

CF22-1225 Quick Guide

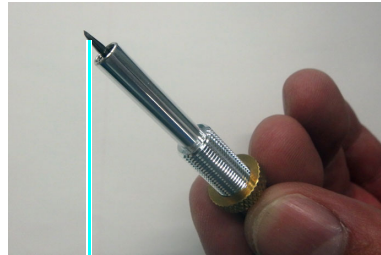
Installing the tool

1. How to install eccentric cutter

Loosen the fixing knob.



Pay attention to the direction of the blade, and set the blade.



blade

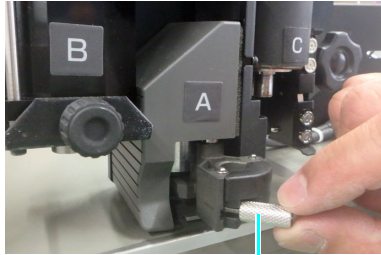
Tighten the fixing knob.



Turn the adjustment knob to adjust the tip amount of blade. one turn : 0.5mm

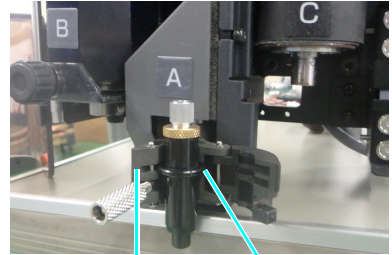


Turn the screw to loosen it.



Screw

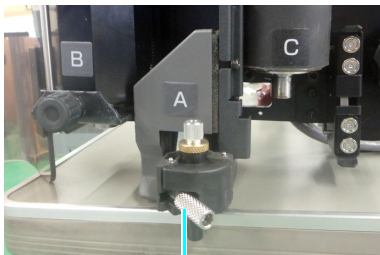
Set the cutter holder.



Holder retainer

Collar

Turn the screw and tighten.



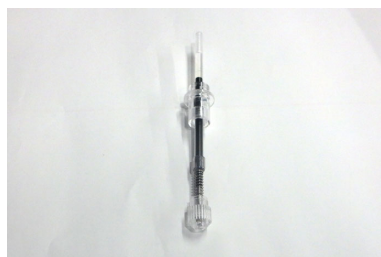
Screw

2. How to install a pen

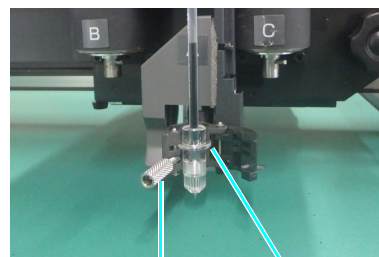
Insert the spring into the pen tip.



Attach the cap to the pen adapter while pressing the cap against the spring.



Turn the knob and loosen the holder retainer in the direction of the arrow.

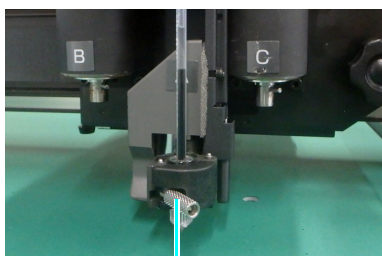


Holder retainer

Collar



Set the pen adapter and turn and tighten the screw.

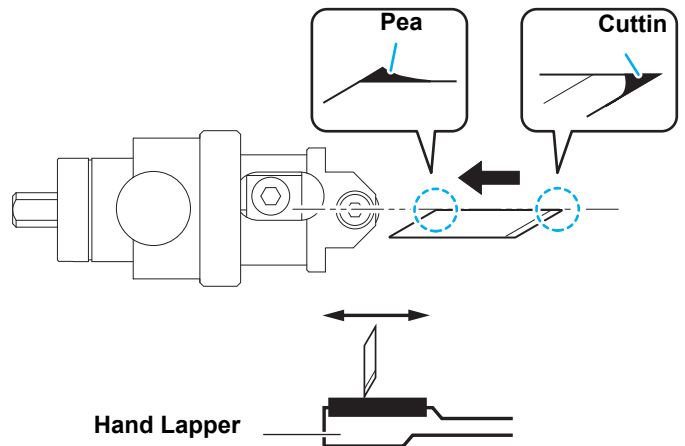


Screw

3.How to attach the cutter holder 2N (RC)

Important!

- When installing the blade, please install it in the direction of the blade as shown below.



