

# Kebab system OPERATION MANUAL

# TABLE OF CONTENS

Foreword	2
DISCLAIMER OF WARRANTY	
Requests	2
Interference to televisions and radios	
For safe operation	3
Symbols	
Configuration and Function	9
Front	9
Rear	9
Usable works	10
Attach Kebab system	11
Attach Kebab system	
Remove Kebab system	
Set a work	16
Use the work holder	18
Remove the work holder	
Use the origin mark detection	22
Set the origin mark detection	
Use the origin mark	23
When not using the Origin mark sensor	24
Responding to "ERROR 524 WORK ORIGN MARK"	. 25
Set the start position of drawing	
Create data to be drawn	27
Measure the work size	27
Test drawing	28
When you attach Kebab system on UJF-3042HG / UJF-6042 table	28
When you attach Kebab system on absorption table	. 29
Enable Kebab printing	30
Drawing an image from source data	31
Starting the drawing operation	31
Interruption of drawing	33
Maintenance	38
Cleaning the roller shafts	38
Cleaning the Origin mark sensor	39
Specifications	40

## MIMAKI ENGINEERING CO., LTD.

URL: http://eng.mimaki.co.jp/



Thank you very much for purchasing Kebab system this time.

Kebab system is a dedicated system to print any design you like on cylindrical work. Fully read this manual and make use of it in drawing to suit the customer's needs.

(Important!)

 Kebab system is an option of UJF-3042HG / UJF-6042. Fully read the instruction manual of UJF-3042HG / UJF-6042 together with this manual.

### **DISCLAIMER OF WARRANTY**

THIS LIMITED WARRANTY OF MIMAKI SHALL BE THE SOLE AND EXCLUSIVE WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS, AND MIMAKI NEITHER ASSUMES NOR AUTHORIZES DEALER TO ASSUME FOR IT ANY OTHER OBLIGATION OR LIABILITY OR MAKE ANY OTHER WARRANTY OR MAKE ANY OTHER WARRANTY IN CONNECTION WITH ANY PRODUCT WITH-OUT MIMAKI'S PRIOR WRITTEN CONSENT.

IN NO EVENT SHALL MIMAKI BE LIABLE FOR SPECIAL, INCIDNETAL OR CONSEQUENTIAL DAMAGES OR FOR LOSS OF PROFITS OF DEALER OR CUSTOMERS OF ANY PRODUCT.

### Requests

- This Operation Manual has been carefully prepared for your easy understanding, however, please do not hesitate to contact a distributor in your district or our office if you have any inquiry.
- Description contained in this Operation Manual are subject to change without notice for improvement.

### Interference to televisions and radios

The product described in this manual generates low radio waves while it is in operation. The product can interfere with radios and televisions if set up or commissioned under improper conditions. The product is not guaranteed against any damage to specific-purpose radios and televisions.

The product's interference with your radio or television will be checked by turning on/off the power switch of the product.

In the event that the product is the cause of interference, try to eliminate it by taking one of the following corrective measures or taking some of them in combination.

- Change the direction of the receiving antenna or the feeder of your radio/television.
- Move the receiver away from the product.
- Plug the power cord of this machine into an outlet which is isolated from power circuits connected to the television set or radio.

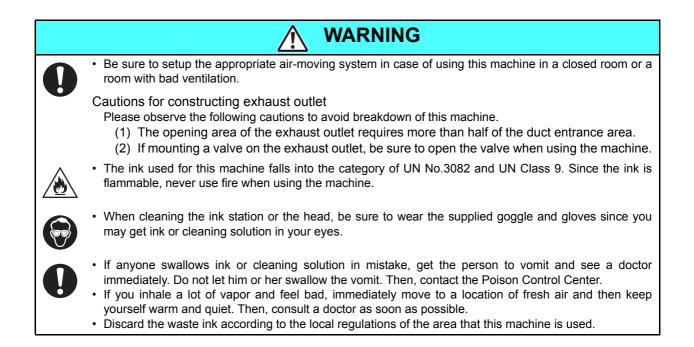
# For safe operation

## Symbols

Symbols are used in this Operation Manual for safe operation and for prevention of damage to the machine. The indicated sign is different depending on the content of caution.

Symbols and their meanings are given below. Please follow these instructions as you read this manual.

Warning	Failure to observe the instructions given with this symbol can result in death or serious injuries to personnel. Be sure to read it carefully and use it properly.
Caution	Failure to observe the instructions given with this symbol can result in injuries to personnel or damage to property.
(Important!)	Important notes in use of this machine are given with this symbol. Understand the notes thoroughly to operate the machine properly.
<b>I</b>	Useful information is given with this symbol. Refer to the information to operate the machine properly.
(AFF	Indicates the reference page for related contents.
Â	The symbol " $\triangle$ " indicates that the instructions must be observed as strictly as the CAU- TION instructions (including DANGER and WARNING instructions). A sign representing a precaution (the sign shown at left warns of hazardous voltage) is shown in the triangle.
	The symbol "〇" indicates that the action shown is prohibited. A sign representing a pro- hibited action (the sign shown at left prohibits disassembly) is shown in or around the circle.
8-5	The symbol " " indicates that the action shown must be taken without fail or the instruc- tions must be observed without fail. A sign representing a particular instruction (the sign shown at left instructs to unplug the cable from the wall outlet) is shown in the circle.



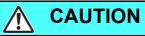
### Never do the following

<b>WARNING</b>		
Do not disassemble or remodel the machine	Handling of ink cartridges	
<ul> <li>Never disassemble or remodel this machine and the ink cartridge. Disassembling or remodeling any of them will result in electric shocks or breakdown of this machine.</li> <li>Do not use this machine in damp places</li> </ul>	<ul> <li>Some of the ingredients (UV Curing initiator) have toxic consequences to aquatic life. Avoid leak into water system or sewage containing water.</li> <li>Store ink cartridges and waste ink tank in a place that is out of the reach of children.</li> </ul>	
• Avoid damp environment to use this	• If ink settles on the skin or clothes,	
Avoid damp environment to use this machine. Do not splash water onto this machine. High humidity or water will give rise to fire, electric shocks or breakdown of this machine.	immediately wash it off with detergent or water. If you get ink in your eyes, immediately wash your eyes with a lot of clean water, and then consult a doctor as soon as possible.	
Abnormal event occurs		
• If the machine is used under an abnormal	Wearing protective devices	
condition where the machine produces smoke or unpleasant smell, fire or electric shocks can result. Be sure to turn off the power switch immediately and detach the plug from the receptacle. Check first to be sure that the machine no longer produces smoke, and contact a distributor in your	• When cleaning the suction nozzle, which may scatter ink, be sure to wear safety glasses and gloves, or ink and cleaning solution might enter your eyes or ink and cleaning solution put on your hands might make your hands rough.	
district for repair.	Handling of the power cable	
<ul> <li>Never repair your machine by yourself since it is very dangerous for you to do so.</li> </ul>	<ul> <li>Use a power cable attached to this machine.</li> <li>Take care not to damage, break or work on the power cable. If a heavy things are put on the power cable, heated or drawn, the power cable can break to cause fire or electric shocks.</li> </ul>	

