Industrial Robots
control systems







Controller	XBC5M	XBC5	XBC5E
Dimensions (W×D×H)	448 mm x 446 mm x 268 mm	522 mm x 408 mm x 425 mm	690mm× 514mm× 835mm
Weight	28 kg	35 kg	102kg
Standard I/O	Input：16; Output：16	Input：16; Output：16	Input：16; Output：16
IP rating	IP40	IP54	IP54
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%
Typical scenario Average power consumption	0.22kW（NB4 series） 0.52kW（XB7 series） 0.27kW（XB10 R1206） 0.29kW（XB12 series）	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）
Operating temperature	0℃ to +45℃	0℃ to +45℃	0℃ to +45℃
Storage temperature	-10℃ to +55℃	-10℃ to +55℃	-10℃ to +55℃
Maximum humidity for operation/storage	≤ 80% (non-condensing)	≤ 95% (non-condensing)	≤95%，(non-condensing)

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



FlexPendant	xPad2
Dimensions	290 mm × 190 mm × 80 mm
Weight	840 g
Connection	Wired
Display	10.1-in LCD with a resolution of 1920×1200
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.

















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ROKAE

Industrial Robot Series

Faster | More Reliable | More Precise



ROKAE Robotics



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

- Rigourous 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

Industrial Robots



Model		NB4-4/0.47	NB4h-4/0.58	XB7	XB7L	XB10 R1206	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	NB25-12/2.1	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		6		
Drive mode		AC servo	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	1,206 mm	1,602 mm	1,442 mm	1,102 mm	2,013 mm	1,813 mm	1,617 mm	1,813 mm	2,110 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	±0.05 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	10 kg	12 kg	16 kg	20 kg	25 kg	30 kg	35 kg	12 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° (297°/s)	-170° to +170° (245°/s)			-180° to +180° (204°/s)			-180° to +180° (204°/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)	-95° to +125° (223°/s)	-105° to +145° (245°/s)			-99° to +156° (186°/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)	-195° to +65° (223°/s)	-210° to +70° (290°/s)			-200° to +75° (182°/s)			-200° to +75° (182°/s)	-200° to +85° (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)		-170° to +170° (480°/s)	-200° to +200° (435°/s)			-180° to +180° (492°/s)			-180° to +180° (310°/s)	-180° to +180° (492°/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)		-120° to +120° (360°/s)	-135° to +135° (450°/s)			-135° to +135° (450°/s)			-135° to +135° (360°/s)	-135° to +135° (450°/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° (705°/s)			-360° to +360° (444°/s)	-360° to +360° (705°/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℃ to +40℃	0℃ to +40℃	0℃ to +40℃		0℃ to +40℃	0℃ to +45℃			0℃ to +40℃					0℃ to +40℃			0℃ to +45℃		0℃ to +45℃		
Storage temperature		-10℃ to +55℃	-10℃ to +55℃	-10℃ to +55℃		-10℃ to +55℃	-10℃ to +55℃			-10℃ to +55℃					-10℃ to +55℃			-10℃ to +55℃		-10℃ to +55℃		
IP rating		IP67	IP67	IP67	IP67	IP54	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, Ceiling			Floor, Ceiling		Floor		
Noise level		≤70 dB(A)	≤75 dB(A)	≤ 70 dB(A)		≤ 70 dB(A)	≤75 dB(A)			≤75 dB(A)					≤75dB(A)			———		———		
Weight		About 21 kg	About 22 kg	About 50 kg	About 52 kg	About 76 kg	About 117 kg	About 115 kg	About 112 kg	About 264 kg	About 256 kg	About 252 kg	About 256 kg	About 262 kg	About 276 kg	About 272 kg	About 273 kg	About 635 kg	About 645 kg	About 1,138 kg	About 1,138 kg	About 1,165 kg
AIR		4-Φ4，5bar	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）		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）		