RPM
Robotic Packaging Machine

Introduction to RPM
User Manual

infopia
Health care, Human care, Happy care

Content

◈ **Introduction**
◈ **Specifications**
◈ **Installation Guide**

- Unlocking the Lower Unit.....3-4
- Unlocking the Middle Unit.....5-6
- Turning the machine on.....7

◈ **Upper Unit**

- Upper Unit Parts.....8-9
- How to install/remove cassette.....10

◈ **Middle Unit**

- Middle Unit Parts.....11
- How to change receipt paper.....12

◈ **Lower Unit**

- Lower Unit Parts.....13-14
- How to change cellophane (packing) paper.....15-17
- How to change print ribbon.....18-19

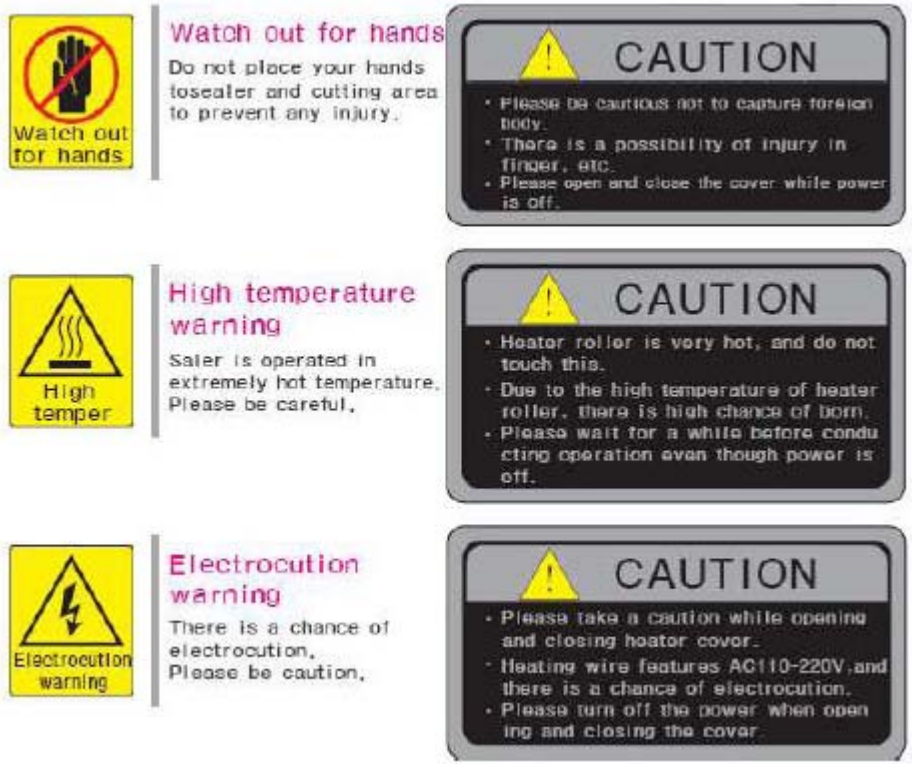
RPM
Robotic Packaging Machine

Introduction

Please read carefully install manual before set up machine.
Do not unsealing someone without completion study machine, please setup machine acceptance staff
Be careful hazard risk

Introduction

Precaution Mark



Introduction

Precaution before installation

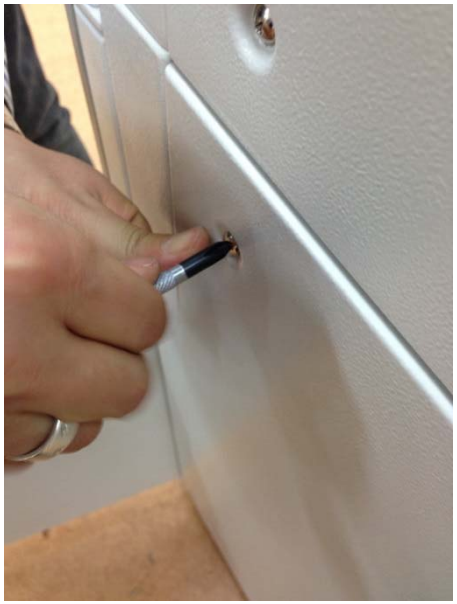
◈ Step1. Select location
1) keep up rang another equipment
Rear pen which rear side machine must keep up 20cm range wall or something because of change of air
2) Please avoid heat and humidity
due to heat and humidity change medicine discolor and deformation
Avoid from sink unit and heat unit, because of inside machine accuracy electric component
◈ Step2. Settle Level
1) Please using caster lever settle level, when ground irregular
2) not settle level accuracy, occur to hazard door sink and draw hook
3) Turn right caster lever, go up machine base
◈ Step 3. Earth
1) Exist earth terminal
Using AC220V receptacle earth terminal, don't need earth
2) Do not exist earth terminal
Using AC220V receptacle without earth terminal, internal machine earth lead line to ground earth
3) no where to earth
don't have earth duo to humidity and static, you must install circuit breaker
(4) please check before set up machine internal power AC220V or AC110V and online power
(5) RPM using internal Data communication by LAN(801.11)
Please check space LAN Cable connection