	WARNING			
Power	supply and voltage			
	<ul> <li>Use this machine with indicated power specifications.</li> <li>Be sure to connect the power cable plug to the grounded outlet, or it may cause fire or electric shock.</li> </ul>			
	<ul> <li>Never look at the LED UV being lit with your naked eyes, or it may cause pain in your eyes or visual impairment. Be sure to wear safety glasses.</li> <li>Do not apply ultraviolet (UV) light directly to your skin, or it may cause irritation on your skin.</li> </ul>			
0	<ul> <li>To prevent electrical shock, be sure to set OFF the main power circuit breaker and disconnect the power plug before carrying out maintenance. For some units, capacitors may take one minute for discharging; therefore, start maintenance work three minutes after setting OFF the main power circuit breaker and disconnecting the power plug.</li> <li>If LED UV has been damaged, you should replace the LED UV that has reached or has past its rating life.</li> </ul>			
$\bigcirc$	<ul><li>The main power circuit breaker should be set ON only by personnel with sufficient knowledge about operations of this machine.</li><li>Do not touch the lamp with bare hands while lighting or right after the lamp off to avoid from burn injury.</li></ul>			
Handli	ng of LED UV			
0	<ul> <li>Do not use the LED UV in an ambience with a possibility of catching fire (gasoline, combustible gas spray, thinner, lacquer, powder dust, etc.). In addition, do not put paper or cloth near or on the LED UV, or it may cause fire, or it may cause electrical shock.</li> </ul>			
Handli	ng of the antifreeze liquid			
0	<ul> <li>Use the exclusive antifreeze liquid, or the cooling device may be damaged.</li> <li>If the antifreeze liquid or mixed soft water with antifreeze liquid gets on the skin or clothes, immediately wash it off with soap.</li> <li>If you get the antifreeze liquid in your eyes, immediately wash your eyes with a lot of clean water. Then, consult a doctor as soon as possible.</li> <li>Before using the antifreeze liquid, be sure to read the Material Safety Data Sheet (MSDS).</li> <li>If you swallowed the antifreeze liquid accidentally, try to get to vomit, and then consult a doctor as soon as possible.</li> <li>Discard the waste antifreeze liquid or used mixed soft water with antifreeze liquid as follows; Absorb in a sawdust or waste cloth, then incinerate it. Entrust to an industrial waste disposal contractor, clarifying their contents.</li> <li>Avoid causing ignition with static electricity, impact spark and so on.</li> <li>Be sure to wear goggles and gloves for handling the antifreeze liquid.</li> </ul>			

## Precautions for use

<u> </u>	AUTION	
Protection against dust	Periodic exchange parts	
• It is strongly recommended to use the machine in a room that is not dusty. Set the Refresh level 2 or 3 when in bad environment.	• There are some parts which must be periodically replaced. Contract with distributors or dealers for maintenance.	
<ul> <li>When leaving the work place after the working hours, be sure to remove media</li> </ul>	Adjusting the level	
<ul><li>from the printer.If any media is left on the printer, dust can put on it.</li><li>Store media not to put dust on it. Wiping dust</li></ul>	Keep this machine horizontal.	
off the media, dust will be put on the media due to static electricity.	Handling of cleaning solution	
<ul> <li>Due to the dust on the head, ink drops will fall down on the media during printing. If so, be sure to clean up the head. (APR Refer to the operation manual of UJF-3042HG / UJF-6042.)</li> </ul>	• Be sure to store the cleaning solution in a cold and dark place. Store the cleaning solution in a place that is out of the reach of children.	
Warning labels	Handling the antifreeze liquid	
• Warning labels are adhered on this machine. Be sure to fully understand the warnings given on the labels. In the case where any of the warning label has become so soiled that the warning message is illegible or has come off, purchase a new one from your local distributor or our office.	<ul> <li>Be sure to store the antifreeze liquid in a cold and dark place.</li> <li>Store the antifreeze liquid in a place that is out of the reach of children.</li> </ul>	
Ink cartridges		
<ul> <li>If the ink cartridge is moved from a cold place to a warm place, leave it in a place of use for three hours or more and use it.</li> <li>Open the ink cartridge just before installing. Leaving it open for a long time will cause abnormal printing.</li> <li>Be sure to store ink cartridges in a cold and dark place.</li> <li>Once the ink opened, be sure to use ink up early. The ink passed for a long time after opening the cartridge will lower the printing quality.</li> </ul>	<ul> <li>Using other than exclusive ink will break this machine. In this case, repairing of this machine is your responsibility.</li> <li>Never refill the ink cartridge with ink.</li> <li>Do not pound the ink cartridge nor shake it violently. If so, ink may leak out of the cartridge.</li> </ul>	
UV light	Hot parts	
• A little UV light spills around the LED UV unit. UV light applied to your skin might cause inflammation and/or skin cancer. Even weak UV light causing no inflammation may lead to chronic disorders by repeated exposure. Avoid applying UV light to your skin and eyes.	• The LED UV and the interior of the UV irradiation device will have a very high temperature. When carrying out maintenance, wait until the temperature has been sufficiently lowered after the lamp is turned OFF.	
• Impairment of eyes caused by UV light may be acute disorders, pain in eyes, tearing, chronic disorders, cataract, etc. When using this machine, protect your body such as gloves, long-sleeve cloth, light- resistant mask, attached light-resistant glasses, etc.	When it is unavoidable to touch hot parts, be sure to wear heat-insulating gloves to protect your hands.	



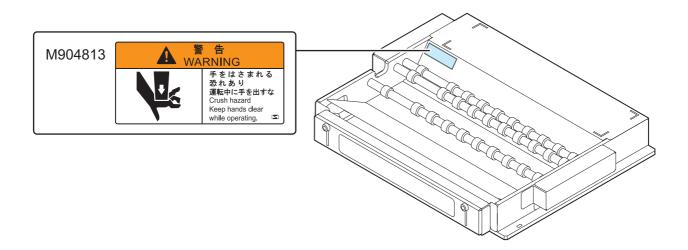
Notes	Notes on LED UV				
	<ul> <li>When handling the glass on the bottom of the LED UV unit, be sure to wear the gloves attached and never touch them with bare hands. Or the UV ink curing level may significantly lower. If the glass becomes dirty, wipe it with clean gauze moistened with alcohol. (Do not use alcohol for cleaning the exterior cover, or the paint will peel off.)</li> <li>The LED UV performance and service life are significantly affected by the UV irradiation and UV power supply units used. Never use those UV devices other than those recommended by Mimaki. We would take no responsibility for any troubles caused through the use of a UV devices not recommended by Mimaki.</li> </ul>				
Cleani	ing				
0	<ul> <li>After using this machine long time, foreign materials and dust may be gathered on the conductive and insulating parts, causing electric leakage. Periodically clean such parts.</li> <li>For cleaning, do not use compressed air because it scatters foreign materials and dust, which may cause malfunctions when put inside the conductive parts. Be sure to use vacuum cleaner to vacuum off foreign materials and dust.</li> <li>Do not use the machine in a place where there is a possibility of being wet, or electricity may leak.</li> <li>Electrical leakage may lead to electrical shock of personnel or fire.</li> <li>To prevent accidents, be sure to carry out periodic inspections and replace periodic replacement parts.</li> </ul>				
Firing	Firing and smoking				
	• Touching hot parts such as the LED UV with combustible materials may cause firing and/or smoking. Leaving combustible materials under the LED UV unit for a couple of minutes may also cause firing and/or smoking.				
	<ul> <li>After this machine is used long time, foreign materials or dust gathered may cause electrical leakage, or insulation deterioration may cause firing and/or smoking. Periodically clean this machine and replace the deteriorated parts after the insulation resistance.</li> <li>After this machine is used long time, screws or others on the conductive parts may be loosened, causing firing and/or smoking. Periodically tighten the screws.</li> <li>If abnormalities such as a strange odor, a smoking or a spark burn occurred, turn the power off and call our office immediately.</li> </ul>				

