SuperBOT Software Quick Start Guide

After the device is installed, follow the steps below for setting adjustments.

(1) Device start procedure Main switch at lower back of device \rightarrow System switch ON \rightarrow Programmer switch ON

(2) Enter programming setting

Double click to execute system program.



Display of initiation result of each part: User login: Enter user name and password \rightarrow Click Login

(3) Load project

This step can be skipped if there are no saved projects.

	Lo	ad Project	? 🗙
Project	ġ.	utan (1): Co bin)	G 🕸 📂 🛄-
Save	>		
open project	۲̈́۲ ۲̈́۲	件名 (M): test1 件类型 (D): Project file (*.xln)	打开 @ ▼ 取消

(4) **Basic Setting**

Click "Basic Setting" in the Control Panel window to activate the Basic Setting window.

XY Speed Select	Z Speed Select
🔲 High 🔲 Normal 🔲 Low	🔲 High 🔲 Normal 🔲 Low

XY-axis speed selection.

Z-axis speed selection.

I/O Mode	Select
🔘 Manual Tray	🔘 Semi Tray
🔘 Tape2Tape	🔘 Tape2Tube
🔘 Tube2Tube	🔘 Tube2Tape

User selects I/O mode as per requirement.

I/O Dev	ice Info-	
Tray Xn :	0	
Tray Yn :	0	
L		

Detailed information setting of I/O device

a. Manual Tray mode

Tray Xn: Setting of row number of Tray Tray Yn: Setting of line number of Tray

	1,0 20,	ice into	
TapeIn	Size:	0	
TapeOut	Size:	0	

TapeOut Size: Setting of number of Tape Out

b. Semi Tray mode, the same as Manual Tray mode

c. Tape-2-Tape mode

TapeIn Size: Setting of number of Tape In

	I/O Dev	ice Info	
TubeIn	Size:	0	
TubeOut	Size:	0	

d. Tube2Tube mode

TubeIn Size: Tube In. Set the number of chips to be programmed.

TubeOut Size: Tube Out. Set the size of single tube (i.e. maximum loaded chip number)

Size: [0	
Size: [0	
	ize: [Size: [Size: O Size: O

e. Tape2Tube mode

TapeIn Size: Tape In. Set the number of chips.

TubeOut Size: Tape Out. Set the size of single tube (i.e. maximum loaded chip number)

I/O Dev	ice Info-	
TubeIn Size:	0	
TapeOut Size:	0	

f. Tube2Tape mode

TubeIn Size: Tube In. Set the number of chips to be programmed. TubeOut Size: Tape out. Set the number of loadable chips.

(5) **Programmer Setting**

Skip this step if all settings in the original project are the same as the current setting when the project is called.

Click "Programmer Setting" button in Control Panel window to activate Programmer Setting window.

Select Device	
	Click Here
Device	
Package	
Manufacturer	
Adaptor	

Click "Click Here" to select device.

🖃 Select Data		
	Click Here	
File name		
Checksum		

Click "Click Here" to select the document to be programmed.

Option		
Operation	Click	
Config Word	Click	
Buffer	Edit	
	Option Operation Config Word Buffer	Operation Click Config Word Click Buffer Edit

Set "Option", "Config Word" and "Buffer" as required by device programming.

Edit Auto	
	Click Here
Code	
Sequence	

Click "Click Here" to edit Auto (i.e. programming procedure) as required by device programming.

(6) **Position Setting**

Click "Position Setting" button in Control Panel window to activate Position Setting window.

(1) Base point positioning



Select to position BasePoint Click "CCD To Check Point" to move camera over base point

Nove XY Axis : x: 0.00 Y: 0.00 • x 0.02mm • x 5 mm • x 0.1 mm • x 10 mm • x 1 mm • x 100mm Nozzle To Check Point Save	Motion Control			
X: 0.00 Y: 0.00 © x 0.02mm O x 5 mm O x 0.1 mm O x 10 mm O x 1 nm O x 100mm Nozzle To Check Point Save				
• x 0.02mm • x 5 mm • x 0.1 mm • x 10 mm • x 1 mm • x 100mm • Nozzle To Check Point Save	χ: 0.00 Υ: 0.00			
x 0.1 mm x 10 mm x 1 mm x 100mm Image: Save state of the state	⊙x0.02mm ○x5mm			
Nozzle To Check Point	○x 0.1 mm ○x 10 mm			
Nozzle To Save	○x 1 mm ○x 100mm			
Nozzle To Save	•			
Nozzle To Check Point Save	, I			
Check Point Save	— —	\Longrightarrow		
Check foint	L I	Ľ	Nozzie io Chiela Prist	Save
	V		Uncek foint	

Adjust camera location Click "Nozzle To Check Point" to align the image center.

