

## Industrial robots Positioners Product Catalog



### About us

Regal robotics is a high-tech robot manufacturer providing high quality industrial robots, positioners and various robotics solutions to our customers.

As one of the earliest companies who manufactures industrial robots, we offer professional, timely service and complete robot application solutions. Our robot system is expandable, stable and mature. Thanks to our strong R&D capabilities, more and more advanced features keep on being added to our product offerings.

After years of development, our products are widely used in industrial automation applications such as welding, painting, handling, palletizing and polishing, both in China and the global market.

Our industrial robots are developed by our company with independent intellectual property rights. The motion of each joint of the robot is realized by high performance servo drives, servo motors and a high precision gearbox.

The core advantages of our industrial robots include: competitive pricing, compact design, reliable quality, high speed, high precision, fast delivery, easy to operate and easy to maintain.





# WELDING ROBOT

## RGL10-1440-W

Faster, more accurate and more reliable.  
Suitable for all types of CO<sub>2</sub>/MAG/MIG/TIG welding and plasma cutting.

### Robot specifications

Basic data	
Model No.	RGL10-1440-W
Number of axes	6
Maximum payload	10 kg
Maximum stroke	1440mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	210 kg (without cabinet or welding machine)
Repeatability	±0.05 mm
Internal air duct	Φ10
Welding machines	Aotai MAG-350RL (CO <sub>2</sub> /MAG/MIG, standard) Aotai NBC-500RP (CO <sub>2</sub> /MAG/MIG, optional) Aotai MIG-500/630RP (CO <sub>2</sub> /MAG/MIG, optional) Aotai WSM-400R/WSME-315R (TIG, optional)

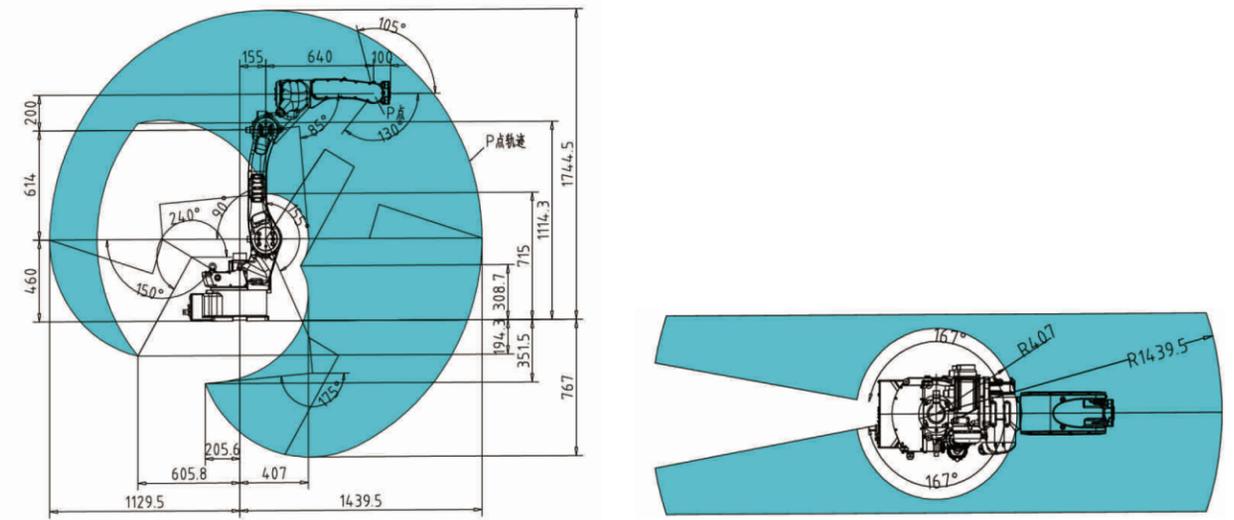
Motion range	
J1 axis S	±167°
J2 axis L	+80°~-145°
J3 axis U	+145°~-75°
J4 axis R	±190°
J5 axis B	+50°~-210°
J6 axis T	±220°

Speed with rated payload	
J1 axis S	285°/s
J2 axis L	247°/s
J3 axis U	285°/s
J4 axis R	392°/s
J5 axis B	272°/s
J6 axis T	1353°/s

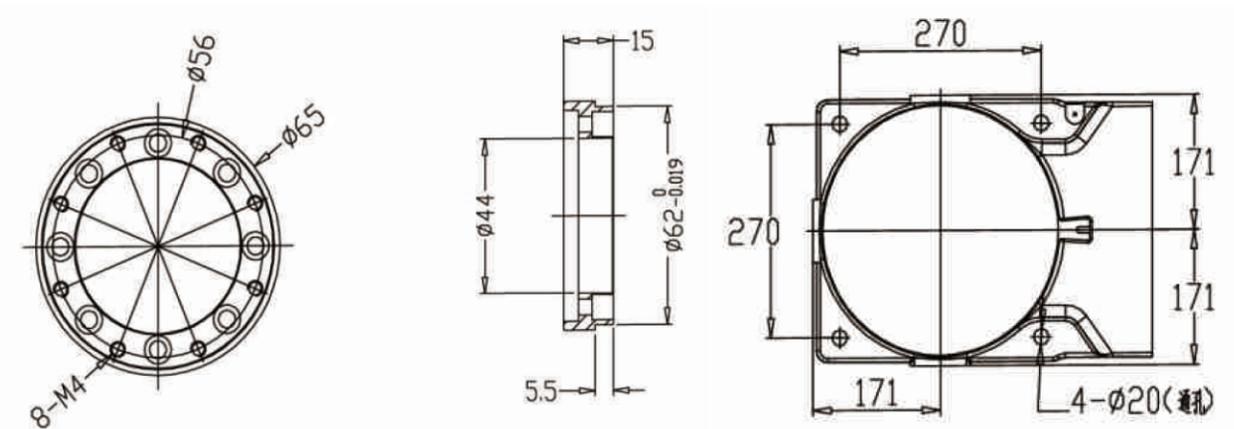
Electrical cabinet specifications	
Dimensions	650*495*580mm
Approx. weight	60KG
Cooling method	Natural cooling
Input power	220VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs • 2 analog outputs (optional)
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

### ▶ Working envelope (unit: mm)



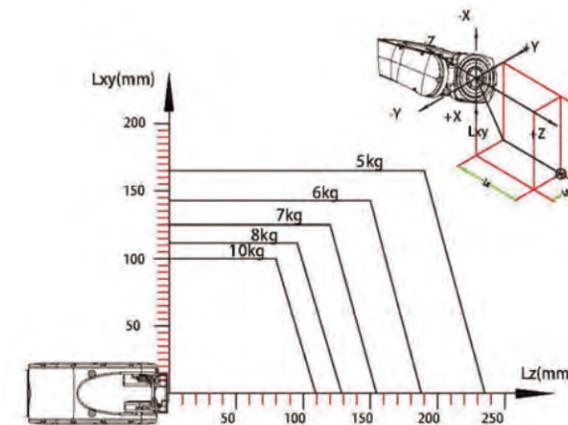
### ▶ Flange and base dimensions (unit: mm)



### ▶ Payload diagram

Flange

Base



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# WELDING ROBOT

## RGL06-2000-W

Faster, more accurate and more reliable.  
Suitable for all types of CO<sub>2</sub>/MAG/MIG/TIG welding and plasma cutting.

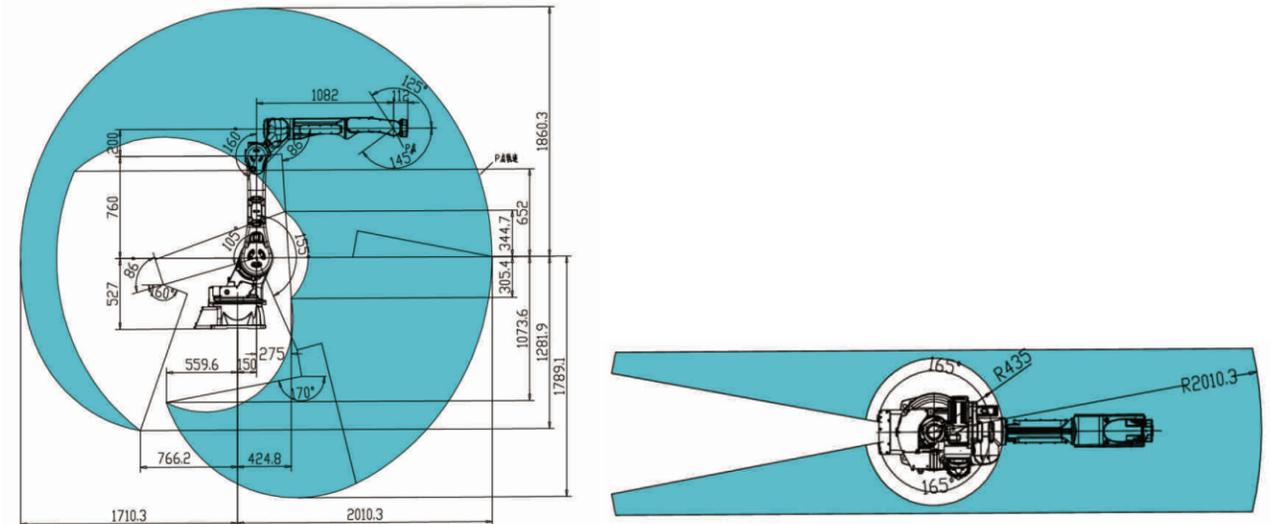
### Robot specifications

Basic data	
Model No.	RGL06-2000-W
Number of axes	6
Maximum payload	12 kg
Maximum stroke	2010mm
IP class	J1, J2 - IP56; J3, J4, J5, J6 - IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	313 kg (without cabinet or welding machine)
Repeatability	±0.05 mm
Internal air duct	Φ10
Welding machines	Aotai MAG-350RL (CO <sub>2</sub> /MAG/MIG, standard) Aotai NBC-500RP (CO <sub>2</sub> /MAG/MIG, optional) Aotai MIG-500/630RP (CO <sub>2</sub> /MAG/MIG, optional) Aotai WSM-400R/WSME-315R (TIG, optional)
Motion range	
J1 axis S	±165°
J2 axis L	+80°~-145°
J3 axis U	+145°~-75°
J4 axis R	±190°
J5 axis B	+50°~-210°
J6 axis T	±220°
Speed with rated payload	
J1 axis S	203°/s
J2 axis L	203°/s
J3 axis U	214°/s
J4 axis R	392°/s
J5 axis B	276°/s
J6 axis T	1356°/s

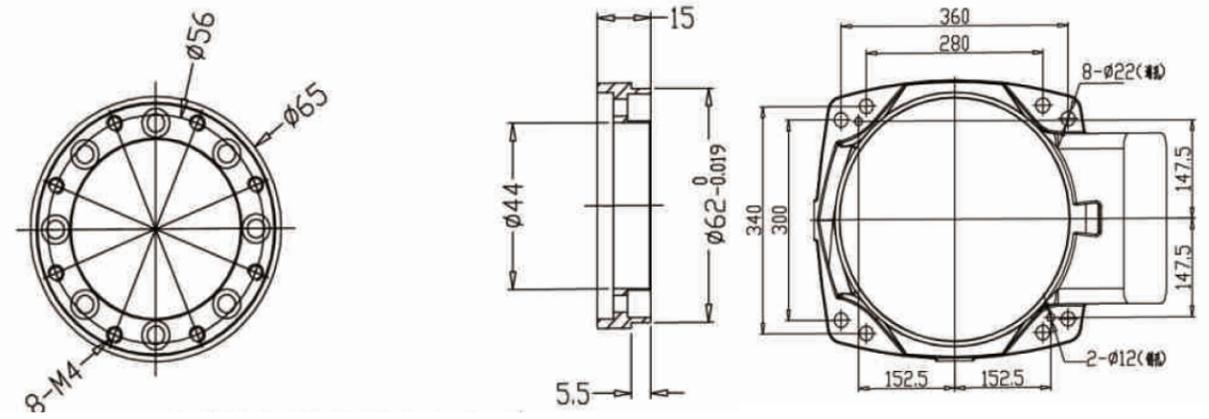
Electrical cabinet specifications	
Dimensions	650*495*580mm
Approx. weight	60KG
Cooling method	Natural cooling
Input power	220VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	<ul style="list-style-type: none"> <li>• 16 digital inputs</li> <li>• 16 digital outputs</li> <li>• 2 analog outputs (optional)</li> </ul>
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	<ul style="list-style-type: none"> <li>• With no corrosive or combustible gas</li> <li>• With no water, oil or drug splashing</li> <li>• With no electromagnetic field nearby</li> <li>• With no radiations nearby</li> </ul>