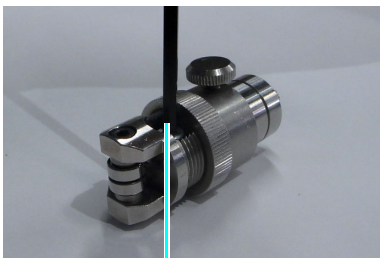
- When installing the NT high-speed blade, please cut off the cutting edge and peak portion with the supplied hand lapper.

Loosen the cutter stopper.

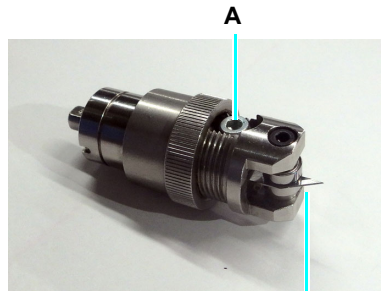
Pay attention to the direction of the blade and install the blade.

- (1) Turn the dial.
- (2) Maximize the amount to release the blade.
- (3) Loosen A.
- (4) Insert the blade.
- (5) Tighten the screws.

Loosen the dial stopper.



Cutter stopper



Orientation of blade



Turn the dial to adjust the tip amount of cutting edge.
one turn : 1mm

Tighten the dial stopper.

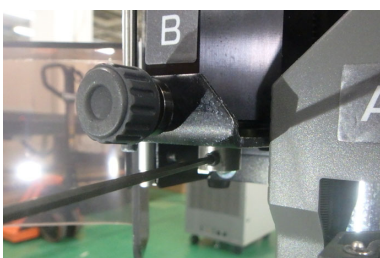
Tighten the cutter stopper.



Loosen the stopper screw.

Insert the pin so that it fits the groove of the cutter holder.

Attach the cutter holder and tighten the stopper screw.



Fit pin and groove

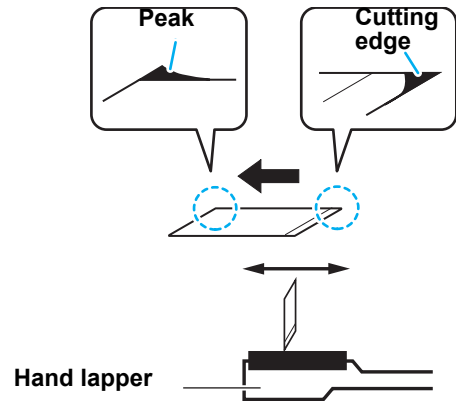


4. How to install the blade of the tangential cutter 4N

he tangential cutters 7N and 10N are also the same.

Important!

- When installing the blade, please install it in the direction of the blade as shown below.
- When installing the NT high-speed blade, please cut off the cutting edge and peak portion with the attached hand lapper.
- Please use tweezers when installing the blade.



Loosen the cutter stopper.



Turn the dial to maximize the cutting edge.



Pay attention to the direction of the blade and install the blade.



Orientation of blade

Stopper screw

Tighten the cutter stopper.



Turn the dial to adjust the tip amount of cutting edge.



Tighten the dial stopper.



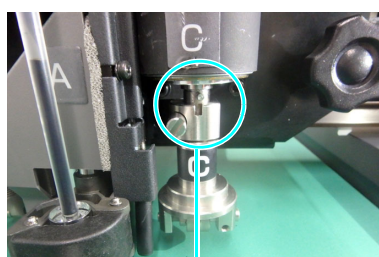
4. How to install the ruling roller

Loosen the stopper screw.



Stopper screw

Insert the pin so that it fits the groove of the ruling roller.



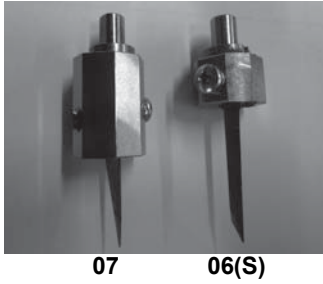
Fit pin and groove

Tighten the stopper screw.



5.How to attach a reciprocating cutter

Important!

