

CX series SCARA robot

CX4/7/7L

Compact, high-precision automation
for versatile assembly and handling

- Flexible 4 – 7 kg payload for a wide range of assembly and handling applications
- High-speed, precise 6-axis performance with ± 0.01 mm repeatability
- Battery-less encoder for reduced maintenance



These labels are affixed to the RC800-A, RC700-E, and their compatible manipulators that comply with applicable safety standards (ISO/NRTL certified).



Model Number **CX4 - A 6 0 1 S** ☐ ☐

Payload

- ☐ 4 : 4 kg
☐ 7 : 7 kg

Controller

- ☐ A : RC800-A

Arm length

- ☐ 6 : 600mm (CX4-A601)
☐ 7 : 700mm (CX7-A701)
☐ 8 : 800mm (CX7-A901)

Brake equipment

- ☐ 1 : Brakes on all joints

Internal wiring

- ☐ : Available
☒ -NW : Not available

Mounting method

- ☐ : Tabletop Mounting
☐ W : Wall Mounting

Mounting method

- ☐ S : Standard
☐ C : Cleanroom & ESD
☐ P : Protection (IP67)

Specifications

Model name		CX4 / 7 / 7L		
Model number		CX4-A601□	CX7-A701□	CX7-A901□
Arm length	PointP:J1 - J5 center	601.6 mm	701.3 mm	901.0 mm
	J1-J6 Flange surface	674.1 mm	782.8 mm	982.5 mm
Payload	Maximum	4.0 kg*1	7.0 kg	
Repeatability	Joints #1 - #6	±0.01 mm	±0.015 mm	±0.02 mm
Max. operating speed	Joint #1	450 deg/s	414 deg/s	332 deg/s
	Joint #2	450 deg/s	389 deg/s	312 deg/s
	Joint #3	514 deg/s	487 deg/s	390 deg/s
	Joint #4	558 deg/s		
	Joint #5	570 deg/s	547 deg/s	
	Joint #6	851 deg/s		
Allowable moment of inertia*2	Joint #4	0.2 kg·m ²	0.49 kg·m ²	
	Joint #5	0.2 kg·m ²	0.49 kg·m ²	
	Joint #6	0.1 kg·m ²	0.15 kg·m ²	
Installation environment		Standard / Cleanroom*3 & ESD*4 / IP (IP67)		
Mounting method		Tabletop mounting (Ceiling mounting*5) / Wall mounting		
Weight (cables not included)		31 kg (IP: 32 kg)	33 kg (IP: 34 kg)	35 kg (IP: 36 kg)
Installed wire for customer use		D-Sub (9 pin x 1), RJ45 (8 pin x 1)		
Installed pneumatic tube for customer use		Φ4 mm x 4 (Allowable pressure 0.59 MPa [6 kgf / cm ²])		
Compatible controller		RC800-A		
Power Supply		AC200 - 240V Single phase		
Maximum rated capacity*6		1.8 kVA	2.0 kVA	
Cable length		Standard / Flexible: 3 / 5 / 10 / 15 / 20m		
Safety standard		CE, KCs, NRTL		

*1 : The allowable load can be up to 5.0 kg when the arm is in the downward position.

*2 : If the center of gravity is at the center of each arm. If the center of gravity is not at the center of each arm, set the eccentricity using the INERTIA command.

*3 : Cleanliness: Class ISO 3 (ISO 14644-1).

*4 : The ESD specification uses resin materials with anti-static treatment. This model prevents dust from adhering due to static electricity.

*5 : Manipulators are set to either "Floor mount" or "Wall mount" at shipment. To use a Manipulator as a "Ceiling mount," you need to change the model settings.

*6 : For details on how to change the model settings, refer to "CX4 Manipulator 2.5.5 Changing the Robot," "CX7 Manipulator 3.5.5 Changing the Robot," and "Epson RC+ User's Guide Robot Configuration."

*7 : Varies depending on the operating environment and program.

