

# Industrial Robots control systems



Controller	XBC5M	XBC5	XBC5E	XBC6M
Dimensions (WxDxH)	448 mm x 446 mm x 268 mm	522 mm x 408 mm x 425 mm	690mm x 514mm x 835mm	420 mm x 317 mm x 120 mm
Weight	28 kg	35 kg	102kg	10 kg
Standard I/O	Input: 16; Output: 16	Input: 16; Output: 16	Input: 16; Output: 16	Input: 16; Output: 16
IP rating	IP40	IP54	IP54	IP40
Power supply	230VAC, voltage fluctuation within -15% to +10%, frequency variation within ±2%	230VAC or 3 x 380VAC(3L+N+PE)*1, voltage fluctuation within -15% to +10%, frequency variation within ±2%	3x380VAC(3L+PE); voltage fluctuation within -10%~10%, frequency variation within ±2%	230VAC, voltage fluctuation within -15% to +10%, frequency variation within ±2%
Typical scenario Average power consumption	0.22kW (NB4 series) 0.52kW (XB7 series) 0.27kW (XB10 R1206)	0.22kW (NB4 series) 0.52kW (XB7 series) 0.27kW (XB10 R1206) 0.63kW (NB12 series) 1.5kW (NB25 series)	2.1kW (NB80 series) 2.6kW (NB220 series)	0.22kW (NB4 series) 0.52kW (XB7 series) 0.27kW (XB10 R1206)
Operating temperature	0°C to +45°C	0°C to +45°C	0°C to +45°C	0°C to +50°C
Storage temperature	-10°C to +55°C	-10°C to +55°C	-10°C to +55°C	-10°C to +55°C
Maximum humidity for operation/storage	≤ 80% (non-condensing)	≤ 95% (non-condensing)	≤95%, (non-condensing)	≤ 80% (non-condensing)

\*1: 3x380VAC power supply for NB12 Series, NB25 Series, and 230VAC power supply for the rest.

## FlexPendant

### xPad2



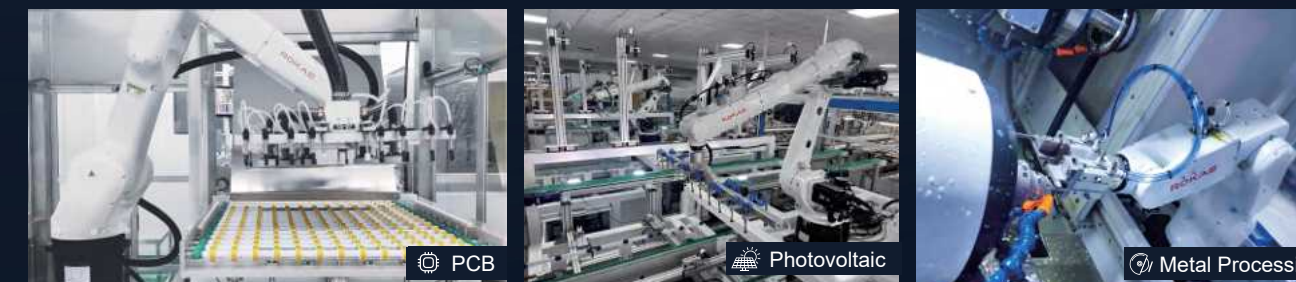
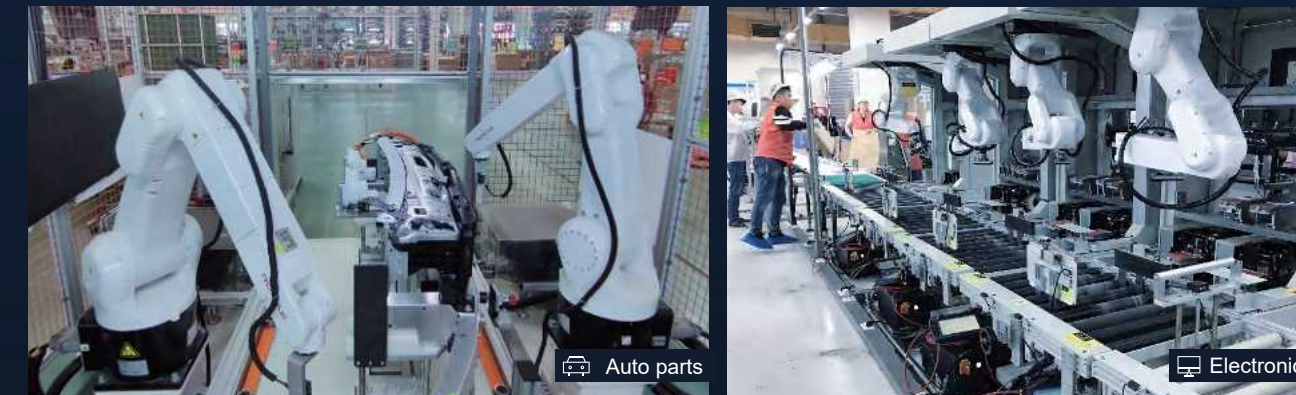
Dimensions	290 mm x 190 mm x 80 mm
Weight	840 g
Connection	Wired
Display	10.1-in LCD with a resolution of 1920x1200
IP rating	IP54