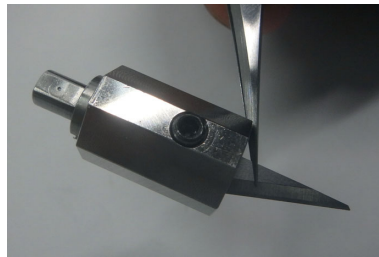


•Reciprocating cutter holder is required to attach reciprocating cutter.
 Name: Reciprocating cutter holder07 (SPA-0114)
 Adaptive blade: Carbide blade17°(SPB-0065) : 07 holder
 20mm blade(SPB-0055) : 07 holder
 Name: Reciprocating cutter holder 06(SPA-0099)
 Adaptive blade: Carbide blade2°(SPB-0064) : 06 holder

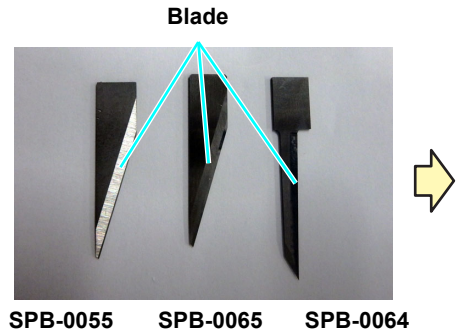
Loosen the set screw.



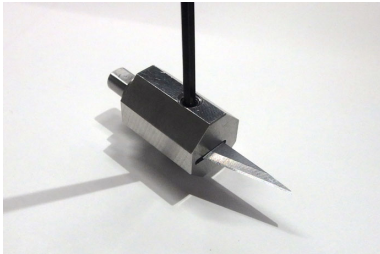
While paying attention to the flat part of the holder, the direction of the blade, insert until the blade hit.



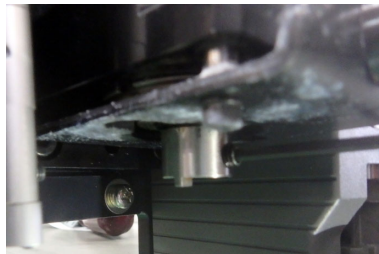
Please pay attention to the direction of the blade and install it.



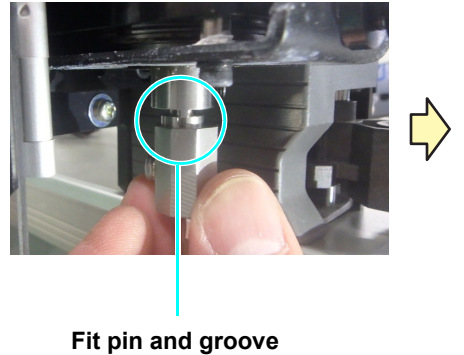
Tighten the set screw.



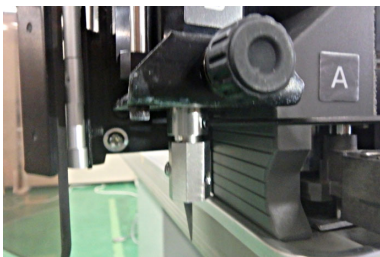
Loosen the fixing screw.



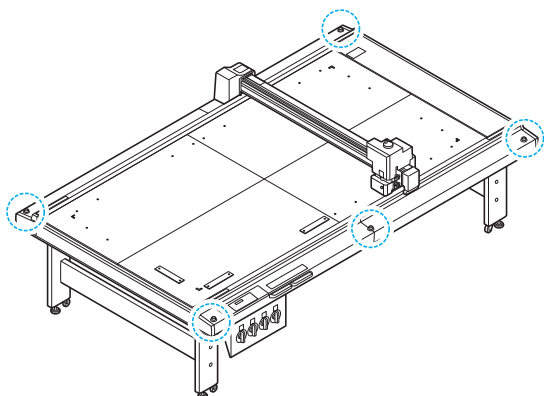
Tighten the screw after striking it all the way.



Tighten the stopper screw.

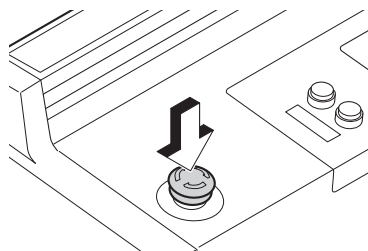


Emergency Stop

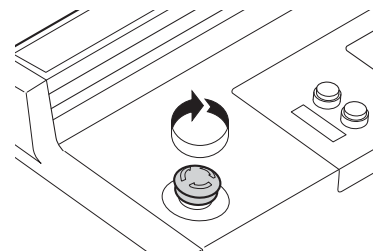


EMERGENCY switch is located in two places in the key panel section and rear of the unit respectively.