▶ Working envelope (unit: mm)



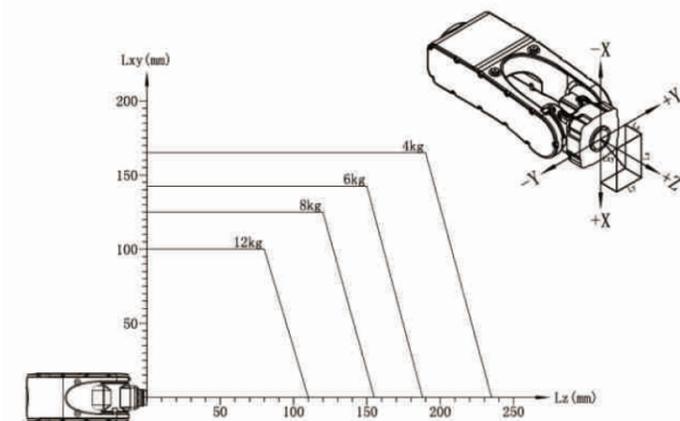
▶ Flange and base dimensions (unit: mm)



▶ Payload diagram

Flange

Base



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## 6-AXIS HANDLING ROBOT RGL05-850

Enclosed design, compact and agile.  
Suitable for pick-n-place, machine tending and palletizing.

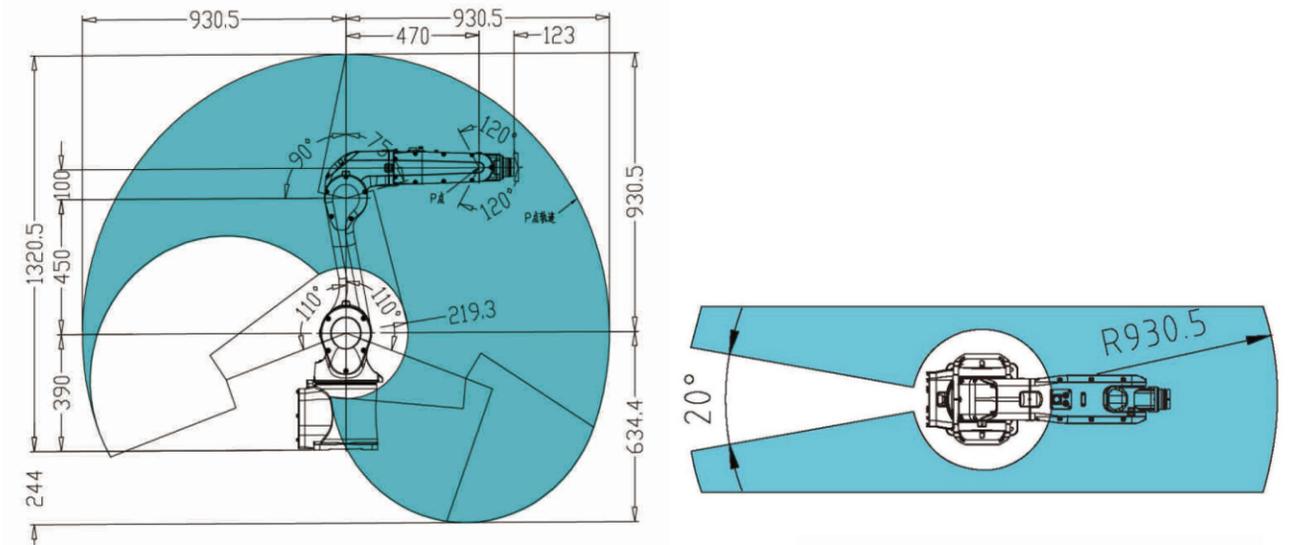
### Robot specifications

Basic data	
Model No.	RGL05-850
Number of axes	6
Maximum payload	7 kg
Maximum stroke	930mm
IP class	J1, J2, J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	65 kg (without cabinet )
Repeatability	±0.05 mm
Internal air duct	Φ6
Motion range	
J1 axis S	±170°
J2 axis L	±110°
J3 axis U	+70°~-90°
J4 axis R	±200°
J5 axis B	±120°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	338 °/s
J2 axis L	245 °/s
J3 axis U	300 °/s
J4 axis R	262 °/s
J5 axis B	376 °/s
J6 axis T	600 °/s

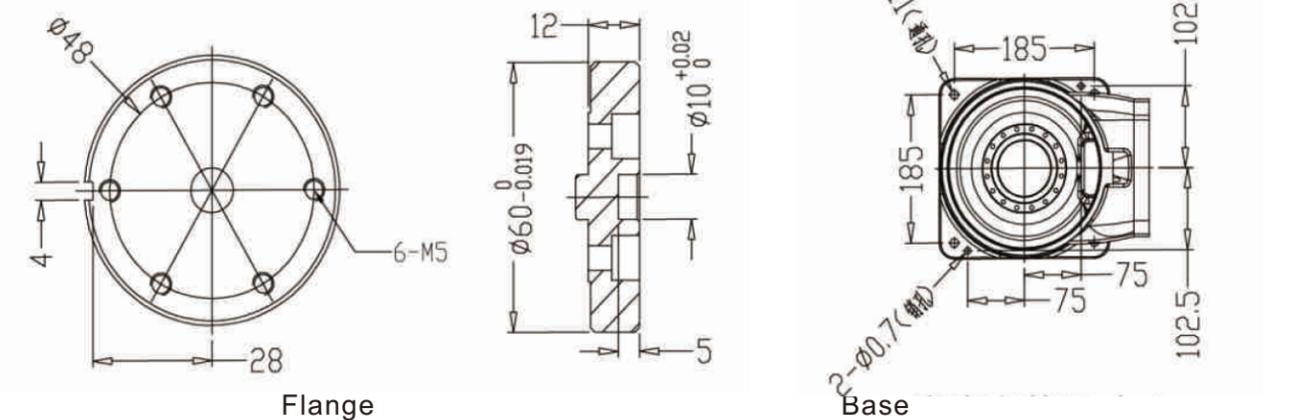
Electrical cabinet specifications	
Dimensions	490*400*365mm
Approx. weight	40KG
Cooling method	Natural cooling
Input power	220VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	<ul style="list-style-type: none"> <li>• 16 digital inputs</li> <li>• 16 digital outputs</li> <li>• 2 analog outputs (optional)</li> </ul>
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	<ul style="list-style-type: none"> <li>• With no corrosive or combustible gas</li> <li>• With no water, oil or drug splashing</li> <li>• With no electromagnetic field nearby</li> <li>• With no radiations nearby</li> </ul>

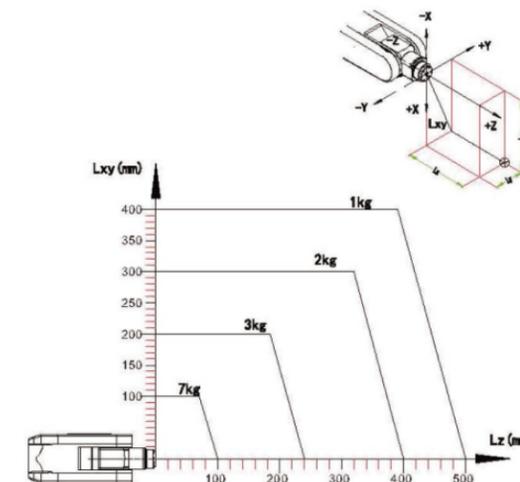
### ▶ Working envelope (unit: mm)



### ▶ Flange and base dimensions (unit: mm)



### ▶ Payload diagram



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## 6-AXIS HANDLING ROBOT

# RGL10-1440

Fast, accurate and reliable.  
Suitable for pick-n-place, machine tending, palletizing and painting.

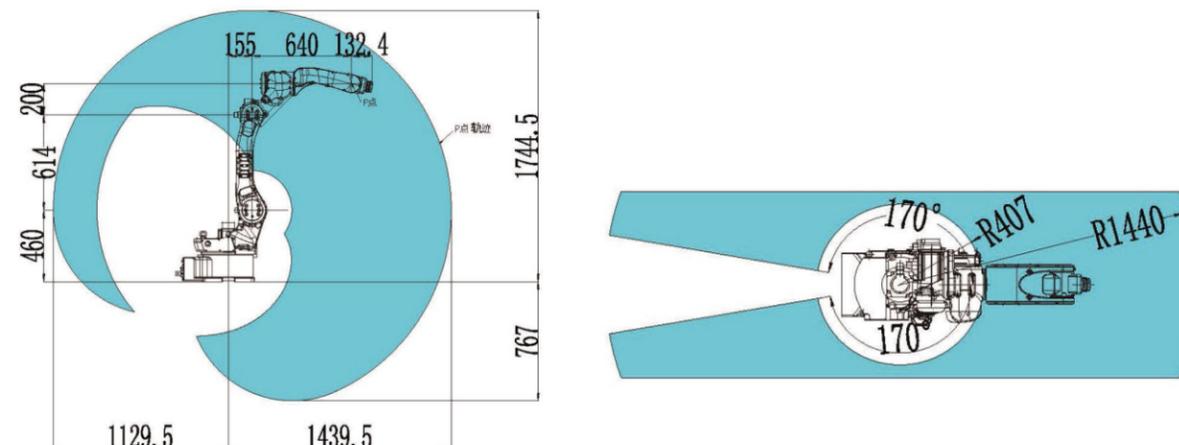
### Robot specifications

Basic data	
Model No.	RGL10-1440
Number of axes	6
Maximum payload	10 kg
Maximum stroke	1440mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	172 kg (without cabinet)
Repeatability	±0.05 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±160°
J2 axis L	+80°~-145°
J3 axis U	+145°~-75°
J4 axis R	±190°
J5 axis B	+50°~-210°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	199.5°/s
J2 axis L	174°/s
J3 axis U	199.5°/s
J4 axis R	392°/s
J5 axis B	272°/s
J6 axis T	480°/s

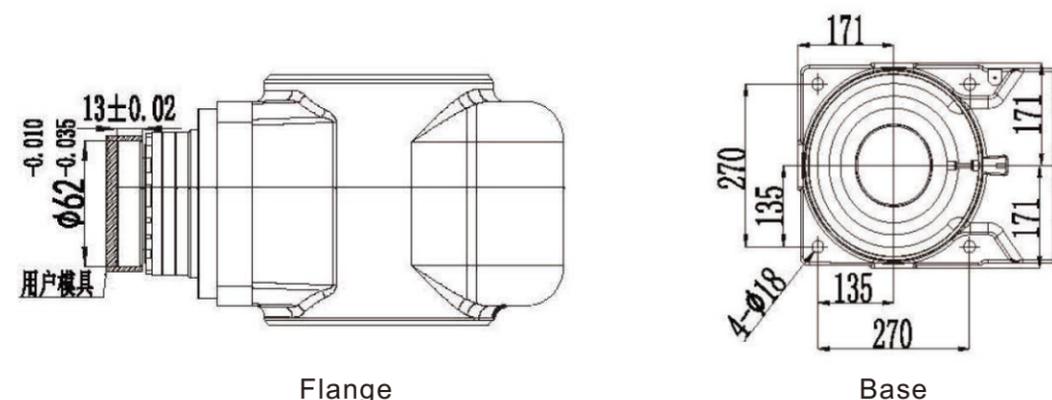
Electrical cabinet specifications	
Dimensions	650*495*580mm
Approx. weight	60KG
Cooling method	Natural cooling
Input power	220VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	<ul style="list-style-type: none"> <li>• 16 digital inputs</li> <li>• 16 digital outputs</li> <li>• 2 analog outputs (optional)</li> </ul>
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	<ul style="list-style-type: none"> <li>• With no corrosive or combustible gas</li> <li>• With no water, oil or drug splashing</li> <li>• With no electromagnetic field nearby</li> <li>• With no radiations nearby</li> </ul>