### **Precautions for installation**

CAUTION				
A place exposed to direct sunlight	A place that is not horizontal	A place where temperature and humidity varies significantly		
		•Use the machine under the following environment. Operating environment : 20 to 35 °C (68 to 95 °F) 35 to 65% (Rh)		
A place that vibrates	A place exposed to direct air blow from air conditioner, etc.	Around a place where fire is used		

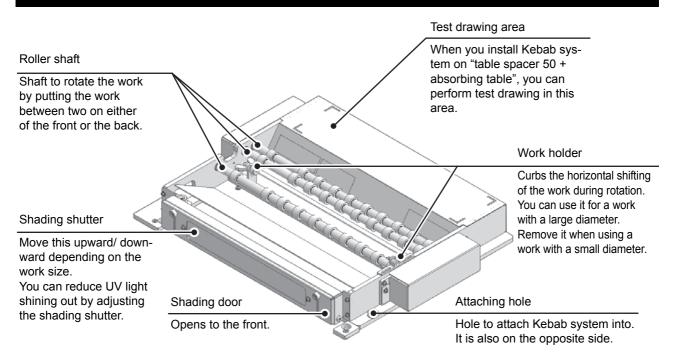
### Position of the warning label

Warning labels are adhered on Kebab system. Be sure to fully understand the warnings given on the labels. In the case where any of the warning label has become so soiled that the warning message is illegible or has come off, purchase a new one from your local distributor or our office.

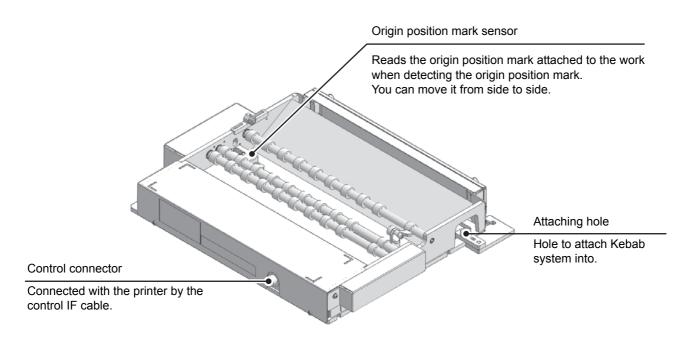


# **Configuration and Function**

### Front



### Rear



# Usable works

Shape		Cylinder	
Length	Minimum	30mm	
Lengui	Length Maximum 330mm		
Diameter	Minimum	10mm	
Diameter	Maximum	110mm	
Max. printing width		300mm	
Weight		3kg or less	

(Important!)

- The surface material, and unevenness, weight, etc. of the work may have an effect when drawing, such as by causing the drawing itself to deviate from its position and color irregularities when drawing by overprinting multiple times.
- Make sure you perform test printing beforehand to check if there is no problem with drawing.

SET OPTION JIG

· en t

COMPLETE

# **Attach Kebab system**

You can use kebab system by installing it on UJF-3042HG / UJF-6042. To use Kebab system, installation work of control IF cable etc. by our company's service engineer is required.



• The customer shall not perform the installation work of the control IF cable etc. Don't hesitate to ask our service engineer.

## Attach Kebab system

Attach Kebab system on the UJF-3042HG / UJF-6042 table or the table spacer 50. Depending on the diameter of the work to be drawn, attach Kebab system.

Press the (FUNCTION) key in the local mode of UJF-3042HG / UJF-6042.	FUNCTION WORK SET	< ENT

Press 
To select [SET OPTION JIG]. 
FUNCTION
SET OPTION JIG <ENT>

## Press the ENTER key.

• The table moves downward and the Y bar moves to the rear side.

• When you press the <u>ENTER</u> key, "COMPLETE [ent]" is displayed on the screen. Do not press the <u>ENTER</u> key until the work up to the Step 5 has been completed. If you press the <u>ENTER</u> key before the replacing work has been completed, UJF-3042HG / UJF-6042 starts Kebab system automatic recognition operation.

## When the Y bar stops, attach Kebab system.

- Attach Kebab system on UJF-3042HG / UJF-6042.
- For Kebab system, the table to be set differs depending on the diameter of the work to be drawn. Refer to the table below and attach Kebab system on the proper position.

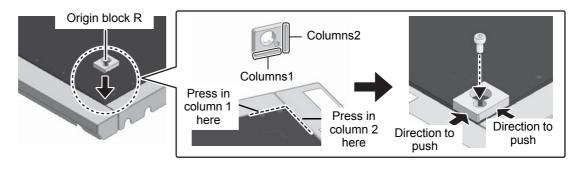
### Table for attaching Kebab system

Select the table to be attached depending on the diameter of the work to be drawn.

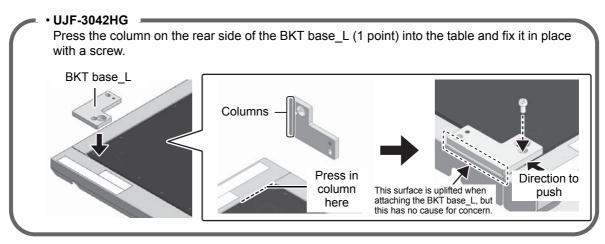
Diameter of work	Less than 64.3mm	More than 64.3mm
Position to attach	On table spacer 50	Table of UJF-3042HG / UJF- 6042

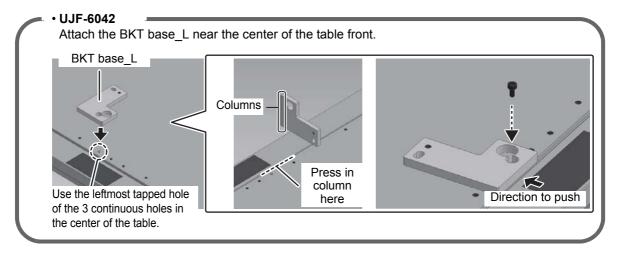
(1) Attach origin block R in the right corner of the nearest table side.

• Press the columns (1, 2) on the rear side of origin block R into the table and fix it in place with a screw.

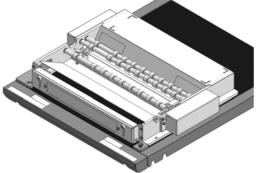


(2) Attach the BKT base\_L in the table.

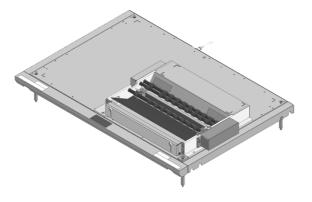




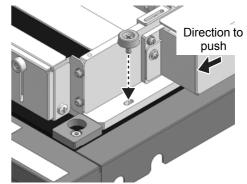
- (3) Place the Kebab system on the table.
  - UJF-3042HG



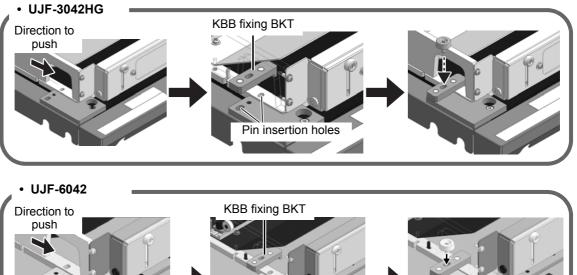
• UJF-6042 Place at the origin point on the right side.

