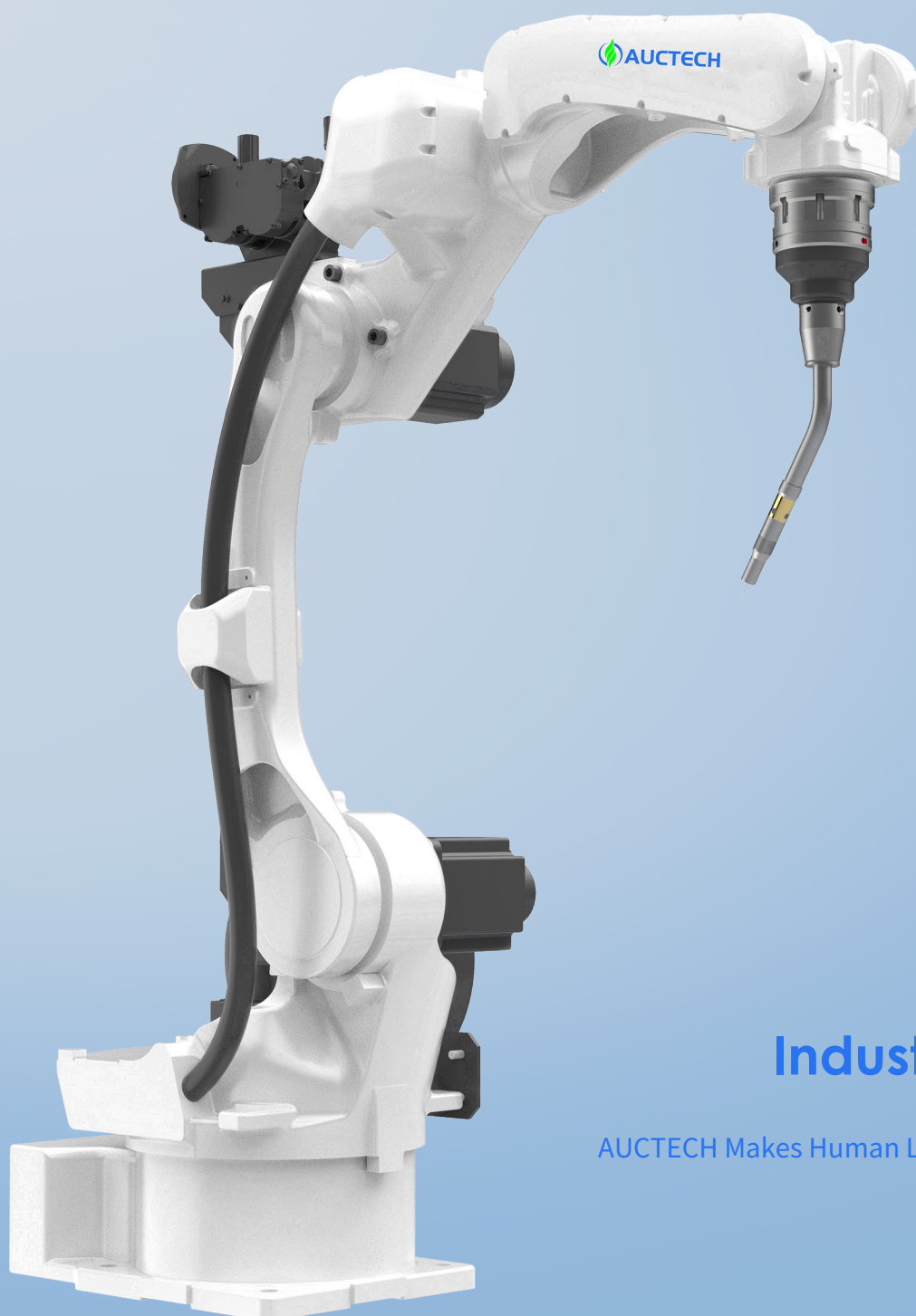




B Series Industrial Robot

AUCTECH Makes Human Life More Convenient

Higher Precision •

Higher Speed •

Higher Protection Level (IP67) •

Higher Price Performance •

BR-12-2010

BR-10-1440

BR-12Z-1550

BR-30-1700

BR-25E-1840

BR-80-2550



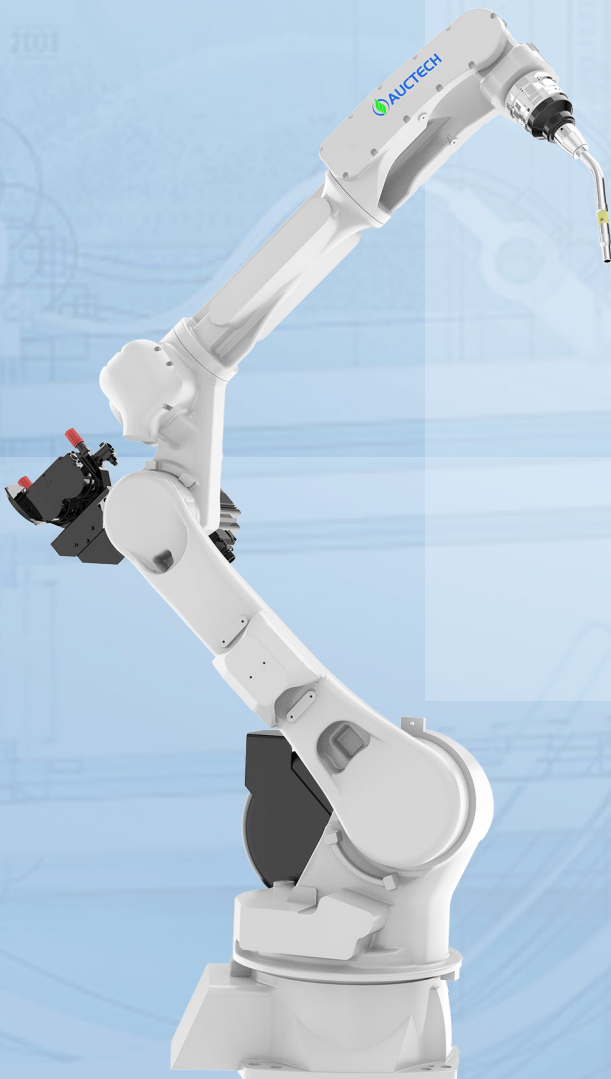
Company Profile



To be a world-leading robot expert

Guangzhou Auctech Automation Technology Limited is a company engaged in R&D, manufacturing, and sales of servo system, motion controller, industrial robots and collaborative robots.

AUCTECH 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.



Handling robots



BR-06SC-500



BR-06SC-600



BR-06SC-700



BR-07S-930



BR-12Z-1550



BR-10C-1488



BR-25E-1840



BR-10Z-2010

Die-cast and polishing robots



BR-30-1700

Welding robots



BR-10W-1440-D



BR-12-2010

Technical parameters

Robot body specifications



	BR-10C (D) -1488	BR-10Z (D) -1440	BR-20E (D) -1840	BR-10L (D) -2050
Axis	4-axis	6-axis	6-axis	6-axis
Motion radius (mm)	1488	1440	1840	2050
Payload	10KG	10KG	20KG	10KG
Protection class	J1、J2 (IP56), J3、J4 (IP67)	J1、J2 (IP56), J3、J4、J5、J6 (IP67)	J1、J2 (IP56), J3、J4、J5、J6 (IP67)	J1、J2 (IP56), J3、J4、J5、J6 (IP67)