Specifications

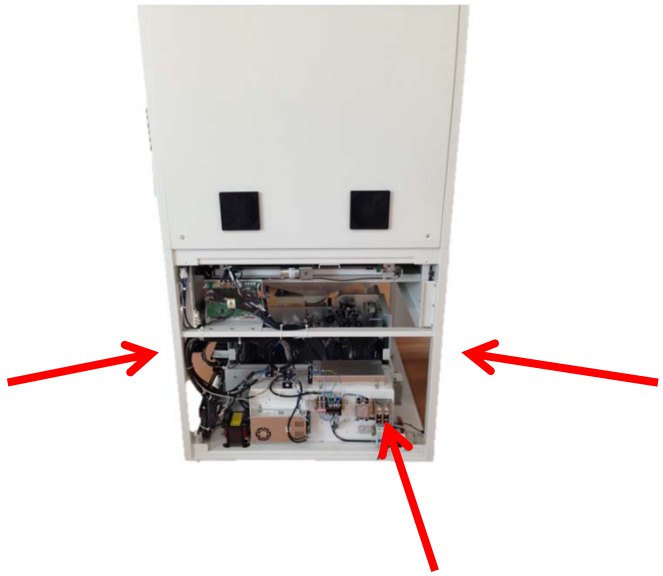
◈ Model : RPM-A432
◈ Basic Specification
Cassette Capacity 432
Packaging Speed Maximum 70 packing / minute
Display & Input Method Touch screen PC
Power Supply AC220V(230V, 110V, 100V), 50/60Hz
Power Consumption 850W, 1000VA
Weight RPM-A432 (About 850 Kg)
Outside Dimension (W X D X H)mm 840(W) X 1030(D) X 2100(H)
◈ Specification
Control System Touch screen PC(Ultra mobile PC control)
Control System Window Standard 7
Pollution Category 2
Overvoltage Category II
Operating Temperature 10°C ~ 40°C (Centigrade)
Operating Humidity 10% ~ 80%
Altitude Up to 2,000m
Class of Equipment I
◈ Main Printer
Printer Specification Printer Method: Thermal Printer
Printer Course: Line Direction
Character Specification
Graphic support windows
All character & bar cord of possible line printing
Mechanical Specification
Rated Voltage : DC24V
Rated Power : 50W
Printer Type : Thermal Type

Installation Guide

◈ Unlocking the Lower Unit (1/2)



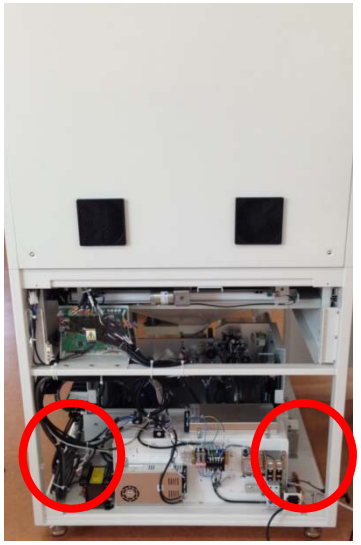
Remove the panels for easier access. Each panels have 4 screws.



It is recommended to remove three bottom panels (Left, Right, Back).

Installation Guide

◈ Unlocking the Lower Unit (2/2)

