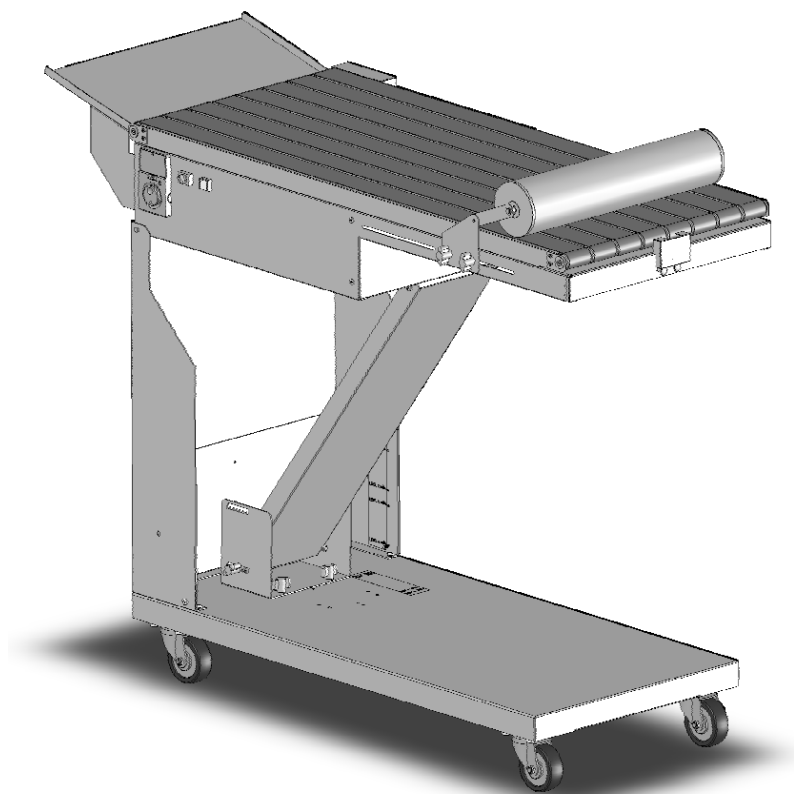


Operation Manual

Multi Conveyer

UCV-300



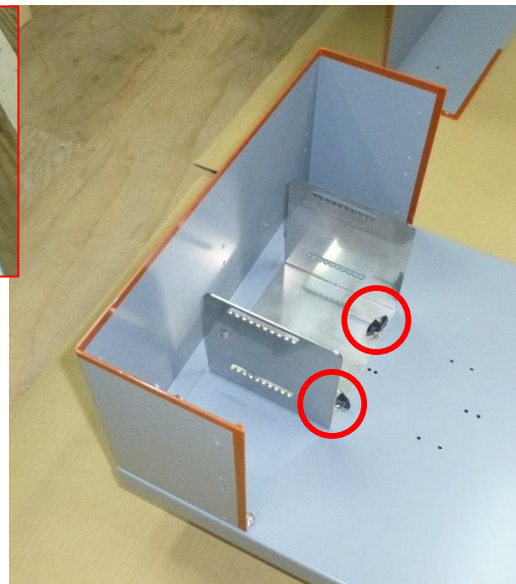
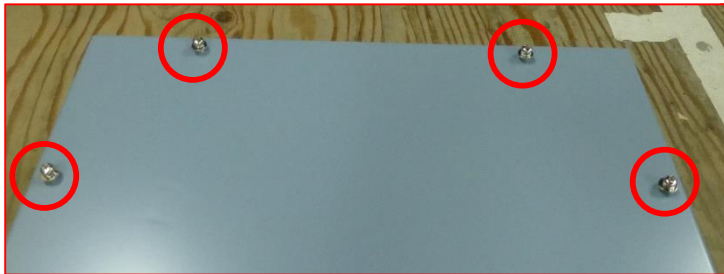
UCOS

Installation

(1) Open the box and take out the flames.



(2) Fix the Conveyor Flame2D-1 by screw on 4 locations.



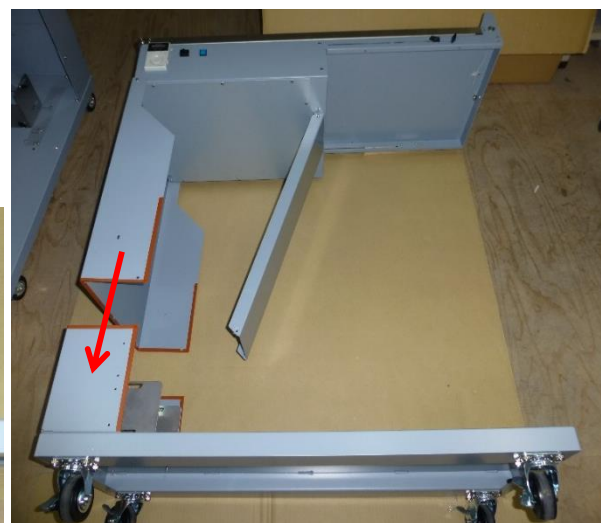
(3) Fix the Conveyor Holder Plate and the Conveyor Flame2D-1. [Knob x 2]

(4) Lay the air cushion before assembling for avoid the damages.

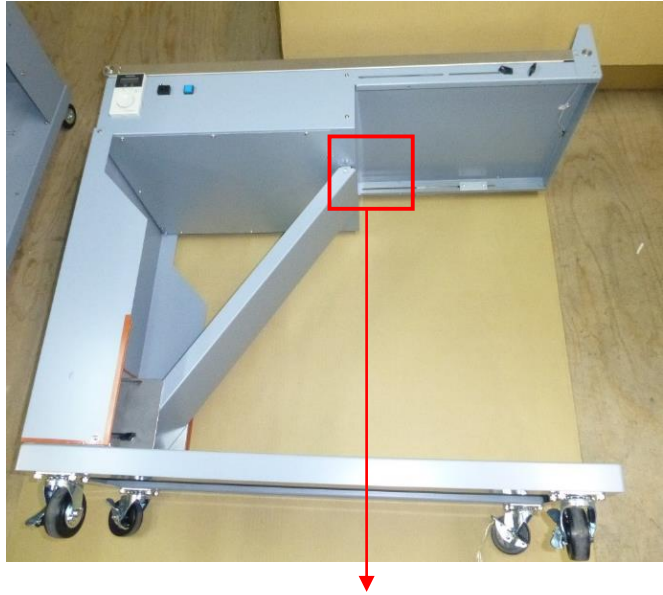
(5) Set the Base Flame like as right picture.

(6) Slide the Flame.