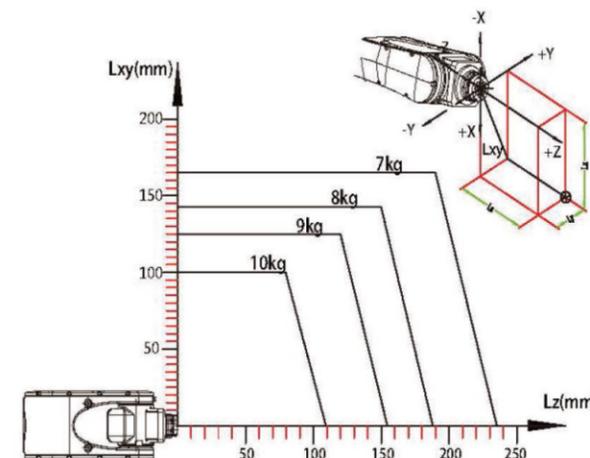
### ▶ Working envelope (unit: mm)



### ▶ Flange and base dimensions (unit: mm)



### ▶ Payload diagram



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## 6-AXIS HANDLING ROBOT

# RGL12-1550

Fast, accurate and reliable.  
Suitable for pick-n-place, machine tending, palletizing and painting.

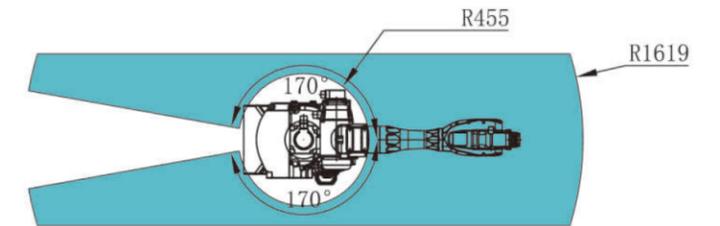
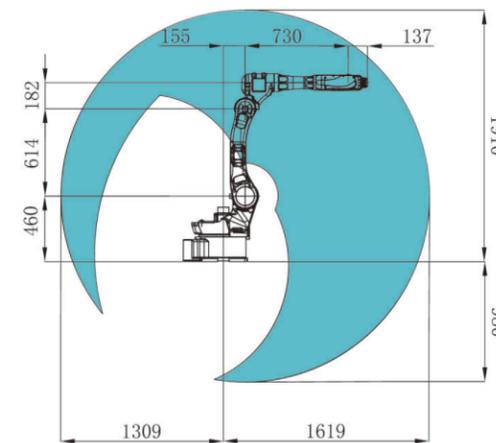
### Robot specifications

Basic data	
Model No.	RGL12-1550
Number of axes	6
Maximum payload	12 kg
Maximum stroke	1550mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	172 kg (without cabinet)
Repeatability	±0.05 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±160°
J2 axis L	+80°~-145°
J3 axis U	+145°~-75°
J4 axis R	±190°
J5 axis B	+20°~-200°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	257°/s
J2 axis L	223°/s
J3 axis U	257°/s
J4 axis R	272°/s
J5 axis B	275°/s
J6 axis T	540°/s

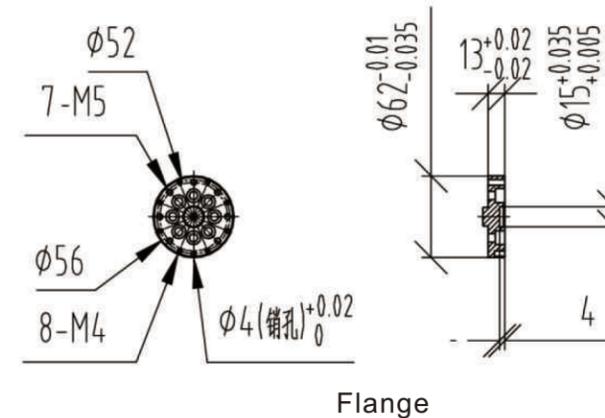
Electrical cabinet specifications	
Dimensions	650*495*580mm
Approx. weight	60KG
Cooling method	Natural cooling
Input power	220VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	<ul style="list-style-type: none"> <li>• 16 digital inputs</li> <li>• 16 digital outputs</li> <li>• 2 analog outputs (optional)</li> </ul>
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	<ul style="list-style-type: none"> <li>• With no corrosive or combustible gas</li> <li>• With no water, oil or drug splashing</li> <li>• With no electromagnetic field nearby</li> <li>• With no radiations nearby</li> </ul>

### ▶ Working envelope (unit: mm)



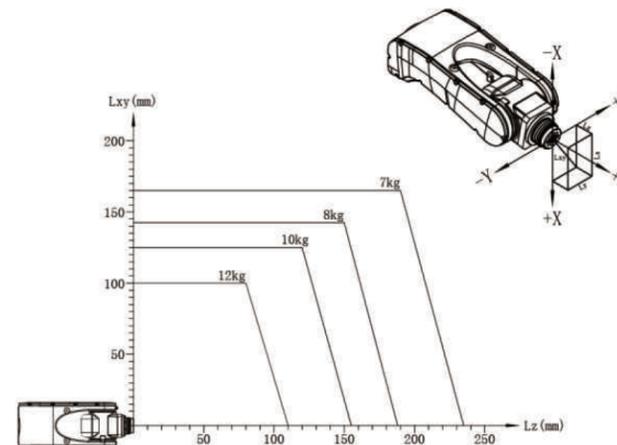
### ▶ Flange and base dimensions (unit: mm)



Flange

Base

### ▶ Payload diagram



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# 6-AXIS HANDLING ROBOT

## RGL10-2000

Special long-stroke design.  
Suitable for pick-n-place and palletizing.

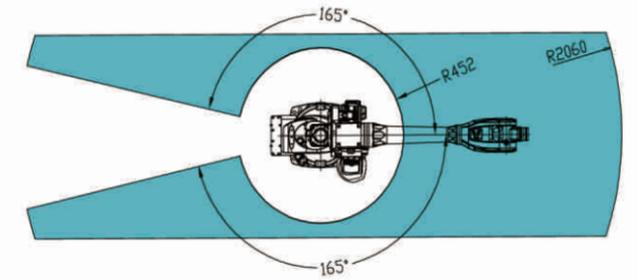
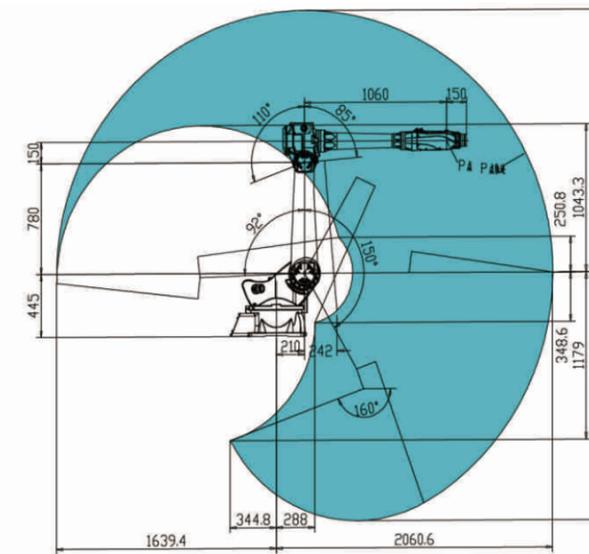
### Robot specifications

Basic data	
Model No.	RGL10-2000
Number of axes	6
Maximum payload	10 kg
Maximum stroke	2050mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	286 kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±167°
J2 axis L	+92°~-150°
J3 axis U	+110°~-85°
J4 axis R	±150°
J5 axis B	+20°~-200°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	181°/s
J2 axis L	181°/s
J3 axis U	190°/s
J4 axis R	375°/s
J5 axis B	412°/s
J6 axis T	600°/s

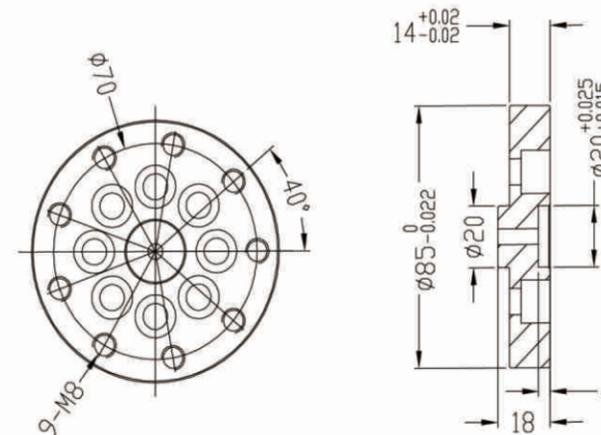
Electrical cabinet specifications	
Dimensions	650*495*580mm
Approx. weight	80KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	<ul style="list-style-type: none"> <li>• 16 digital inputs</li> <li>• 16 digital outputs</li> <li>• 2 analog outputs (optional)</li> </ul>
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	<ul style="list-style-type: none"> <li>• With no corrosive or combustible gas</li> <li>• With no water, oil or drug splashing</li> <li>• With no electromagnetic field nearby</li> <li>• With no radiations nearby</li> </ul>

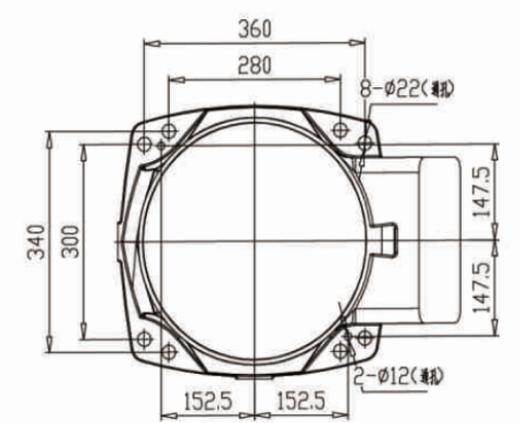
▶ Working envelope (unit: mm)



▶ Flange and base dimensions (unit: mm)

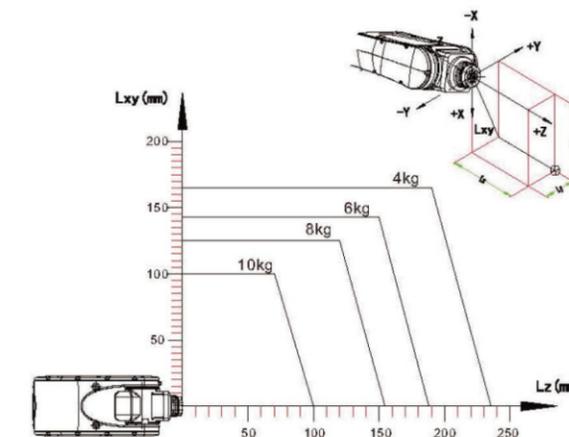


Flange



Base

▶ Payload diagram



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## 6-AXIS HANDLING ROBOT

# RGL30-1700

Enclosed design. Heavy duty.  
Suitable for pick-n-place, machine tending, palletizing, polishing and painting.