## ROKAE Industrial Robots

### How to change your industry

Based on modular technology, ROKAE has created excellent platform-based industrial robot products. On the basis of platform-based products, ROKAE combines product functions and strengthens product advantages in a market-oriented manner. With faster, more reliable, and compact product features, ROKAE robots are widely used in different production processes such as grinding, loading and unloading, deburring, inspection, gluing, sorting, assembly, and handling, bringing innovation to the target industries.



## Industrial Robot Series

Faster | More Reliable | More Precise



ROKAE

## Product Advantages



### Faster - Efficient Production

- Optimal hardware performance powered by self-developed control systems
- Remarkably adroit motion backed by modularized control architecture



### More Reliable - Stable Operation

- Rigorous design and continuous improvement bring you a reliable partner in industrial production
- IP67, CE, CR, KCs, and MTBF certifications



### More Precise - Flexible Integration

- Easier deployment thanks to the compact structure and hollow wrist
- Broader application due to various interfaces



### Easier to Use - Worry-free Operation

- Simple maintenance with timely, professional, and efficient service



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# Industrial Robots



Model	NB4-4/0.47	NB4h-4/0.58	XB7	XB7L	NB12-10/1.6	NB12-12/1.4	NB12-16/1.1	NB25-20/2.0	NB25-25/1.8	NB25-30/1.6	NB25-35/1.8	NB25h-12/2.2	NB25h-25/1.8	NB25h-35/1.8	NB80-80/2.2	NB80-50/2.6	NB220-220/2.7	NB220-170/2.7	NB220-150/3.2	
DOF	6	6	6		6			6				6			6		6			
Drive mode	AC servo	AC servo	AC servo		AC servo			AC servo				AC servo			AC servo		AC servo			
Reach	475 mm	580 mm	707 mm	906 mm	1,602 mm	1,442 mm	1,102 mm	2,013 mm	1,813 mm	1,617 mm	1,813 mm	2,258 mm	1,836 mm	1,836 mm	2,200 mm	2,598 mm	2,705 mm	2,705 mm	3,201 mm	
Repeatability	±0.02 mm	±0.02 mm	±0.02 mm	±0.03 mm	±0.03 mm			±0.05 mm				±0.04 mm	±0.03 mm	±0.04 mm	±0.06 mm	±0.08 mm	±0.07 mm	±0.07 mm	±0.08 mm	
Payload	4 kg	4 kg	7 kg		10 kg	12 kg	16 kg	20 kg	25 kg	30 kg	35 kg	12 kg	25 kg	35 kg	80 kg	50 kg	220 kg	170 kg	150 kg	
Range of motion (maximum speed)	Axis 1	-170° to +170° (450°/s)	-170° to +170° (450°/s)	-170° to +170° (440°/s)	-170° to +170° (355°/s)	-170° to +170° (245°/s)			-180° to +180° (204°/s)			-180° to +180° (200°/s)	-180° to +180° (200°/s)	-180° to +180° (180°/s)	-185° to +185°(170°/s)	-185° to +185°(170°/s)	-185° to +185°(120°/s)	-185° to +185°(130°/s)	-185° to +185°(130°/s)	
	Axis 2	-90° to +130° (360°/s)	-90° to +130° (318°/s)	-96° to +135° (355°/s)	-96° to +130° (355°/s)	-105° to +145° (245°/s)			-99° to +156° (186°/s)			-99° to +156° (186°/s)	-99° to +156° (185°/s)	-99° to +156° (185°/s)	-99° to +156° (180°/s)	-90° to +155°(145°/s)	-90° to +155°(180°/s)	-65° to +85°(110°/s)	-65° to +85°(115°/s)	-65° to +85°(115°/s)