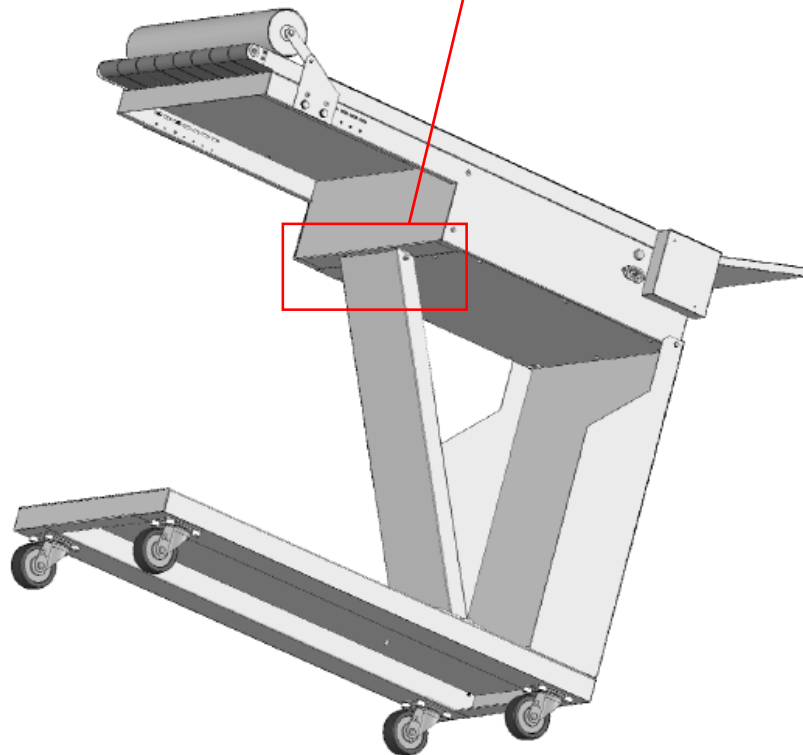
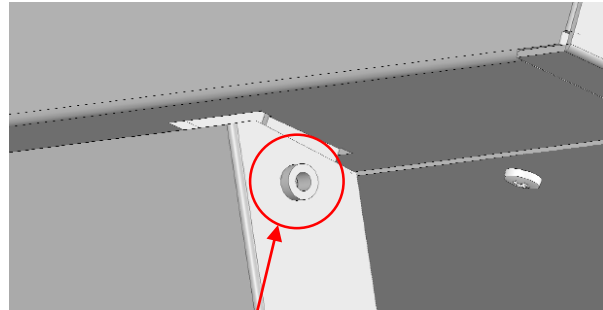
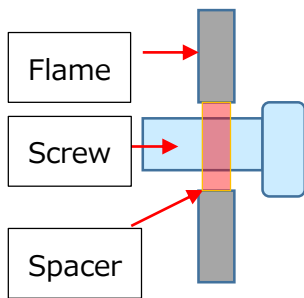
(7) Fix the Conveyor Stay.



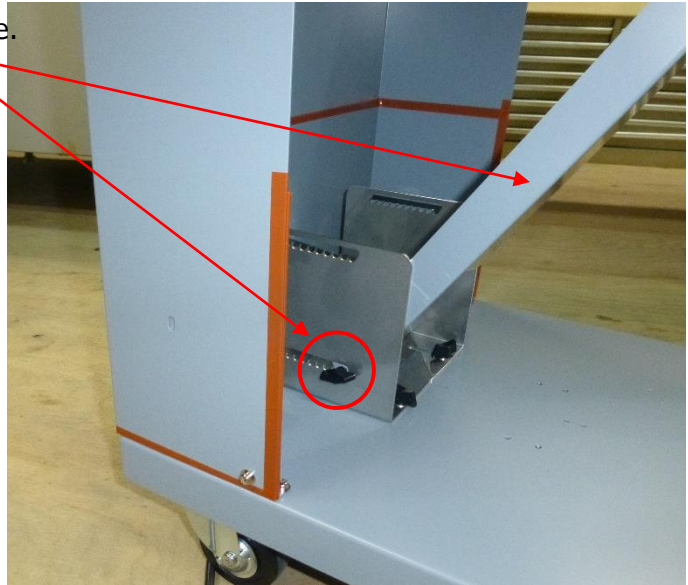
(8) Fix the Conveyor Stay on the Conveyor Base Plate on 2 locations.



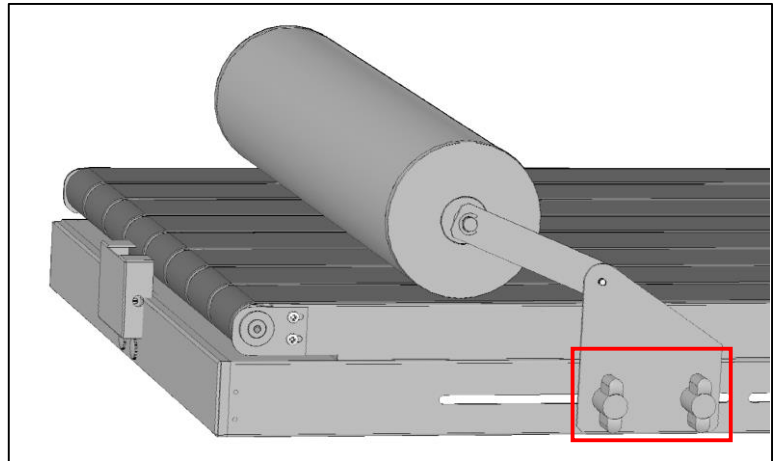
(9) Insert the spacer in the hole of flame. and tighten the screw.



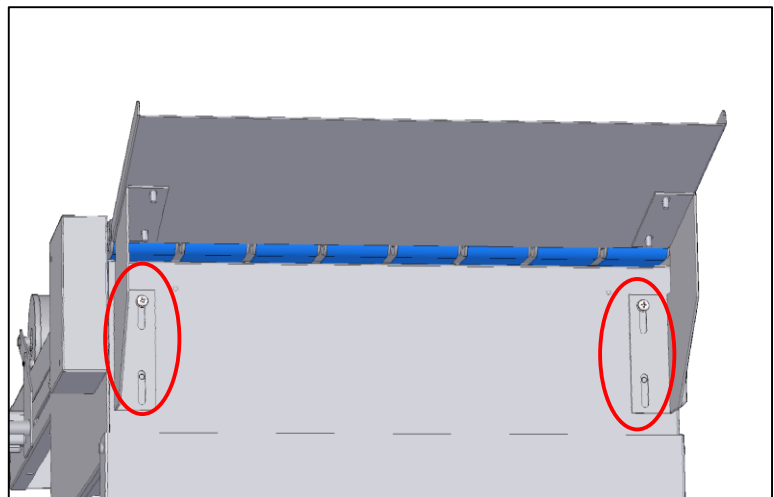
(10) Fix the Knobs on the Base Flame.