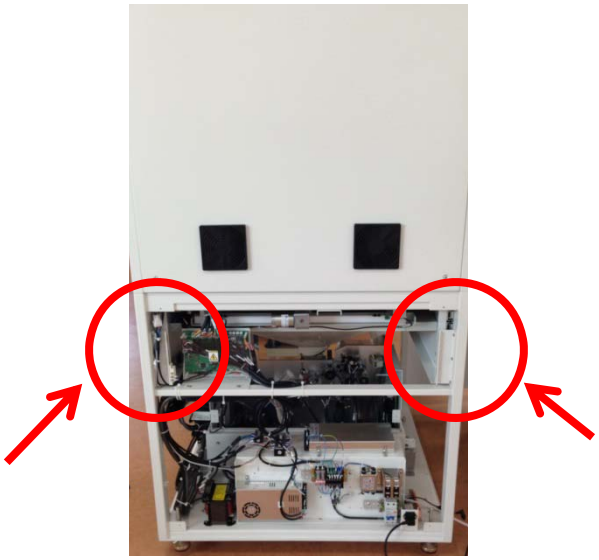


There are two brackets that are holding the lower unit. Location is shown above

Remove the two screws that are holding the bracket to remove it

Installation Guide

◈ Unlocking the Middle Unit (1/2)



There are two brackets on each side that hold the middle unit. Location is shown above

Remove the two screws that are holding the bracket to remove it. Do it on both sides

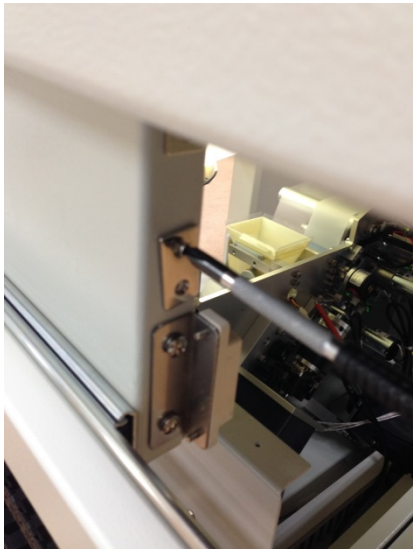
Installation Guide

◈ Unlocking the Middle Unit (2/2)

Zip lock bag containing:

- Magnet pieces
- Screws to install

Once the bracket is removed, the middle unit is free from the machine frames. As shown above, due to the placement of the locking bracket, a magnet piece is missing

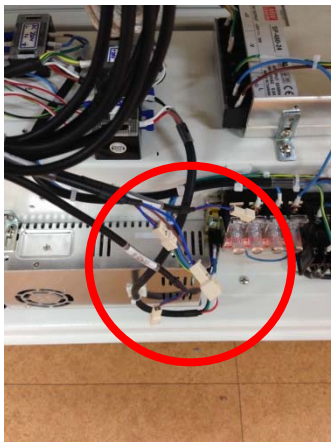


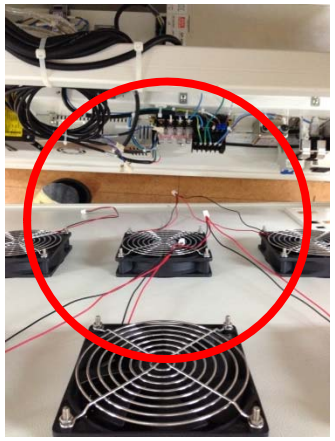
Find the magnet piece inside the zip lock bag and install them.

Health care, Human care, Happy care

Installation Guide

◈ Turning the machine on





Re-install the panels. The back panel has fans mounted on them and cables need to be connected before installation

Plug power chord and make sure circuit breaker is up. When ready, twist the emergency switch to disable it and turn the key to activate RPM

Installation Guide
Upper Unit

◈ About Upper Unit

- Upper unit mainly consist of cassettes which contain designated medication
- The drawers slide out for user to install and remove desired cassettes
- The LEDs on the front of every drawer display the medication name that each drawer contains

LED Screen : displays medication name

Cassette Drawers : Each cassette drawers can hold 24 cassettes (12 on one side

Installation Guide
Upper Unit

◈ About Upper Unit

◆ Cassettes

- Cassettes dispense medication to bottom unit
- Each Cassette is made for a specific drug.
- If size of medication changes, cassette will not work properly

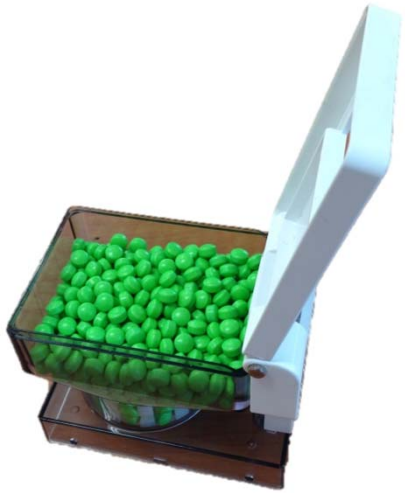
◆ Cassette Base

- Cassette Bases hold the Cassettes
- Responsible for turning the drums inside the Cassettes to dispense correct quantity
- Flexible
  - The base changes according to the installed Cassette. There are two flexible bases located on every section
- Fixed

