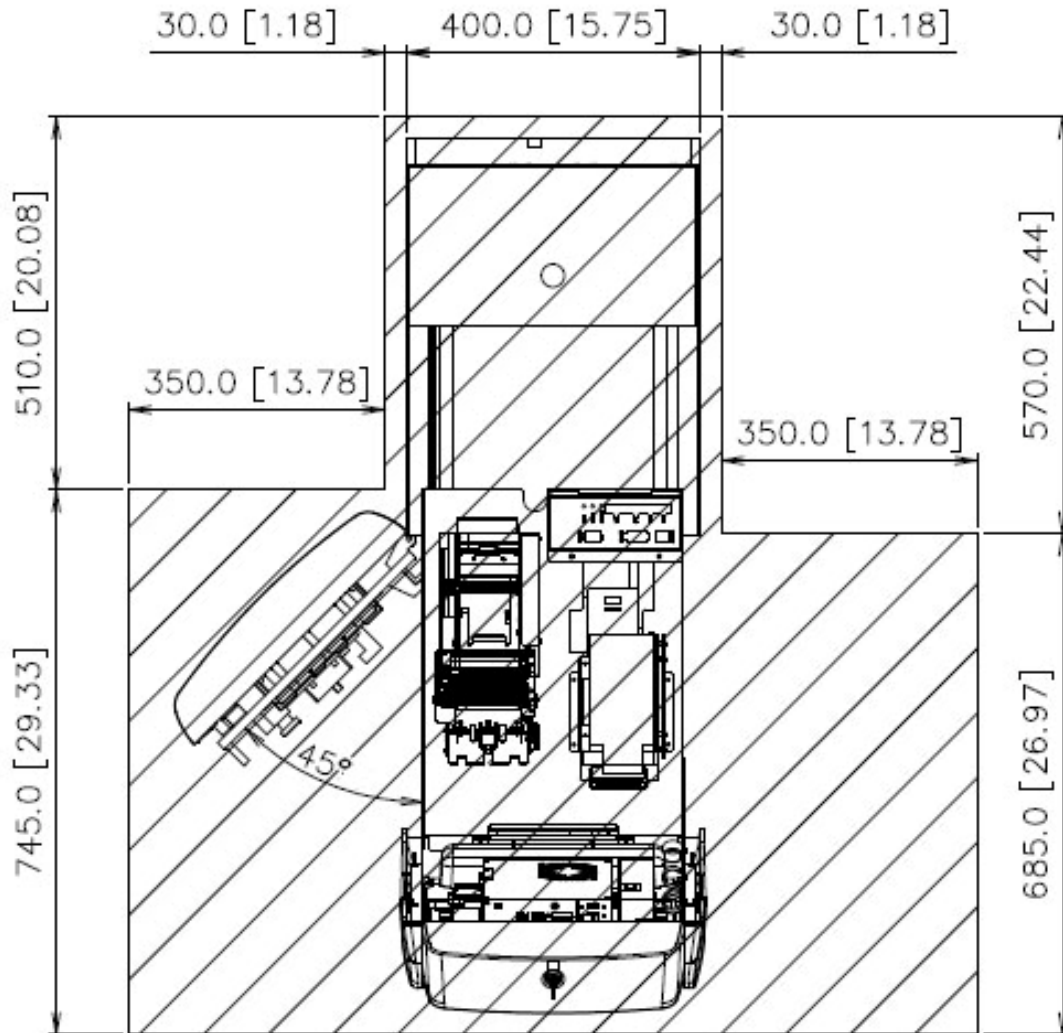


Fig.5 Installation space #1 (Plan view)