(11) Fix the Press Roller Unit.
By Mold Screw 4 locations.
(Front: 2x / Back: 2x)

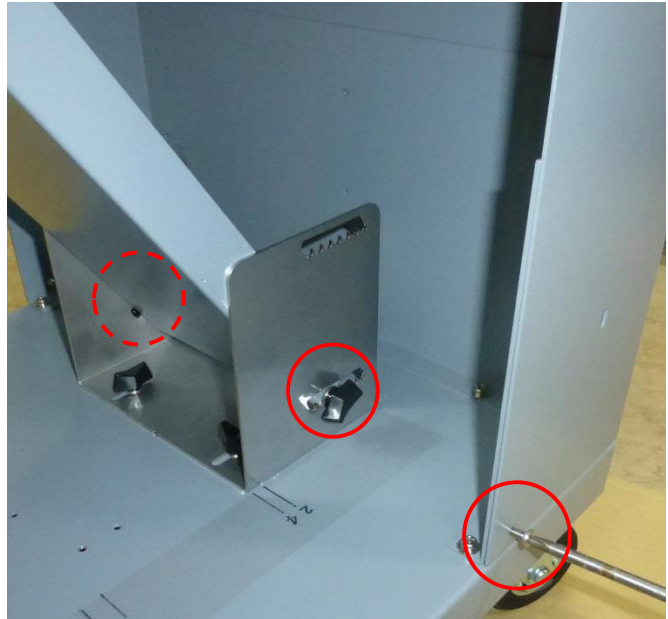


(12) Fix the Output Tray.

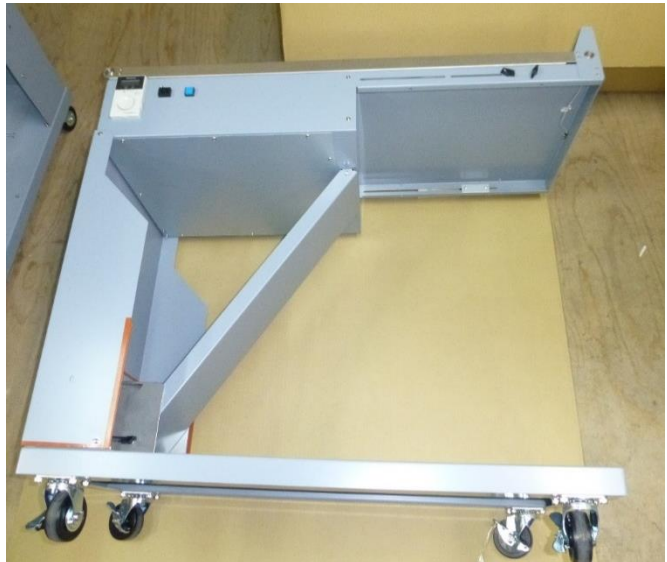


【Height Adjustment】

- (1) Remove the Knobs (2 locations) of Conveyer Stay.
Remove the Fixing screw which is one of 5 locations and is going to be buried when lay the Conveyer.



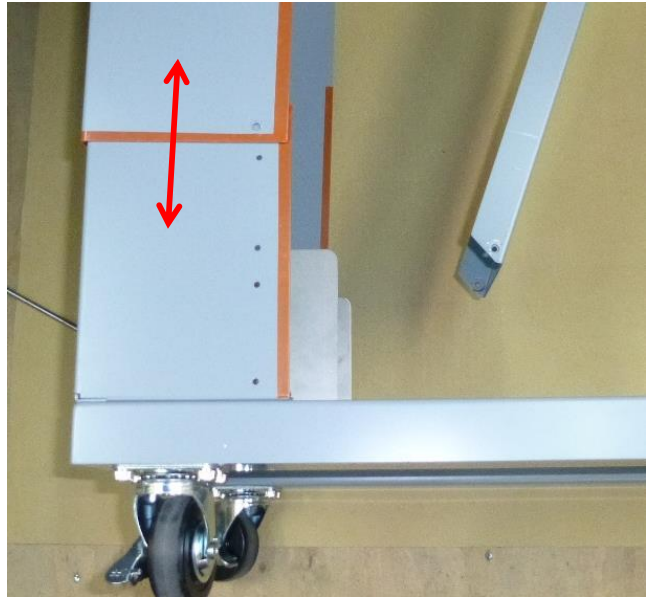
- (2) Lay the air cushion before assembling for avoid the damages



- (3) Remove all fixing screw on another 4 locations.



(4) Choose the height from 4 selection and fix by the screw on 5 locations.



(5) Choose the Conveyor Stay height depending on Flame height.
Fix by the Knob on both sides.

(6) Height-Balance adjustment is controlled by the slot of Conveyor Stay (10 levels).



1. Safety Instructions (Be sure to observe these)

The following explains what must be observed for preventing bodily injury of user or others, and damage to property.

Safety Instructions

Definition of Symbols and Notes

In this manual, the following words and symbols denote possible danger.



Danger

This Symbol stands for immediate danger threatening the life and health of persons. Disregarding these instructions may cause severe damage to health and even serious injury.












Caution

This symbol stands for an endangering situation that may occur. Disregarding these instructions may lead to minor injury or damage to property.



Note

This symbol stands for notes, operational hints, and other useful information. They are convenient for exploiting the machine's functional abilities.

 Danger	
 <p>Do not place receptacles containing water on the machine. If water is spilled, it may cause fire or an electrical shock.</p> <p>禁止</p>	 <p>Do not put any foreign object, such as metal, or inflammable thing inside the machine. It may cause fire or an electrical shock.</p> <p>禁止</p>
 <p>Do not touch any revolving part of the machine with a hand, or reach a hand into the machine. It may cause a bodily injury.</p> <p>接触禁止</p>	 <p>Do not remove the machine cover, back cover, etc. There are parts with very high in voltage that may cause an electrical shock.</p> <p>分解禁止</p>
 <p>Do not dismantle, remodel, or repair the machine. It may cause fire, electrical shock, or bodily injury. If repair is required, contact your dealer.</p> <p>分解禁止</p>	 <p>Do not use any other voltage than AC100V or 115V or 220-240V depends on area. Doing so could cause fire or an electrical shock.</p> <p>禁止</p>
 <p>Do not put the machine close to heating equipment. The machine cover or the coating of power code melts and it may fire or an electric shock.</p> <p>禁止</p>	 <p>Do not use inflammable spray inside or near the machine for cleaning or the like. As gas, which fills the interior, it may ignite and cause a fire or explosion.</p> <p>禁止</p>



Danger



強制

Apply the power supply of AC100V or 115V, and 220-240V independently use the wall outlet with a rated current of 15A.

If the outlet is used concurrently with other equipment, the branched part of the outlet could overheat and cause fire.