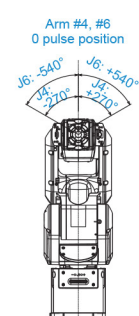
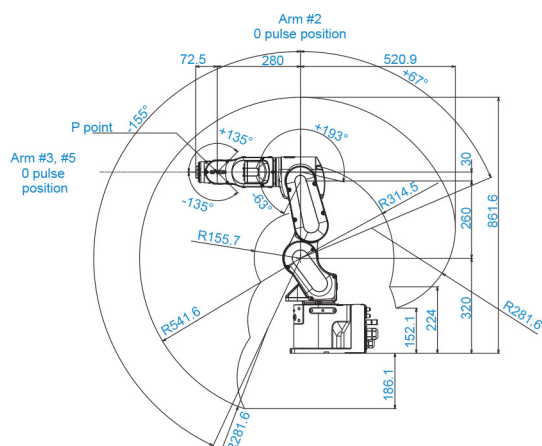
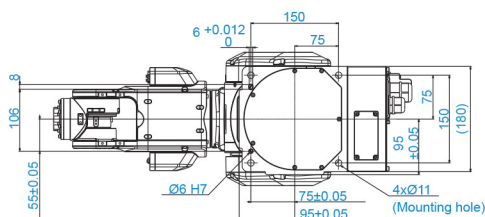
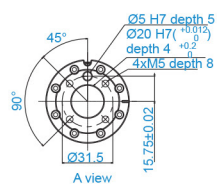
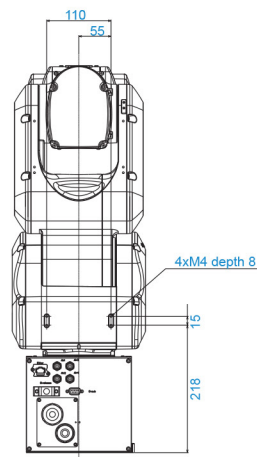
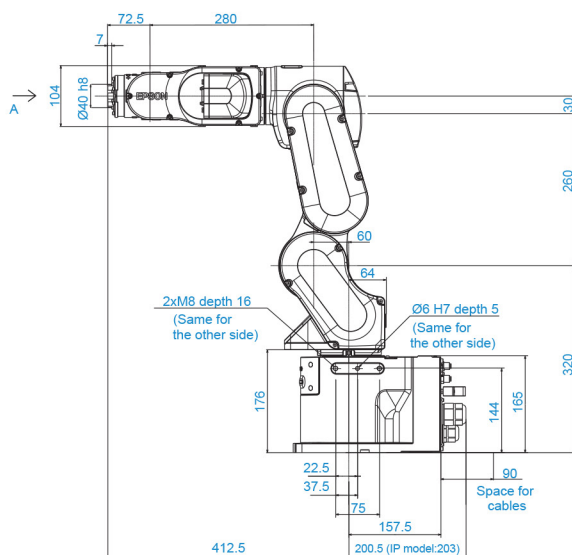
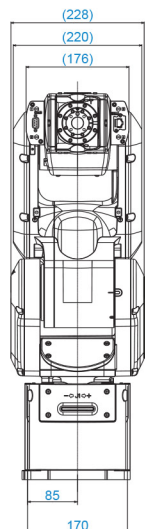
The values of the products listed in this sheet were measured under various conditions in in-house evaluations. Actual values may vary depending on the operating environment and conditions of use.

Technical drawing of the front view of a motor assembly. Dimensions are in mm.