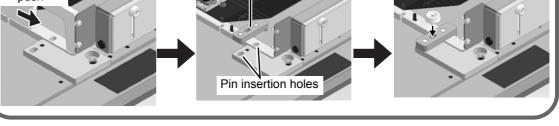


(4) Fix the Kebab system into place with a plastic knob screw while pressing it into the origin block side.



- (5) Fix the Kebab system into the BKT base\_L side.
  - $\bullet$  Gently press in the Kebab system to the BKT base\_L.
  - Insert the KBB fixing BKT pins into the holes on the Kebab system and the BKT base\_L.
  - Fix the KBB fixing BKT into place with a plastic knob screw while pressing it into the BKT base\_L .



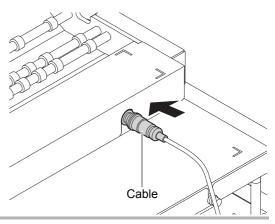


#### (Important!)

- The illustration in this manual is Kebab system on the table spacer 50. However, when you attach it on the UJF-3042HG / UJF-6042 table, attach in the same way.
- Check that there is no gap between Kebab system and the table.
- If there is gap, perform the procedures below: Lightly push Kebab system into from above. Check that there is no dust etc. on the UJF-3042HG / UJF-6042 table. Check that no dust adheres to the rear surface of Kebab system.

# **5** Insert the control IF cable into the connector on the rear surface of Kebab system.

• Surely insert the cable to prevent printer from coming off during the operation.



# 6 Press the ENTER key. Printer performs Kebab system automatic recognition operation.

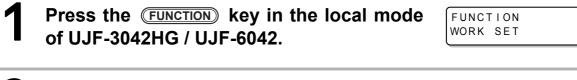
SET OPTION JIG Jig :Kebab

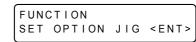
< E N T >

: en t

## Remove Kebab system

When you draw the work with different diameter from the one you drew until then, it may be required to remove Kebab system once and reattach it on the table depending on the diameter. When removing Kebab system, follow the procedures below:





SET OPTION JIG

COMPLETE

## Press the **ENTER** key.

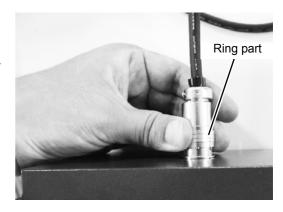
- The table moves downward and the Y bar moves to the rear side.
- When you press the <u>ENTER</u> key "COMPLETE [ent]" is displayed on the screen. Do not press the <u>ENTER</u> key until the work up to the Step 5 has been completed. If you press the <u>ENTER</u> key before the replacing work has been completed, printer starts Kebab system automatic recognition operation.

## Pull out the control IF cable.

Pull out the ring part at the root of the control IF cable.
Fix the removed cable on the clip at the printer rear surface.

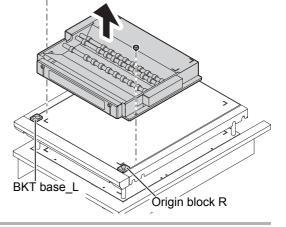
Press ( T to select [SET JIG].





## Remove Kebab system.

- (1) Remove the plapoint screw and KBB fixing BKT at both sides of Kebab system.
- (2) Remove Kebab system.
- (3) Remove the origin block R and BKT base\_L.

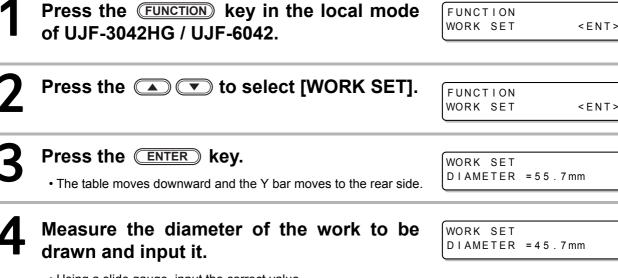




# Set a work

Set the work on the jig.

For Kebab system, you can set several works of same diameter at the same time.



- Using a slide gauge, input the correct value.
- Depending on the diameter of the work to be set, you have to change the position to attach Kebab system. Check it by referring to the table below:

#### Table for attaching Kebab system

Diameter of work	Less than 64.3mm	More than 64.3mm
Position to attach	On table spacer 50	Table of UJF-3042HG / UJF- 6042

## Press the ENTER key.

• Depending on the work diameter, the position to which the work is set in Kebab system (small diameter or large diameter) differs. As the position to set the work is displayed on the screen, set the work by following the display.

#### Table for attaching work

Diameter of work	Less than 45mm	More than 45mm
Position to set work	Small diameter	Large diameter

In case that diameter is less than 45.0mm

SET TABLE SPACER 50, SET NARROW SPAN :ent

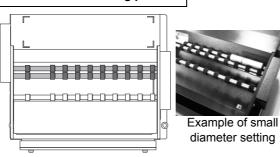
In case that diameter is less than 45.0mm-64.3mm

SET	TABLE SPAC WIDE SPAN	CER 50,
SET	WIDE SPAN	:ent

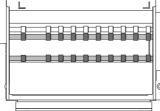
In case that diameter is more than 64.3mm

1	NO TABLE	SPACER,	
	SET WIDE	SPAN	:ent

### Small diameter setting position







Large diameter setting position

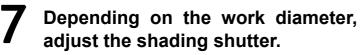


diameter setting

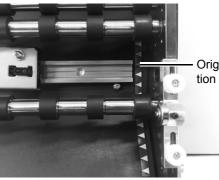
# 6

## Set a work.

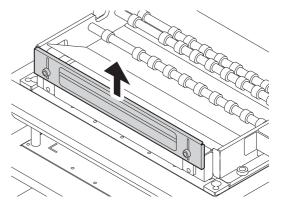
- Following the instruction on the screen, set a work at the small diameter/ the large diameter setting position.
- Set the work at the left side of the origin position mark on the bottom plate.
- When you need to draw several times to reduce the misalignment of drawing, use the "work holder" and perform "origin position mark detection".
   (@ P.18, P.22)
- (Important!)
- When setting the work, make it may not touch the left/ the right side plate.
   If you draw with the work touching the side plate, the work cannot rotate correctly.
  - When you draw the work with a small diameter, remove the work holder; otherwise the work holder and the slider may collide with each other.
     (CP P.21)



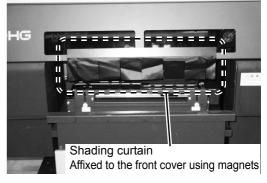
- To prevent UV light from shining out, adjust the shading shutter.
- Adjust the shading shutter height to the position where the work cannot be seen from the front.
- (1) Loosen the screw of the right and the left of the shading shutter.
- (2) Depending on the work diameter, move the shading shutter up/ down.
- (3) Tighten the screw.
- If the work can be seen from the front even if the shading shutter is fully raised, install the included shading curtain to the front cover of the UJF-3042/UJF-6042, as described below.
  - Depending on the installation height of the shading curtain, [ERROR505 !WORK High] may occur when the installed shading curtain passes over the work. In this case, raise the installation position of the shading curtain.



