Step by Step Follow Up

NEXIA-SY Take-out Robot

- NEXIA-V-100SY NEXIA-V-200SY
 - NEXIA-V-600SY
- NEXIA-V-400SY ■ NEXIA-V-1300SY
- NEXIA-V-800SY ■ NEXIA-V-2000SY ■ NEXIA-V-2500SY
- NEXIA-V-3000SY



Read this manual completely prior to installing, operating or Performing maintenance on this equipment



3.1STEP FOR START-UP

Follow step for Auto Operation



3.1 Start Up



location with manual button.



In case origin searching is completed, move to Main



(In case there is mold operated before)

and move to Auto Mode Screen.

and start Auto Operation

3.2 Stop Operation





3.4 Emergency Stop (EMO Stop)

Press EMO button in any dangerous situation (Protect People, Robot, Mold Etc)



[Emergency power interception button]



[Emergency system stop button]

• STEP 1

In case emergency power interception button is pressed, power of robot is turned off to stop.

In case emergency system stop button is pressed, system power(servo driver) is turned off to stop.

Simultaneously, error message window appears on remote controller.

3.5 Restoring Emergency Stop

M WARNING

Eliminate Emergency Environment before restoring ROBOT EMO button.



[Emergency power interception button]

• **STEP 1** Turn Off Power

• **STEP 2**

Cancel it by turning emergency power interception button in clockwise.

• STEP 3

반드시 15~20초 후, 전원스위치를 ON시켜 주십시오.



• STEP 4

After moving robot to safe place using manual button, return to origin point by



[Emergency system stop button]



• STEP 1

Eliminate Emergency Stop Situation. Rotate ROBOT EMO button to Clock Wise



• **STEP 2**

After moving robot to safe place using manual button, return to origin point by



5.Follow-up

5.1 Setup Motion



- ①. Waiting Position
- 2. Take-out Position
- ③. Ascent Position
- ④. Release Position

5.2 Start up





Loading state bar

• STEP 1

Turn On Power. Power lamp becomes on.



Log screen appears, and loading state bar indicates data loading level.

In case loading state bar is all full, move to origin searching screen.

5.3 Searching Origin

NOTICE Confirm Robot is not interfere with any obstacle. Move robot arm with manual button.



STOP

• STEP 3

Confirm Robot is not interfere with any obstacle and

Press	Start	to
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homing position

After finished homing, robot will back to main screen.

5.4 Creat New mold	
Main 1 Mold: Default Set Maintenance RigctPos Sampling EO ATPos AlarmOn SysTime CModeOft ErList	• STEP 4 Press in to set up mold.
OFF RetOrg MoldFile 1 MoldFile 1 Mold: COCK Mold COCK MoldOper MoldCopy NewMold MoldOper MoldDel EOATMove MoldSel Main	• STEP 5 Press To creat new mold.
NewMold 1 Mold: COCK No Mold Image: Control of the second	 STEP 6 Press A log A log

5.5 Step Setting.



• STEP 7 Press to move to Step Setting screen.

• **STEP 8**

Press **I** to Forward [No Setting of position]

Display if there is no information.



• STEP 9

Press

Cursor moved to WaitPos..

to input WaitPos (Waiting Position)

Wait Position is only can be changed Step Modification.





Wait	Pos	2	Mold: W1	
	DlyTime 0.3 Sec	Speed -		
	Trvs PFwBw PAscDsc Rot SwI RFwBw RAscDsc	Current 0.0 200.0 0.0 OFF OFF	Memory - - - -	SavePos
	+ 10%		Ε	Close







• **STEP 11**

[Speed Setting 70%]



to input Speed Setting.

100% is maximum speed.



windows.

Position					
Axis	Origin	Waiting			
Traverse	0 mm	0 mm			
PFwBw	200 mm	250 mm			
PAscDsc	0 mm	0 mm			
Rot	OFF	OFF			

• **STEP 12**

[Setting Waiting Position to Traverse 0mm, Kick, 250 mm, Up and Down is 0 mm, Rotation OFF로 설정] Move robot arm with manual button until you get current position as desired number and press



to save and close.



5.7 Take Out Position Setting



TkPos	2	2 M	old: W1		
DlyTime	Spe	ed Tk	Time		 □ □
Trvs				0.2	ESC
PFwBw PAscDsc Rot	1	2	З	4	5
Swi RFwBw RAscDsc	6	7	8	9	0
+ '		-	DEL	CLR	ENT



TkPos	2	2	Mold: W	1	
DlyTime	Spee	ed Tk	Time		୵ ୦୫ (୭ ∕ 🖫 √ 🖡
Trvs				100	ESC
PFwBw PAscDsc Rot	1	2	З	4	5
Świ RFwBw RAscDsc	6	7	8	9	0
		-	DEL	CLR	ENT

• **STEP 15**

[Set Delay Time to 0.2]



to have delay time after mold is

open.



save.

• STEP 16 [Speed 100%]



Press 1 0 0 to set speed 100%, Press

ENT to save and close.

