

IX-NNN70□□[H]

Large SCARA robot, Standard type
Arm length 700mm, Vertical axis 200mm (400mm) [High-power specification]


Model items IX — NNN70□□[H] — □ — T2

Series: NNN7020[H] : Standard type
 Arm length 700mm, Vertical axis 200mm
 NNN7040[H] : Standard type
 Arm length 700mm, Vertical axis 400mm

Type: □

Cable length: 5L : 5 m (standard)
10L : 10 m

Applicable controller: T2: XSEL-PX/QX



*For details on the model items, refer to page 8.

Model/Specifications

Model	Axis configuration	Arm length (mm)	Motor capacity (W)	Work envelope	Positioning Repeatability (mm) (Note 1)	PTP operation Maximum operating speed (Note 2)	Standard cycle time (sec) (Note 3)	Load capacity (kg) (Note 4)		Axis 3 (vertical axis) push force (N) (Note 5)		Axis 4 allowable load	
								Rated	Maximum	Maximum limit	Minimum limit	Allowable inertial moment (kg·m ²) (Note 6)	Allowable torque (N·m)
IX-NNN7020[H]-□-T2 (IX-NNN7040[H]-□-T2)	Axis 1 Arm 1	350	750	±125°	±0.015 (XY)	6597mm/s [7010mm/s] (Composite speed)	0.50 [0.42]	5	20	265 [304]	127.3 [146.0]	0.1	6.7 [11.7]
	Axis 2 Arm 2	350	400	±145°									
	Axis 3 Vertical axis	-	400	200mm (400mm)	±0.010	1583mm/s [1614mm/s]							
	Axis 4 Rotating axis	-	200	±360°	±0.005	1200°/s [1266°/s]							

*In the model number above, specify the cable length in □.

*[] indicates the high-power specification type

*SCARA robots cannot operate continuously at 100% speed and acceleration. For details on the operating conditions, refer to Reference Acceleration/Deceleration Settings on page 44.

Common Specifications

Encoder type	Absolute
User wiring	25-conductor AWG26 D-sub/25-pin connector with shield (socket)
User tubing	Air tube (O.D. φ6, I.D. φ4) x 2 (Normal working pressure 0.8 MPa) Air tube (O.D. φ4, I.D. φ2.5) x 2 (Normal working pressure 0.8 MPa)
Alarm indicator (Note 7)	Small red LED indicator x 1 (24 V DC must be supplied.)
Brake-release switch (Note 8)	Allows remote release of Z-axis (24 VDC required)