Origin position mark







## Press the ENTER key.

- The work is set and the machine returns to the LOCAL mode.
- Set the start position of the drawing when setting the drawing origin of the work on the printer. ( $\bigcirc$  P.26)
- Detects the origin position mark when the detection function for the origin position mark is set to ON.

# **Use the work holder**

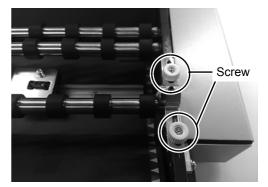
The work holder can curb the horizontal shifting of the work during rotation and reduce the misalignment of drawing that happens while drawing several times.



- You can use the work holder for the work with a large diameter.
- For the work with a small diameter, remove the right work holder, set the height of the left work holder to the lowest point, and then start drawing the work.
- You may not be able to use the work holder even for the work with a large diameter, depending on the shape of work.
- Loosen the screw of the left work holder, and move it to the position where it does not collide with the work to be set.

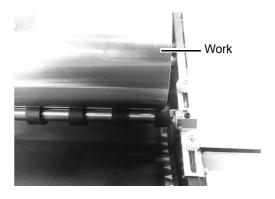


# 2 Lightly loosen the screws (2 pieces) retaining the right work holder.



# **B** Place the work near the right work holder.

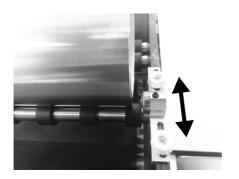
• After this, make sure that the work and work holder are placed a little away from each other to adjust the right work holder.

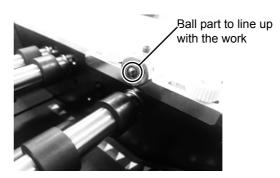


# 4

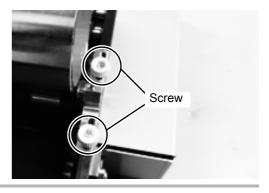
# Move the ball part of the work holder on the right work holder so that it lines up with the flat part of the side of the work.

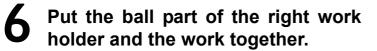
• When lining it up with the side that is uneven, it may affect drawing; try to line it up with the part that is as flat as possible.

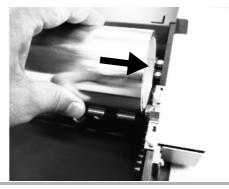




**5** Tighten the screws (2 pieces) retaining the right work holder.

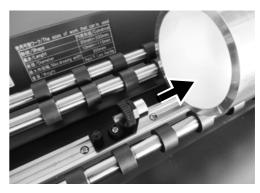






# 7 Place the left work holder close to the work.

• Place the work and left work holder several centimeters away from each other to adjust the left work holder later.



# 8 Align the height of the ball part of the left work holder with the flat part of the side of the work.

- Loosen the thumbscrew of the supporting section of the ball, adjust the height, and then tighten the nut.
- When lining it up with the side that is uneven, it may affect drawing; try to line it up with the part that is as flat as possible.







Slide the left work holder, and put the ball part of the left work holder lightly to the work.



• Make sure that the work holder and the ball touch each other lightly; otherwise the work may raise and affect drawing depending on the mass of work.



# **10** Tighten the screw of the left work holder.



# **Remove the work holder**

When drawing the work with a small diameter, remove the right work holder to avoid it from colliding with the print head or slider.

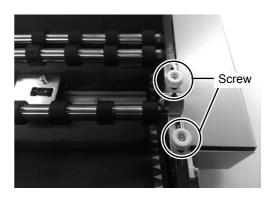


• You do not have to remove the left work holder, but make sure to set the ball part that touches the work to the lowest point.



## Remove the right work holder.

· Loosen and remove the screws retaining the right work holder.



#### Lower the height of the left work 2 holder.

• Set it to the lowest point of the slotted hole.



# Use the origin mark detection

When you use the origin mark detection, the origin mark attached to the work for each drawing is detected. You can reduce the misalignment of drawing in the rotation direction of the work as the starting point of drawing is aligned.

To use the origin mark detection function, you need to make the setting on the printer in the following procedure.



• The origin mark detection function is only available for the work with a large diameter.

• When you turn off the printer, the setting for the origin mark detection is reset. If you want to use the origin mark detection function, make the settings again when you turn on the power.

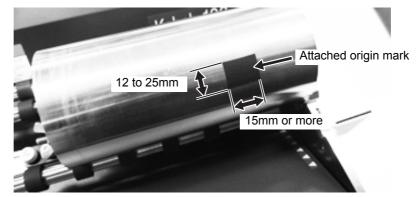
## Set the origin mark detection

1	Press the (FUNCTION) key in the local mode of UJF-3042HG / UJF-6042.	FUNCTION WORK SET <ent></ent>
2	Press ( The select [SET UP].	FUNCTION SET UP <ent></ent>
3	Press the ENTER key.	SET UP FEED COMP. <ent></ent>
4	Press 🔺 💌 to select [Kebab Tool].	SET UP Kebab Tool <ent></ent>
5	Press the ENTER key.	SET UP Kebab Setup <ent></ent>
6	Press the ENTER key.         • Select the "Kebab Setup".	Kebab Setup OriginMarkSearch:ent
7	Press the ENTER key.         • Select the origin mark detection.	Kebab Setup OriginMarkSearch:OFF
8	<ul> <li>Press  to select ON/OFF.</li> <li>When you set it to ON, the origin mark is detected at the following timing:</li> <li>(1) Before drawing</li> <li>(2) When you finish setting the work.</li> <li>(3) When starting Kebab origin point settings.</li> </ul>	Kebab Setup OriginMarkSearch:ON
9	<ul> <li>Press the ENTER key.</li> <li>You can set the origin mark detection.</li> <li>Press the Key several times to end the setting.</li> </ul>	SET UP Kebab Setup <ent></ent>

### Use the origin mark

### Attach the origin mark on the work.

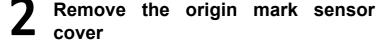
 Use the tape with a width of 12 mm or longer and 25 mm or shorter or a length of 15 mm as the origin mark, and attach it to the work.

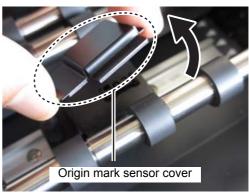


(Important!)

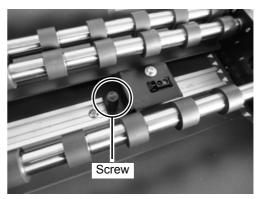
Different types of tape for the origin mark should be used depending on the surface of the work.

- For the work with a high reflection surface, such as aluminum, use the tape with low reflectivity such as the supplied black tape.
- For other works, use the tape with high reflectivity such as the supplied aluminum tape.
- If the work is wrongly detected such as when the work has designs and so on, put black tape around the work, and place aluminum tape as the origin mark on the black tape.
   We recommend that you do not draw on the surrounding area where you attach the origin mark.
- This is because you may misidentify the printed part as the origin mark from the second drawing on.

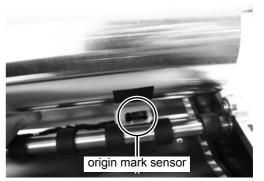




## **3** Loosen the screws retaining the origin mark sensor.



# 4 Align the positions of the origin mark of the work and the origin mark sensor.





### Tighten the screws and fix the origin mark sensor.

• You can check the origin mark sensor and origin point mark by making settings for the work or Kebab.