強制

If dust is prongs or prong fitting part of the power plug, wipe the dust off with a dry cloth. It may cause fire.



電源プラグを抜く

Should any foreign substance, such as metal, water, etc., get inside the machine, be sure to turn off the power first, and then disconnect the power plug from the outlet.

If the machine is used as it is, it may cause fire or an electrical shock. Contact your dealer immediately.



禁止

Do not do anything that may damage the power cord or power plug.
(Do not scratch, process, forcibly bend, twist, or pull it, or place heavy object on it, or bundle it.)

Doing so could cause a fire or an electrical shock.



強制

When disconnecting the power plug from the outlet, be sure to grip the plug itself.

Pulling the power cord may damage the cord, which could cause a fire or an electrical shock.



禁止

Do not unplug the power plug with wet hands. It may cause an electrical shock.



電源プラグを抜く

Be sure to turn off the power first and pull the power plug from the outlet when cleaning the machine.

The machine may be operated by mistake, causing a bodily injury.



アース線接続

Be sure to connect a ground wire.

If an electric leak occurs, it may cause fire or an electrical shock.



Caution



電源プラグを抜く

When the collator will not be used for several days, such as during consecutive holidays, etc., be sure to unplug the power cord from the outlet for safety's sake.

Due to deteriorated insulation, it may cause an electric fire.



強制

Place the machine on a level and stable table or floor with enough space, otherwise the machine may fall, which could result in bodily injury.



禁止

Do not place the machine in a humid place or where it could get wet.

Doing so could cause the insulation to deteriorate and cause an electrical shock or fire.







電源プラグを抜く





Be sure to remove the power plug from the outlet when moving the machine, otherwise it may damage the cord, causing fire or an injury.

The precautions described below are intended to prevent danger or injury to the user and other personnel through safe, correct use of the product. Use the product only after carefully reading and fully understanding these instructions.

Description of graphic symbols

	Indicates "prohibited" actions that must not be performed.		Indicates "compulsory" actions that must be performed.
---	--	---	--

 Warning Handling the product without observing the instructions that accompany a "Warning" symbol may result in serious injury or death.	
<div style="text-align: center;"></div> <ul style="list-style-type: none"> Do not use the product in explosive or corrosive environments, in the presence of flammable gases, locations subjected to splashing water, or near combustibles. Doing so may result in fire, electric shock, or injury. Do not transport, install, connect or inspect the product while the power is supplied. Always turn the power off before carrying out these operations. Failure to do so may result in electric shock. The terminals on the speed controller front panel marked with  symbol indicate the presence of high voltage. Do not touch the CN1 and CN2 while the power is ON. Doing so may result in fire or electric shock. Do not forcibly bend, pull or pinch the cable. Doing so may cause fire or electric shock. Do not touch the connector of the speed controller immediately after the power is turned off (for a period of 1 minute). The residual voltage may cause electric shock. Do not disassemble or modify the motor and speed controller. This may cause electric shock or injury. 	<div style="text-align: center;"></div> <ul style="list-style-type: none"> Only qualified and educated personnel should be allowed to perform installation, connection, operation and inspection/troubleshooting of the product. Handling by unqualified and uneducated personnel may result in fire, electric shock, or injury. The motor is Class I equipment. When installing the motor, ground the Protective Earth Terminal of the motor. Failure to do so may result in electric shock. Install the motor and speed controller in an enclosure. Failure to do so may result in electric shock or injury. Observe the rated range for the the AC power supply voltage to input to the speed controller. Failure to do so may result in fire or damage to equipment. Securely connect in accordance with the section for connection. Failure to do so may result in fire or electric shock. Be sure to observe the specified cable sizes. Use of unspecified cable sizes may result in fire.

 Caution Handling the product without observing the instructions that accompany a "Caution" symbol may result in injury or property damage.	
<div style="text-align: center;"></div> <ul style="list-style-type: none"> Do not use the motor and speed controller beyond their specifications. Doing so may result in electric shock, injury or damage to equipment. Do not carry the motor by holding the motor output shaft or motor cable. Doing so may result in injury. Keep the area around the motor and speed controller free of combustible materials. Failure to do so may result in fire or a skin burn(s). Do not leave anything around the motor and speed controller that would obstruct ventilation. Doing so may result in damage to equipment. Do not wire the electromagnetic contactor or power relay between the motor and speed controller. To switch the rotation direction using the electromagnetic contactor may cause damage to equipment. Do not touch the rotating part (output shaft) while operating the motor. Doing so may result in injury. If an alarm of the speed controller is generated, first remove the cause and then reset the alarm. Failure to do so may result in injury or damage to equipment. Do not use the product in elevating applications (vertical drives). Doing so may result in injury or damage to equipment. Securely install the motor and speed controller to their respective mounting plates. Inappropriate installation may cause the motor and speed controller to detach and fall, resulting in injury or equipment damage. 	<div style="text-align: center;"></div> <ul style="list-style-type: none"> Use a motor and speed controller only in the specified combination. An incorrect combination may cause a fire. Provide an emergency stop device or emergency stop circuit external to the equipment so that the entire equipment will operate safely in the event of a system failure or malfunction. Failure to do so may result in injury. Be sure to ground the product to prevent it from being damaged by static electricity. Failure to do so may result in damage to equipment. Immediately when trouble has occurred, stop running and turn off the speed controller power. Failure to do so may result in fire, electrical shock or injury. The motor surface temperature may exceed 70 °C (158 °F) even under normal operating conditions. If the operator is allowed to approach a running motor, attach a warning label as shown in the figure in a conspicuous position. Failure to do so may result in skin burn(s). Conduct the insulation resistance measurement or dielectric strength test separately on the motor and speed controller. Conducting while the motor and speed controller are connected may result in damage to equipment. To dispose of the motor and speed controller, disassemble it into parts and components as much as possible and dispose of individual parts/components as industrial waste. <div style="text-align: right;">  Warning label </div>

2. Precautions before Use

2-1. Power Supply

Use the designated voltages specified in the serial plate so as to assure operations under constantly stable conditions.

As for the power plug, insert it directly into the wall outlet.

2-2. Environment for Use

Use this machine under the following environment.

- A place not exposed to direct sunlight.
- A place where there is little dust and dirt.
- A place where there is little vibration.
- A place where there is little salt.
- A place where there are no special chemicals.

2-3. Conditions for storage

Keep this machine in storage under the following environment.

- A place not exposed to direct sunlight.
- A place where there is little dust and dirt.
- A place where there is little vibration.
- A place where there is little salt.
- A place where there are no special chemicals.

2-4. Maintenance

In order to maintain proper performance of the product, do not lubricate part of the machine or apply grease to it (except where otherwise noted in this manual).

If any abnormality is found, contact your dealer.

