

Industrial Robot Series

Faster | More Reliable | More Precise

ROKAE



ROKAE

To be a world-leading robot expert

ROKAE industrial robots are faster, more reliable, and more precise.

Every second and every motion of industrial robots matter throughout manufacturing, and that explains why robot reliability and speed come first for us.

After years of updating and improving, our products have become faster and more reliable, with more functions integrated into a compact size. That makes applications easier, production more stable, and intelligent manufacturing more efficient.

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



Product series

NB220 series

Payload :	150kg	170kg	220kg
Reach :	3201mm	2705mm	2705mm

NB80 series

Payload :	50kg	80kg
Reach :	2598mm	2200mm

NB25 series

Payload :	12kg	20kg	25kg/35kg	30kg
Reach :	2110mm	2013mm	1813mm	1617mm

NB12 series

Payload :	10kg	12kg	16kg
Reach :	1602mm	1442mm	1102mm

XB10 series

Payload :	10kg
Reach :	1206mm

XB7 series

Payload :	7kg
Reach :	707mm 906mm

NB4 series

Payload :	4kg
Reach :	475mm 580mm

NB4 series

- Lighter, faster, and more compact compared to XB4
- IP67 rating
- More reliable for applications in tight spaces and harsh environments

Model		NB4-4/0.47	NB4h-4/0.58
DOF		6	6
Drive mode		AC servo	AC servo
Reach		475 mm	580 mm
Repeatability		±0.02 mm	±0.02 mm
Payload		4 kg	4 kg
Range of motion (maximum speed)	Axis 1	-170° to +170° (450°/s)	-170° to +170° (450°/s)
	Axis 2	-90° to +130° (360°/s)	-90° to +130° (318°/s)
	Axis 3	-200° to +55° (360°/s)	-200° to +55° (288°/s)
	Axis 4	-170° to +170° (550°/s)	-170° to +170° (550°/s)
	Axis 5	-120° to +120° (450°/s)	-120° to +120° (450°/s)
	Axis 6	-360° to +360° (860°/s)	-360° to +360° (612°/s)
Operating temperature		0°C to +40°C	0°C to +40°C
Storage temperature		-10°C to +55°C	-10°C to +55°C
IP rating		IP67	IP67
Mounting method		Floor, Ceiling	Floor, Ceiling
Noise level		≤70 dB(A)	≤75 dB(A)
Weight		About 21 kg	About 22 kg
AIR		4-Φ4, 5bar	4-Φ4, 5bar
Signal		8 channels (30V, 0.5A)	8 channels (30V, 0.5A)

Applications



Loading and unloading



Deburring



Inspection



Gluing



Assembly



Handling



XB7 series

- Flexible reach choices: 707/906 mm
- Satisfactory quality and takt time thanks to the amazing stability and best-in-class motion control

Model		XB7	XB7L
DOF		6	
Drive mode		AC servo	
Reach		707 mm	906 mm
Repeatability		±0.02 mm	±0.03 mm
Payload		7 kg	
Range of motion (maximum speed)	Axis 1	-170° to +170° (440°/s)	-170° to +170° (355°/s)
	Axis 2	-96° to +135° (355°/s)	-96° to +130° (355°/s)
	Axis 3	-195° to +65° (440°/s)	-195° to +65° (355°/s)
	Axis 4	-170° to +170° (480°/s)	
	Axis 5	-120° to +120° (450°/s)	
	Axis 6	-360° to +360° (705°/s)	
Operating temperature		0°C to +40°C	
Storage temperature		-10°C to +55°C	
IP rating		IP67	IP67
Mounting method		Floor, Ceiling	
Noise level		≤ 70 dB(A)	
Weight		About 50 kg	About 52 kg
AIR		4-Φ4, 5bar	
Signal		8 channels (30V, 0.5A)	

Applications



XB10 series

- All-cast aluminum body for the lightest weight and highest speed in its class
- Easy and compact deployment made possible by the fully enclosed arm with internal cables

Model **XB10 R1206**

DOF		6
Drive mode		AC servo
Reach		1,206 mm
Repeatability		±0.05 mm
Payload		10 kg
Range of motion (maximum speed)	Axis 1	-170° to +170° (297°/s)
	Axis 2	-95° to +125° (223°/s)
	Axis 3	-195° to +65° (223°/s)
	Axis 4	-170° to +170° (480°/s)
	Axis 5	-120° to +120° (360°/s)
	Axis 6	-360° to +360° (705°/s)
Operating temperature		0°C to +40°C
Storage temperature		-10°C to +55°C
IP rating		IP54
Mounting method		Floor, Ceiling
Noise level		≤ 70 dB(A)
Weight		About 76 kg
AIR		4-Φ4, 5bar
Signal		8 channels (30V, 0.5A)