5. Follow Up

Tł	(Pos	2	Mold: W1	
	DlyTime 0 .2 Sec	Speed 100	TkTime 0.0 Sec	✓ C+) (PO ✓ () ✓ () TkMethod
	Trvs PFwBw	Current 0.0 250.0	Memory – –	
	Rot Swl RFwBw	0.0 OFF OFF	-	SavePos
			+	Close

TkPos	2		Nold: W1		
DlyTime 0 .2 Sec	Spee 100	ed Tk	Time	2	(c) ⊅ (ÿ √)•
Trvs				0.2	ESC
PFwBw PAscDsc Rot	1	2	3	4	5
Swl RFwBw RAscDsc	6	7	8	9	0
		-	DEL	CLR	ENT

• **STEP 17**

[Take out Time Delay]



operation.





Position						
Each Arris	Waiting	Take out				
Each Axis	Position	Position				
Traverse	0 mm	0 mm				
Kick	250 mm	400 mm				
Up/Down	0 mm	1250 mm				
Rotation	OFF	OFF				





5.9 Ascent Position Setting (IMM Operate next cycle)

MoldFile

Auto

EndWork

AscPos DlyTime 0.0 Sec	2 Speed -	Mold: V	V1	
Trvs PFwBw PAscDsc Rot Swl RFwBw RAscDsc	Current 0.0 300.0 1250.0 OFF OFF	Memory -		rcStart
- 10	%	+		Close
AscPos DlyTime 0.0 Sec	2 Speed	Mold: V	V1	
Trvs PFwBw			0.3	ESC

AscP	os	2	Mold	: W1	
ſ	DlyTime 0.3 Sec	Speed -			
f	Trvs PFwBw PAscDsc Rot Swl RFwBw BAscDsc	Current 0.0 300.0 1250.0 OFF OFF	Memory _ _ _ _ _	1	ArcStart
Ē	10%		-	-	Liose

6

RFwB RAscD 7

8

DEL

9

CLR ENT

0

A	scPos	2	2	Mold: W	/1	
	DlyTime 0.3 Sec	e Spe	eed -			
	Trvs				100	ESC
	PFwBw PAscDso Rot	1	2	3	4	5
	Swl RFwBw RAscDso	6	7	8	9	0
			I	DEL	CLR	ENT

• STEP 22 [Delay time 0.3 Sec]	
Press DlyTime 0.0 Sec to set delay time to up co	omplete
position.	
Press 0 . 3 and press ENT to	save.

• STEP 23 [Speed setting 100%]

Speed setting to move up position, press



Press	1	0	0	and press	ENT	to save
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and close.



Position				
Each Axis	Take out	Ascent		
Traverse	0 mm	0 mm		
Kick	300 mm	200 mm		
Up/Down	1250 mm	0 mm		
Rotation	OFF	OFF		



STEP 24

[Set Ascent Complete position to Traverse 0mm, Kick 0mm, Up/Down 0mm, Rotation OFF]

Press manual button to Traverse 0mm, Kick 0mm, Up/Down 0mm, Rotation OFF.



5.10 Release Position









Rel	RelPos 2 Mold: W1					
	DlyTim 0.4 Se	ie Sp	eed f	RelDly		
	Trvs				8 0	ESC
	PFwBw PAscDs Rot	1	2	3	4	5
	Swl RFwBv RAscDs	6	7	8	9	0
	_	•	-	DEL	CLR	ENT

• STEP 27

[Delay Time 0.4 Sec]

To set delay time to move to release position, Press





close.

• **STEP 28**



8



Press

and Press ENT to save.

Relf	Pos	2	Mold: W1	
1	DlyTime 0.4 Sec	Speed 80	ReIDly 0.0 Sec	Release
	Trvs PFwBw PAscDsc Bot	Current 0.0 200.0 0.0	Memory - - -	Detail
	Swl RFwBw RAscDsc	OFF	-	SavePos
l	- 10%		+	Close

RelPos	2	2	Mold: W	1	
DlyTime 0.4 Ser	e Spe	eed F	ReIDIy		
Trvs				0.5	ESC
PFwBw PAscDsi Rot	1	2	3	4	5
Swl RFwBw RAscDs	6	7	8	9	0
	•	-	DEL	CLR	ENT

• **STEP 29**

[Release Delay 0.5 Sec]

To set Release Delay time , press





Position					
Each Arris	Ascent	Release			
Each Axis	Position	position			
Traverse	0 mm	1700 mm			
Kick	200 mm	500 mm			
Up/Down	0 mm	1100 mm			
Rotation	OFF	ON			



• **STEP 30**

[To set release position to Traverse 1700mm, Kick 30mm, Up/Down 1100mm, Chuck Rotation ON]

Press manual button to move robot arm to Traverse 1700mm, Kick 30mm, Chuck Rotation ON And then move robot arm Down 1100mm



WARNING

IN SAFETY ZONE, ROBOT ARM NEED TO UP COMPLETE TO MOVE TRAVERSE AXIS

5.11 Step Operation







STEP 31

StepFw Press

to run robot go to next step.

After RelPos set up, press StepFw will finish one cycle and go back to first cycle.



Run Step by Ste to confirm all position and setting is right.



will run step with slow speed.



will be changed to



During Step operation



Press will stop operation







to run in Fully Automatic Mode



will not activate until finish the 1 step

Start

operation (after change mold, or reboot system)

5.12 Auto Runs