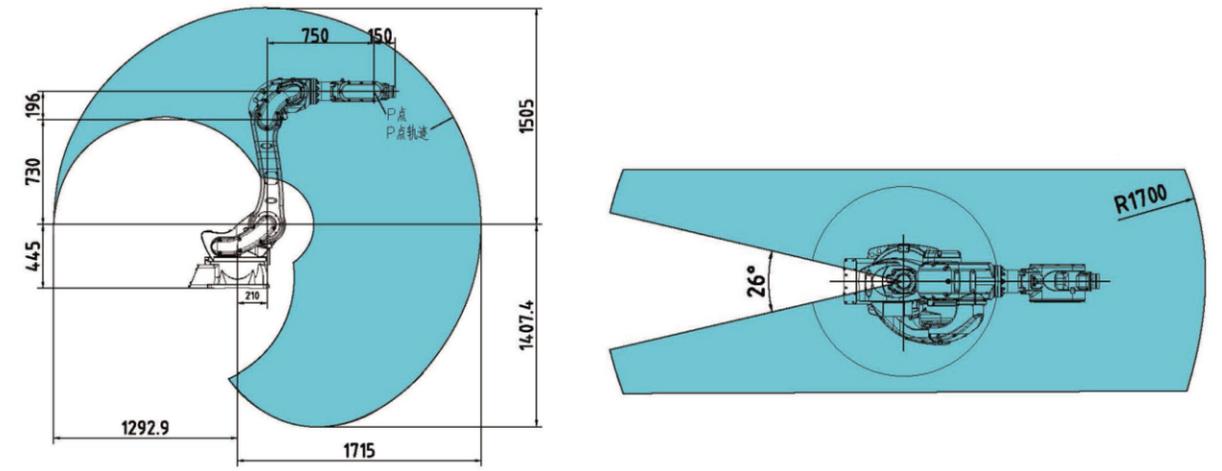
### Robot specifications

Basic data	
Model No.	RGL30-1700
Number of axes	6
Maximum payload	30 kg
Maximum stroke	1700mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	283 kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±165°
J2 axis L	+80°~-150°
J3 axis U	+130°~-60°
J4 axis R	±190°
J5 axis B	+20°~-200°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	130°/s
J2 axis L	130°/s
J3 axis U	144°/s
J4 axis R	224°/s
J5 axis B	333°/s
J6 axis T	374°/s

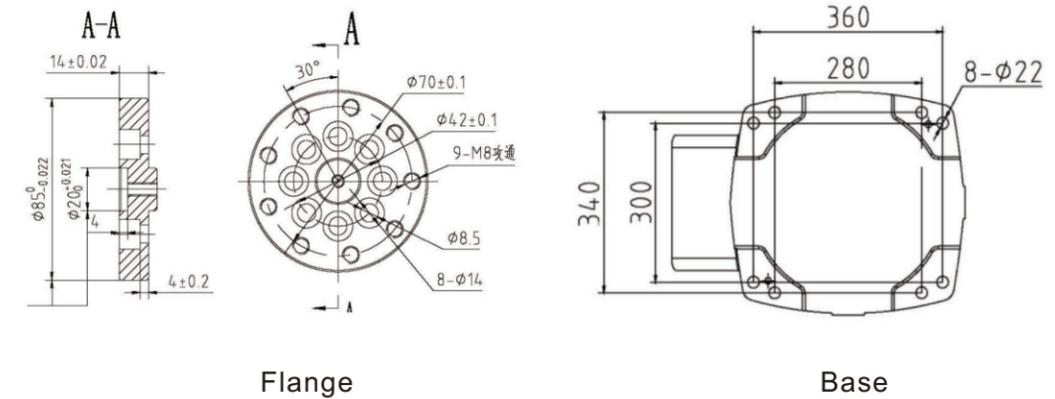
Electrical cabinet specifications	
Dimensions	650*495*580mm
Approx. weight	80KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	<ul style="list-style-type: none"> <li>• 16 digital inputs</li> <li>• 16 digital outputs</li> <li>• 2 analog outputs (optional)</li> </ul>
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	<ul style="list-style-type: none"> <li>• With no corrosive or combustible gas</li> <li>• With no water, oil or drug splashing</li> <li>• With no electromagnetic field nearby</li> <li>• With no radiations nearby</li> </ul>

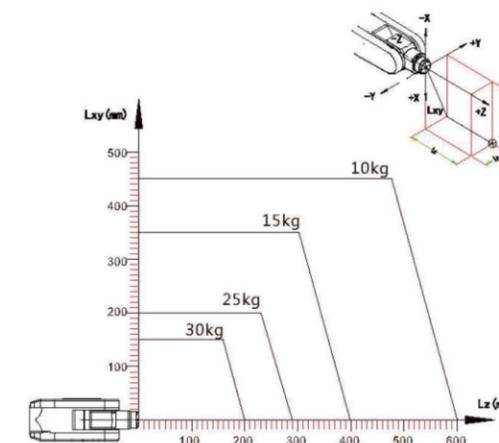
### ▶ Working envelope (unit: mm)



### ▶ Flange and base dimensions (unit: mm)



### ▶ Payload diagram



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## 6-AXIS HANDLING ROBOT

# RGL60-2680

Enclosed design. Heavy duty.  
Suitable for pick-n-place, machine tending, palletizing, polishing and painting.

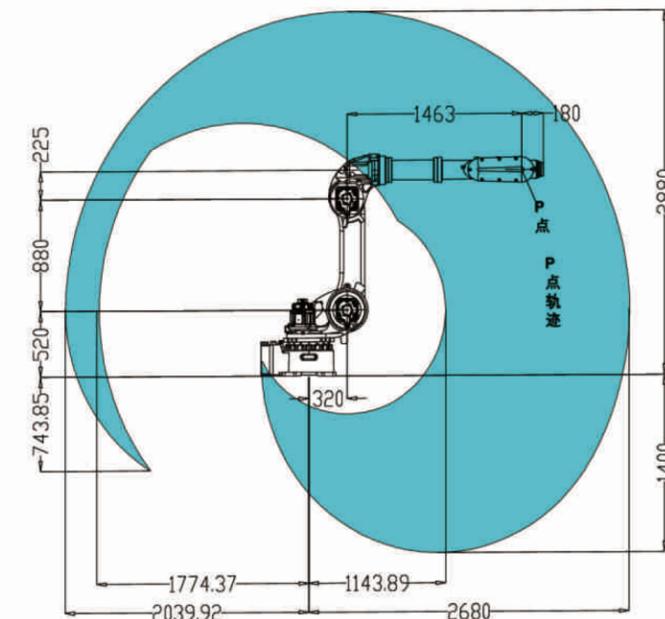
### Robot specifications

Basic data	
Model No.	RGL60-2680
Number of axes	6
Maximum payload	60 kg
Maximum stroke	2680mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type
Approx. weight	655 kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ8/10
Motion range	
J1 axis S	±165°
J2 axis L	+90°~-120°
J3 axis U	+140°~-70°
J4 axis R	±190°
J5 axis B	+30°~-210°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	214°/s
J2 axis L	149°/s
J3 axis U	175°/s
J4 axis R	378°/s
J5 axis B	285°/s
J6 axis T	370°/s

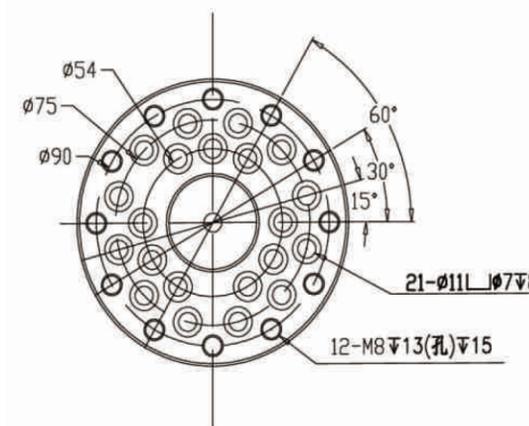
Electrical cabinet specifications	
Dimensions	850*550*920mm
Approx. weight	170KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	<ul style="list-style-type: none"> <li>• 16 digital inputs</li> <li>• 16 digital outputs</li> <li>• 2 analog outputs (optional)</li> </ul>
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	<ul style="list-style-type: none"> <li>• With no corrosive or combustible gas</li> <li>• With no water, oil or drug splashing</li> <li>• With no electromagnetic field nearby</li> <li>• With no radiations nearby</li> </ul>

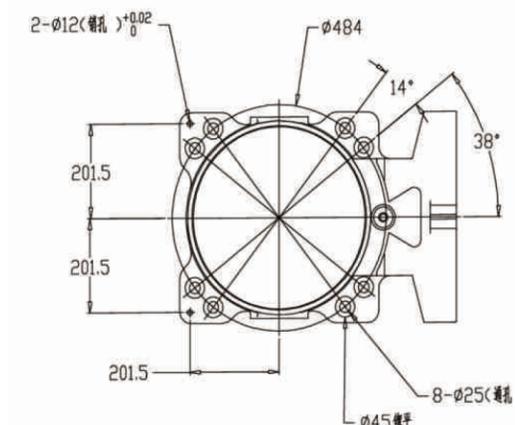
### ▶ Working envelope (unit: mm)



### ▶ Flange and base dimensions (unit: mm)

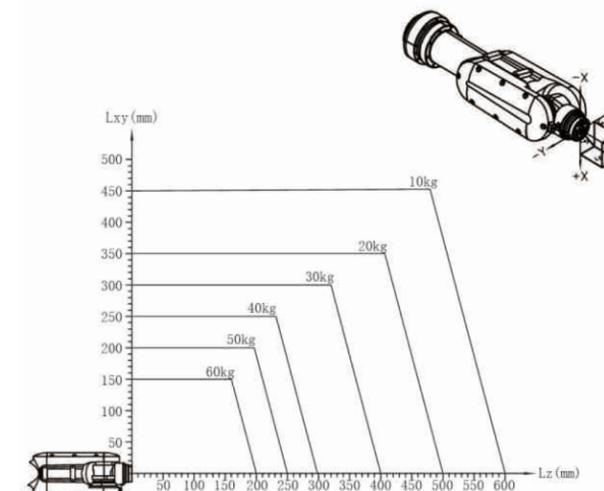


Flange



Base

### ▶ Payload diagram



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## 6-AXIS HANDLING ROBOT

# RGL80-2250

Enclosed design. Heavy duty.  
Suitable for pick-n-place, machine tending, palletizing, polishing and painting.