Key dimensions and features:

- Overall width: 169
- Mounting hole spacing (center-to-center): 122.5
- Mounting hole diameter: 25
- Mounting hole depth: 4xM4 depth 8
- Internal feature diameter: 2xM3 depth 4
- Internal feature depth: 2xM4 depth 6
- Flange thicknesses: 15, 12.5, 84.5, 12.5, 15
- Internal hole diameter: 4xM4 depth 8
- Internal hole spacing: 178, 89, 30, 11, 26.5
- Internal hole diameter: 4xM4 depth 6
- Internal hole depth: 2xM3 depth 4
- Internal hole spacing: 101, 83, 41.5, 12, 6
- Internal hole diameter: 4xM4 depth 8
- Internal hole depth: 2xM4 depth 6
- Internal hole spacing: 112

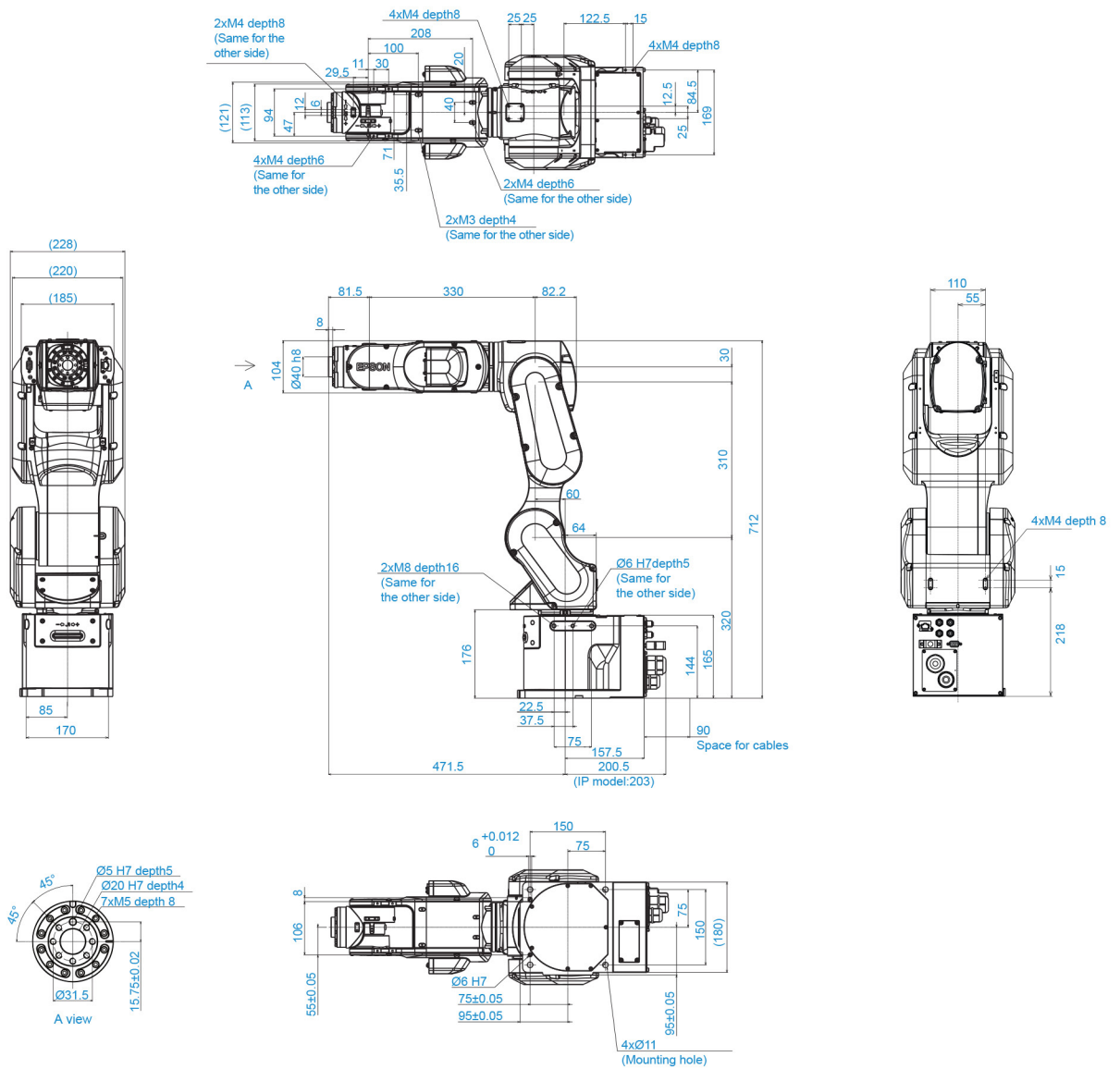
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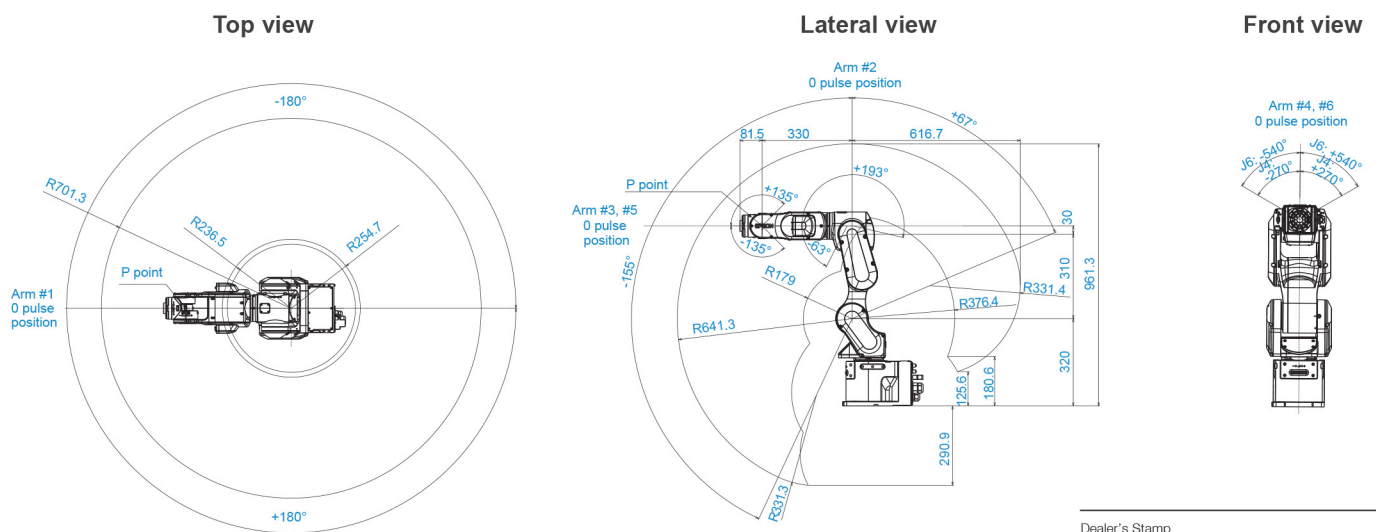
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A701