Applications



Loading and unloading



Deburring



Inspection



Gluing



Sorting



Assembly



Handling

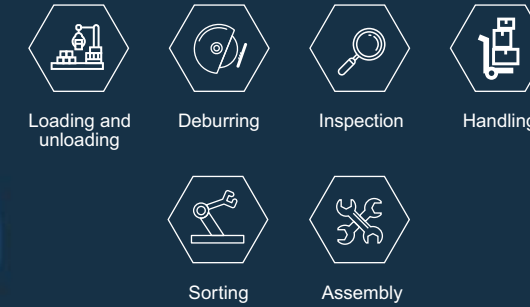


NB12 series

- Full-cast aluminum alloy body for 20% weight reduction compared with products of the same class. Running speed that is 20% faster for efficient and precise operation.
- Compact design with built-in motor and cable for easier and more flexible deployment
- IP67 protection that endures harsh environments

Model	NB12-10/1.6	NB12-12/1.4	NB12-16/1.1
DOF	6		
Drive mode	AC servo		
Reach	1,602 mm	1,442 mm	1,102 mm
Repeatability	±0.03 mm		
Payload	10 kg	12 kg	16 kg
Range of motion (maximum speed)	Axis 1	-170° to +170° (245°/s)	
	Axis 2	-105° to +145° (245°/s)	
	Axis 3	-210° to +70° (290°/s)	
	Axis 4	-270° to +270° (435°/s)	
	Axis 5	-135° to +135° (450°/s)	
	Axis 6	-360° to +360° (705°/s)	
Operating temperature	0°C to +45°C		
Storage temperature	-10°C to +55°C		
IP rating	IP67		
Mounting method	Floor, Ceiling		
Noise level	≤75 dB(A)		
Weight	About 117 kg	About 115 kg	About 112 kg
AIR	1-Φ8+2-Φ6, 8bar		
Signal	24 channels (30V, 0.5A)		

Applications



NB25 series

- Longer reach than products of the same class helps easily address a wide range of automation requirements
- ROKAE self-developed control system maximizes production efficiency while ensuring the service life
- A 25% increase in payload over the previous model on average
- High inertia motion characteristics optimized for high inertia and fast beat applications
- IP67 high protection rating of wrists allows working in extreme environments thanks to the newly optimized sealing design

Model		NB25-20/2.0	NB25-25/1.8	NB25-30/1.6	NB25-35/1.8	NB25-12/2.1
DOF		6				
Drive mode		AC servo				
Reach		2,013 mm	1,813 mm	1,617 mm	1,813 mm	2,110 mm
Repeatability		±0.05 mm				
Payload		20 kg	25 kg	30 kg	35 kg	12 kg
Range of motion (maximum speed)	Axis 1	-180° to +180° (204°/s)		-180° to +180° (204°/s)	-180° to +180° (204°/s)	
	Axis 2	-99° to +156° (186°/s)		-99° to +156° (186°/s)	-99° to +156° (186°/s)	
	Axis 3	-200° to +75° (182°/s)		-200° to +75° (182°/s)	-200° to +85° (182°/s)	
	Axis 4	-180° to +180° (492°/s)		-180° to +180° (310°/s)	-180° to +180° (492°/s)	
	Axis 5	-135° to +135° (450°/s)		-135° to +135° (360°/s)	-135° to +135° (450°/s)	
	Axis 6	-360° to +360° (705°/s)		-360° to +360° (444°/s)	-360° to +360° (705°/s)	
Operating temperature		0°C to +40°C				
Storage temperature		-10°C to +55°C				
IP rating		IP65 (Wrist IP67)				
Mounting method		Floor, Ceiling				
Noise level		≤75 dB(A)				
Weight		About 264 kg	About 256 kg	About 252 kg	About 256 kg	About 262 kg
AIR		2-Φ8, 8bar				
Signal		24 channels (30V, 0.5A)				

Applications

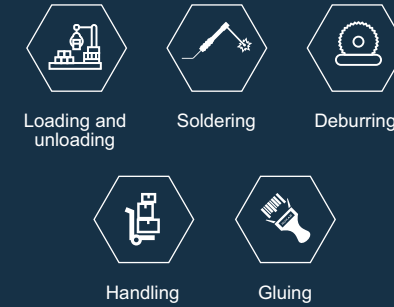


NB80 series

- Highest payload and longest reach among products of the same class helps easily address a wide range of automation needs
- High inertia motion characteristics optimized for high inertia applications
- Higher protection level against even the most demanding environments

Model		NB80-80/2.2	NB80-50/2.6
DOF		6	
Drive mode		AC servo	
Reach		2200 mm	2598 mm
Repeatability		±0.06 mm	±0.08 mm
Payload		80 kg	50 kg
Range of motion (maximum speed)	Axis 1	-185°~+185°(170°/s)	-185°~+185°(170°/s)
	Axis 2	-90°~+155°(145°/s)	-90°~+155°(180°/s)
	Axis 3	-210°~+80°(170°/s)	-210°~+80°(180°/s)
	Axis 4	-200°~+200°(285°/s)	-200°~+200°(285°/s)
	Axis 5	-130°~+130°(285°/s)	-130°~+130°(285°/s)
	Axis 6	-360°~+360°(285°/s)	-360°~+360°(360°/s)
Operating temperature		0°C to +45°C	
Storage temperature		-10°C to +55°C	
IP rating		IP65 (Wrist IP67)	
Mounting method		Floor, Ceiling	
Weight		About 635 kg	About 645 kg
AIR		2-Φ12, 8bar	
Signal		24 channels (30V, 0.5A)	

