

# IXP-3N3515 / 4N3515 3N3510

Arm length  
350mm

Vertical axis  
100mm

Vertical axis  
150mm

Model Specification Items	IXP	—	<input type="checkbox"/> N	35	<input type="checkbox"/>	—	WA	—	<input type="checkbox"/>	—	P3
	Series	Number of axes 3: 3 axes 4: 4 axes	Arm length 35: 350mm	Vertical axis stroke 15 :150mm 15GM :150mm 10GL :100mm	Gripper No gripper Medium gripper installed Large gripper installed	Encoder type WA: Battery-less absolute specification	Cable length N: None P: 1m S: 3m M: 5m	Applicable controller P3: MSEL			

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



**POINT**  
Note on selection

- Refer to P. 7 for \*1 through \*6.
- The vertical axis has no brake.  
The unique structure holds the load in place even when the servo is turned off.
- The vertical axis does not support push-motion control.
- The allowable push force is 60N under condition of having a buffer such as a spring on a tool or the pressing side.
- Refer to P. 7 for the work envelope, and P. 8 for the notes on acceleration/deceleration setting.

\*The photograph shows a 4-axis specification.

## Robot Specifications

Axis configuration	Arm length (mm)	Work envelope	Positioning repeatability *1	Maximum operating speed in PTP mode *2			Payload (kg) *3		
				No gripper	With medium gripper (GM)	With large gripper (GL)	Rated	Maximum	
Axis 1	Arm 1	160	±127°	±0.03mm	2726mm/s (Composite speed)	2726mm/s (Composite speed)	1908mm/s (Composite speed)	1	3
Axis 2	Arm 2	190	±127°						
Axis 3	Vertical axis	—	150mm (Note 1)	±0.02mm	270mm/s	270mm/s	189mm/s		
Axis 4	Rotational axis	—	±360°	±0.02°	1000°/s	—	—	—	0.5 (Note 3)
	Medium gripper GM (Note 2)	—	14mm (Both fingers)	±0.01mm	—	94mm/s (One finger)	—		
	Large gripper GL (Note 2)	—	22mm (Both fingers)	±0.01mm	—	—	125mm/s (One finger)		

(Note 1) When the large gripper is installed, the work envelope of the vertical axis becomes 100mm. (Note 2) Refer to the gripper selection guide in our ROBO Cylinder General Catalog. (Note 3) This is the maximum payload on the gripper when it is attached to a SCARA Robot.

## Robot Specifications

	3-axis specification		4-axis specification	
	No gripper	4-axis specification	With medium gripper (GM)	With large gripper (GL)
Encoder type	Battery-less absolute encoder *			
User wiring	AWG24x6, AWG26x5P (shielded) *User cables are sold separately. Refer to the operation manual for detail.		User wiring is not supported because the gripper wiring is used.	
User piping	O.D. ø4, I.D. ø2.5, 3 air tubes (Maximum working pressure 0.8MPa)			
Standard cycle time *4 (sec)	SCARA	0.69	0.69	1.08
	Gripper (full stroke)	—	0.51	0.56
Allowable torque (Axis 4) (N·m)	—	1.4	—	
Allowable moment (N·m)	2.9		Ma: 1.9 Mb: 2.7 Mc: 2.9	Ma: 2.9 Mb: 2.9 Mc: 2.9
Allowable inertial moment from the tip of the vertical axis *5 (kg·m <sup>2</sup> )	Rated 0.003 Maximum 0.01	Rated 0.003 Maximum 0.003	Maximum 0.002	Maximum 0.009
Ambient operating temperature/humidity	Temperature 0 ~ 40°C Humidity 20 ~ 85%RH (Non-condensing)			
Unit weight (kg)	12	13	12.5	13

\*The gripper is incremental type

## Attached Gripper Types

IXP-3N3515GM	The medium gripper RCP4-GRSML is installed at the tip of the vertical axis.
IXP-3N3510GL	The large gripper RCP4-GRSLL is installed at the tip of the vertical axis.

## Price List

Gripper	SCARA 3-axis specification	Standard price
None	IXP-3N3515	—
Medium gripper	IXP-3N3515GM	—
Large gripper	IXP-3N3510GL	—

Gripper	SCARA 4-axis specification	Standard price
None	IXP-4N3515	—

## Cable Length <Per Axis\*>

Type	Cable code	Standard price
Standard type	P (1m)	—
	S (3m)	—
	M (5m)	—
Specified length	X06 (6m) ~ X10 (10m)	—
	X11 (11m) ~ X15 (15m)	—
	X16 (16m) ~ X20 (20m)	—
Robot cable	R01 (1m) ~ R03 (3m)	—
	R04 (4m) ~ R05 (5m)	—
	R06 (6m) ~ R10 (10m)	—
	R11 (11m) ~ R15 (15m)	—
	R16 (16m) ~ R20 (20m)	—

\*The 3-axis specification requires three cables, while the gripper specification and 4-axis specification require four cables.