3. WEEE information (for Europe)



Disposal of Old Electrical & Electronic Equipment

This symbol (the symbol of the crossed out wheeled bin) indicates that in European countries this product should not be disposed of as household waste.

Please recycle where facilities exist by checking with your local authority or supplier for recycling advice.

By ensuring this product is disposed of correctly through proper treatment, recovery and recycling, you will help prevent potential negative effects on the environment and human health.

En



Entsorgung von alten elektrischen und elektronischen Ausrüstungsteilen

Dieses Symbol (das Symbol mit dem durchgekreuzten fahrbaren Müllbehälter) zeigt an, dass dieses Produkt in europäischen Ländern nicht als Haushaltsmüll entsorgt werden darf. Bitte informieren Sie sich bei Ihren örtlichen Behörden oder bei Ihrem Händler hinsichtlich einer Empfehlung für die Entsorgung und führen Sie die betreffenden Teile dort, wo solche Einrichtungen vorhanden sind, einem Recycling-Prozess zu.

Indem sie sicherstellen, dass das betreffende Produkt durch richtige Behandlung, Rückführung und Recycling entsorgt wird, tragen Sie dazu bei, möglichen negativen Auswirkungen auf die Umwelt und die menschliche Gesundheit vorzubeugen.

Ge



Elimination du matériel électronique et électrique usagé

Ce symbole (une poubelle marquée d'une croix) indique que dans les pays européens, ce produit ne doit pas être éliminé comme des ordures ménagères.

Recyclez-le dans les sites adaptés qui vous seront indiqués par les autorités locales ou renseignez-vous auprès de votre fournisseur.

En veillant à ce que ce produit soit éliminé correctement avec un traitement, une collecte et un recyclage adaptés, vous contribuez à éviter son action nocive potentielle sur l'environnement et la santé humaine.

Fr



Smaltimento di attrezzature elettriche ed elettroniche consumate

Questo simbolo (il simbolo della pattumiera con rotelle barrata) indica che nei paesi europei questo prodotto non deve essere buttato nei rifiuti domestici.

Per favore smaltire in luogo adetto al riciclo, dove esistente, chiedendo informazioni alle autorità locali o a chi fornisce consulenza a proposito.

Garantendo uno smaltimento adeguato di questo prodotto (trattamento, recupero e riciclo corretto), aiuterete a prevenire effetti negativi sull'ambiente e sulla salute dell'uomo.

It



Eliminación de residuos de aparatos eléctricos y electrónicos

Este símbolo (un cubo de basura tachado) indica que en los países europeos este producto no deberá eliminarse como si se tratara de un residuo doméstico. Solicite asesoramiento sobre reciclaje a las autoridades locales o a su distribuidor, y siga la normativa en materia de gestión medioambiental y reciclaje de este tipo de residuos.

Si toma las medidas pertinentes para que este producto se elimine mediante un tratamiento, recuperación y reciclaje adecuados, contribuirá a evitar posibles efectos negativos en el medio ambiente y la salud humana.

Sp

As a minimum the following substances, preparations and components have to be removed from any separately collected WEEE (Waste Electrical and Electronic Equipment).

In this parts catalog, these WEEE symbols are appended to corresponding parts in the parts list.

WEEE Symbol	Meaning
Battery	Batteries
PCBA	PCB's over 10 square centimeters in size.
Bromides	Plastics containing bromides.
LCD	LCD displays
Cables	Electric cables

In consideration of separate collection, plastics are subdivided into the following categories.

In this parts catalog, these abbreviations are appended to corresponding parts in the parts list.

If the material contains bromides, the abbreviation is postfixed with an asterisk (*).

Example: ABS* acrylonitrile-butadiene styrene plastic (containing bromides)

Abbreviation	Category
ABS	acrylonitrile-butadiene styrene plastic
AS	acrylonitrile-styrene
BR	butadiene rubber
CR	chloroprene rubber
EPDM	ethylene propylene rubber
GF	glass fiber
MMA	methyl methacrylate
NBR	nitrile rubber
NR	natural rubber
PA	polyamide
PA6	polyamide6
PA66	polyamide66
PBT	poly (butylene terephthalate)
PC	polycarbonate
PE	polyethylene
PET	poly (ethylene terephthalate)
PF	phenol-formaldehyde resin
PMMA	polymethylmethacrylate
POM	poly (oxymethylene); polyacetal;
PP	polypropylene
PPE	poly (phenylene ether)
PPOX	poly (propylene oxide)
PPS	polyphenilen sulfide
PTFE	polyterafluoroethylene
PUR	polyurethane
PVC	poly (vinyl chloride)
SBR	styrene butadiene rubber
U	urethane rubber
VMQ	silicon rubber

Electrical parts

Electrical parts are indicated with "symbol + number (two or three digits)" in this manual. When only one part exists in a category, the part is indicated only by a symbol without a number.

Type		Symbol	Comment
Brake		BRK	When a clutch and brake are integrated, "CL/BRK" is used.
Clutch		CL	
Counter		CNT	
Motor	Motor	M	
	Fan motor	FM	
Solenoid		SL	
Sensor	Photo sensor	PS	For a discrete photo sensor, "e" (emitter) or "r" (receiver) is added at the end.
	Thermistor	TM	
	Other sensors	S	Sensors with a particular function
Switch	Power switch	PSW	
	Safety switch	SSW	
	Other switches	SW	
Board	Board	PCB	
Battery		BAT	
Others	Circuit breaker	CB	
	Fuse	F	
	Heater	H	
	Inverter	INV	
	Lamp	LMP	"LED" is used for LED itself and other LEDs on a board.
	Noise filter	NF	
	Resistor	R	A resistor not mounted on the board.
	Relay	RL	
	Transformer	T	
	Temperature fuse	TH	
	Resistor	R	

Environment Consideration

1. Recovery of products

Recover/disassemble and recycle or dispose products which are no longer required in accordance with the regulations of respective countries and regions.

2. Recovery of consumables/parts

Recover/disassemble and recycle or dispose consumables/parts which are no longer required in accordance with the regulations of respective countries and regions.

Handle the following parts with particular care as they are subject to restrictions in the respective countries or are difficult to sort by material (complex material).

- Battery
- LCD
- Boards
- Power cords, I/F cables, other cables such as bound – wires, etc.
- Electrical parts such as sensors, switches, motors, clutches, solenoids, etc.



Note: This symbol mark is for EU countries only.

This symbol mark is according to the directive 2006/66/EC Article 20 information for end-users and annex II. This symbol means that batteries and accumulators, at their end-of-life, should be disposed of separately from your household waste.

If a chemical symbol is printed beneath the symbol shown above, this chemical symbol means that the battery or accumulator contains a heavy metal at a certain concentration. This will be indicated as follows:

Hg: mercury (0.0005%), Cd: cadmium (0.002%), Pb: lead (0.004%)

In the European Union there are separate collection systems for used batteries and accumulators. Please, dispose of batteries and accumulators correctly at your local community waste collection/recycling center.