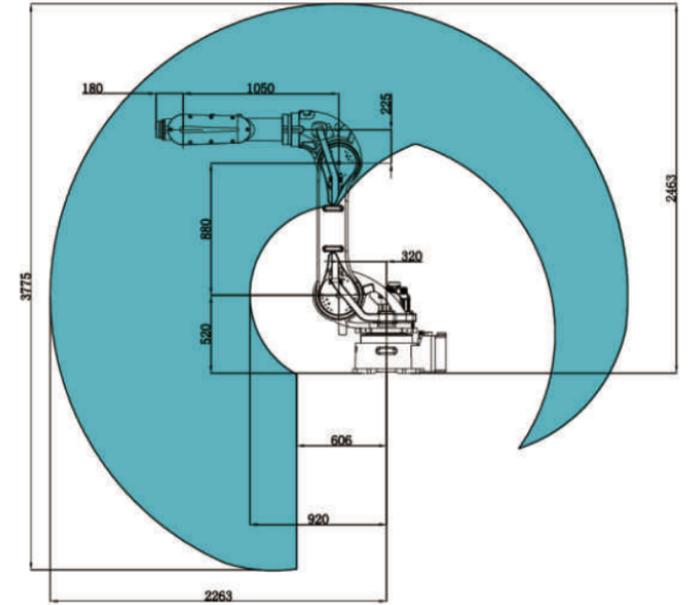
### Robot specifications

Basic data	
Model No.	RGL80-2250
Number of axes	6
Maximum payload	80 kg
Maximum stroke	2250mm
IP class	J1, J2 - IP56; J3, J4, J5, J6- IP67
Mounting position	Floor type, wall type, ceiling type
Approx. weight	678 kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ8/10
Motion range	
J1 axis S	±165°
J2 axis L	+90°~-120°
J3 axis U	+140°~-70°
J4 axis R	±190°
J5 axis B	+30°~-210°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	216/s
J2 axis L	150/s
J3 axis U	175/s
J4 axis R	378 /s
J5 axis B	286 /s
J6 axis T	370/s

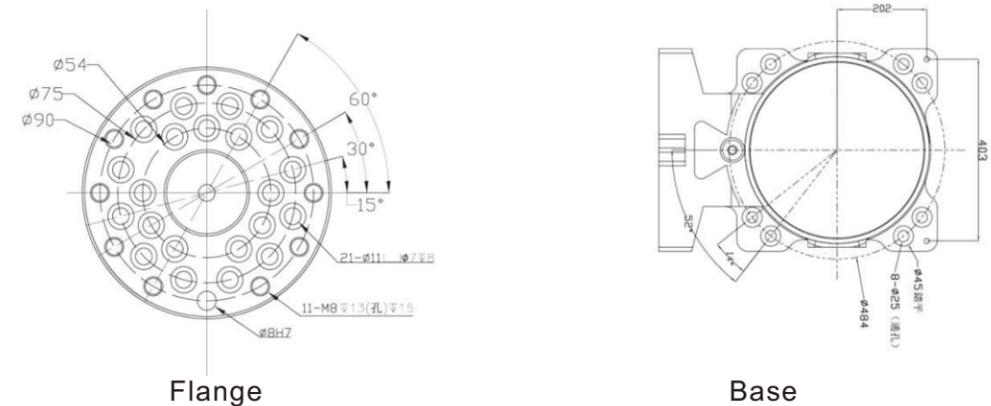
Electrical cabinet specifications	
Dimensions	850*550*920mm
Approx. weight	170KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	<ul style="list-style-type: none"> <li>• 16 digital inputs</li> <li>• 16 digital outputs</li> <li>• 2 analog outputs (optional)</li> </ul>
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	<ul style="list-style-type: none"> <li>• With no corrosive or combustible gas</li> <li>• With no water, oil or drug splashing</li> <li>• With no electromagnetic field nearby</li> <li>• With no radiations nearby</li> </ul>

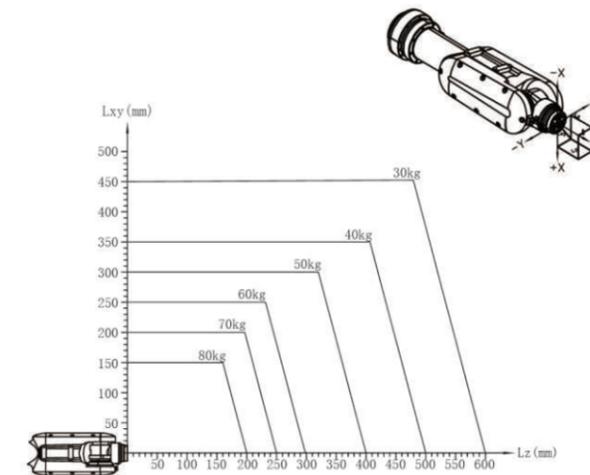
### ▶ Working envelope (unit: mm)



### ▶ Flange and base dimensions (unit: mm)



### ▶ Payload diagram



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## 6-AXIS HANDLING ROBOT RGL100A-2700

Special long-stroke design.  
Suitable for pick-n-place and palletizing.

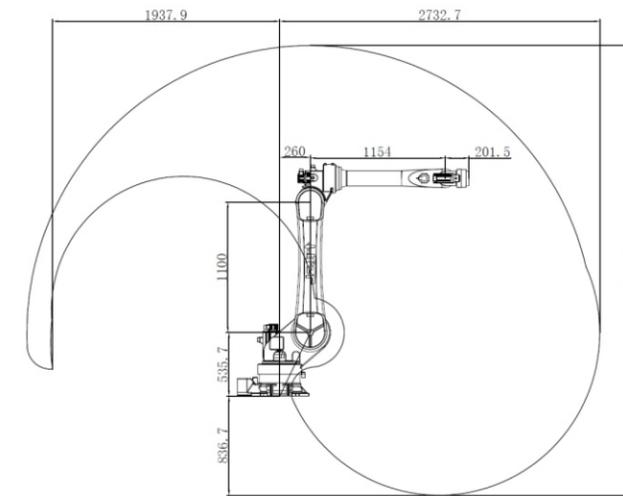
### Robot specifications

Basic data	
Model No.	RGL100A-2700
Number of axes	6
Maximum payload	100 kg
Maximum stroke	2700mm
IP class	J1, J2, J3, J4, J5, J6 - IP56
Mounting position	Floor type
Approx. weight	615 kg (without cabinet)
Repeatability	±0.15 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±165°
J2 axis L	+80°~-90°
J3 axis U	+105°~-75°
J4 axis R	±180°
J5 axis B	+98°~-90°
J6 axis T	±360°
Speed with rated payload	
J1 axis S	127°/s
J2 axis L	70°/s
J3 axis U	74.5°/s
J4 axis R	137°/s
J5 axis B	99°/s
J6 axis T	222°/s

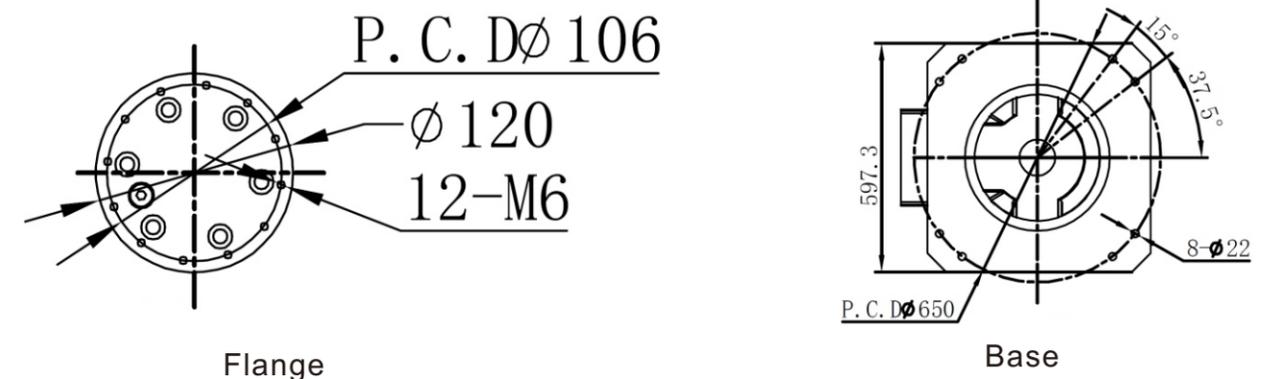
Electrical cabinet specifications	
Dimensions	560*500*730mm
Approx. weight	80KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	<ul style="list-style-type: none"> <li>• 16 digital inputs</li> <li>• 16 digital outputs</li> <li>• 2 analog outputs (optional)</li> </ul>
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	<ul style="list-style-type: none"> <li>• With no corrosive or combustible gas</li> <li>• With no water, oil or drug splashing</li> <li>• With no electromagnetic field nearby</li> <li>• With no radiations nearby</li> </ul>

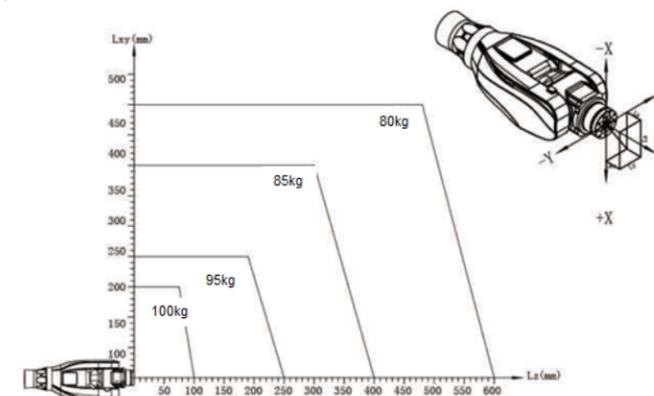
### ▶ Working envelope (unit: mm)



### ▶ Flange and base dimensions (unit: mm)



### ▶ Payload diagram



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# 4-AXIS HANDLING ROBOT

## RGL10B-1400

Fast, accurate and reliable.  
Suitable for pick-n-place and palletizing.

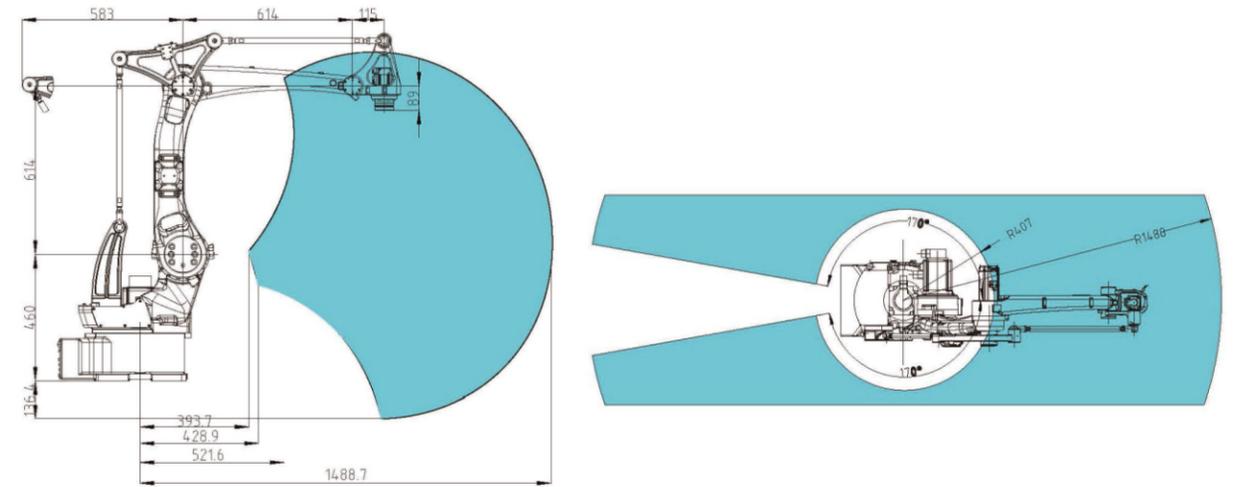
### Robot specifications

Basic data	
Model No.	RGL10B-1400
Number of axes	4
Maximum payload	12 kg
Maximum stroke	1488mm
IP class	J1, J2 - IP56; J3, J4- IP67
Mounting position	Floor type
Approx. weight	165 kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±170°
J2 axis L	+80°~-32°
J3 axis U	+20°~-90°
J4 axis R	±360°
Speed with rated payload	
J1 axis S	223°/s
J2 axis L	173°/s
J3 axis U	300°/s
J4 axis R	481°/s