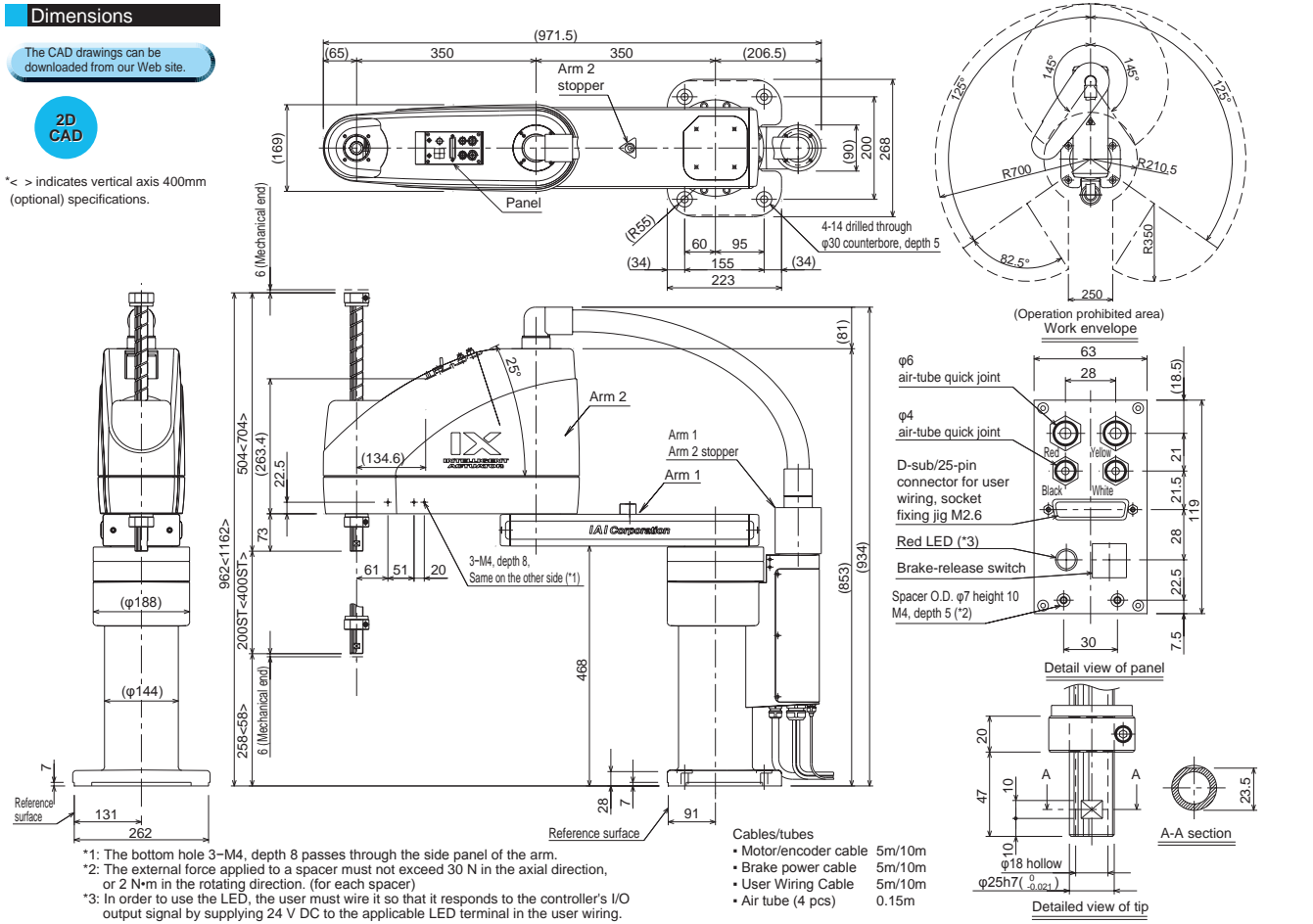
Ambient temperature/humidity	Temperature: 0-40 °C, humidity: 20-85%RH or less (no condensation)
Unit weight	58Kg
Applicable controller	T2: XSEL-PX/QX
Cable length (Note 9)	5L: 5 m (standard), 10L: 10 m (optional)

Dimensions

The CAD drawings can be downloaded from our Web site.



*< > indicates vertical axis 400mm (optional) specifications.



Operation prohibited area Work envelope

Detail view of panel

Detailed view of tip

Cables/tubes

- Motor/encoder cable 5m/10m
- Brake power cable 5m/10m
- User Wiring Cable 5m/10m
- Air tube (4 pcs) 0.15m

***1:** The bottom hole 3-M4, depth 8 passes through the side panel of the arm.
***2:** The external force applied to a spacer must not exceed 30 N in the axial direction, or 2 N·m in the rotating direction. (for each spacer)
***3:** In order to use the LED, the user must wire it so that it responds to the controller's I/O output signal by supplying 24 V DC to the applicable LED terminal in the user wiring.

Applicable Controller Specifications

Applicable Controller	Features	Maximum I/O points (inputs/outputs)	Power-supply voltage	Reference page
XSEL-PX-##-2[3]	Maximum 5 axes, 1600 [2400] W supported	192/192 points	Single-phase [Three-phase] 230 VAC	p. 37
XSEL-QX-##-2[3]	Safety Category 4 supported			

*The SCARA model with high-power specification [H] needs a 2.4 kW three-phase type controller XSEL-PX/QX-##-3.

Caution

For explanations of (Note 1) through (Note 9), refer to page 7.