

IXP- 3N6520* /4N6520* 3N6515

Arm length 650mm
Vertical axis 200mm/150mm

Model Specification Items	IXP <input type="checkbox"/>	N <input type="checkbox"/>	65 <input type="checkbox"/>	WA <input type="checkbox"/>	P3 <input type="checkbox"/>	<input type="checkbox"/>		
Series	Number of axes	Arm length	Vertical axis stroke	Gripper	Encoder type	Cable length	Applicable controller	Option
	3: 3 axes 4: 4 axes	20 : 200mm 65: 650mm	20 : 200mm 15GL : 150mm 15GW : 150mm	No gripper Large gripper installed Extra-large gripper installed	WA: Battery-less absolute specification	N: None P: 1m S: 3m M: 5m	X□□: Specified Length R□□: Robot cable Cable length described below	P3: MSEL B: Brake

*Controller is not included.
*Refer to "Attached Gripper Types" for the types of grippers installed.



*The photograph shows a 4-axis specification.

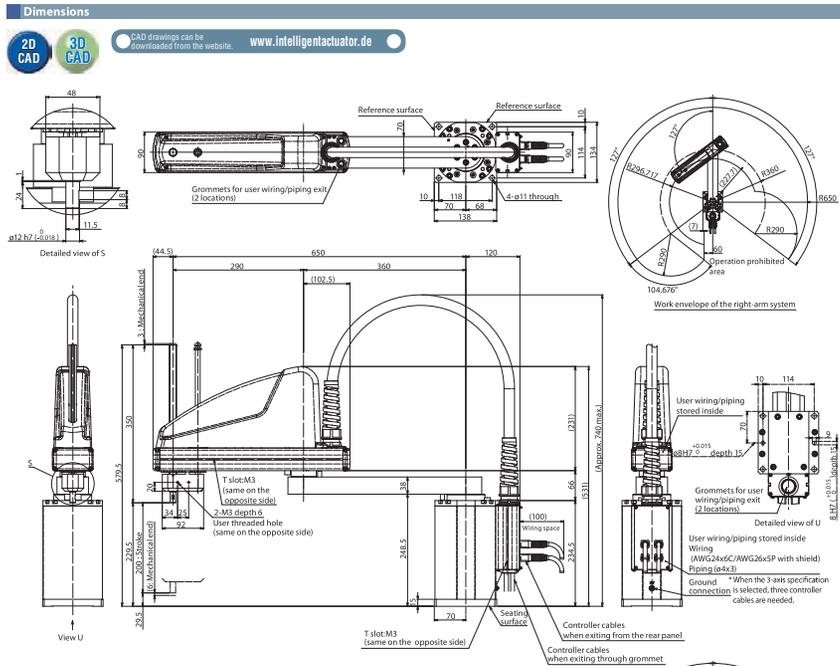
Preview

Next planned IXP series expansion with similar robot specifications like IXP-3N6520/4N6520 (see tables below w/o gripper):

- Cleanroom Specification Types (ISO cleanliness class 4)
IXP-3C6520/4C6520
- Dust/Splash-proof Specification Types (protective structure IP65)
IXP-3W6520/4W6520

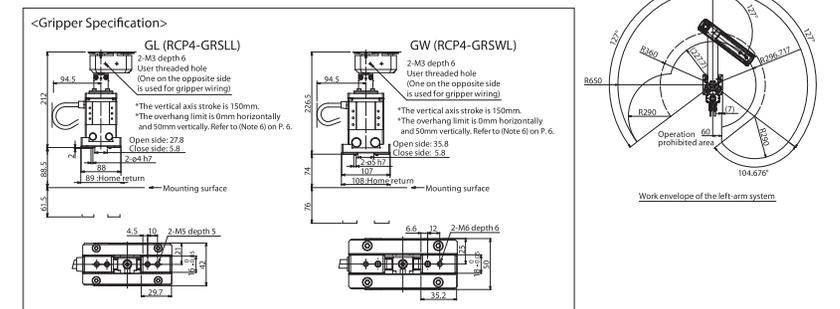
Please contact IAI for availability and further details.

- Refer to P. 5 for (Note 1) through (Note 5).
- Make sure to select the brake option when the payload is 4kg or more.
- The vertical axis does not support push-motion control.
- The allowable push force should be 90N under condition of having a buffer such as a spring on a tool or the pressing side.
- Refer to P. 5 for the work envelope, and P. 26 for the notes on acceleration/deceleration setting.