Motion Range



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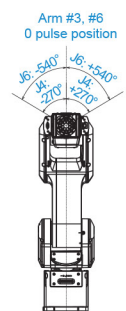
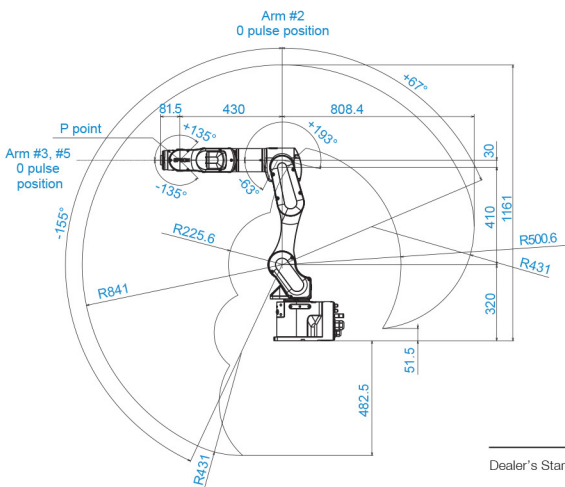
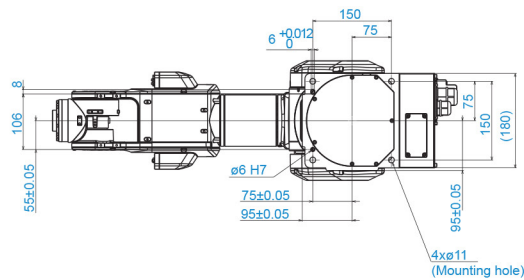
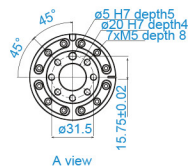
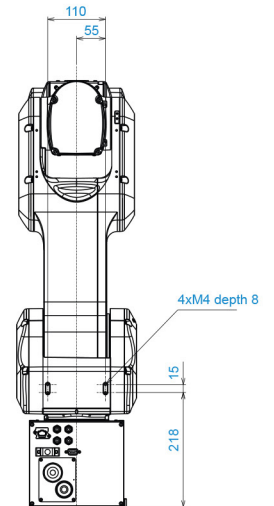
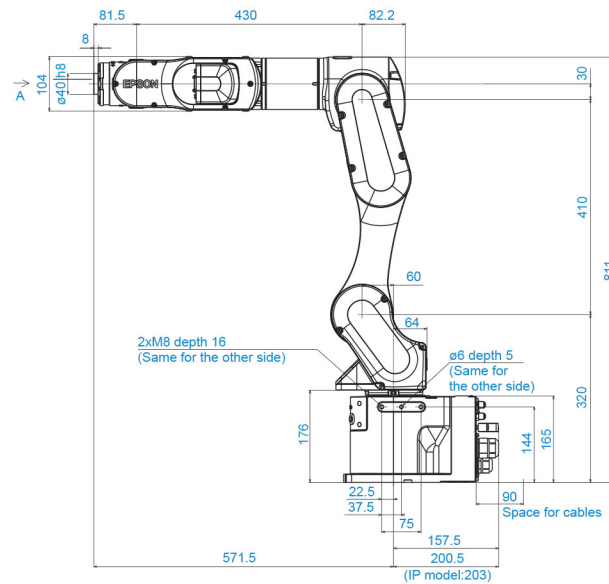
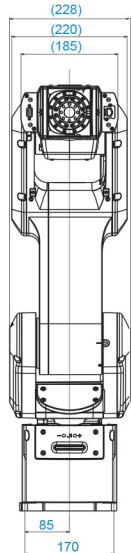
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Technical drawing of the rear view of the vehicle chassis, showing dimensions for the rear axle assembly. The drawing includes the following dimensions and labels:

- 4xM4 depth 8 (Top center)
- 2xM4 depth 8 (Same for the other side) (Top left)
- 100 (Distance between the two 4xM4 depth 8 points)
- 208 (Total width of the rear axle assembly)
- 11 (Distance from the left edge to the first 4xM4 depth 8 point)
- 30 (Distance between the two 4xM4 depth 8 points)
- 47 (Distance from the left edge to the first 2xM4 depth 8 point)
- 12.6 (Distance between the two 2xM4 depth 8 points)
- 71 (Distance from the left edge to the first 4xM4 depth 6 point)
- 40 (Distance between the two 4xM4 depth 6 points)
- 35.5 (Distance from the left edge to the first 4xM4 depth 6 point)
- 2xM4 depth 6 (Same for the other side) (Bottom center)
- 2xM3 depth 4 (Same for the other side) (Bottom center)
- 25 25 (Distance between the two 2xM4 depth 6 points)
- 122.5 (Distance from the center to the first 4xM4 depth 8 point)
- 15 (Distance between the two 4xM4 depth 8 points)
- 4xM4 depth 8 (Top right)
- 12.5 (Distance from the center to the first 2xM4 depth 6 point)
- 25 (Distance between the two 2xM4 depth 6 points)
- 84.5 (Distance from the center to the first 4xM4 depth 6 point)
- 169 (Total width of the rear chassis)
- 4xM4 depth 6 (Same for the other side) (Bottom left)



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