### When not using the Origin mark sensor

Attach the Origin mark sensor cover when not using the Origin mark sensor as to prevent contaminants such as ink and dust from entering.



• The Origin mark sensor is fixed in place with magnets near the Origin sensor.



## Responding to "ERROR 524 WORK ORIGN MARK"

The "ERROR 524 WORK ORIGN MARK" occurs when the Origin mark could not be detected due to an abnormality occurring during Origin mark detection operations.

Follow the procedures described in the table below to resolve the problem. If no improvement is seen after responding to the problem, please contact the distributor or one of our sales offices.

Cause	Solution		
The Origin mark sensor cover remains attached.	Remove the Origin mark sensor cover when using the Origin mark sensor. (27) P.23		
The Origin mark placed on the work and the sensor position do not match.	Match up the Origin mark with the sensor position again. (APP P.23)		
The Origin mark cannot be recognized because the reflection of the work surface is the same as that of the Origin mark.	Try using a different tape (black tape if using alumi- num tape, aluminum tape if using black tape). If it still cannot be detected, use aluminum tape as the Origin mark after attaching one round of black tape.		
There are markings and unevenness on the work surface. (Markings and unevenness on the work surface may lead to the misrecognition of the Origin mark).	For markings, use aluminum tape as the Origin mark after attaching one round of black tape. For level differences, attach the Origin mark on a cir- cumference of the surface where there is no uneven- ness.		
The Origin mark cannot be detected because it is either too large or too small.	Have the Origin mark be of an appropriate size.		
The work does not rotate during Origin mark detec- tion operations.	Check whether there are any points that may be pre- venting the work from rotating.		
The Origin mark sensor is dirty.	Clean the Origin mark sensor. (P.39) If the grime cannot be removed after cleaning and an error message appears, please contact the distribu- tor or one of our sales offices.		
A strong light hits the Origin mark sensor when detecting the Origin mark.	Change the direction of the lighting, or close the cur- tains on windows letting through daylight so that a strong light does not hit the sensor.		

# Set the start position of drawing

Press the **FUNCTION** key in the local mode of UJF-3042HG / UJF-6042.

FUNCTION WORK SET

< E N T >

	Press t	the	to	select	[Kebab	Ori-
I	gin Set	t].				

FUNCTION Kebab OriginSet<ENT>

- The [Kebab Origin Set] menu is displayed only when installing the Kebab system.
- Enter the diameter of the work before selecting the menu as the table height differs depending on the diameter.( (RP P.16)



### Press the ENTER key.

- The table moves up and down depending on the diameter of the work, and the Y bar moves forward.
- If a warning message "WORK High" is displayed while the Y bar is moving forward, refer to P.16 "Set a work" on page 14 and set the work diameter again, and then start from step 1.
- Once the Y bar has finished moving, the mode is set to the Kebab origin point setting mode.

ORIGIN	SET UP
0.0	

SET

Δ	Press		▶,	and	move	the	red	light
	pointe	r "●"	mark	over	the wo	ork.		

 Move the light pointer mark to where you want to draw, and then set Rotation distance of the work

ORIGIN

10.0

Origin position (right and left)

UΡ

0.0

5	Press the <b>ENTER</b> key when the drawing
J	origin is determined.

• When you press ( ), the slider moves sideways.

• When you press ( ), the work over Kebab rotates.

[	* *	ORIGIN	* *	
l				

• The origin is changed.

the origin point position.

 If you press the [END] key without pressing the [ENTER] key, the settings you have made (Important!) up to step 4 is canceled, and the work you have set over Kebab rotates and moves back to the position before the setting menu.

# **Create data to be drawn**

Create data to be drawn on the work.



Create data to be drawn in the format below:

- PS, EPS, TIFF, JPEG, BMP and PDF1.4
- Prepare the development work data for drawing.



- · We recommend that you create the data for drawing at the actual print size.
- If you enlarge or reduce the size after the data for drawing has been read with RasterLink6, the aspect ratio of the image may be changed, and so on.

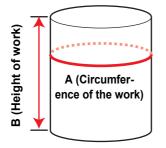
### Measure the work size

First, measure the correct work size. You have to check the sizes below in advance to draw.

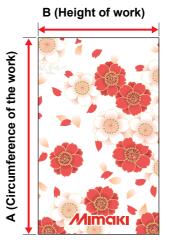


Size of the following illustration (A: circumference of the work, B: height of the work)

Size of the drawing data to be printed on the work (A: width, B: height)



Height and width of development diagram



# **Test drawing**

Before drawing, perform test drawing and check that there is no drawing defect such as nozzle clogging (slight touching of ink or nozzle missing).

## When you attach Kebab system on UJF-3042HG / UJF-6042 table

## Assemble the table spacer 100 and the absorption table attached to UJF-3042HG / UJF-6042.

• Referring to the operation manual of UJF-3042HG / UJF-6042, assemble the table spacer 100 and the absorption table.

## Put the absorption table assembled in the Step 1 over Kebab sys-tem.

# 3

### Set the media for test drawing.

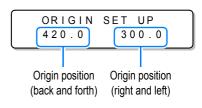
• Set the media by referring to the operation manual of UJF-3042HG / UJF-6042.

## Press A TAB.

- The origin setting mode starts
- A red light pointer mark [•] is projected on the table or the media.

# Move the light pointer mark by pressing the

• Move the light pointer mark to the position to set a new origin.



ORIGIN SET UP

0.0

# 6 Press the table ( ) and adjust the absorption table and the head height.

Press the ENTER key and set the drawing origin.

\*\* ORIGIN \*\*

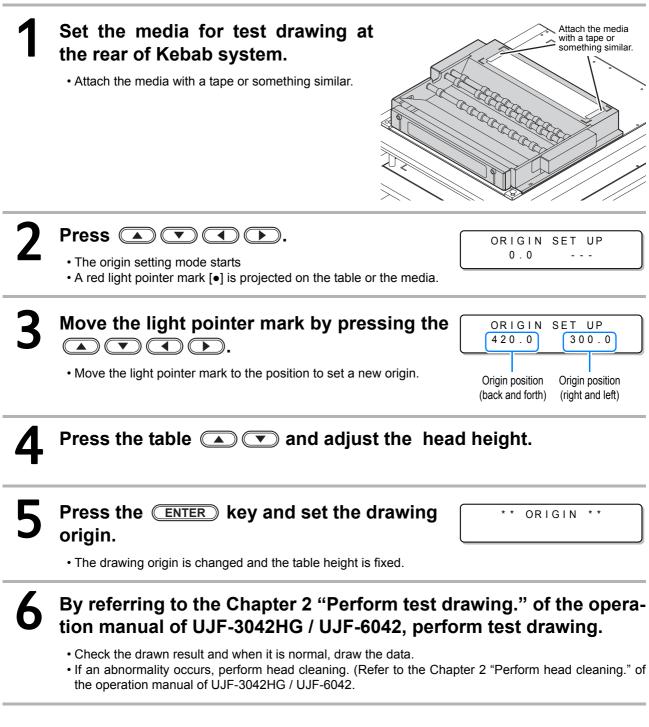
• The drawing origin is changed and the table height is fixed.