Move Z	Axis :
⊙x 0.02mm	🔵 x 1 mm
🔾 x 0.1 mm	⊙x5 mm
1	4

Motion Control	×
Move XY	Axis :
X: 0.00	Y: 0.00
● x 0.02mm ○ x 0.1 mm ○ x 1 mm	○x5 mm ○x10 mm ○x100mm
← 1	ל ∟
	-

Adjust nozzle height for observation

Adjust nozzle location to align nozzle center with base point center. Click "Save".

2 Socket positioning



Repeat the above actions. Position the used Socket one by one.

③ I/O device positioning

Select to position I/O device, which is divided into the following kinds as per the different I/O device used by user.

a. Tray positioning



Click "CCD to Coner #1" to move camera over No.1 point.

Adjust camera location to center the point image. Click "Save".

User the same method to Position No.2 and No.3 points.

Pitch

Search Height

Click "Pitch" to automatically calculate Pitch value and save. No.1 position of Tray is located chip (please locate chip if there is no chip). After "Search Height" clicked, nozzle will automatically search height and save it.

b. TapeIn positioning



Click "Go" to move camera over Tape

Save

GO

Adjust camera location to make the point image at center. Click "Save".

Click "Forward" to advance one grate Once.

Forward



Г

Stop clicking "Forward" when chip appears under camera. After "Search Height" clicked, nozzle will automatically search height and save it.

c. TapeOut positioning



Click "CCD To TapeOut" to move camera over Tape.

Adjust camera location to make the point image at center



Click "Nozzle To TapeOut" to move nozzle over Tape.

Nozzle To TapeOut

Height



Adjust camera location to make the point image at center

Click Up arrow and Down arrow to control nozzle to appropriate height of missing chip. Click "Height" to save.



Three tubes can be placed in TubeIn at most. For the unused, please cancel $\boxed{\mathbb{N}}$ at the front of the appropriate number.

	Motion Control	×
	Move XY Axis :	
	X: 0.00 Y: 0	1.00
	⊙x0.02mm ○x5	mm
	○x 0.1 mm ○x 10) mm
	○x 1 mm ○x 10)Omm
🔘 Tube #1	1	
🔘 Tube #2		
🔘 Tube #3	L I	
	· · · · · ·	
GO Save		

Select to position No.1 Tube. Click "Go" to move camera over No.1 tube. Adjust camera location to make the point image at center. Click "Save".

Repeat the above two steps to position other used Tube.

Search Height

There is chip in the Tube with the current No.

After "Search Height" clicked, nozzle automatically search height and save it.



Four tubes can be placed in TubeOut at most. For the unused, the appropriate No. changes to grey color. For the unused, please cancel $\boxed{\mathbb{V}}$ at the front of the appropriate number.



Select to position No.1 Tube. ClickAdjust camera location to make"CCD To TubeOut" to move camerathe point image at center.over No. 1 tube.Click "Save".

Repeat the above two steps to position other used Tube.





Height

Click "Nozzle To TubeOut" to move nozzle over Tube.



Adjust camera location to make the point image at center.

Click Up arrow and Down arrow to control nozzle to appropriate height of missing chip. Click "Height" to save.

④ Waste bin positioning



Select to position

Click "Goto 1" to move camera over No.1 point of NG Bin.

Motion Control	×
Move XY Axis :	
χ: 0.00 Υ: 0.00] [
⊙x0.02mm ○x5mm	
○x 0.1 mm ○x 10 mm	
◯x 1 mm ◯x 100mm	
$\leftarrow \stackrel{\uparrow}{\downarrow} \rightarrow$	

Adjust camera location to make image at No.1 point in NGBin. Click "Save".

Position No.2 point with the same method

(7) Save project





Position No.3 point

Set to save project.

(8) Operation of programming process

- ① Click the left arrow \frown in Control Panel window to switch to working interface.
- ② Select programmer.



There are four programmers in SocketInfo window. For the unused, the appropriate No. changes to grey color. For the unused, please cancel $\boxed{\mathbb{N}}$ at the front of the appropriate number.

③ Normal programming.

Start

"Start" button to start motion. If there is chip in Socket when firstly clicked, then



Corresponding pick button of Socket changes to red color. After the No. button clicked, moving robot executes pick action from corresponding No. Socket.



"Stop" button to stop motion.

Home

"Home" button to make moving robot back to mechanical zero point.

Switch to positioning interface.

(9) Device shutoff procedure

Stop software ______ Stop industrial personal computer ______ Programmer switch OFF _____ System switch OFF _____ Main switch QFF