3. Abbreviations

In this manual, each destination is written in an abbreviated form as follows.

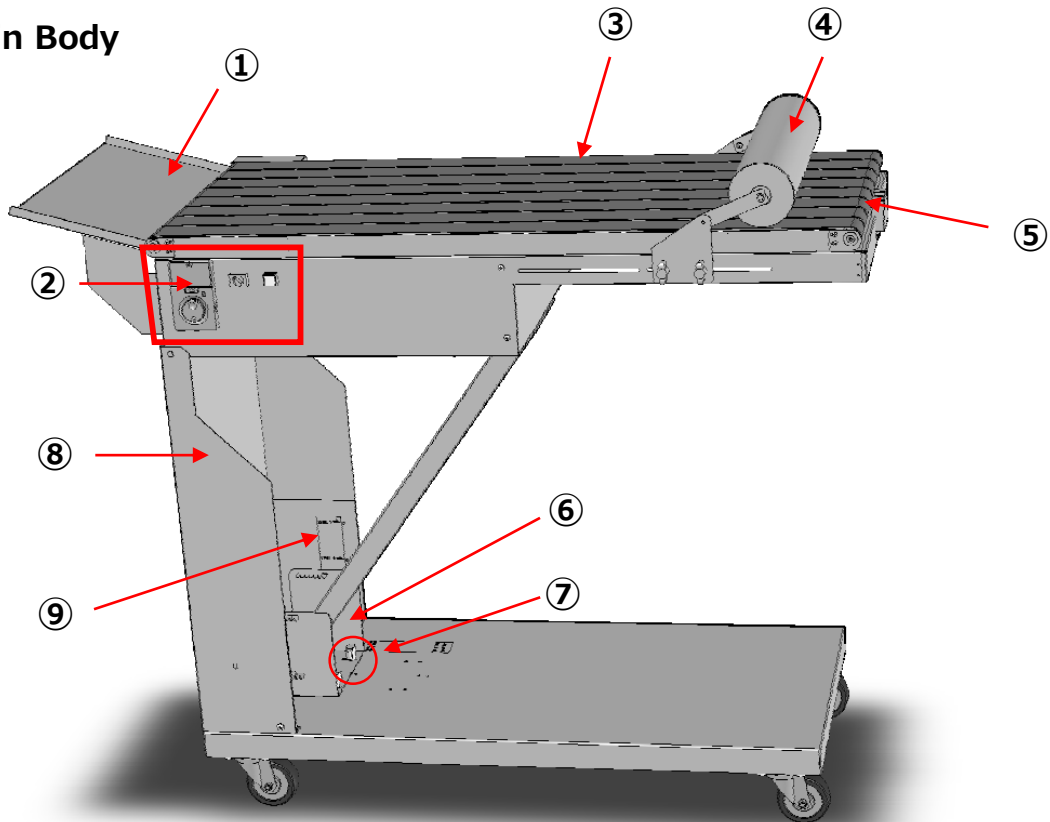
JPN: JPN is an abbreviation for Japan.

NA: NA is an abbreviation for North America

EU: EU is an abbreviation for European Union.

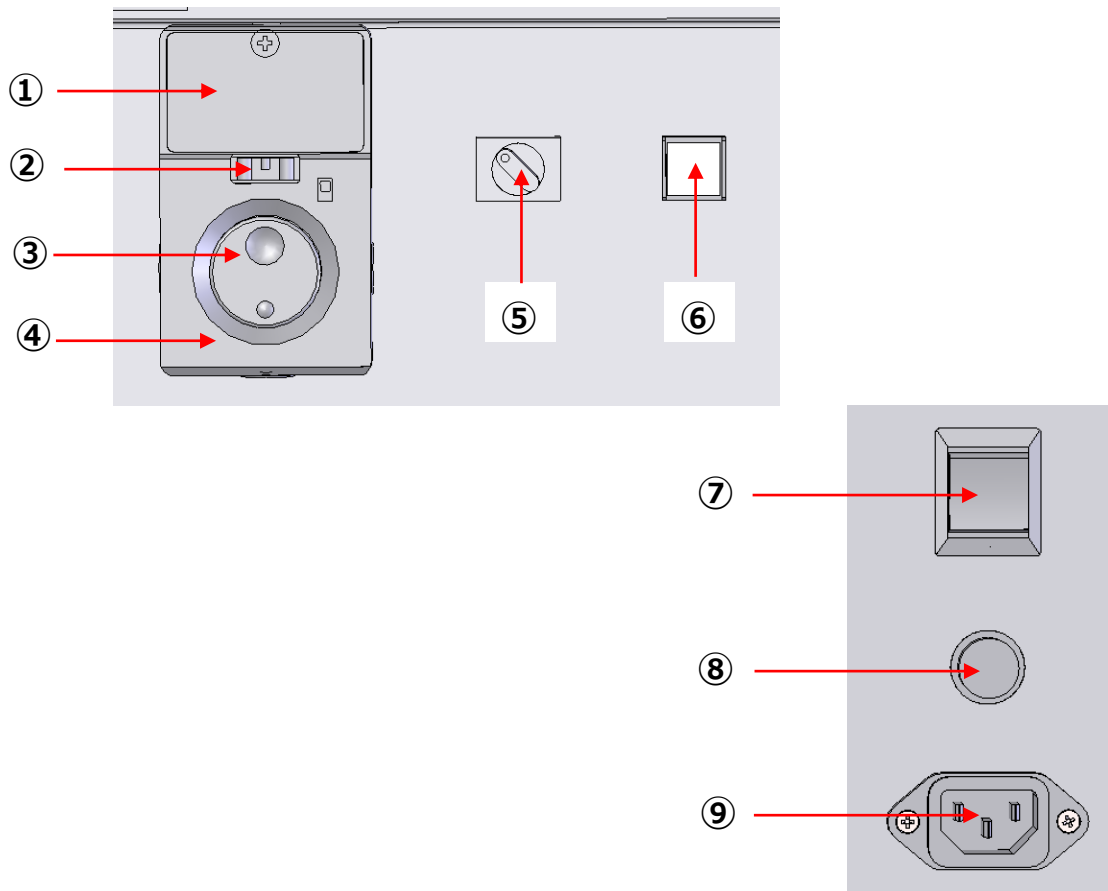
4. Parts Name

1. Main Body



No.	Name	Function
①	Output Tray	Catch the processed pieces.
②	Control Panel	Control the conveyer. Ref. "2. Control Panel" page.
③	Feeding Belt(s)	Feeding the pieces.
④	Work Press Roller	Catch and press the cut pieces. Adjustable the position by side slide depending on the piece size.
⑤	Reflected Sensor	The sensor reacts when the sheet comes.
⑥	Conveyer Stay Height Adjustment	Adjustable the position of belt height. [recommended height for UD-300 : 860~890mm]
⑦	Fixing Knob(s)	Fix these knobs after adjust the belt height.
⑧	Conveyer Flame 1D	
⑨	Conveyer Flame 2D	