Installation Guide
Upper Unit

◈ **How to install/remove Cassettes**

Install the back first for easier installation. Do the reverse process to remove



The top cover of the Cassette opens up in a hinge motion

Installation Guide
Middle Unit

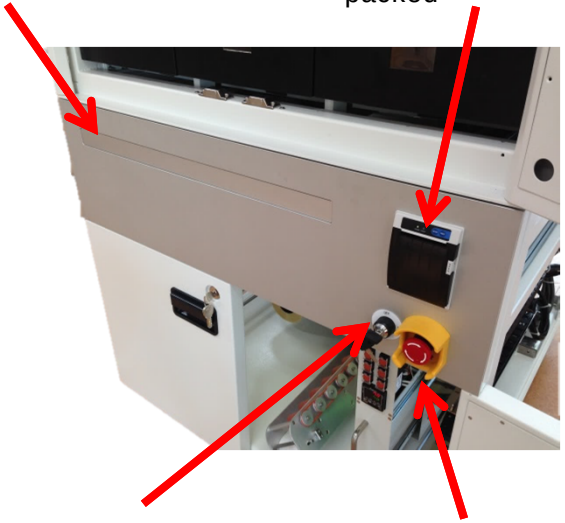
◈ About Middle Unit

◆ MDC (Manual Dispensing Cell)

- For non-Cassette items, user can use MDC to repack medication
- Using MDC requires user to manually fill the tray
- For more information on using the MDC, please refer to RPMS Manual and RPMC Manual

MDC : tray opens when needed for user to manually fill each cell with medication

Receipt Printer : prints the prescription (order) information for user to check what is being dispensed and packed



Power Key: For security purposes, key is needed to turn on the machine

Emergency Switch: In case of emergency, pressing this button will cut off all the power

Installation Guide
Middle Unit

◈ **How to change receipt paper**

Open the printer by pressing “Open”. Install a replacement roll

Manually feed the paper over the black cover and close the printer. Press “Feed” to check if replacement roll is installed correctly

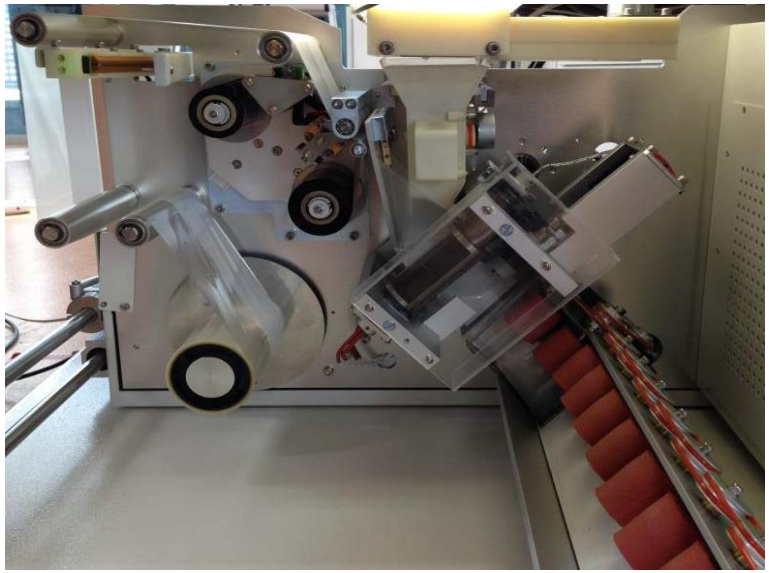
Once confirmed, press “Cutter” to finish

Health care, Human care, Happy care

Installation Guide
Lower Unit

◈ About Lower Unit

- Main job for lower unit is to pack medication and print
- Two consumables
  - Packing paper (cellophane)
  - Print ribbon
  - One roll packs approximately 3600 packages