Applications

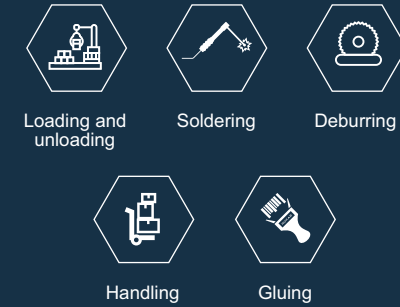


NB220 series

- Payload of 220 kg, with greater operating capacity under the same working conditions
- Reach of 3200 mm, cope with more application needs easily
- The whole machine IP65, wrist IP67 protection, deal with harsh environment freely

Model	NB220-220/2.7	NB220-170/2.7	NB220-150/3.2	
DOF	6			
Drive mode	AC servo			
Reach	2705 mm	2705 mm	3201 mm	
Repeatability	±0.07 mm	±0.07 mm	±0.08 mm	
Payload	220 kg	170 kg	150 kg	
Range of motion (maximum speed)	Axis 1	-185°~+185°(120°/s)	-185°~+185°(130°/s)	-185°~+185°(130°/s)
	Axis 2	-65°~+85°(110°/s)	-65°~+85°(115°/s)	-65°~+85°(115°/s)
	Axis 3	-185°~+80°(110°/s)	-185°~+80°(120°/s)	-185°~+80°(120°/s)
	Axis 4	-200°~+200°(150°/s)	-200°~+200°(180°/s)	-200°~+200°(180°/s)
	Axis 5	-130°~+130°(150°/s)	-130°~+130°(180°/s)	-130°~+130°(180°/s)
	Axis 6	-360°~+360°(220°/s)	-360°~+360°(260°/s)	-360°~+360°(260°/s)
Operating temperature	0°C to +45°C			
Storage temperature	-10°C to +55°C			
IP rating	IP65 (Wrist IP67)			
Mounting method	Floor			
Weight	About 1138 kg	About 1138 kg	About 1165 kg	
AIR	2-Φ12, 8bar			
Signal	24 channels (30V, 0.5A)			

Applications



XBC5M

- Compact design and small footprint
- Flexible deployment through vertical/horizontal installation

XBC5

- More convenient deployment with a size only 50% that of the previous generation
- Suitable for wet, acidic, and alkaline gas environment thanks to internal and external dual cycle cooling system and IP54 protection



Controller	XBC5M	XBC5
Dimensions (WxDxH)	448 mm x 446 mm x 268 mm	522 mm x 408 mm x 425 mm
Weight	28 kg	35 kg
Standard I/O	Input : 16; Output : 16	Input : 16; Output : 16
IP rating	IP40	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%
Rated power	1.3kW (NB4 series) 2.5kW (XB7、XB7L) 2.7kW (XB10 R1206)	1.3kW (NB4 series) , 2.5kW (XB7、XB7L) , 2.7kW (XB10 R1206) , 4.7kW(NB12-12/1.4、NB12-10/1.6、NB12-16/1.1), 9.1kW (NB25 series)
Operating temperature	0°C to +45°C	0°C to +45°C
Storage temperature	-10°C~+55°C	-10°C~+55°C
Maximum humidity for operation/storage	≤ 80% (non-condensing)	≤ 95% (non-condensing)

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

XBC5E

- Compact design and easy installation
- IP54 protection level against metal dust
- Rich interface, support multiple communication methods



Controller	XBC5E
Dimensions (WxDxH)	690 mm x 514 mm x 835 mm
Weight	102 kg
Standard I/O	Input : 16; Output : 16
IP rating	IP54
Power supply	3x380VAC(3L+PE) ; voltage fluctuation within -10%-10%, frequency variation within ±2%
Rated power	17.5kW (NB80 series) 、 32.6kW (NB220 series)
Operating temperature	0°C ~ +45°C
Storage temperature	-10°C~ +55°C
Maximum humidity for operation/storage	≤95% (non-condensing)

xPad2

- Modern ergonomic design
- Large multi-touch HD Screen, easier human-machine interaction
- Plug & play connection and shareable between robots
- Intuitive UI layout allowing quick start within 10 minutes



FlexPendant

Dimensions	290 mm x 190 mm x 80 mm
Weight	840 g
Connection	Wired
Display	10.1-in LCD with a resolution of 1,920x1,200
IP rating	IP54

xPad2