Robot Specifications									
Axis configuration	Arm length (mm)	Work envelope	Positioning repeatability (Note 1)	Maximum operating speed in PTP mode (Note 2)			Payload (kg) (Note 3)		
				No gripper	With large gripper (GL)	With extra-large gripper (GLW)	Rated	Maximum	
Axis 1	Arm 1	360	±127*	±0.04mm	2916mm/s (Composite speed)	2916mm/s (Composite speed)	2916mm/s (Composite speed)	2	6
Axis 2	Arm 2	290	±127*						
Axis 3	Vertical axis	—	200mm (*1)	±0.02mm	240mm/s	240mm/s	240mm/s		
	Rotational axis	—	±360*	±0.02*	700°/s	—	—		
Axis 4	Large gripper GL (*2)	—	22mm (Both fingers)	±0.01mm	—	125mm/s (One finger)	—	—	1.5 (*3)
	Extra-large gripper GW (*2)	—	30mm (Both fingers)	±0.01mm	—	—	157mm/s (One finger)	—	2.5 (*3)

(*1) When the large/extra-large gripper is installed, the work envelope of the vertical axis becomes 150mm. (*2) Refer to the gripper selection guide in our RCP2/RCP4/RCD Vertical Gripper Catalog. (*3) This is the maximum payload on the gripper when it is attached to a SCARA Robot.



Robot Specifications					Model Combinations	
Encoder type	3-axis specification	4-axis specification	3-axis specification		Specification	Model number
	No gripper	Battery-less absolute encoder *	With large gripper (GL)	With extra-large gripper (GLW)		
User wiring	AWG24x6, AWG26x5P (shielded) <small>*User cables are sold separately. Refer to the operation manual for detail.</small>		User wiring is not supported because the gripper wiring is used.		3-axis specification with large gripper	IXP-3N6515GL
User piping	O.D. ø4, I.D. ø2.5, 3 air tubes Maximum working pressure 0.8MPa				3-axis specification with extra-large gripper	IXP-3N6515GW
Standard cycle time (sec) (Note 4)	0.81		0.81 (When transporting 2kg including a gripper)		4-axis specification	IXP-4N6520
Allowable torque (Axis 4) (N·m)	—		3.06			
Allowable moment (N·m)	9.4		Ma: 3.8 Mb: 3.5 Mc: 9.4	Ma: 9.4 Mb: 9.4 Mc: 9.4		
Allowable inertial moment from the tip of the vertical axis (kg·m ²) (Note 5)	Rated 0.01	Rated 0.01	Maximum 0.026	Maximum 0.024		
Ambient operating temperature/humidity	Temperature 0 ~ 40°C Humidity 20 ~ 85%/RH (Non-condensing)					
Unit weight (kg)	21	22	22.3	22.9		

*The gripper is incremental type.

Attached Gripper Types		
IXP-3N6520GL	The large gripper RCP4-GRSLL is installed at the tip of the vertical axis.	
IXP-3N6520GW	The extra-large gripper RCP4-GRSWL is installed at the tip of the vertical axis.	

Option		
Name	Option code	Reference page
Brake	B	Refer to our RoboCylinder General Catalog

Applicable Controller Specifications						
Name	External view	Model number (*1)	Max. number of controlled axes	Max. positioning points	Standard I/O points (Input/output)	Input voltage Reference page
Program control multi-axis type Safety category compliant specification		MSEL-PGX[]-[]WA[]-[]-[]-2-4	4	30000 points	16 points/16 points	Single-phase AC 100V ~ 230V —P. 19
Program control multi-axis type Safety category compliant specification with network board		MSEL-PGX[]-[]WA[]-[]-[]-0-4				

*1) Controller type (3: 3-axis specification/4: 4-axis specification)
 □ SCARA type (Refer to table on the right)
 ◎ Standard I/O (NPN/PNP)
 ◎ Expansion I/O (Refer to table on the right)
 *Enter "0" in □ when brake option is selected.
 *Refer to P. 20 if considering axis connection other than IXP Series.
 (*1) The model code is just one example. Refer to P. 19 if using such as field network. (*2) PNP specification for expansion PFO board is coming soon.

<SCARA type>		<Expansion I/O>	
3N6520	3N6515GL	E	Not used
4N6520	3N6515GW	NPN	Expansion PFO board NPN/PNP spec. (*2)
		DV	DeviceNet board
		DV2	DeviceNet board (with 2-way connector)
		EP	EtherNet/IP board