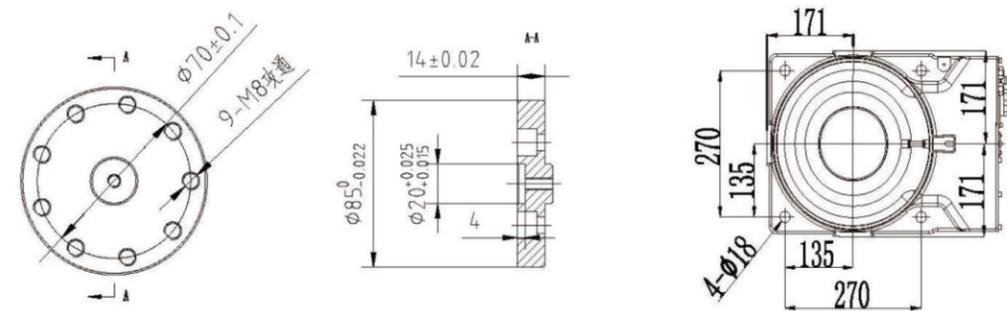
Electrical cabinet specifications	
Dimensions	490*400*365mm
Approx. weight	40KG
Cooling method	Natural cooling
Input power	220VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	• With no corrosive or combustible gas • With no water, oil or drug splashing • With no electromagnetic field nearby • With no radiations nearby

### ▶ Working envelope (unit: mm)



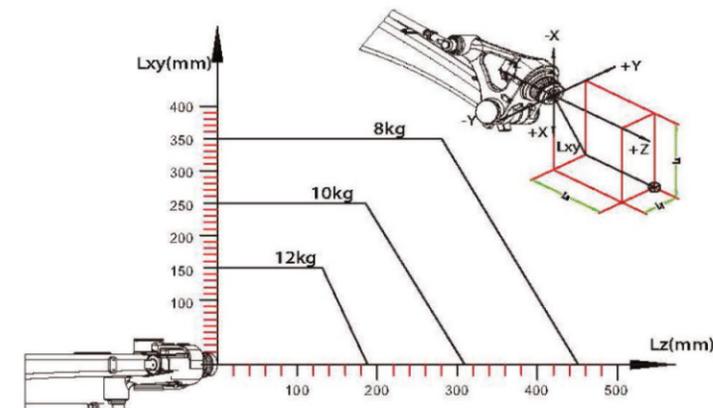
### ▶ Flange and base dimensions (unit: mm)



Flange

Base

### ▶ Payload diagram



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## 4-AXIS HANDLING ROBOT

# RGL25B-1800

Fast, accurate and reliable.  
Suitable for pick-n-place and palletizing.

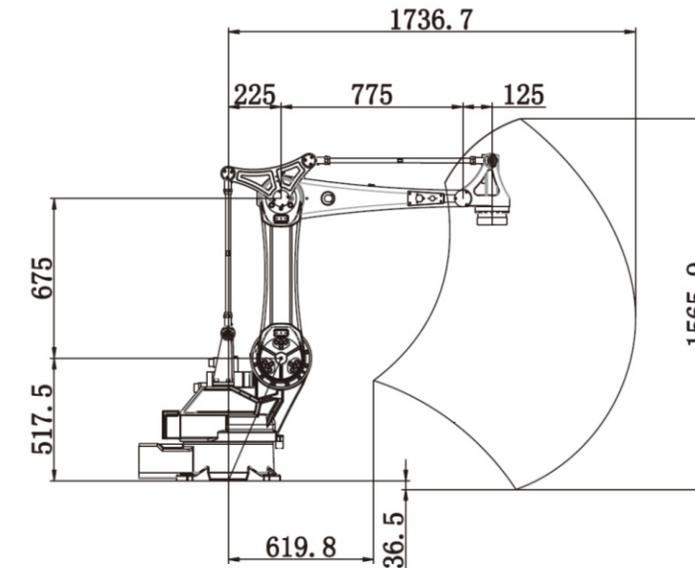
### Robot specifications

Basic data	
Model No.	RGL25B-1800
Number of axes	4
Maximum payload	25 kg
Maximum stroke	1758mm
IP class	J1, J2 - IP56; J3, J4- IP67
Mounting position	Floor type
Approx. weight	295 kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±130°
J2 axis L	+35°~-70°
J3 axis U	+75°~-70°
J4 axis R	±360°
Speed with rated payload	
J1 axis S	136°/s
J2 axis L	135°/s
J3 axis U	118°/s
J4 axis R	222°/s

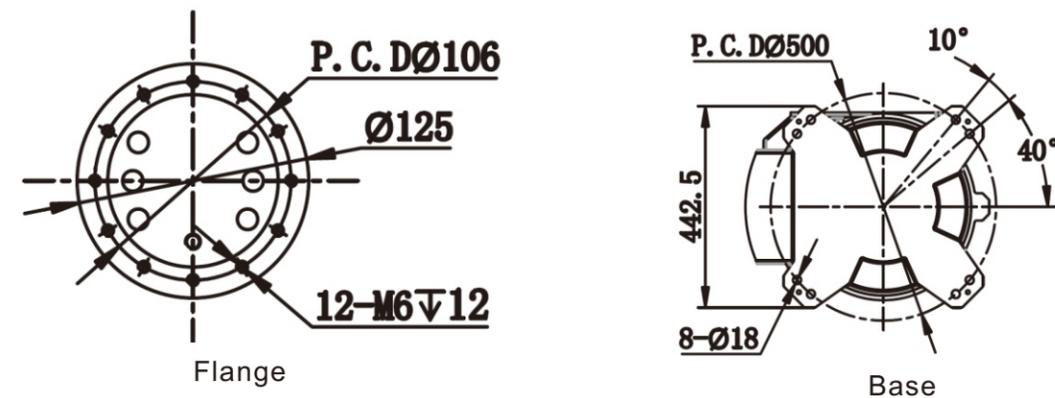
Electrical cabinet specifications	
Dimensions	560*500*730mm
Approx. weight	50KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	<ul style="list-style-type: none"> <li>• With no corrosive or combustible gas</li> <li>• With no water, oil or drug splashing</li> <li>• With no electromagnetic field nearby</li> <li>• With no radiations nearby</li> </ul>

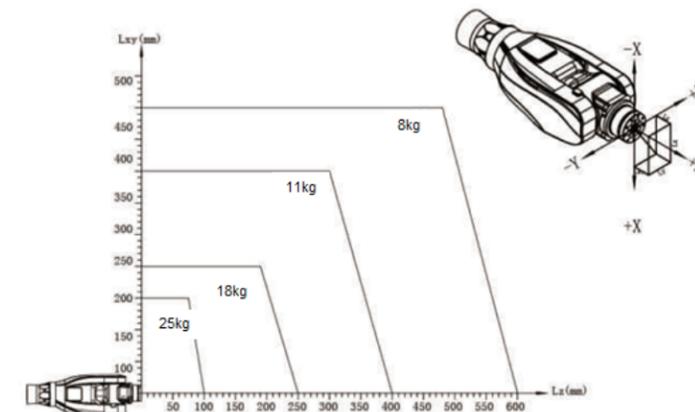
### ▶ Working envelope (unit: mm)



### ▶ Flange and base dimensions (unit: mm)



### ▶ Payload diagram



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## 4-AXIS HANDLING ROBOT

# RGL100B-2300

Fast, accurate and reliable.  
Suitable for pick-n-place and palletizing.

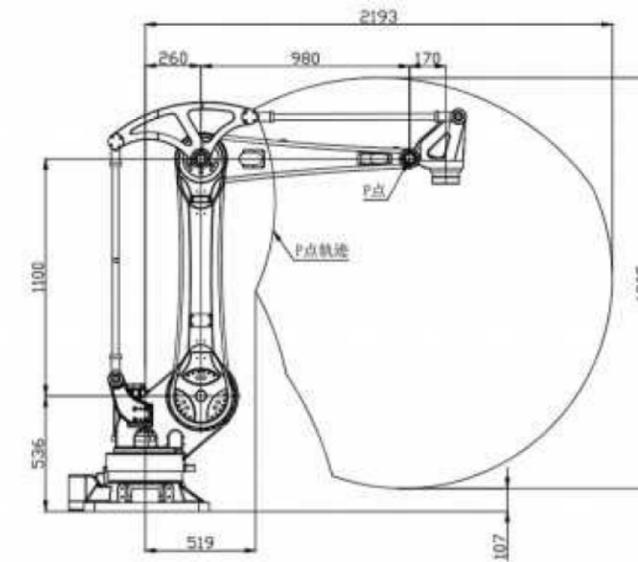
### Robot specifications

Basic data	
Model No.	RGL100B-2300
Number of axes	4
Maximum payload	100 kg
Maximum stroke	2363mm
IP class	J1, J2 - IP56; J3, J4- IP67
Mounting position	Floor type
Approx. weight	630 kg (without cabinet)
Repeatability	±0.08 mm
Internal air duct	Φ10
Motion range	
J1 axis S	±150°
J2 axis L	+35°~-55°
J3 axis U	+60°~-50°
J4 axis R	±360°
Speed with rated payload	
J1 axis S	127°/s
J2 axis L	70°/s
J3 axis U	74.5°/s
J4 axis R	222°/s

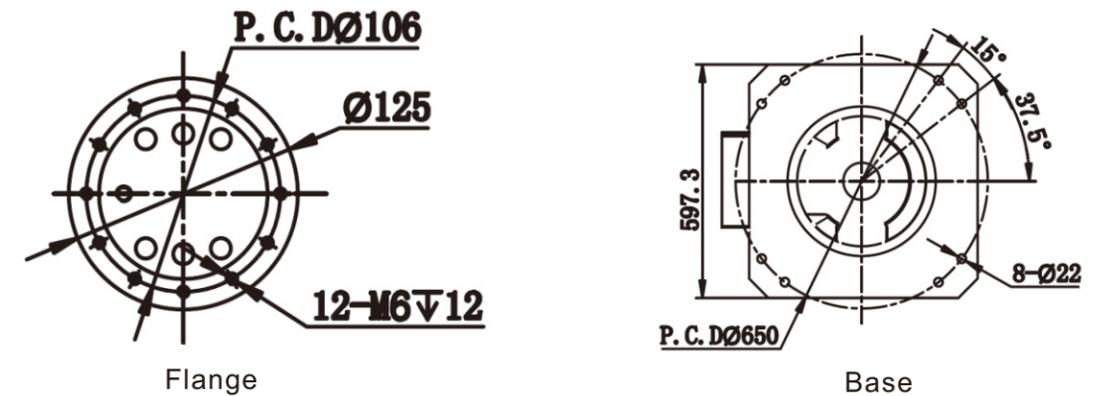
Electrical cabinet specifications	
Dimensions	560*500*730mm
Approx. weight	55KG
Cooling method	Natural cooling
Input power	380VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	• 16 digital inputs • 16 digital outputs
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	<ul style="list-style-type: none"> <li>• With no corrosive or combustible gas</li> <li>• With no water, oil or drug splashing</li> <li>• With no electromagnetic field nearby</li> <li>• With no radiations nearby</li> </ul>

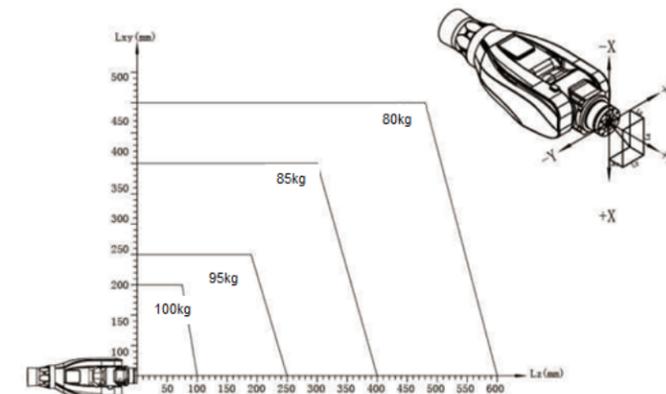
### ▶ Working envelope (unit: mm)



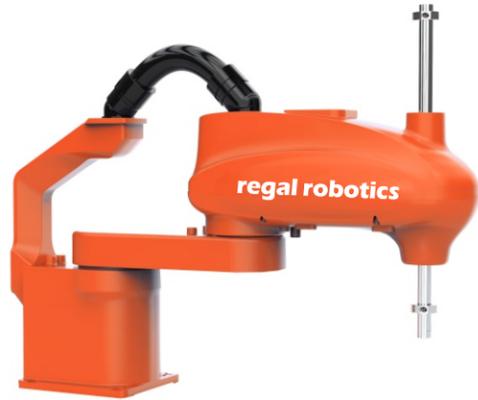
### ▶ Flange and base dimensions (unit: mm)



### ▶ Payload diagram



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SCARA ROBOT

RGL06-602S  
RGL06-702S

Fast, accurate and reliable.  
Suitable for pick-n-place of 3C industry.