	Axis 3	-200° to +55° (360°/s)	-200° to +55° (288°/s)	-195° to +65° (440°/s)	-195° to +65° (355°/s)	-210° to +70° (290°/s)			-200° to +75° (182°/s)			-200° to +75° (182°/s)	-200° to +75° (180°/s)	-200° to +75° (180°/s)	-200° to +75° (180°/s)	-210° to +80°(170°/s)	-210° to +80°(180°/s)	-185° to +80°(110°/s)	-185° to +80°(120°/s)	-185° to +80°(120°/s)
	Axis 4	-170° to +170° (550°/s)	-170° to +170° (550°/s)	-170° to +170° (480°/s)		-200° to +200° (435°/s)			-180° to +180° (492°/s)			-180° to +180° (310°/s)	-215° to +215° (430°/s)	-215° to +215° (430°/s)	-215° to +215° (420°/s)	-200° to +200°(285°/s)	-200° to +200°(285°/s)	-200° to +200°(150°/s)	-200° to +200°(180°/s)	-200° to +200°(180°/s)
	Axis 5	-120° to +120° (450°/s)	-120° to +120° (450°/s)	-120° to +120° (450°/s)		-135° to +135° (450°/s)			-135° to +135° (450°/s)			-135° to +135° (360°/s)	-225° to +225° (460°/s)	-225° to +225° (430°/s)	-225° to +225° (360°/s)	-130° to +130°(285°/s)	-130° to +130°(285°/s)	-130° to +130°(150°/s)	-130° to +130°(180°/s)	-130° to +130°(180°/s)
	Axis 6	-360° to +360° (860°/s)	-360° to +360° (612°/s)	-360° to +360° (705°/s)		-360° to +360° (705°/s)			-360° to +360° (705°/s)			-360° to +360° (444°/s)	-450° to +450° (730°/s)	-450° to +450° (730°/s)	-450° to +450° (450°/s)	-360° to +360°(285°/s)	-360° to +360°(360°/s)	-360° to +360°(220°/s)	-360° to +360°(260°/s)	-360° to +360°(260°/s)
Operating temperature	0°C to +40°C	0°C to +40°C	0°C to +40°C		0°C to +45°C			0°C to +40°C				0°C to +40°C			0°C to +45°C		0°C to +45°C			
Storage temperature	-10°C to +55°C	-10°C to +55°C	-10°C to +55°C		-10°C to +55°C			-10°C to +55°C				-10°C to +55°C			-10°C to +55°C		-10°C to +55°C			
IP rating	IP67	IP67	IP67	IP67	IP67			IP65 (Wrist IP67)				IP65 (Wrist IP67)			IP65 (Wrist IP67)		IP65 (Wrist IP67)			
Mounting method	Floor, Ceiling	Floor, Ceiling	Floor, Ceiling		Floor, Ceiling			Floor, Ceiling				Floor, Ceiling			Floor		Floor			
Noise level	≤70 dB(A)	≤75 dB(A)	≤70 dB(A)	≤80dB(A)	≤75 dB(A)			≤75 dB(A)				≤75dB(A)			—————		—————			
Weight	About 21 kg	About 22 kg	About 50 kg	About 52 kg	About 117 kg	About 115 kg	About 112 kg	About 264 kg	About 256 kg	About 252 kg	About 256 kg	About 276 kg	About 272 kg	About 273 kg	About 635 kg	About 645 kg	About 1,445 kg	About 1,445 kg	About 1,488 kg	
AIR	4-Φ4, 5bar	4-Φ4, 5bar	4-Φ4, 5bar		1-Φ8+2-Φ6, 8bar			2-Φ8, 8bar				2-Φ12, 8bar			2-Φ12, 8bar		2-Φ12, 8bar			
Signal	8 channels (30V, 0.5A)	8 channels (30V, 0.5A)	8 channels (30V, 0.5A)		24 channels (30V, 0.5A)			24 channels (30V, 0.5A)				2-12 channels (30V, 0.5A)			24 channels (30V, 0.5A)		24 channels (30V, 0.5A)			