2. Control Panel



No.	Name	Function
①	Display	Display the speed and error code.
②	Operation Switch	Control the speed. "Stand-by/RUN" Stand-by: change to this position when you stop to operate the machine. RUN: change to this position when you operate the machine.
③	Setting Dial	Adjust the feeding speed.
④	Front Panel	Possible to open when maintenance. ● Do not open by customers. Serviceman can open this.
⑤	Selection Switch	Left: Continuous run. Right: Limitation run by sensor. (Belts turn for constant amount when the sensor detects the work) ● Constant amount = depending on motor speed.
⑥	Operation Switch	Belts turns as maximum speed during this switch is on.
⑦	Power Switch	Main power switch. Please turn off when finished the operation.
⑧	Fuse Holder	Glass Fuse is inside.
⑨	Inlet	Insert the power cord.

5. Adjustment

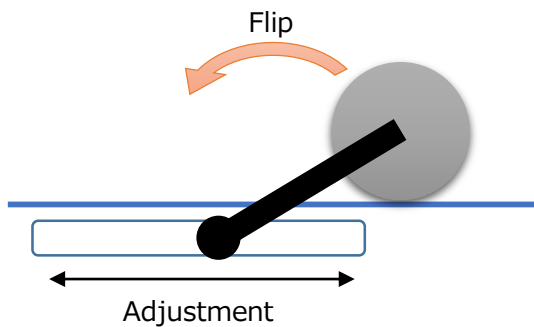
1. Speed:

Depending on the finished size of the media, slow down the speed for short media and speed up for longer media. (Ref. "6. Operation")

- The machine standby when turn on the Power Switch.
Switch to "RUN" position when you operate the conveyer.
Switch to "Stand-by" position when you stop to operate.
Turn "OFF" of Power Switch when you finish to operate.

2. Work Press Roller:

Move the Work Press Roller toward upstream machine for smaller size media and away for longer size paper. Work Press Roller can be flip to accommodate significant size changes also.

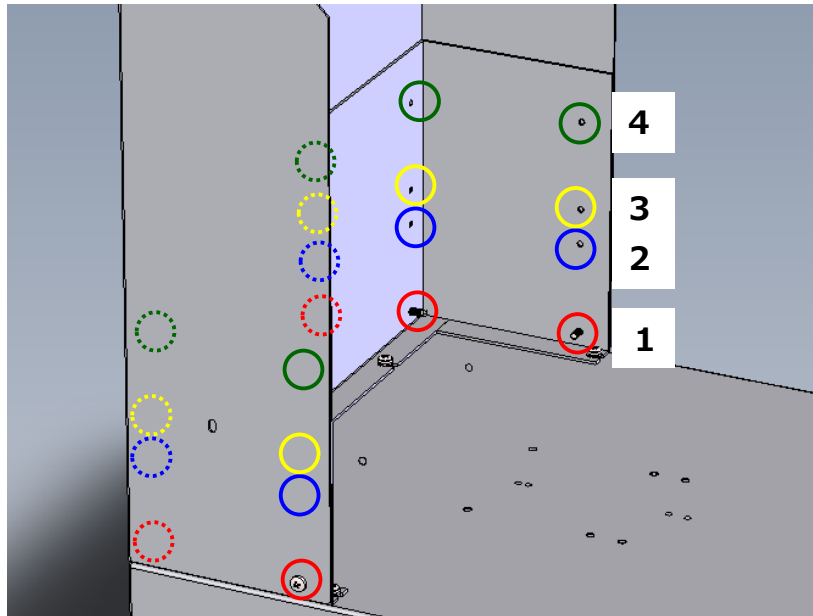


3. Height:

Use recommended height to achieve optimum performance. The height is measured from floor to the conveyer bed.

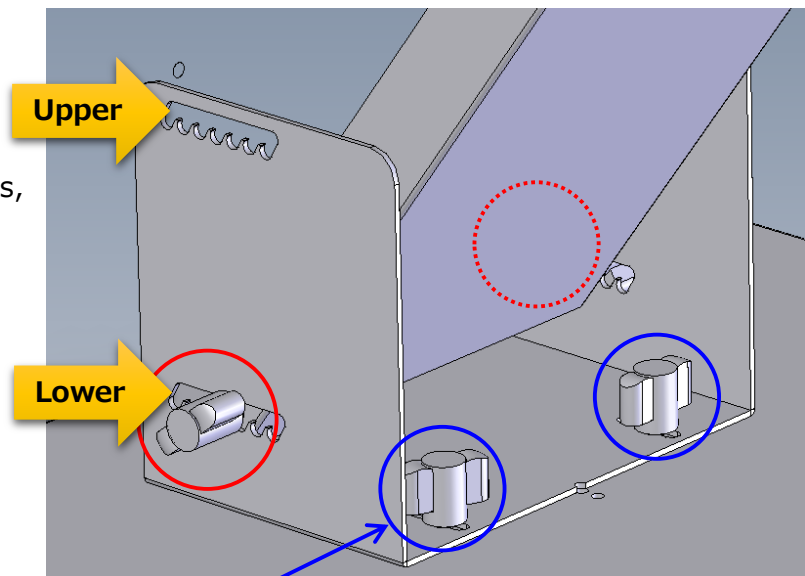
- (1) Change the fixing position of Conveyor Flame 1D/2D when change the height. (Total 4 levels)

- 1 Red : UD-300
- 2 Blue : Duplo DC series
- 3 Yellow : UV Coater
- 4 Green : Multigraph



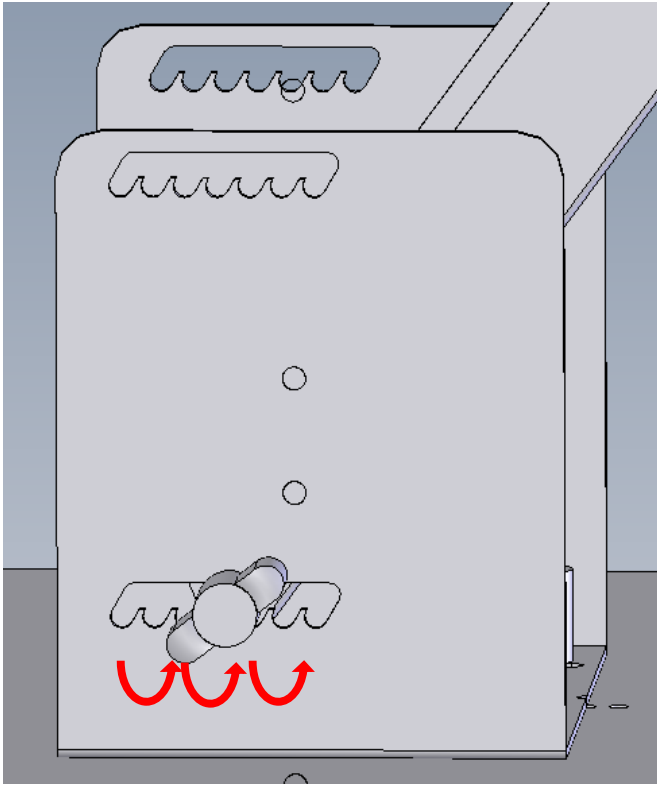
- (2) Choose the Slot position depending on Flame height.