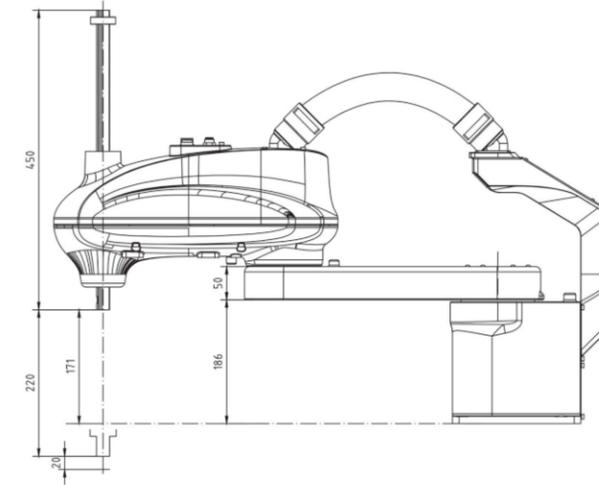
Robot specifications

Basic data	
Model No.	RGL06-602S/RGL06-702S
Number of axes	4
Maximum payload	6 kg
Maximum stroke	600/700mm
IP class	J1, J2 - IP56; J3, J4- IP67
Mounting position	Floor type
Approx. weight	30 kg (without cabinet)
Repeatability	±0.02 mm
Internal air duct	Φ6
Motion range	
J1 axis S	±132°
J2 axis L	±150°
J3 axis U	220mm
J4 axis R	±360°
Speed with rated payload	
J1 axis S	540°/s
J2 axis L	600°/s
J3 axis U	750°/s
J4 axis R	1717°/s

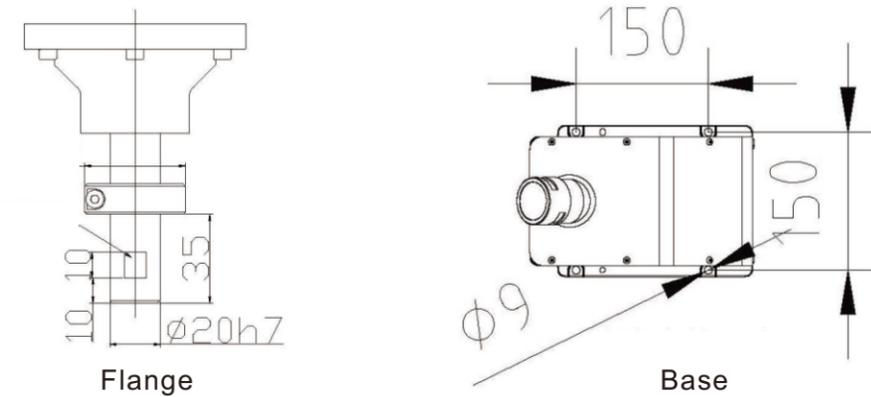
Electrical cabinet specifications	
Dimensions	490*400*365mm
Approx. weight	40KG
Cooling method	Natural cooling
Input power	220VAC 50/60Hz
Grounding	Industrial grounding (grounding resistance below 100Ω)
I/O terminals	<ul style="list-style-type: none"> <li>• 16 digital inputs</li> <li>• 16 digital outputs</li> <li>• 2 analog outputs (optional)</li> </ul>
Position control mode	EtherCAT, TCP/IP
Serial port I/F	RS485*1, RS422*1, RS232*1, CAN*1, USB*1
RAM capacity	JOB 200,000 steps, 10,000 robot commands (200MB)
Driving unit	6-axis AC servo system. External axis can be added as an option.

Operating conditions	
Use temperature	0~45°C
Storage temperature	-20~60°C
Humidity	10~90% RH, no condensing
Vibrations	Below 0.5G
Altitude	Below 1000m. (Degrade if over 1000m, max 2000m)
Other requirements	<ul style="list-style-type: none"> <li>• With no corrosive or combustible gas</li> <li>• With no water, oil or drug splashing</li> <li>• With no electromagnetic field nearby</li> <li>• With no radiations nearby</li> </ul>

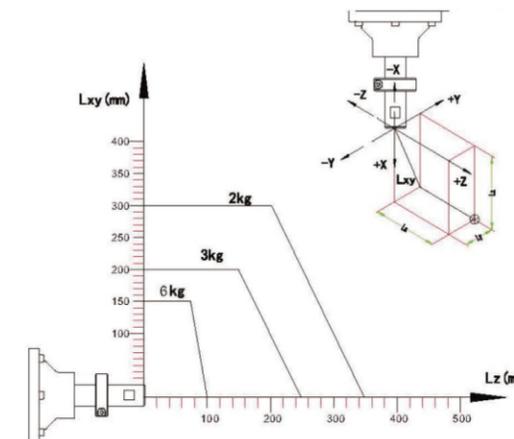
▶ Working envelope (unit: mm)



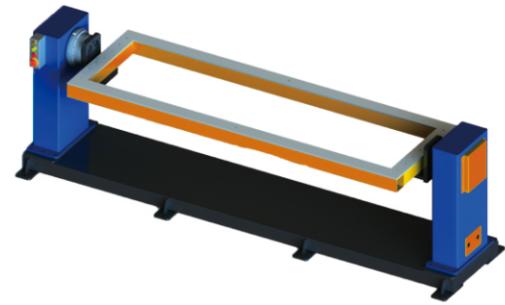
▶ Flange and base dimensions (unit: mm)



▶ Payload diagram



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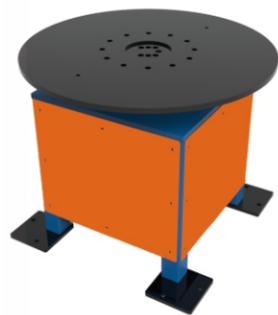


## POSITIONERS

### Single Axis Turning Frame

#### Specifications

Model	RGL-D1-250A	RGL-D1-500A	RGL-D1-1000A	RGL-D2-250A	RGL-D2-500A	RGL-D2-1000A
Payload (kg)	250	500	1000	250	500	1000
Base plate to center of the spindle (mm)	700	700	700	700	700	700
Positioner frame size (mm)	1800×800	1800×800	1800×800	2500×800	2500×800	2500×800
Rotation speed (°/s)	60	60	40	60	60	40
Repeat positioning accuracy (arcmin)	±1.0	±1.0	±1.2	±1.0	±1.0	±1.2
Rotation angle (°)	±180	±180	±180	±180	±180	±180
Eccentricity (mm)	≤ 150	≤ 150	≤ 100	≤ 150	≤ 150	≤ 100
Center of gravity distance (mm)	≤ 300	≤ 300	≤ 200	≤ 300	≤ 300	≤ 200



## POSITIONERS

### Single-axis Rotational Disk

#### Specifications

Model	RGL-D3-200A	RGL-D3-500A	RGL-D3-1000A
Payload (kg)	200	500	1000
Disc Diameter (mm)	350	500	800
Rotation speed (°/s)	60	60	40
Repeat positioning accuracy (arcmin)	±1.0	±1.0	±1.0
Rotation angle (°)	±360	±360	±360
Eccentricity (mm)	≤ 200	≤ 250	≤ 300
Center of gravity distance (mm)	≤ 200	≤ 250	≤ 300



## POSITIONERS

### Single-axis Ground Rail

#### Specifications

Model	RGL-DZX1-3000-500A	RGL-DZX1-4000-500A	RGL-DZX1-5000-500A	RGL-DZX1-6000-500A
Payload (kg)	500	500	500	500
Ground rail total length (mm)	3000	4000	5000	6000
Effective stroke (mm)	2300	3300	4300	5300
Maximum walking speed (M/min)	15	15	15	15
Repeat positioning accuracy (mm)	±0.05	±0.05	±0.08	±0.08

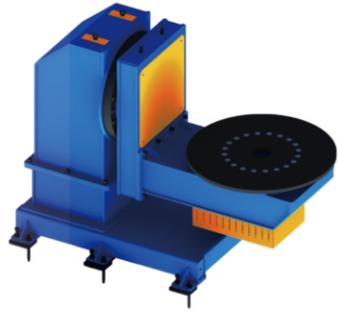


## POSITIONERS

### Double-axis P-type Positioner

#### Specifications

Model	RGL-S1-200A	RGL-S1-300A	RGL-S1-500A	RGL-S1-1000A
Payload (kg)	200	300	500	1000
Disc Diameter (mm)	400	500	600	600
Rotation speed (°/s)	Axis 1: 80 /Axis 2: 80	Axis 1: 60 /Axis 2: 80	Axis 1: 50 /Axis 2: 50	Axis 1: 50 /Axis 2: 50
Repeat positioning accuracy (arcmin)	±1.0	±1.0	±1.5	±1.5
Rotation angle (°)	Axis 1: ±90 /Axis 2: ±360			
Eccentricity (mm)	≤ 120	≤ 100	≤ 100	≤ 100
Center of gravity distance (mm)	≤ 120	≤ 100	≤ 100	≤ 100



## POSITIONERS

### Double-axis L-type positioner

#### Specifications

Model	RGL-SL2-500A	RGL-SL2-1000A	RGL-SL2-2000A
Payload (kg)	500	1000	2000
Disc Diameter (mm)	400	500	600
Rotation speed (°/s)	Axis 1: 50 /Axis 2: 70	Axis 1: 50 /Axis 2: 70	Axis 1: 20 /Axis 2: 20
Repeat positioning accuracy (arcmin)	±1.5	±1.5	±1.5
Rotation angle (°)	Axis 1: ±175 /Axis 2: ±360	Axis 1: ±175 /Axis 2: ±360	Axis 1: ±175 /Axis 2: ±360
Eccentricity (mm)	≤ 250	≤ 200	≤ 150
Center of gravity distance (mm)	≤ 500	≤ 400	≤ 300

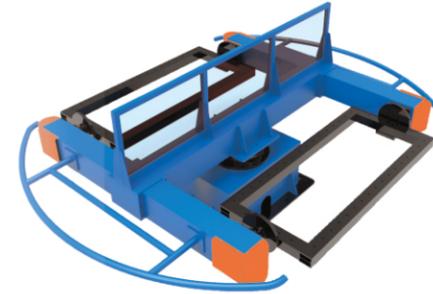


## POSITIONERS

### Double-axis C-type positioner

#### Specifications

Model	RGL-SC3-200A	RGL-SC3-500A	RGL-SC3-1000A
Payload (kg)	200	300	1000
Disc Diameter (mm)	450	500	650
Rotation speed (°/s)	Axis 1: 60 /Axis 2: 75	Axis 1: 60 /Axis 2: 75	Axis 1: 20 /Axis 2: 75
Repeat positioning accuracy (arcmin)	±1.0	±1.0	±1.5
Rotation angle (°)	Axis 1: ±175 /Axis 2: ±360	Axis 1: ±175 /Axis 2: ±360	Axis 1: ±175 /Axis 2: ±360
Eccentricity (mm)	≤ 100	≤ 100	≤ 100
Center of gravity distance (mm)	≤ 200	≤ 200	≤ 200



## POSITIONERS

### Three-axis positioner

#### Specifications

Model	RGL-SP1-500A	RGL-SP1-1000A
Payload (kg)	500	1000
Radius of gyration (mm)	650	650
Axis 1 rotation angle (°)	±180	±180
Axis 2 rotation angle (°)	±360	±360
Axis 3 rotation angle (°)	±360	±360
Axis 1 rotation speed (° / S )	30	30
Axis 2 rotation speed (° / S )	60	60
Axis 3 Rotation Speed (° / S )	60	60
Repeat positioning accuracy (arcmin)	±1.5	±1.5
Eccentricity (mm)	≤ 150	≤ 150
Center of gravity distance (mm)	≤ 300	≤ 300



## POSITIONERS

### Three-axis gantry with ground rail

#### Specifications

Model	NP-LMXYZ-5000	NP-LMXYZ-6000	NP-LMXYZ-7000
Payload (kg)	1000	1000	1000
Gantry span (mm)	5000	6000	7000
Z-axis travel (mm)	1000~2000	1000~2000	1000~2000
Effective stroke (mm)	Customizable	Customizable	Customizable
Walking speed (M/min)	8	8	8
Repeat positioning accuracy (mm)	±0.08	±0.08	±0.08



**AOTAI WELDING MACHINE**

**MAG-350RL**



Suitable for low spatter welding of 0.8 to 3mm carbon steel, stainless steel and galvanized sheet.