## By referring to the Chapter 2 "Perform test drawing." of the operation manual of UJF-3042HG / UJF-6042, perform test drawing.

- Check the drawn result and when it is normal, draw the data.
- If an abnormality occurs, perform head cleaning. (Refer to the Chapter 2 "Perform head cleaning." of the operation manual of UJF-3042HG / UJF-6042.

## When you attach Kebab system on absorption table





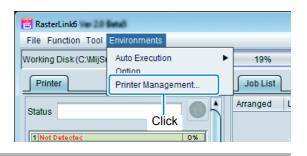
• When drawing on an actual work after performing a test drawing, first set the start position of the drawing ( @ P.26) before drawing.

# **Enable Kebab printing**

To draw using Kebab-100, you need to enable the Kebab printing function in RasterLink6.

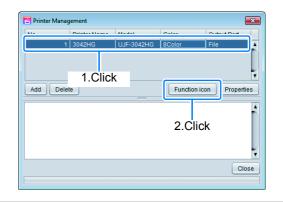


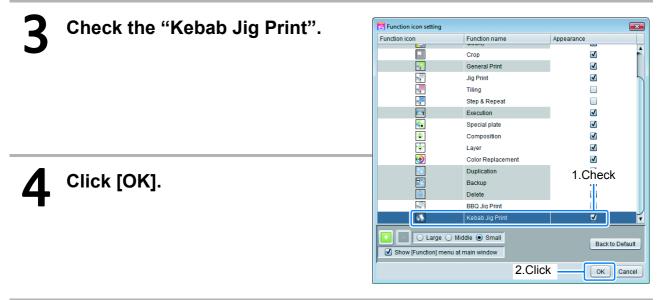
• "Printer Management" dialogue is displayed.



# **2** Click the printer to use, and then click [Function icon].

• "Function icon setting" dialogue is displayed.





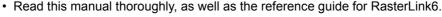


• The "Kebab Jig Print" icon is displayed.

# Drawing an image from source data



- When you draw the work with a light mass or unevenness, the data may not be drawn accurately as it may slide due to the low friction of the work and rollers and so on.
- We recommend that you test draw with a sample work before drawing the actual work.





You can adjust the size of the data for drawing, by creating the job for adjusting the print size based on the work in RasterLink6 (Create Circumference measure Job).

• With RasterLink6, a job is automatically created based on the work diameter that is entered to check the size to draw on the work.( P.34)

## Starting the drawing operation



### Set the work for adjustment.

- Referring to the P.16 "Set a work", set a work.
- Measure the size of the work to draw beforehand, and prepare the drawing data that perfectly matches the circumference and height of the work. ( P.27 "Create data to be drawn")

## **2** Press the (REMOTE) key in the local mode of UJF-3042HG / UJF-6042.

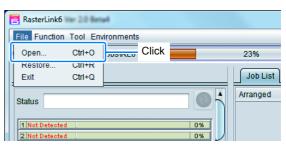
- The machine goes in the remote mode and data from the computer can be received.
- The table height is displayed.

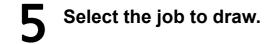
## Spool the data for drawing with RasterLink6.

• Select the [File]-[Open] menu.

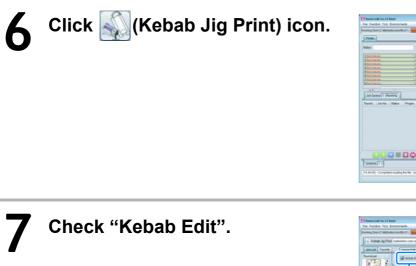
# Select the file to draw, and then click [Open].

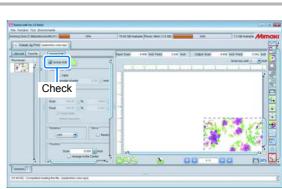
• The file is read and displayed on the list of the jobs.











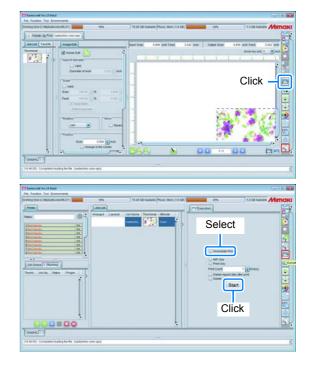
----

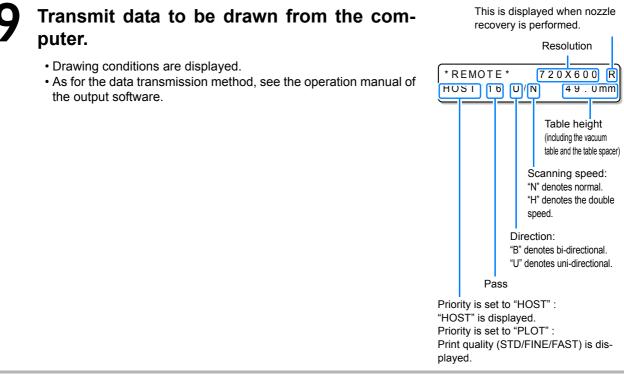
, 🖾

Click

## 8 Click (Exection) icon. • The [Execution] menu is displayed.

• Select [RIP and Print] or [Immediate Print], and click [Start].





**10** Start drawing.

Taking out the media after completion of drawing.

### Interruption of drawing

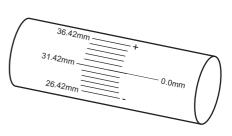
To interrupt drawing, stop the drawing operation and erase the received data from the machine.

1	Stop data sending from the computer.	
2	<ul><li>Press the REMOTE key while drawing.</li><li>• Drawing operation stops.</li></ul>	<pre><local></local></pre>
3	Press the DATACLEAR key.	DATA CLEAR <ent></ent>
4	Press the REMOTE key. • Received data is erased and the machine returns to the local mode.	** DATA CLEAR **

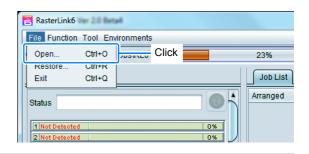
## Use the job for adjusting the print size (Create Circumference measure Job), and check the actual print size.

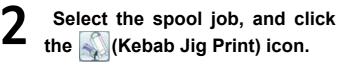
If it is difficult to know the print size with the actual print data, use the job for adjusting the print size (Create Circumference measure Job) instead.

When you use Create Circumference measure Job, the work is printed as shown in the illustration on the right.



## Follow the steps 1 to 4 of "Starting the drawing operation".





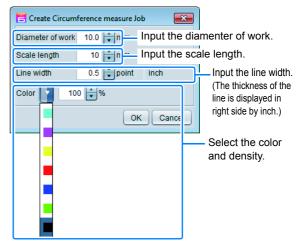


**3** Check "Kebab Edit", and then click the (Create Circumference measure job.) icon.

• The Create Circumference measure Job dialogue is displayed.



# Set the work diameter and the width and color of the lines to print.



Click [OK].

