IXP-3C4515/4C4515

Clean room specification

Arm length 450mm

Vertical axis 150_{mm}

■Model **Specification** Items

IXP -Series -

Number

4: 4 axes

Type

specification

3: 3 axes C: Cleanroom

45

Arm length

45: 450mm

15

Vertical axis

15: 150mm

WA Encoder type

WA: Battery-less

absolute

specification

Cable length N: None X□□: Specified length

P: 1m S: 3m R□□: Robot cable Cable length described **P3**

Applicable controller P3: MSEL

Refer to Options table below

* Please select VLL or VLR for suction of the L-shaped joint.



*Contro**ll**er is not included.







- Refer to P. 5 for (Note1) through (Note 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. 5/6 for the work envelope, and P. 18/26 for the notes on acceleration/deceleration setting.

^{*}The photograph shows a 4-axis specification.

Robo	t Specifications						
Axis configuration		Arm length	Work envelope	Positioning repeatability	Maximum operating speed in	Payload (kg) (Note 3)	
		(mm)	work envelope	(Note 1)	PTP mode (Note 2)	Rated	Maximum
Axis 1	Arm 1	260	±127°	±0.03mm	2194mm/s	1	3
Axis 2	Arm 2	190	±127°	±0.03mm	(Composite speed)		
Axis 3	Vertical axis	_	150mm	±0.02mm	270mm/s		
Axis 4	Rotational axis	_	±360°	±0.02°	1000°/s		

Robot Specifications					
	3-axis specification	4-axis specification			
Encoder type	Battery-less absolute encoder				
User piping joint	One touch piping joint 1 Applicable tube O.D. ø6				
Standard cycle time (sec) (Note 4)	0.	74			
Allowable torque (Axis 4) (N·m)	_	1.4			
Allowable moment (N·m)	2.9				
Allowable inertial moment from the tip of the vertical axis (kg·m²) (Note 5)	Rated 0.003 Maximum 0.01	Rated 0.003 Maximum 0.003			
Ambient operating temperature/humidity	Temperature 0 ~ 40°C Humidity	20 ~ 85%RH (Non-condensing)			
Unit weight (kg)	14	15			
Piping joint for suction	One touch piping joint 3 Applicable tubes O.D. ø6				
Suction pressure	−3 ~ −5kPa				
Suction power (*)	12Nℓ/min				
Cleanliness class	ISO class 3.5 or equivalent (ISO14644-1:2015 standard)				
Cleaniness class	US FED STD class 10 (209D standard)				

^(*) In order to use the SCARA Cleanroom specification in cleanliness class 3.5 (ISO) or 10 (US FED), the air in the unit must be sucked from the air suction port of the unit base. Please make piping that can flow the flow rate for each specification. Since the amount of dust are depending on the operating pattern, it is necessary to increase the amount of suction at high speed and high acceleration.

Options

Name	Option code	Reference note
L-shaped joint left side exit	VLL	Select either L-shaped joint for suction on the
L-shaped joint right side exit	VLR	left side (VLL) or right side (VLR)

Model Combinations

Specification	Model number
3-axis specification	IXP-3C4515
4-axis specification (with rotating axis)	IXP-4C4515

Cable Length <Per Axis*>

Туре	Cable code			
	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.

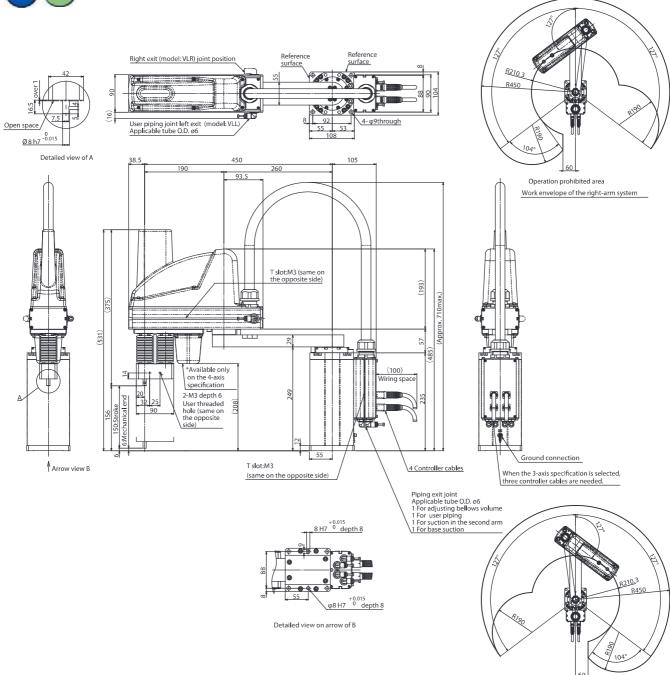


Dimensions



CAD drawings can be downloaded from the website. www.intelligentactuator.de





Operation prohibited area Work envelope of the left-arm system

	External view	Model number (*1)	Max. numb controlled	er of Max. positioning points	Standa points (inp		Input voltage	Reference page	
Program control multi-axis type Safety category compliant specification		MSEL-PGX①-①WAI-⑩-⑫-2-4		30000 mainte	16 mainte	16 mainte	Single-phase	→ P. 11/19	
Program control multi-axis type Safety category compliant specification with network board	n *	MSEL-PGX①-①WAI-①-①-0-4	4	30000 points	16 points/	16 points	AC 100V ~ 230V		
① Controller type (3:3-axis specification/4:4-axis s	pecification	¹) <scara type=""> <</scara>	Expansion I/O>						
*(I) SCARA type (Refer to table on the right) *(IIII) SCARA type (Refer to table on the right) *(IIII) CARA type (Refer to table on the right) *(IIII) CARA type (Refer to table on the right) *(IIII) CARA type (Refer to table on the right) *Refer to P. 12/20 if considering axis connection other than IXP series.			Not used	ed CC CC		CC-Link b	_ink board		
			NP/PN Expansion				C-Link board (with 2-way connector)		
			DV DeviceNe	DeviceNet board PR			PROFIBUS-DP board		
			DV2 DeviceNe	P DeviceNet board (with 2-way connector) EP Et			therNet/IP board		