Installation type	Floor type/frame type	Floor type/frame type	Floor type/frame type	Floor type/frame type
Power capacity	3.0KVA	4.5KVA	4.5KVA	4.5KVA
Input/outputs signals	Standare 16 in/16 out, 24VDC	Standare 16 in/16 out, 24VDC	Standare 16 in/16 out, 24VDC	Standare 16 in/16 out, 24VDC
Welding current				
Robot mass	209KG	271KG	367KG	341KG
Repeatability	±0.08mm	±0.05mm	±0.08mm	±0.08mm
Moving range				
Axis 1 S	±170°	±160°	±167°	±167°
Axis 2 L	-32°~+120°	-145°~+50°	-150°~+92°	-150°~+92°
Axis 3 U	-90°~+20°	-75°~+145°	-85°~+110°	-85°~+110°
Axis 4 R	±360°	±190°	±150°	±150°
Axis 5 B		-210°~+50°	-200°~+20°	-200°~+20°
Axis 6 T		±360°	±360°	±360°
Moving speed				
Axis 1 S	223°/s	199.5°/s	200°/s	200°/s
Axis 2 L	173°/s	159.3°/s	198°/s	198°/s
Axis 3 U	300°/s	199.5°/s	214°/s	214°/s
Axis 4 R	375°/s	392°/s	370°/s	370°/s
Axis 5 B		272°/s	407°/s	375°/s
Axis 6 T		374°/s	413°/s	375°/s
Applications	Loading & unloading, spraying, handling, cutting	Loading & unloading, spraying, handling, cutting	Loading & unloading, spraying, handling, cutting	Loading & unloading, spraying, handling, cutting



Please read and follow the instruction manual and relevant documents carefully before use.