Installation Guide
Lower Unit

◈ About Lower Unit

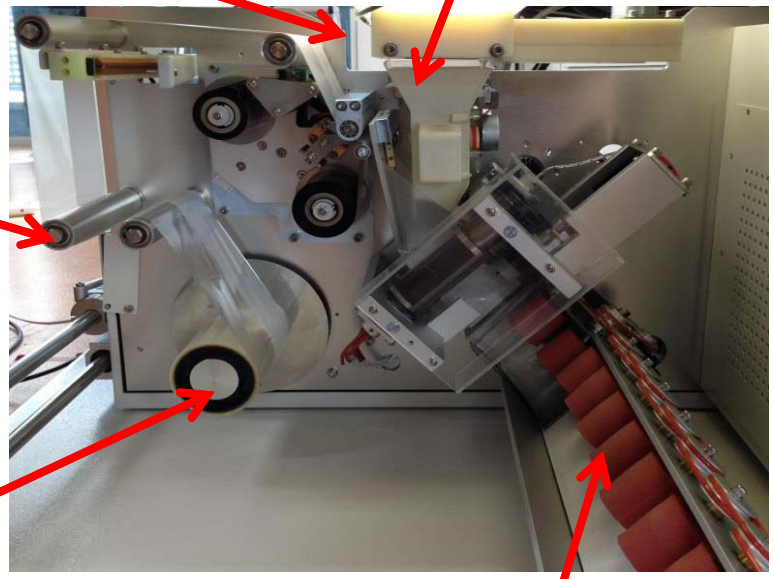
Instant Sealer : attaches replacement roll with the previous roll

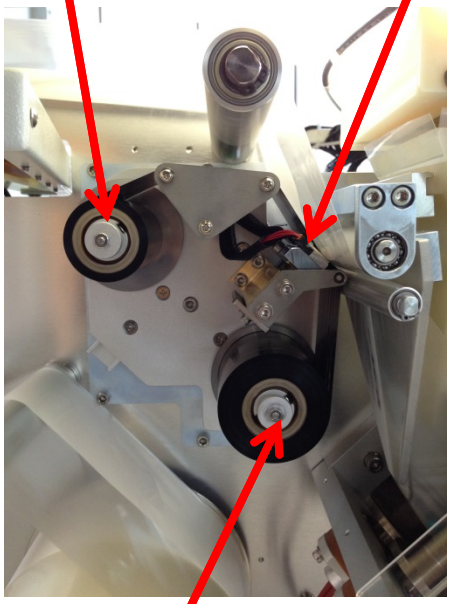
Last Shutter : stops medication for the last time before packaging

Print Shaft (following) : feeds the print ribbon. Unused part is rolled up here

Print head : gives heat to the ribbon to print on the pack

Paper Roller : guides the packing paper





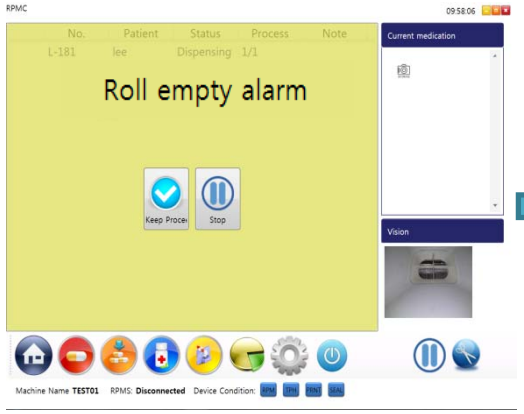
Cellophane (Packing) Paper Mount : rotates and feeds only the calculated amount paper

Conveyor : brings strips of repacked medication out

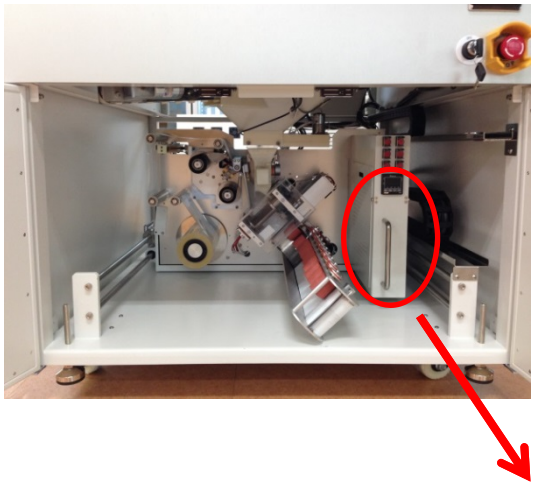
Print Shaft (driving) : Pulls the print ribbon. Used part is rolled up here.