Remove Knobs on both sides, and choose the position. Fix by Knobs on both sides.



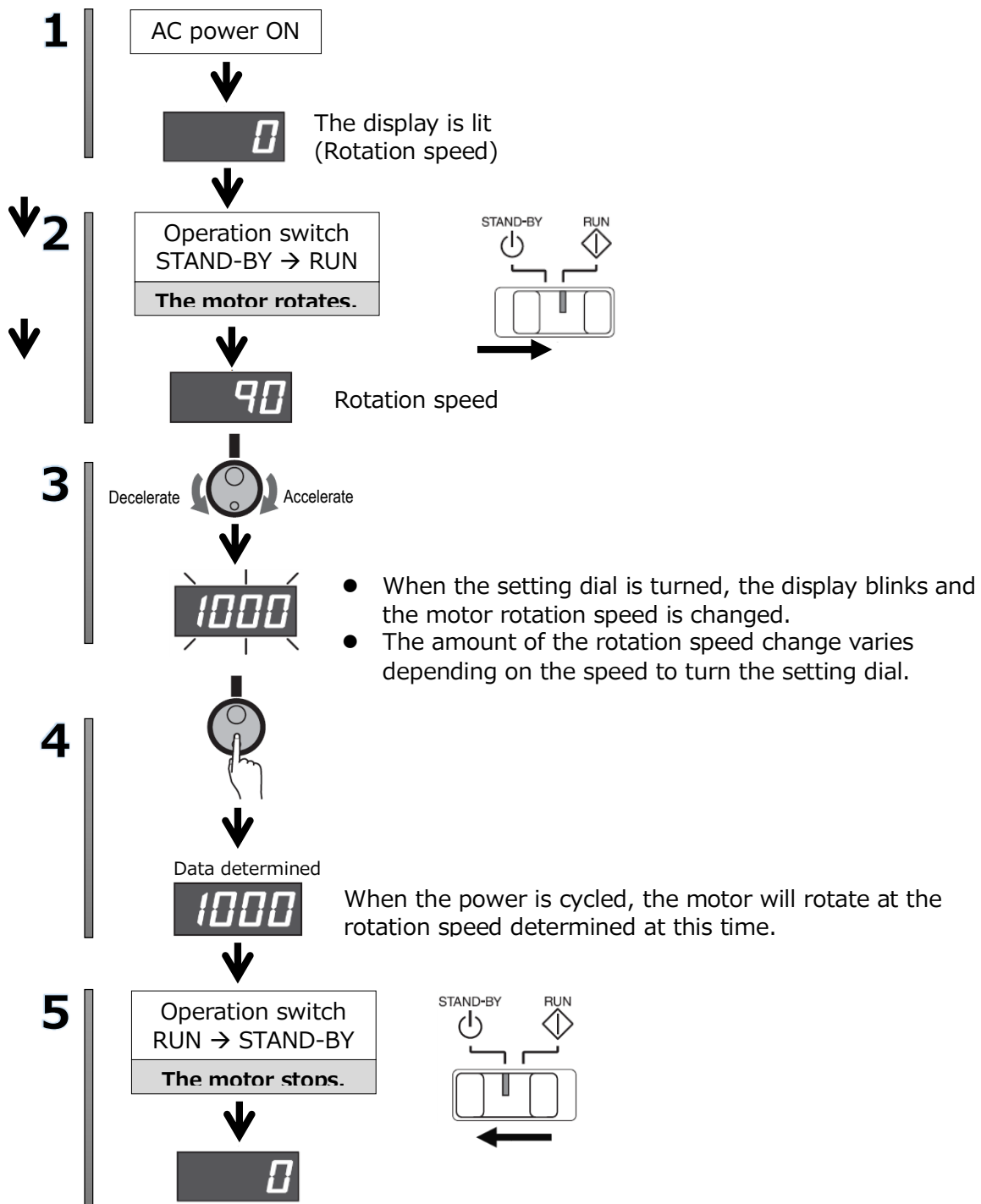
- (3) Fine adjust by long screw holes of the Fixing Knob on the Base Plate.

(4) Hold up the conveyer head change the position as below. (total 10 positions)



(5) Fix the 2 knobs when decide the position.

6. Operation



7. Troubleshooting

Conveyer does not rotate.	The operation switch on the speed controller is set to the "STAND-BY" side. ▷ Set the operation switch to the "RUN" side.
	The voltage is being dropped. ▷ Apply the voltage within the specification range.
Conveyer rotates in the direction opposite.	The rotation direction switch is set to the opposite side. ▷ Check the rotation direction switch. (Please do not change here at customer site)
Conveyer does not start instantaneously.	The acceleration time is too long. ▷ Adjust the acceleration time.
	Load inertia may be excessive. ▷ Reduce the load inertia.

During motor operation, the motor speed controller may fail to function properly due to an improper rotation speed setting. When the motor cannot be operated correctly, refer to the contents provided in this chapter and take appropriate action.

If the problem persists, contact your dealer.

NOTE

Power OFF when you check the driven parts.

Certain items must be checked with the power on. Perform inspections carefully not to touch the live part such as connection part of the motor and speed controller.

8. Specifications

Product name	Multi Conveyer
Model	UCV-300
Speed	[50Hz: 90~1,400r/min] or [60Hz: 90~1,600r/min]
Functions	Speed adjust / Control by sensor / Fast-foward
Dimension	640(W) x 1150(D) x 1110(H) mm * without Output Tray
Mass (Weight)	45 kg
Power supply	120VAC/50-60HZ or 230V/50-60HZ
Usage environment	IPX0 [Non protected for water: No use at the place near the water] At an altitude below 1,000 meters No use at the place in dust. 5 degrees C ~ 35 degrees C (non-freezing) 20%RH ~ 70% RH (non-condensing)
Storage environment	-10 degrees C ~ 50 degrees C (non-freezing) 10%RH ~ 85% RH (non-condensing)

- Specifications and appearance are subject to change without prior notice due to continual improvements.