The products listed on this page of this catalog are all-in-one machine series products.

If These products has any accidents, errors and misoperations that directly threaten personal safety, or is used for purposes that endanger human safety, please contact us, and we will make improvements.

All data, drawings and specifications provided in this catalog are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subjectmatter of the specific contract. No liability accepted for errors or omissions.

Technical parameters

Electrical cabinet specifications



Model	BR-10C (D)-1488	BR-10Z (D) -1440	BR-20E (D) -1840	BR-10L (D) -2050
Item	Specifications		Specifications	
Dimensions	630(W)*520(D)*580(H) mm (with protrusions)		817(W)*620(D)*720(H) mm (with protrusions)	
Cooling method	Natural cooling		Natural cooling	
Input power	1PH220VAC,50/60Hz		3PH AC380V 50/60Hz(built-in AC380V to AC220V isolated transformer)	
Grounding	Industrial grounding (grounding resistance below 100Ω special grounding)		Industrial grounding (grounding resistance below 100Ω special grounding)	
Input output signal	Common signals: 16 digital inputs, 6 digital outputs		Common signals: 16 digital inputs, 6 digital outputs	
Position control	Serial communication EtherCAT, TCP/IP		Serial communication EtherCAT, TCP/IP	
Memory capacity	JOB: 200000 steps. Robot instructions: 10000. (200MB)		JOB: 200000 steps. Robot instructions: 10000. (200MB)	
LAN(communication)	EtherCAT(1), TCP/IP (1)		EtherCAT(1), TCP/IP (1)	
Serial interface	RS485 (1), RS422 (1), RS232 (1), CAN (1), USB (1)		RS485 (1), RS422 (1), RS232 (1), CAN (1), USB (1)	
Control mode	Servo software		Servo software	
Drive unit	AC servo (6 axis), optional external axis		AC servo (6 axis), optional external axis	
Temperature	0~+45°C(use), -20~+60°C(storage)		0~+45°C(use), -20~+60°C(storage)	
Humidity	10~90% RH, no condensing		10~90% RH, no condensing	
Altitude	Below 1000m		Below 1000m	
	Degrade 1% for every additional 100m, max 2000m		Degrade 1% for every additional 100m, max 2000m	
Vibration	Below 4.9m/S ² (0.5G)		Below 4.9m/S ² (0.5G)	
Installation environment	No flammable substances, no corrosive gases, no corrosive liquids		No flammable substances, no corrosive gases, no corrosive liquids	
	No dust, cutting fluid (including coolant), organic solvents, lampblack, water, salt, chemicals, anti-rust oil		No dust, cutting fluid (including coolant), organic solvents, lampblack, water, salt, chemicals, anti-rust oil	
	No strong microwave, ultraviolet rays, X-rays, radiation exposure		No strong microwave, ultraviolet rays, X-rays, radiation exposure	