Installation Guide
Lower Unit

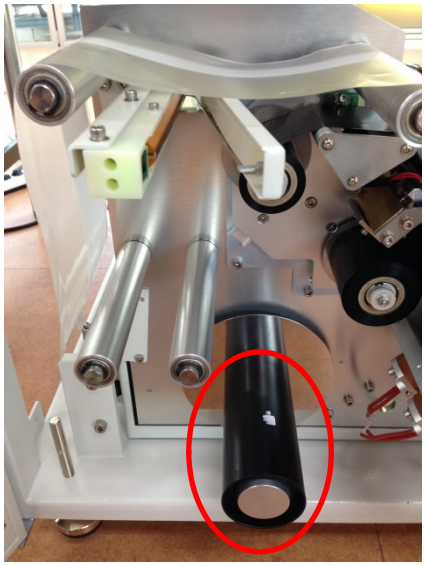
◈ How to change packing paper (1 / 3)



Once the packing paper runs out, machine will stop with an alarm message on RPMC



Pull the lower unit out by using the handle. Do not use the conveyor to pull the unit out



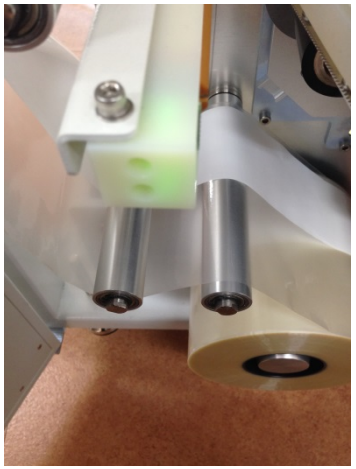
The paper is free from the barrel. Pull the barrel to remove.

Installation Guide
Lower Unit

◈ How to change packing paper (2/3)

Lock the lower unit by using the device shown above which is located on the left of the lower unit

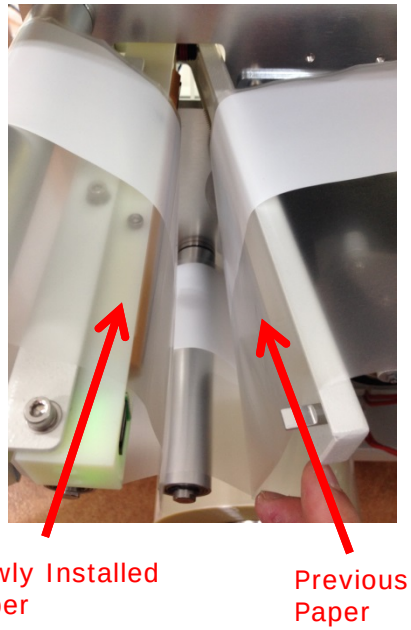
Insert new roll to the mount. Paper barrel has grooves on the inside for the mount's ball catcher to go through



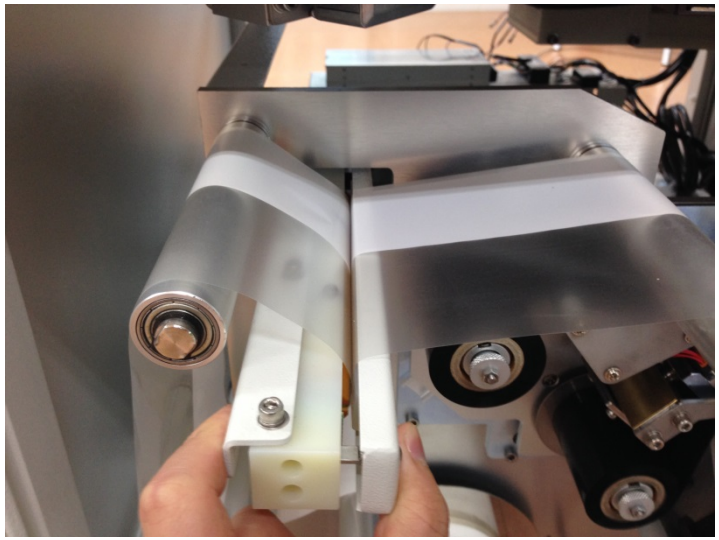
Feed the paper to the instant sealer. See page 20 to correctly feed the paper

Installation Guide
Lower Unit

◈ How to change packing paper (3 / 3)



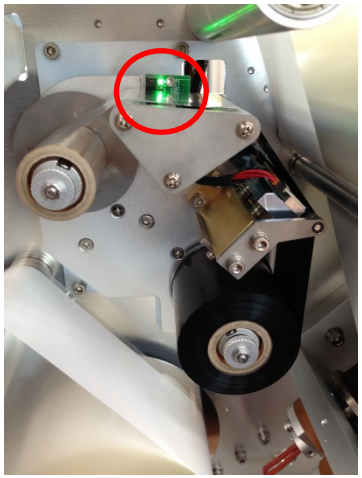
Place the previous paper and new paper through the instant sealer.