Applying an Emergency Stop



Resetting an Emergency Stop



Important!

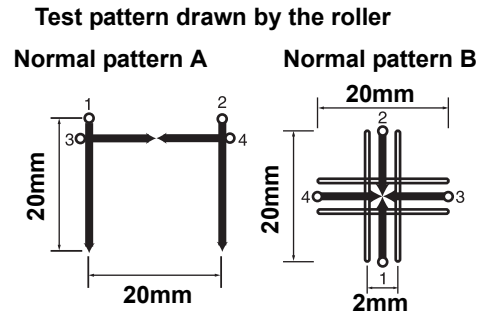
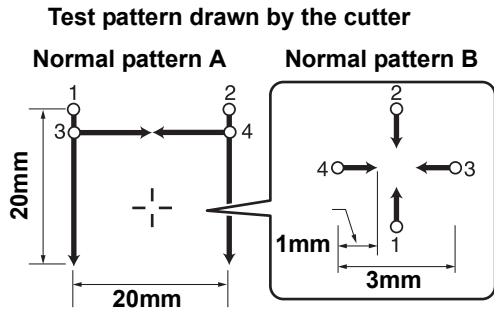
- If the power is turned on with the emergency switch pressed, the panel will not be displayed.

Adjusting the Tools

Check the test pattern plotted by the following procedure and correct the displacement of the tool. (Operation Manual Chapter 6 "Adjusting Tools")

- (1) Press the **TEST** key to display <test pattern>.
- (2) Press **▲** **▼** **◀** **▶** to move the head to the place to draw and press the **ENTER** key.

Adjusting Eccentricity

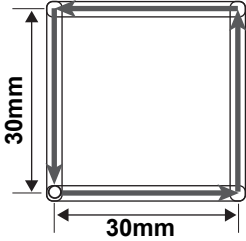



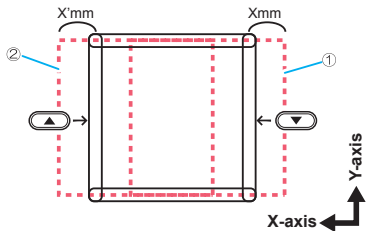


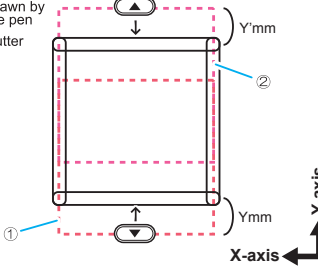




Adjusting Pattern A	Adjusting Pattern B
<p>Line protrudes Measure distance A on the diagram. Press ▼ to adjust in the positive direction to Set value = -A.</p> <p>Gap Measure distance A on the diagram. Press ▲ to adjust in the negative direction to Set value = +A.</p>	<p>Top line displaced to the right Press ▶ to adjust in the positive direction to Set value = (length B in diagram) / 2.</p> <p>Top line displaced to the left Press ◀ to adjust in the negative direction to Set value = (length B in diagram) / 2.</p>
<p>• When using the 2°x10 carbide reciprocating cutter, adjust the horizontal line to protrude approx. 2 mm.</p>	

Adjust Θ Angle

Normal test pattern	Rotated clockwise	Rotated counterclockwise
	<p>Press ▼ to decrease the CUTTER Θ value.</p>	<p>Press ▲ to increase the CUTTER Θ value.</p>

Adjust Offset

Normal test pattern	Displaced horizontally from the operation panel	Displaced vertically from the operation panel
 <p>  : Cutting start point  : Cutting direction  : Pen </p>	 <p> — : Drawn by the pen - - - : Cutter </p> <p> When a drawing by the cutter is displaced to the right, Press  to adjust. When a drawing by the cutter is displaced to the left, Press  to adjust. </p>	 <p> — : Drawn by the pen - - - : Cutter </p> <p> When a drawing by the cutter is displaced upward, Press  to adjust. When a drawing by the cutter is displaced downward, Press  to adjust. </p>

If the start and end points of the circle do not match even if the above adjustment is made, please perform the circle θ correction.

(→ Operation Manual Chapter 6 "Performing circle θ correction" P6 - 11)

Daily Care

We recommend cleaning regularly in order to use this machine comfortably for long term.



- Do not use detergent, thinner, etc with abrasive. Cover and cut panel may be deformed.