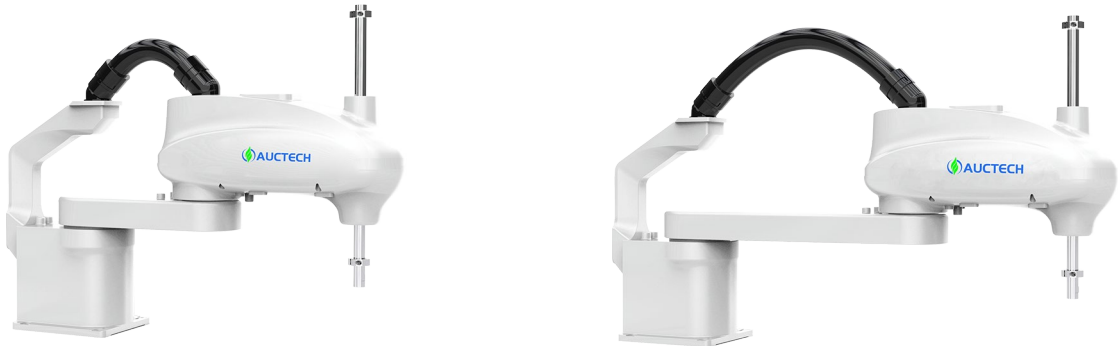


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Model	BR-06SC-500/600	BR-06SC-700
Axis	4-axis	4-axis
Motion radius (mm)	500/600	700
Payload	6KG	6KG
Protection class	J1,J2 (IP56), J3,J4 (IP67)	J1,J2 (IP56), J3,J4 (IP67)
Installation type	Floor type/frame type	Floor type/frame type
Power capacity	2.0KVA	2.0KVA
Input / output signals	Standare 16 in/16 out, 24VDC	Standare 16 in/16 out, 24VDC
Welding current		
Robot mass	30KG	30KG
Repeatability	±0.02mm	±0.02mm
Moving range		
Axis 1 S	±132°	±132°
Axis 2 L	±150°	±150°
Axis 3 U	200mm	200mm
Axis 4 R	±360°	±360°
Axis 5 B		
Axis 6 T		
Moving speed		
Axis 1 S	540°/s	540°/s
Axis 2 L	600°/s	600°/s
Axis 3 U	750°/s	750°/s
Axis 4 R	1717°/s	1717°/s
Axis 5 B		
Axis 6 T		
Applications	Loaing & unloading , 3C	Loaing & unloading , 3C



Model	BR-07S-930	BR-12Z-1550
Axis	6-axis	6-axis
Motion radius (mm)	930	1550
Payload	7KG	12KG
Protection class	J1、 J2 (IP56), J3、 J4、 J5、 J6 (IP67)	J1、 J2 (IP56), J3、 J4、 J5、 J6 (IP67)
Installation type	Floor type/frame type/ceiling type	Floor type/frame type/ceiling type
Power capacity	2.0KVA	3.0KVA
Input / output signals	Standare 16 in/16 out, 24VDC	Standare 16 in/16 out, 24VDC
Welding current		
Robot mass	60KG	199KG
Repeatability	±0.05mm	±0.05mm
Moving range		
Axis 1 S	±170°	±160°
Axis 2 L	±110°	+80°to-145°
Axis 3 U	+70°to-90°	+145°to-75°
Axis 4 R	±200°	±190°
Axis 5 B	±120°	+50°to-210°
Axis 6 T	±360°	±360°
Moving speed		
Axis 1 S	338°/s	285°/s
Axis 2 L	219°/s	285°/s
Axis 3 U	300°/s	375°/s
Axis 4 R	262°/s	375°/s
Axis 5 B	376°/s	450°/s
Axis 6 T	600°/s	450°/s
Applications	Loading & unloading, spraying, handling, cutting	Loading & unloading, spraying, handling, cutting



Model	BR-10C-1488	BR-25E-1840
Axis	4-axis	6-axis
Motion radius (mm)	1488	1840
Payload	10KG	25KG
Protection class	J1、J2 (IP56), J3、J4 (IP67)	J1、J2 (IP56), J3、J4、J5、J6 (IP67)
Installation type	Floor type/frame type/ceiling type	Floor type/frame type/ceiling type
Power capacity	3.0KVA	4.5KVA
Input / output signals	Standare 16 in/16 out, 24VDC	Standare 16 in/16 out, 24VDC
Welding current		
Robot mass	165KG	286KG
Repeatability	$\pm 0.08\text{mm}$	$\pm 0.08\text{mm}$
Moving range		
Axis 1 S	$\pm 170^\circ$	$\pm 167^\circ$
Axis 2 L	$-32^\circ\text{to}+80^\circ$	$+92^\circ\text{to}-150^\circ$
Axis 3 U	$+20^\circ\text{to}-90^\circ$	$+110^\circ\text{to}-85^\circ$
Axis 4 R	$\pm 360^\circ$	$\pm 150^\circ$
Axis 5 B		$+20^\circ\text{to}-200^\circ$
Axis 6 T		$\pm 360^\circ$
Moving speed		
Axis 1 S	$223^\circ/\text{s}$	$200^\circ/\text{s}$
Axis 2 L	$173^\circ/\text{s}$	$198^\circ/\text{s}$
Axis 3 U	$300^\circ/\text{s}$	$163^\circ/\text{s}$
Axis 4 R	$481^\circ/\text{s}$	$296^\circ/\text{s}$
Axis 5 B		$333^\circ/\text{s}$
Axis 6 T		$333^\circ/\text{s}$
Applications	Loading & unloading, spraying, handling, cutting	Loading & unloading, spraying, handling, cutting