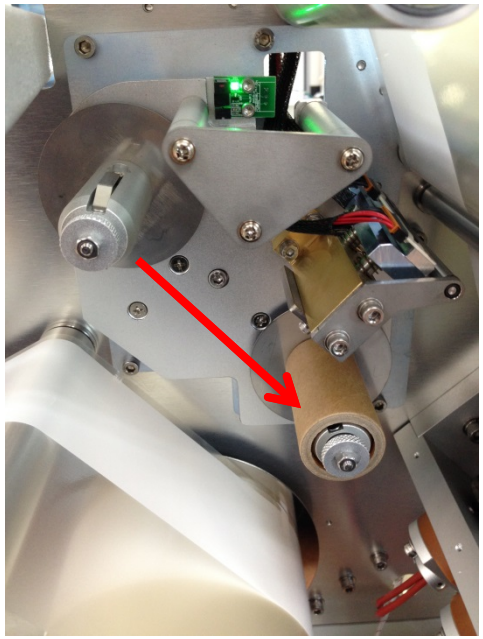


Hold the instant sealer for 5 seconds to attach. While holding, remove the excess by pulling towards the right. To finish, press forward until the connected parts are out of the machine

Installation Guide
Lower Unit

◈ How to change print ribbon (1/2)



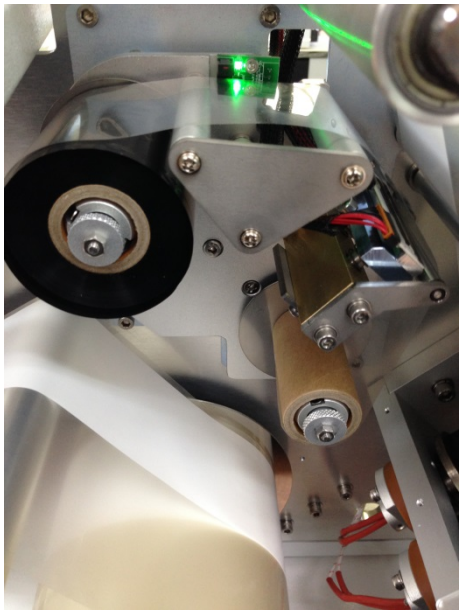


When paper ribbon runs out, machine will stop with an alarm message on RPMC. Green light on the sensor will turn on.

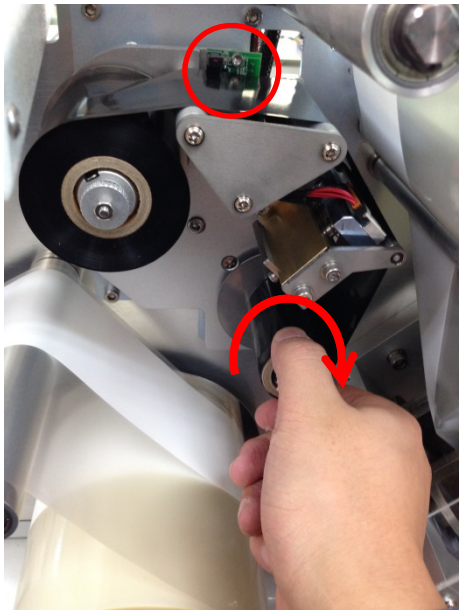
Trash the used roll on the driving shaft but save the empty cardboard on the following shaft. Install the saved cardboard to the driving shaft

Installation Guide
Lower Unit

◈ How to change print ribbon (2/2)