Diameter of work	nference measure Job
Scale length	20
Line width	0.5 point inch
Color 🛉 10	00 🔹 %
	OKCancel
	Click

6 Display the job list, and then click Create Circumference measure Job you created.

ng Devik (C. Mill Durler (Antor Will, D.Y.)	19%	75 AT GE Hallable Provid Blem (	N.P. COL	130	A A A A A A A A A A A A A A A A A A A
etar .	Januar		O Popaties		L.
. 0	Aranged Lawed	Attans Thomas Attans	4 100 A	174	5
d Television (198)			2 Jos Same	Katato#	(Hename )
C104.00 (2)		Artust and Color	File toane	Kabab pdf	
Chester (PA)			Format	PCR	
			image Size	73.3348	
Cherte (B.)			Fages		
**			Papenia	1.16x1.71 milt	
O Cueve     Munning	(	Click	30.000	Full Color	• teta
m Johns Make Proge			Calui Adjustment	Sel Standard	
			Quality		
11			Hella	064PET-014	
			Recolders	722 s NOE 1/D	
			Input Profile JCC	//dellmanCh/H.um	PI I
			Profie fiame	UP3042HGBCUH1004C_PET	J-104138.00
			Annals		
			Tes		
OD I DO			Spon Tast.		
			•		1.
HEHE [ ]					

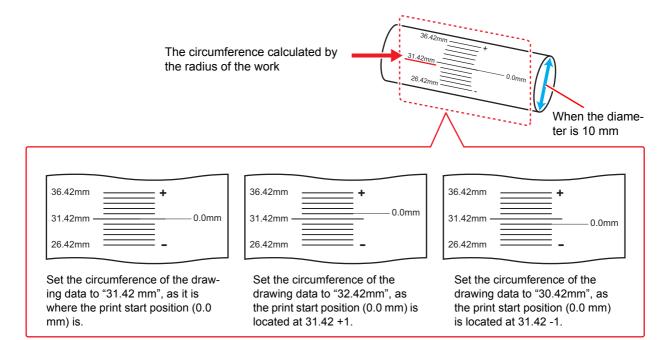
## Perform the operation from step 8 of "Starting the drawing operation" and draw the data.

- Check the drawing result, and check the circumference.
- When you actually draw the data, correct the data based on the circumference you have checked, or click "Reflect diameter" button on [Scale] beforehand.



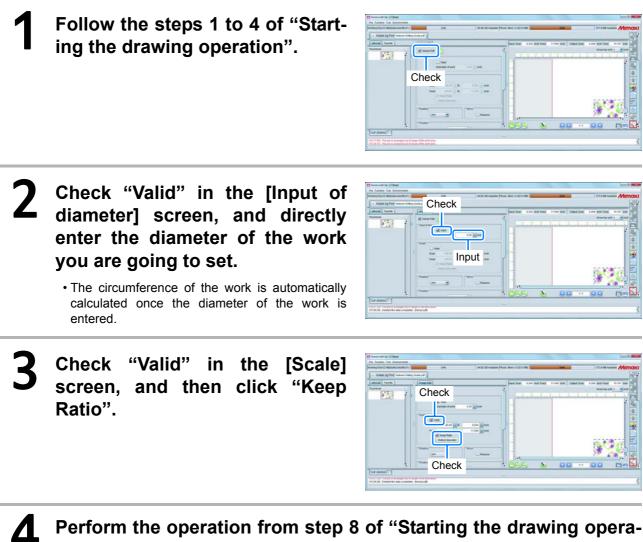
### Check the drawing result.

- When you draw Create Circumference measure Job, scales are printed for the print start position (0.0 mm) as well as the end position.
- The pitch of the scales for the print end position is 1 mm.



### To draw the data that perfectly fits the drawing area of the work

If the drawn images are overlapped or have a gap between each other when using the sample work, try the following so that the images perfectly fit in the work size.



### tion" and draw the data.

# Maintenance

## Cleaning the roller shafts

Clean the roller shafts when they become dirty with ink using the procedure described below to ensure that this product can be continually used over a long period of time.

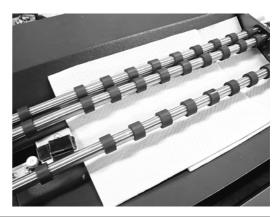


- Make sure to put on goggles and gloves before cleaning. (Use the goggles and gloves that come as accessories with UJF-3042HG / UJF-6042).
- Make sure that the cleaning liquid does not come into contact with your skin.
- Remove the Kebab system from the printer body before cleaning.

	Glove	<ul> <li>Goggles</li> </ul>	Paper towel
Tools	BEMCOT (A101437) or a maintenance cloth (SPC-0574)		
	• F-200 / LF-200 Washing Liquid 100 (SPC-0568)		

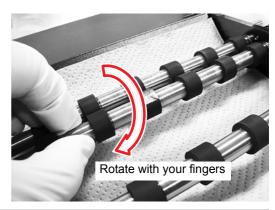
## Cover the area below the roller to be cleaned with a paper towel and attach a cover on the origin mark sensor.

• This will prevent the cleaning liquid from coming into contact with the cover and the origin mark sensor.



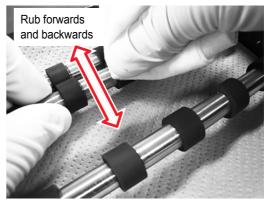
## 2 Rotate the roller shaft until the rubber part that is dirty with ink comes into view.

• Pinch the metal part of the roller shaft with your fingers and slowly rotate the roller.



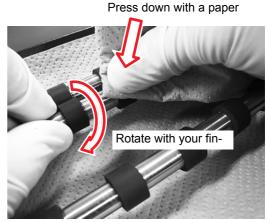
## Rub the part that is dirty with ink forwards and backwards with a BEMCOT that has been dipped in cleaning liquid.

- Hold the roller with your fingers when rubbing it with a BEMCOT so that it does not rotate.
- Take care so as not to rub too hard.
- Take care so as not to have the cleaning liquid come into contact with parts other than the roller shaft, such as the light shielding shutter, the origin mark sensor, and the cover.

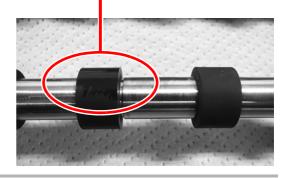


# 4 Wipe away the cleaning liquid attached to the roller shaft with a paper towel.

- Gently press a paper towel on to the roller shaft and slowly rotate the roller shaft with your fingers.
- Wipe away the cleaning liquid until the rubber parts do not have a glossy appearance. If they do have a glossy appearance, elements of cleaning liquid remain.
- Take care so as not to forcibly press down on the roller shaft.
- Repeat steps 2 to 4 when there are multiple areas that require cleaning.



Parts with a glossy appearance still have elements of cleaning liquid.



### **Cleaning the Origin mark sensor**

The buildup of dust and other particles in the origin mark sensor can cause the erroneous detection of the origin mark.

Remove any dust, etc. that has built up on the surface of the sensor with a cotton swab.



# **Specifications**

ltem		Specifications	
Supported printer		UJF-3042HG / UJF-6042	
Resolution			
Drawing mode		Complies with the supported printers	
Usable inks			
Usable works	Shape	Cylindrical work	
	Length	Over 30mm, under 330mm	
	Diameter	Over 10mm, under 110mm	
	Weight	3kg or less	
Maximum drawing range		Length 300mm or less	
Interface		Connect with the supported printer using the dedicated connector	
Power requirements		Supply electricity from the supported printer using the dedicated connector	
Safety standards		FCC-Class A, CE Marking, CB Report, UL60950-1 (When connected with the supported printer)	
Weight		Approx. 3kg	
External dimensions		410(W) x 340(D) x 57(H) mm or less	



© MIMAKI ENGINEERING CO., LTD.2014