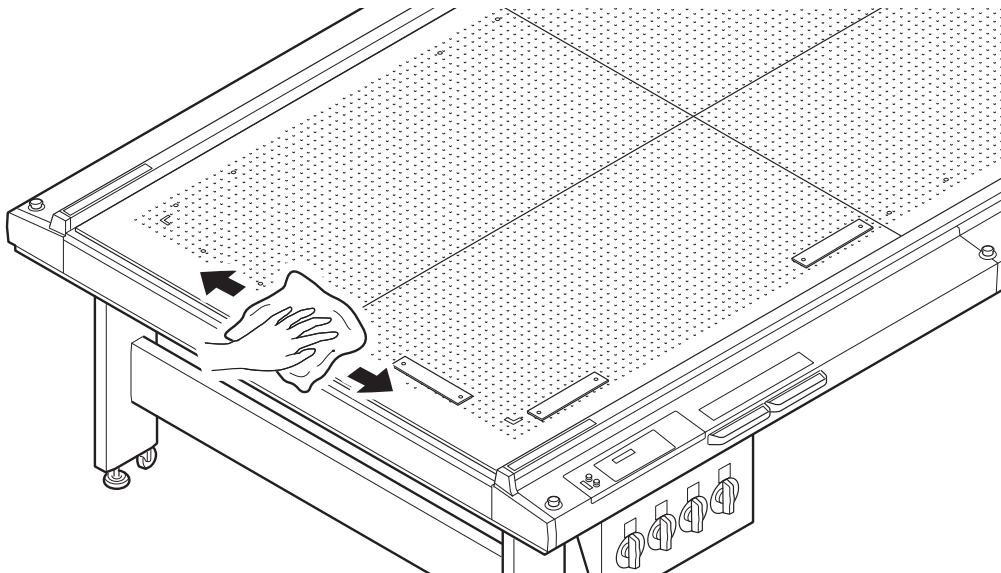
Cut panel surface

If the adsorption hole gets clogged, please put a thin wire in the suction hole. The jammed substance is discharged from the exhaust port of the vacuum.

Please wipe off any mild dirt with a dry, clean cloth. If it is dirty, wipe it off with a small amount of alcohol on a clean dry cloth.

Cover

Please wipe off any mild dirt with a dry, clean cloth. If it is dirty, wipe it with a small amount of alcohol on a clean dry cloth.



Non-fatal Errors

Display	Cause	Remedy
ERROR C02 MAIN RAM	Trouble has occurred in the control RAM.	Contact your dealer or a sales office of MIMAKI.
ERROR C04 EEPROM	Trouble has occurred in the system ROM.	
ERROR C10 COMMAND	Code other than command data has been received.	Check the command setting on the host computer.
ERROR C11 PARAMETER	A parameter outside the numerical range has been received.	Check the parameter.
ERROR C12 DEVICE	The plotter received an improper device control command.	Check the command setting on the host computer.
ERROR C13 PM OVER	Data on polygon has overflowed the polygon buffer.	Change the setting so that the polygon command is not used.
ERROR C20 I/O	The communication condition is different.	Make the communication condition same as that of the host computer side.
ERROR C27 BUFFERover	The interface is faulty.	Check the interface cable.
ERROR 901 OPERATION	An invalid operation was performed on the control panel.	Refer to the relevant page of operation manual for valid operations.
	An ASCII dump was made with an effective area less than A3.	Set the effective area to at least A3 size before conducting an ASCII dump.
	An ASCII dump was made with the origin set at a position that does not allow an effective area of A3 to be obtained.	
ERROR C31 NO DATA	The plotter started the plural sheets cutting but found that there is no data in the receiver buffer.	Refer to the explanation of the plural sheets cutting function.
ERROR C32 DATAtooBIG	Received data is too large, it is not possible to cut the number of copies	
ERROR 902 DAT REMAIN	The plotter executed an improper operation during a halt.	Press the <REMOTE> key to cut the remaining data or execute data clear if there is no need of using the data in the receiver buffer.
ERROR C36 MARKdetect	No registration mark was detected.	Make sure workpiece is not floating
		Check to see if the starting point to detect the registration mark has been set properly.
		Check to see if the black registration mark is printed against the white background.
		Check to see if there is no dust or dirt between the registration marks.
		Check to see if there is no mistake in registration mark settings.
		Set the "MARK FILL UP" of registration mark detection to "ON" when filled in around the registration mark.
		Make sure the height of the sensor is correct.
Confirm the status and the settings described above. If still no registration mark is detected, contact your distributor or a sales office of MIMAKI.		
ERROR C37 MARK ORG	The origin point was detected outside the cutting area.	Arrange the registration marks inside the sheet.
ERROR C38 MARK SCALE	Registration mark detection was not achieved. However, this error is attributable to a false detection or a compensation value setting error, since the calculated compensation value is wrong.	Correct the compensation value if it is wrong, and perform detection again.
	The required scale compensation value was not smaller than 1.3 times or not greater than 0.7 times.	Remove the cause of the detection error, for example, correct the blurred print of registration mark data and then retry.
	A detection error occurred since the distance from the adjacent graphics was too short.	Increase the distance from the adjacent graphics properly, and perform printing again.
	The designated spacing between the registration marks is not correct.	The value of the spacing between the registration marks designated by the command is wrong and it is attributable to a selection error of data. Therefore, check the output data.
	The print is not uniform and some graphics are omitted.	Correct the graphic data to obtain uniform print and perform printing again.
	As the printed registration mark was blurred, it was not read correctly and the registration mark of the next graphics was read by mistake.	Perform printing again with care that the print is not blurred.