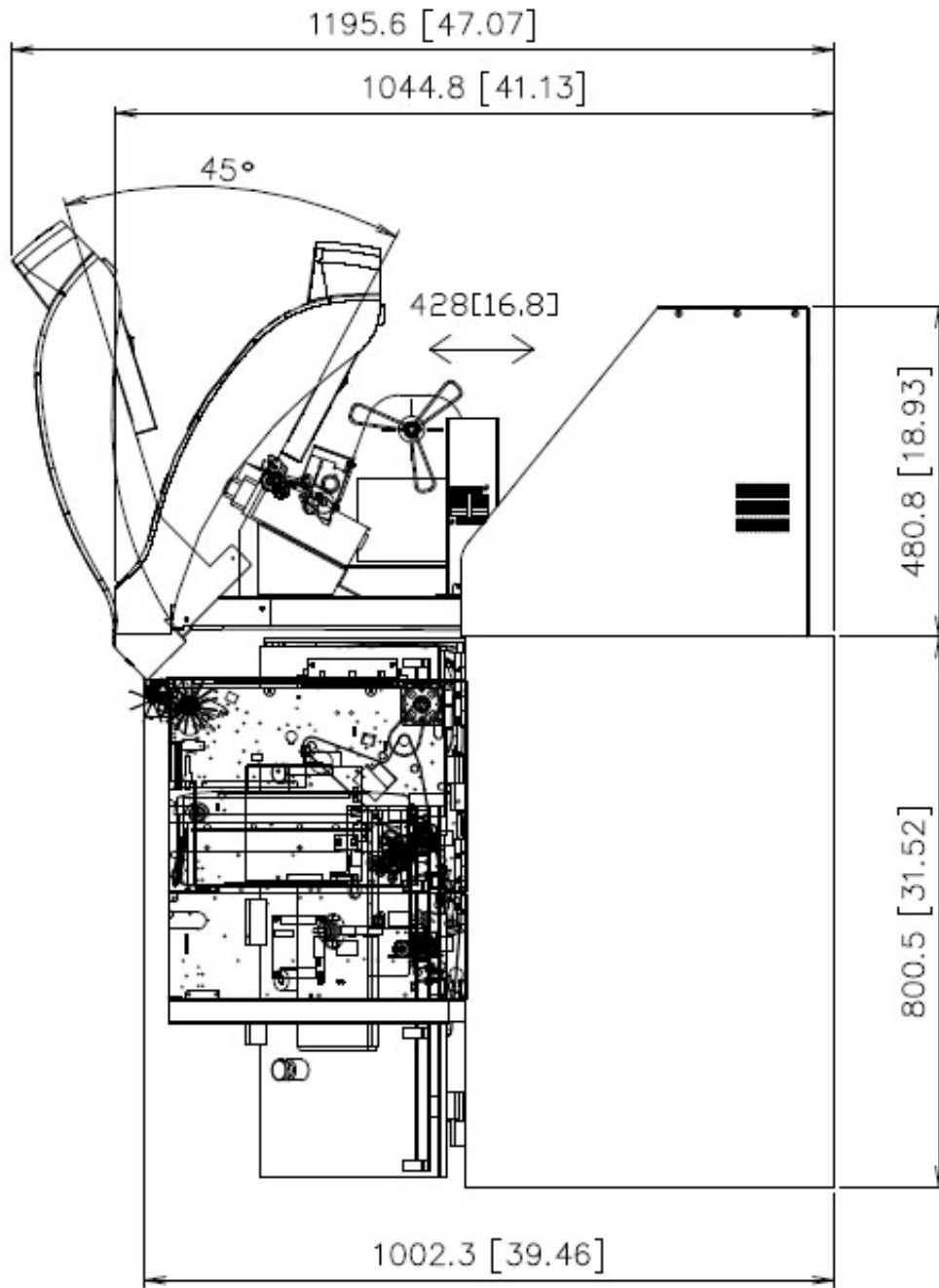


Fig.6 Installation space #2 (Side view)

Hyosung recommends it is more convenient for your service personnel to have enough maintenance space as described above to service this ATM machine.

## PRECAUTIONS

NH-2900 has system battery back up units as optional itself to grantee customers transaction safety when losing power status. This function will proceeding automatic safe shut down either. But we are recommending to use UPS system for power sourcing to ATM.

### **This is basic requirements before turn on the system.**

- Check the OUTPUT voltage of power source before inserting ATM power cable into it.
- Dispatch all the unit holder tapes and a desiccant pack form ATM
- This machine should be connected to a dedicated power circuit.  
This circuit must consist of **LINE**, **NEUTRAL** and **GROUND** leads connected directly to the power circuit breaker panel. This circuit cannot be shared with any other equipment.
- Make sure that the outlet of power at installation site should be grounded by using of meter.  
It is ok that the voltage measurement between mutual and ground lead in outlet is **less than 5.0V**
- You can find out that there are 2 types of cables outside the safe door.
  - Main Power Supply Cable
  - Communication cable.
- Connect power cables and communication cable properly.