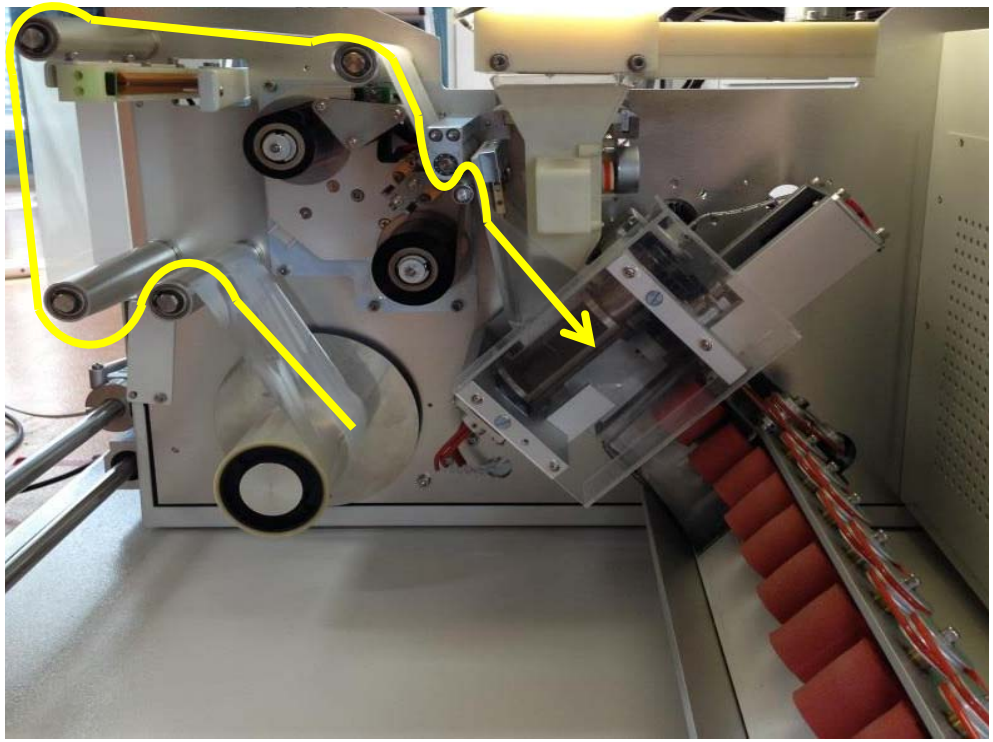
Install a new print ribbon. Then attach the end of it to the cardboard on the driving shaft. See page 20 to install correctly

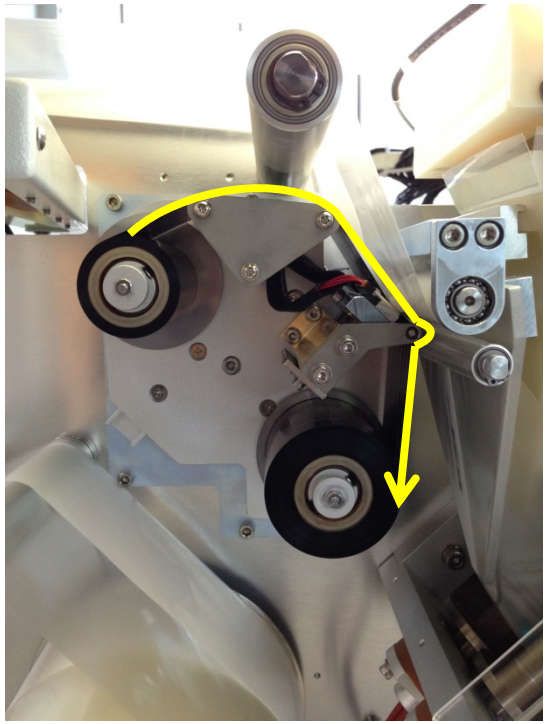


Turn the driving shaft until the sensor senses the ribbon and turns off the green light

Installation Guide
Lower Unit

◈ **Paper / Print Ribbon Diagram**





Installation Guide

RPM
Robotic Packaging Machine

◈ **Supply Power**

Follow picture electric power plug connect receptacle.

Notice: Using standard power plug.
Using receptacle must be isolate earth.
Receptacle do not earth, electric board malfunction and make sure hazard risk.

◈ **Connect LAN cable**

Follow picture rear side machine LAN port to connect HUB (Direct cable).

◈ **Power Up the RPM System**

◈ **System Function Check**

- **Seal Function**
- **Cut Funtion**
- **Cartridge Function**
- **MDC Function**

◈ **The RPMS Server have to send the prescription to RPMC Machine**

Information for the user

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Portable equipment: Equipment for which the spaces between human body and antenna are used within 20cm.
Mobile equipment: Equipment used at position in which the spaces between human body and antenna exceeded 20cm.

Notice: This device complies with Part15 of the FCC Rules. Operation is subject to the following two condition: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, incl uding interference that may cause undesired operation.

FCC WARNING
Changes or modification not expressly approved by the party responsible for compliance could void the user's a uthority to operate the equipment.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meet s the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65. This equipment has very low lev els or RF energy that are deemed to comply without testing of specific absorption ratio (SAR)

Health care, Human care, Happy care

Infopia Co., Ltd

132, Anyangcheondong-ro, Danan-gu
Anyan-si, Gyeonggi-do, Korea
TEL : +82-31-460-0300
FAX : +82-031-460-0401
Call Center: 82-80-300-8114
www.infopia21.com
Shopmall : www.infopiamall.com
G-Healthcare : global.infopia21.com