Display	Cause	Remedy
ERROR 401 MOTOR X	An excessive load was applied to the Y bar driving motor.	Turn the power off once and turn it on again. If the same error message still appears, contact your distributor or a sales office of MIMAKI.
ERROR 403 X CURRENT	An overcurrent error in the motor in the Y bar driving motor.	Turn the power off once and turn it on again. If the same error message still appears, contact your distributor or a sales office of MIMAKI.
ERROR 402 MOTOR Y	An excessive load was applied to the carriage driving motor.	
ERROR 404 Y CURRENT	An overcurrent error in the motor in the carriage driving motor.	
ERROR 462 MOTOR θ	An excessive load was applied to the θ motor.	
ERROR 464 θ CURRENT	An overcurrent error in the motor in the θ motor.	
ERROR 461 MOTOR Z	An excessive load was applied to the Z motor.	
ERROR 463 Z CURRENT	An overcurrent error in the motor in the Z motor.	
ERROR 50a Y ORIGIN	The plotter has failed to detect the origin sensor.	Turn the power off once and turn it on again. If the same error message still appears, contact your distributor or a sales office of MIMAKI.
ERROR 511 Z ORIGIN		
ERROR 532 θ ORIGIN		
ERROR 533 X ORIGIN		
ERROR 521 INIT MOTOR	Motor can not be initialized.	Turn the power off once and turn it on again. If the same error message still appears, contact your distributor or a sales office of MIMAKI.
ERROR 503 COVER OPEN	Protection door is open.	Close the protection door.
ERROR C60 PenEncoder	The height of the pen cannot be detected.	Turn the power off once and turn it on again. If the same error message still appears, contact your distributor or a sales office of MIMAKI.
ERROR C76 VAC / TILT	Excessive vacuum current.	Turn off the plotter and vacuum. Wait a while and turn them back on.
ERROR C75 REC.CUTTER	Appropriate cutting conditions not set.	Set appropriate cutting condition values.
	Worn blade	Replace the blade with a new one.
*** OFF SCALE ***	Data extends beyond the effective cutting area.	(1) Stop processing and clear data. (2) Expand the effective cutting area or enter data within the effective cutting area.

Specifications

		CF22-1225
Specifications	X axis (w/o sensor)	—
	X axis (sensor)	2500mm
	Y axis	1220mm
Settable work size	X axis	2500mm
	Y axis	1495mm
Driving method	X、Y、Z、 θ axis: DCservo	
Maximum speed	55cm/s	
Head unit	Specify when purchasing from the following units (user replacement is not possible) (1) T-S (2) TD-S (3) TF-S (4) RC-S (5) RT-S	
Cutting pressure	Eccentricity cutter : 20 ~ 400g Low pressure tangential : 300 ~ 1500g High pressure tangential : 1000 ~ 5000g Ruler roller : 1000 ~ 5000g	

		CF22-1225
Static accuracy	Repeat accuracy	± 0.1 mm
	Range accuracy	± 0.1 mm or ±0.1%
	Perpendicular accuracy	± 0.5 / 500 mm
	Origin reproducibility	± 0.1mm
Maximum cut work thickness		Tangential cutter: 10mm Reciprocating cutter: 20 mm