

IX-NNC80

IX Medium SCARA Robot Clean Room Type:
Arm Length 800mm, Vertical (Z) Axis 200mm (400mm)



Type / Clean Room type Arm length / 800mm Load capacity / 5kg rated/20kg maximum

Model items Series Model Cable length Controller type Standard I/O Expansion I/O I/O cable length Power-supply voltage
(Example) IX - NNN8020 - 5L - KX - N1 - EEE - 2 - 2

* Refer to P. 10 for details on the model items.

* The above model code represents a combination of robot and controller.

Model/Specifications

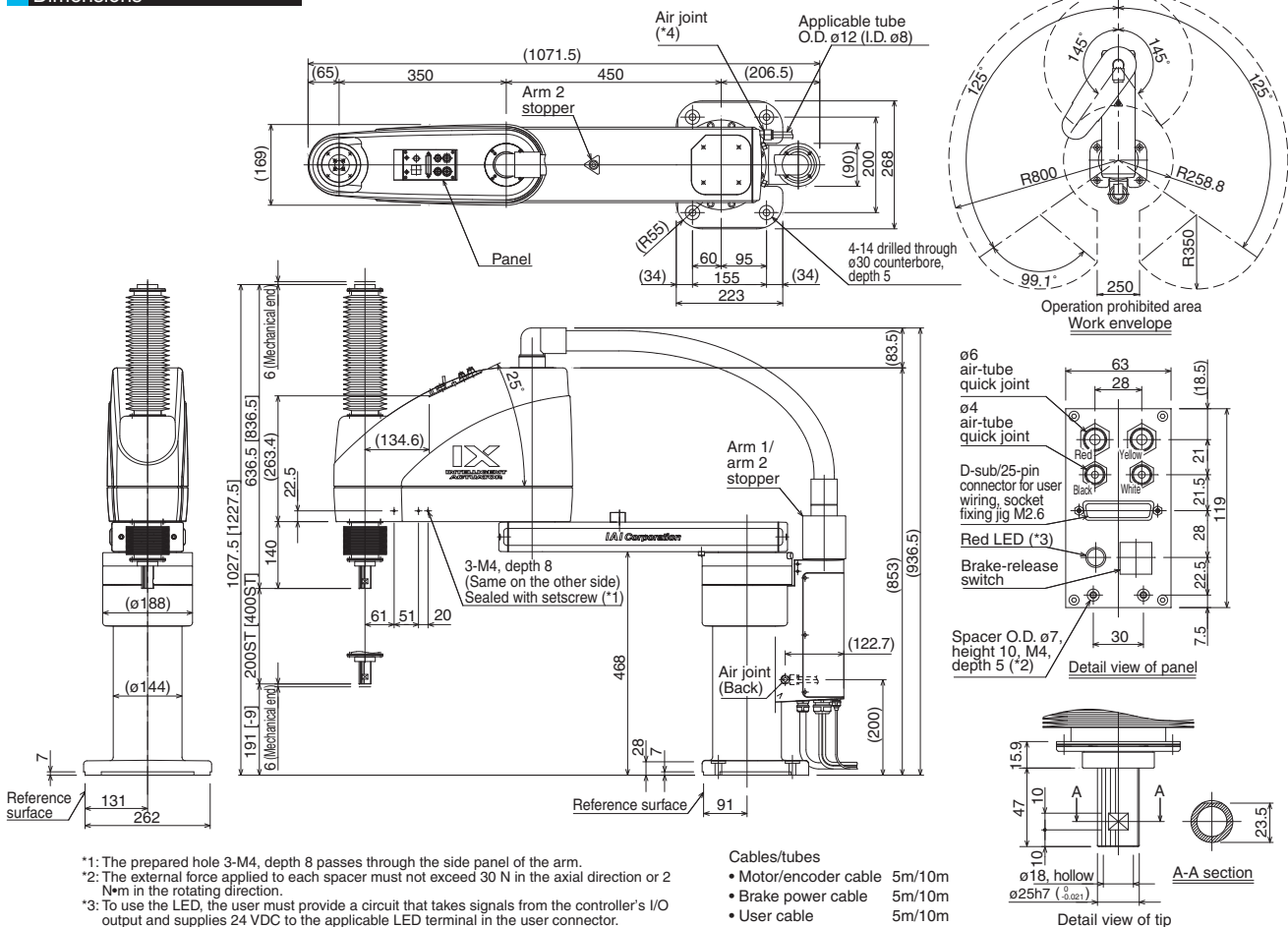
Model	Axis configuration	Arm length (mm)	Motor capacity (W)	Work envelope	Positioning repeatability (mm) (Note 1)	Maximum operating speed (Note 2)	Standard cycle time (sec) (Note 3)	Load capacity (kg)		Axis 3 push force (N)		Axis 4 allowable load	
								Rated	Maximum	Push action (Note 4)	Maximum thrust (Note 4)	Allowable inertial moment (kgm ²) (Note 5)	Allowable torque (N·m)
IX-NNC8020-5L-KX-□-□-□-2 [IX-NNC8040-5L-KX-□-□-□-2]	Axis 1 Arm 1	450	750	±125°	±0.015	7121mm/s (Composite speed)	0.52	5	20	188	265	0.1	6.7
	Axis 2 Arm 2	350	400										
	Axis 3 Vertical axis	—	400	200mm [400mm]	±0.010	1583mm/s							
	Axis 4 Rotating axis	—	200	±360°	±0.005	1200°/s							

* In the above model code, specify the desired controller in □. For details, refer to "Explanation of SCARA Robot Model Items" (P. 10).

Common Specifications

Encode type	Absolute	Vacuum joint	Applicable tube O.D. ø12
User wiring	25-conductor AWG26 D-sub/25-pin connector with shield (socket)	Suction rate (Note 11)	80NI/min
User tubing	Air tube (O.D. ø6, I.D. ø4) x 2 (Normal working pressure 0.8MPa) Air tube (O.D. ø4, I.D. ø2.5) x 2 (Normal working pressure 0.8MPa)	Cleanliness class	Conforming to class 10 (0.1µm)
Alarm indicator (Note 6)	Red, small LED indicator x 1 (24 VDC must be supplied.)	Ambient temperature/humidity	Temperature: 0-40°C, humidity: 20-85%RH or below (non-condensing)
Brake-release switch (Note 7)	Brake-release switch to prevent the vertical axis from dropping (24 VDC must be supplied.)	Robot weight	62kg
		Cable length (Note 8)	5L: 5m (standard), 10L: 10m (optional)

Dimensions



- *1: The prepared hole 3-M4, depth 8 passes through the side panel of the arm.
- *2: The external force applied to each spacer must not exceed 30 N in the axial direction or 2 N·m in the rotating direction.
- *3: To use the LED, the user must provide a circuit that takes signals from the controller's I/O output and supplies 24 VDC to the applicable LED terminal in the user connector.
- *4: The joint can be installed in the reverse direction.

Applicable Controller Specifications

Applicable controller	Features	Maximum I/O points (inputs/outputs)	Serial communication unit	Power-supply voltage	Page
XSEL-KX	General-purpose type offering excellent expandability	176/160 points	Can be installed.	AC200V	P37



Refer to P. 6 for the explanations of (Note 1) to (Note 11).

* Refer to P. 6 for other points to note.