Model	BR-10L-2050	BR-20L-2050
Axis	6-axis	6-axis
Motion radius (mm)	2050	2050
Payload	10KG	20KG
Protection class	J1、J2 (IP56), J3、J4、J5、J6 (IP67)	J1、J2 (IP56), J3、J4、J5、J6 (IP67)
Installation type	Floor type/frame type/ceiling type	Floor type/frame type/ceiling type
Power capacity	4.5KVA	6KVA
Input / output signals	Standare 16 in/16 out, 24VDC	Standare 16 in/16 out, 24VDC
Welding current		
Robot mass	260KG	260KG
Repeatability	±0.08mm	±0.08mm
Moving range		
Axis 1 S	±167°	±165°
Axis 2 L	+92°to-150°	+80°to-150°
Axis 3 U	+110°to-85°	+130°to-60°
Axis 4 R	±150°	±190°
Axis 5 B	+20°to-200°	+20°to-200°
Axis 6 T	±360°	±360°
Moving speed		
Axis 1 S	154°/s	190°/s
Axis 2 L	154°/s	148°/s
Axis 3 U	162°/s	144°/s
Axis 4 R	296°/s	256°/s
Axis 5 B	333°/s	371°/s
Axis 6 T	333°/s	371°/s
Applications	Loading & unloading, spraying, handling, cutting	Loading & unloading, spraying, handling, cutting



Model	BR-30-1700	BR-10W-1440-D
Axis	6-axis	6-axis
Motion radius (mm)	1700	1440
Payload	30KG	10KG
Protection class	J1、J2 (IP56), J3、J4、J5、J6 (IP67)	J1、J2 (IP56), J3、J4、J5、J6 (IP67)
Installation type	Floor type/frame type/ceiling type	Floor type/frame type/ceiling type
Power capacity	6KVA	4.5KVA
Input / output signals	Standare 16 in/16 out, 24VDC	Standare 16 in/16 out, 24VDC
Welding current		
Robot mass	331KG	210KG
Repeatability	±0.08mm	±0.05mm
Moving range		
Axis 1 S	±165°	±160°
Axis 2 L	+80°to-150°	+80°to-145°
Axis 3 U	+130°to-60°	+145°to-75°
Axis 4 R	±190°	±190°
Axis 5 B	+20°to-200°	+50°to-210°
Axis 6 T	±360°	±220°
Moving speed		
Axis 1 S	130°/s	209°/s
Axis 2 L	130°/s	199°/s
Axis 3 U	144°/s	209°/s
Axis 4 R	224°/s	314°/s
Axis 5 B	333°/s	272°/s
Axis 6 T	374°/s	1353°/s
Applications	Loading & unloading, spraying, handling, cutting	Loading & unloading, spraying, handling, cutting



Model	BR-80E-2250	BR-12-2010
Axis	6-axis	6-axis
Motion radius (mm)	2250	2010
Payload	80KG	12KG
Protection class	J1、J2 (IP56), J3、J4、J5、J6 (IP67)	J1、J2 (IP56), J3、J4、J5、J6 (IP67)
Installation type	Floor type/frame type/ceiling type	Floor type/frame type/ceiling type
Power capacity	19KVA	4.5KVA
Input / output signals	Standare 16 in/16 out, 24VDC	Standare 16 in/16 out, 24VDC
Welding current	Welding current 350A/500A (built-in hollow anti-collision)	Welding current 350A/500A (built-in hollow anti-collision)
Robot mass	678KG	313KG
Repeatability	±0.08mm	±0.08mm
Moving range		
Axis 1 S	±160°	±160°
Axis 2 L	+90°to-120°	+80°to-145°
Axis 3 U	+140°to-70°	+145°to-75°
Axis 4 R	±190°	±190°
Axis 5 B	+30°to-210°	+50°to-210°
Axis 6 T	±360°	±220°
Moving speed		
Axis 1 S	216°/s	179°/s
Axis 2 L	150°/s	179°/s
Axis 3 U	175°/s	162°/s
Axis 4 R	378°/s	315°/s
Axis 5 B	286°/s	276°/s
Axis 6 T	370°/s	1356°/s
Applications	Loading & unloading, spraying, handling, cutting	Loading & unloading, spraying, handling, cutting



Better Life with Robots

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