**Features**

1. Welding spatter reduced by up to 80% & heat input reduced by up to 20%, less deformation.
2. High speed DSP+FPGA multi-core system for precise control of droplet transfer and stable welding quality.
3. Soft switch inverting technology to achieve reliability and energy saving.
4. Digital wire feeding system for reliable feeding despite power source fluctuations or wire feeding obstructions.
5. Equipped with synergy/separate adjustment modes for easy configurations.

**Specifications**

Model	MAG-350RL
Rated input voltage (V)	3PH 380±10%
Rated input frequency (Hz)	50
Rated input capacity (KVA)	14
Rated input current (A)	21
Rated output voltage (V)	31.5
Rated load duration (%)	60
Output current/voltage range (A/V)	60/17~350/31.5
Welding wire diameter (mm)	0.8/1.0/1.2
Gas flow (L/min)	15~20
Welding torch cooling method	Air cooling
Enclosure rating	IP23
Insulation class	H
Dimensions L×W×H(cm)	66*32*56
Weight(Kg)	55



**AOTAI WELDING MACHINE**

**NBC-500RP**



Suitable for CO2/MAG/MIG welding of all kinds of carbon Steel, ordinary low alloy steel, galvanized sheet, stainless steel, copper and its alloys.

**Features**

1. One pulse and one drop control technology to realize spatter-free welding.
2. With enhanced single-pulse function, it can achieve perfect fish scale welds and improve weld quality.
3. The fully digital system realizes precise control of droplet transfer and achieves continuous and stable welding quality.
4. The parameters of arc start/stop are adjustable, and the welding quality is high.
5. Up to 100 sets of user-defined specification parameters can be stored for easy recall.
6. All-digital high-precision wire feeding control system, two-drive and two-slave with encoder all-digital control wire feeding device, to ensure the stability of wire feeding.

**Specifications**

Model	NBC-500RP
Rated input voltage (V)	3PH 380±10%
Rated input frequency (Hz)	50
Rated input capacity (KVA)	24
Rated input current (A)	36
Rated output voltage (V)	39
Rated load duration (%)	100
Output no-load voltage (V)	73
Output current/voltage range (A/V)	25/10~500/50
Power factor	≥0.87
Welding wire diameter (mm)	0.8, 1.0, 1.2, 1.6
Gas flow (L/min)	15~20
Welding torch cooling method	Air cooling/water cooling
Enclosure rating	IP23
Insulation class	H
Dimensions L×W×H(cm)	66×32×56
Weight(Kg)	55



AOTAI WELDING MACHINE

MIG-500/630RP 

Suitable for CO2/MAG/MIG welding of all kinds of carbon Steel, ordinary low alloy steel, galvanized sheet, stainless steel aluminum and its alloys, copper and its alloys.

Features

1. One pulse and one drop control technology to realize spatter-free welding.
2. With enhanced double-pulse function, when welding aluminum alloys, it can achieve perfect fish scale welds and improve weld quality.
3. The fully digital system realizes precise control of droplet transfer and achieves continuous and stable welding quality.
4. The parameters of arc start/stop are adjustable, and the welding quality is high.
5. Up to 100 sets of user-defined specification parameters can be stored for easy recall.
6. All-digital high-precision wire feeding control system, two-drive and two-slave with encoder all-digital control wire feeding device, to ensure the stability of wire feeding.

Specifications

Model	Pulse MIG-500RP	Pulse MIG-630RP
Rated input voltage (V)	3PH 380±10%	3PH 380±10%
Rated input frequency (Hz)	50	50
Rated input capacity (KVA)	24	34
Rated input current (A)	36	51
Rated output voltage (V)	39	44
Rated load duration (%)	100	100
Output no-load voltage (V)	73	98
Output current/voltage range (A/V)	25/10~500/50	25/10~630/50
Power factor	≥0.87	≥0.87
Welding wire diameter (mm)	0.8, 1.0, 1.2, 1.6	1.0, 1.2, 1.4, 1.6
Gas flow (L/min)	15~20	15~20
Welding torch cooling method	Air cooling/water cooling	Water cooling
Enclosure rating	IP23	IP23
Insulation class	H	H
Dimensions L×W×H(cm)	66×32×56	66×32×56
Weight(Kg)	55	65



AOTAI WELDING MACHINE

WSM-400R 

Suitable for sheet welding of various materials such as stainless steel, carbon steel, copper, titanium, etc.

Features

1. Simple arc starting, stable arc and high welding quality.
2. Parameters such as welding current, front gas time, arc starting current, climb time, decay time, arc end current and gas delay time can be adjusted continuously.
3. During pulse argon arc welding, the pulse frequency and pulse width can be adjusted arbitrarily within a large range.
4. High efficiency, high power factor, is a kind of high-efficiency energy-saving equipment.
5. Up to 30 sets of user-defined specification parameters can be stored for easy recall.
6. All-digital high-precision wire feeding control system, two-drive and two-slave with encoder all-digital control wire feeding device, to ensure the stability of wire feeding.

Specifications

Model	WSM-400R
Rated input voltage (V)	3PH 380±10%
Rated input frequency (Hz)	50
Rated input capacity (KVA)	18
Rated input current (A)	28
Rated load duration (%)	60
Output no-load voltage (V)	71
Output current range (A)	4~410
Arc current (A)	4~400
Duty ratio (%)	15~85
Pulse frequency (Hz)	0.2~500
Front gas time (S)	0.01~9.99
Air extension time (S)	0.1~60
Ramp up time (S)	0.1~10.0
Decay time (S)	0.1~15.0
Welding wire diameter (mm)	0.8, 1.0, 1.2, 1.6
Maximum gas flow (L/min)	25
Welding torch cooling method	Air cooling/water cooling
Enclosure rating	IP23
Insulation class	H
Weight(Kg)	55
Robot-Specific Implicit Parameters	
Control method (rEt)	OFF: Near control ON1: Analog remote control ON2: Digital remote control
Wire feed speed (Fd1)	OFF/0.3~7m/min
Slow wire feed speed (Fd2)	OFF/0.3~7m/min
Jog wire feed speed (Fdi)	0.3~7m/min
Back-drawing length (mm)	OFF/1~50
Wire feed delay time (dt1)	OFF/0.1~9.9s
Wire stop delay time (dt2)	OFF/0.1~9.9s



## AOTAI WELDING MACHINE

### WSME-315/500R

Suitable for sheet welding of various materials such as stainless steel, carbon steel, copper, titanium, aluminum and their alloys

#### Features

1. Simple arc starting, stable arc and high welding quality.
2. There are a variety of waveform options in the state of AC argon arc welding: standard square wave, non-standard square wave, sine wave, triangle wave and mixed wave, etc.
3. Through the adjustment of peak current, base current, pulse frequency, duty cycle and AC current, AC frequency and cleaning ratio, the required penetration depth, penetration width and surface ripple uniformity of the weld can be obtained.
4. Up to 30 sets of user-defined specification parameters can be stored for easy recall.
5. All-digital high-precision wire feeding control system, two-drive and two-slave with encoder all-digital control wire feeding device, to ensure the stability of wire feeding.

#### Specifications

Model	WSME-315R	WSME-500R
Rated input voltage (V)	3PH 380±10%	3PH 380±10%
Rated input frequency (Hz)	50	50
Rated input capacity (KVA)	13	26
Rated input current (A)	20	39
Rated load duration (%)	60	60
Output no-load voltage (V)	79	77
Output current range (A)	5~320	8~510
Arc current (A)	5~315	8~500
Duty ratio (%)	15~85	15~85
Pulse frequency (Hz)	0.2~999	0.2~999
Cleaning ratio (%)	-50~40	-50~40
AC frequency (Hz)	40~250	40~250
Front gas time (S)	OFF/0.1~10.0	OFF/0.1~10.0
Air extension time (S)	OFF/0.1~60.0	OFF/0.1~60.0
Ramp up time (S)	OFF/0.01~10.0	OFF/0.01~10.0
Decay time (S)	OFF/0.01~15.0	OFF/0.01~15.0
Welding wire diameter (mm)	0.8~1.0~1.2~1.6	0.8~1.0~1.2~1.6
Gas flow (L/min)	15~20	15~20
Welding torch cooling method	Air cooling/water cooling	Air cooling/water cooling
Enclosure rating	IP21S	IP21S
Insulation class	H	H
Weight(Kg)	40	70
Robot-Specific Implicit Parameters		
Control method (rEt)	OFF: Near control ON1: Analog remote control ON2: Digital remote control	OFF: Near control ON1: Analog remote control ON2: Digital remote control
Wire feed speed (Fd1)	OFF/0.3~7m/min	OFF/0.3~7m/min
Slow wire feed speed (Fd2)	OFF/0.3~7m/min	OFF/0.3~7m/min
Jog wire feed speed (Fdi)	0.3~7m/min	0.3~7m/min
Rewind time (Fbt)	OFF/0.1~9.9s	OFF/0.1~9.9s
Delay wire feeding time (dt1)	OFF/0.1~9.9s	OFF/0.1~9.9s
Delay wire feeding time (dt2)	OFF/0.1~9.9s	OFF/0.1~9.9s
Wire Feeder Switch (Fde)	OFF: Wire feeder ON: Wire feeder on	OFF: Wire feeder ON: Wire feeder on



### Inexbot

Founded in 2015, Inexbot has been dedicated to the research and development of multi-axis motion control technology and the application promotion of industry solutions.

Inexbot T30 teach pendants & controllers are extensively used in Regal Robotics products.

### Full functions

The system has a wide range of built-in universal processes for loading and unloading, palletizing, welding, seam tracking, vision, laser cutting, conveyor tracking, collision detection, drag teaching, and can be customized to meet customer requirements. With the built-in universal process functions, the user can easily and quickly implement the required processes.

### Open interfaces

The open platform NexDroid provides an open API interface that allows everyone to make applications. It supports customers in the secondary development of integrated processes based on C/C++/Python/Lua, which puts the core process experience in your own hands and helps to protect your intellectual property and domain experience.

### Offline programming

Inexbot control system supports offline programming software including Sprutcam, RobotMaster, RobotDK, which can be widely used in many fields such as engraving and painting.

### High precision

The NRC series control system can achieve a trajectory accuracy of ±0.4mm or less and repeatable positioning accuracy of ±0.02mm or less with the support of the robot body accuracy.

