15/4N4515

Arm length **Vertical** axis OO_{mm}

Vertical axis 150_{mm}

■Model Specification Items

IXP Series

Number of axes

3:3 axes

45

Arm length Vertical axis stroke 45: 450mm 15

15GM :150mm

:150mm No gripper Medium gripper installed 10GL :100mm Large gripper installed *Refer to "Attached Gripper Types" for the types of grippers installed.

Gripper

WA **Encoder type**

WA: Battery-less absolute specification Cable length

X□□: Specified length N: None P: 1m R□□: Robot cable S:3m Cable length described belo M: 5m

P3

Applicable controller P3: MSEL



*Controller is not included.





- •Refer to P. 7 for *1 through *5.
- •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.

Robot Specifications										
	A.via aandinuunatian	Arm Wark and an		Positioning repeatability *1	Maximum operating speed in PTP mode *2				ad (kg) *3	
Axis configuration		length (mm)	Work envelope		No gripper	With medium gripper (GM)	With large gripper (GL)	Rated	Maximum	
Axis 1	Arm 1	260	±127°	±0.03mm	2438mm/s	2438mm/s (Composite speed)	2060mm/s (Composite speed)	1	3	
Axis 2	Arm 2	190	±127°	±0.0311111	(Composite speed)					
Axis 3	Vertical axis	_	150mm (Note 1)	±0.02mm	270mm/s	270mm/s	189mm/s	'		
	Rotational axis	— ±360° ±0		±0.02°	1000°/s	_	_			
Axis 4	Medium gripper GM (Note 2)	_	14mm (Both fingers)	±0.01mm		94mm/s (One finger)	_	_	0.5 (Note 3)	
	Large gripper GL (Note 2)	_	22mm (Both fingers)	±0.01mm	_	_	125mm/s (One finger)	_	1.5 (Note 3)	

(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		3-axis specification			
		No gripper	specification	With medium gripper (GM)	With large gripper (GL)		
Encoder type		Battery-less absolute encoder *					
User wiring			26×5P (shielded) separately. Refer to the r 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	SCARA	0.	67	0.67	0.95		
*4 (sec)	Gripper (full stroke)	_		0.51	0.56		
Allowable torque (Axis	s 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 mor the vertical axis *5 (kg		Rated 0.003 Maximum 0.01	Rated 0.003 Maximum 0.003	Maximum 0.002	Maximum 0.009		
Ambient operating te	mperature/humidity	Temperature 0 ~ 40°C Humidity 20 ~ 85%RH (Non-condensin			condensing)		
Unit weight (kg)		13	14	13.5	14		

^{*}The gripper is incremental type

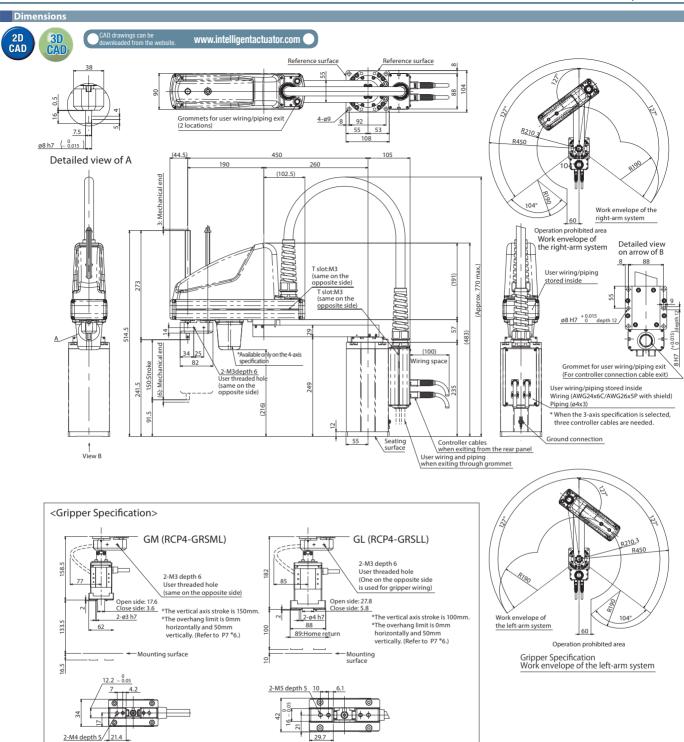
Attached Gripper Types							
IXP-3N4515GM	The medium gripper RCP4-GRSML is installed at the tip of the vertical axis.						
IXP-3N4510GL	The large gripper RCP4-GRSLL is installed at the tip of the vertical axis.						

Gripper	SCARA 3-axis specification	Standard price				
None	IXP-3N4515	_				
Medium gripper	IXP-3N4515GM	_				
Large gripper	IXP-3N4510GL	_				
Gripper	SCARA 4-axis specification	Standard price				
None	IXP-4N4515	_				

Cable Length <Per Axis*>

Туре	Cable code	Standard price		
	P (1m)	_		
Standard type	S (3m)	_		
	M (5m)	_		
	X06 (6m) ~ X10 (10m)	_		
Specified length	X11 (11m) ~ X15 (15m)	_		
	X16 (16m) ~ X20 (20m)	_		
	R01 (1m) ~ R03 (3m)	_		
	R04 (4m) ~ R05 (5m)	_		
Robot cable	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.



Applicable Controller series robots can operate with the following controllers. Make sure to select the model depending on the purpose.										
Name	External view	Maximum number of controlled axes	Supply voltage	Control method				May pas paints	Standard	Reference
				Position	Pulse train	Program	Network *Option	Max. pos. points		page
MSEL-PCX/PGX		4	Single-phase 100V ~ 230V	_	_	•	Device Vet CLink Edge Ether Vet/IP Ether CAT.	30000	-	→P37