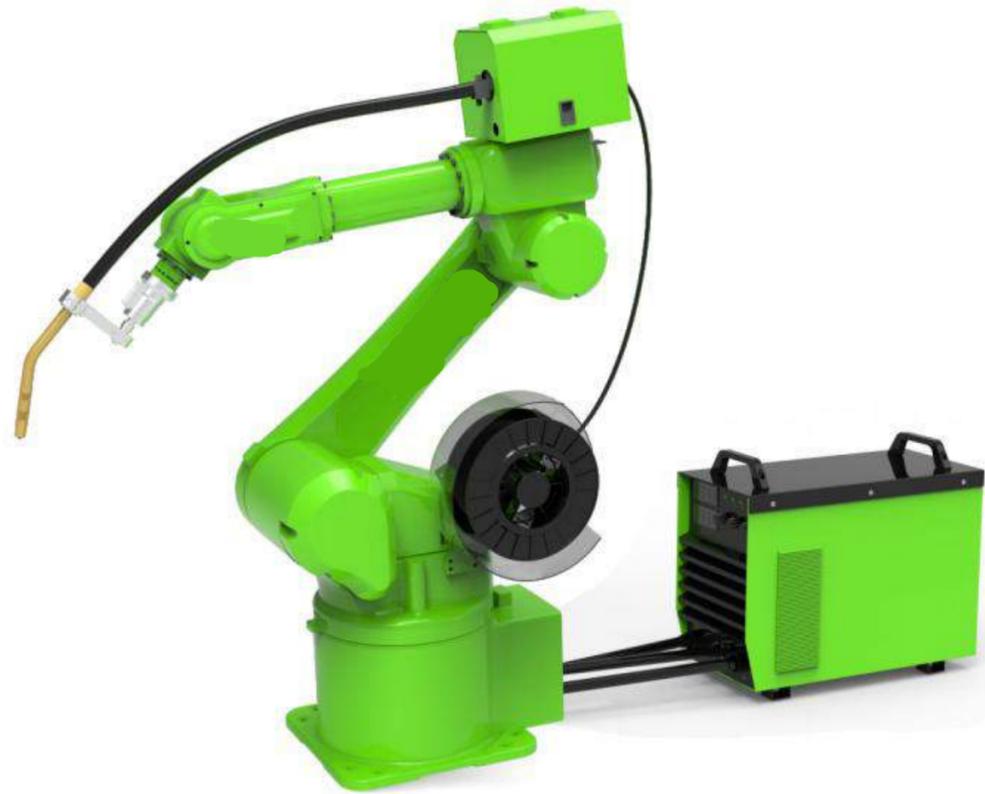


SZGH 深圳贯虹自动化有限公司
Shenzhen Guanhong Automation CO.,LTD

INDUSTRIAL ROBOT
Industrial Robot Model Selection Catalog



Shenzhen Guanhong Automation Co., Ltd.

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NamingRules

SZGH T 950 A 6
1 2 3 4 5

1

L	Headquarters
---	--------------

3

XXX	Reach
-----	-------

2

Code	Model
T	General-purpose
B	Palletizing&handling
H	Welding
S	SCARA
P	Combined
W	Parallel

4

Code	Payload
A	3KGS
B	6KGS
C	10KGS
D	20KGS
E	50KGS
F	100KGS
G	165KGS
...	

5

Code	No. of Axes
4	4-axis
5	5-axis
6	6-axis
...	...

Note:

When the payload is a combination of number and letter, a number followed by a letter indicates multiplication. For example, SZGH-B-2300-3C-6: Where 3C=3×10 kg=30 kg; it indicates a general-purpose 6-axis robot with a reach of 2300 mm and a payload of 30 kg.

A number following a letter indicates division. For example, SZGH-T-850-A3-6: Where A3=3kg÷3=1 kg; it indicates a general-purpose 6-axis robot with a reach of 850 mm and a payload of 1 kg.

High-tech Products

Guangdong High-tech Product:

8-axis industrial robot control system

Product model:

Intelligent control system

Awarded Guangdong High-tech Product in 2015

Approval No.:

Guangdong Hi-tech Enterprise Association [2016] No. 1

Technical Concept:

Make system compatibility stronger through continuous improvement of the process pack and continuous upgrade

Guangdong High-tech Product:

9-axis painting robot Product model: SZGH1500-B-9

Awarded Guangdong High-tech Product in 2015

Approval No.:

Guangdong Hi-tech Enterprise Association [2016] No. 1

Technical Concept:

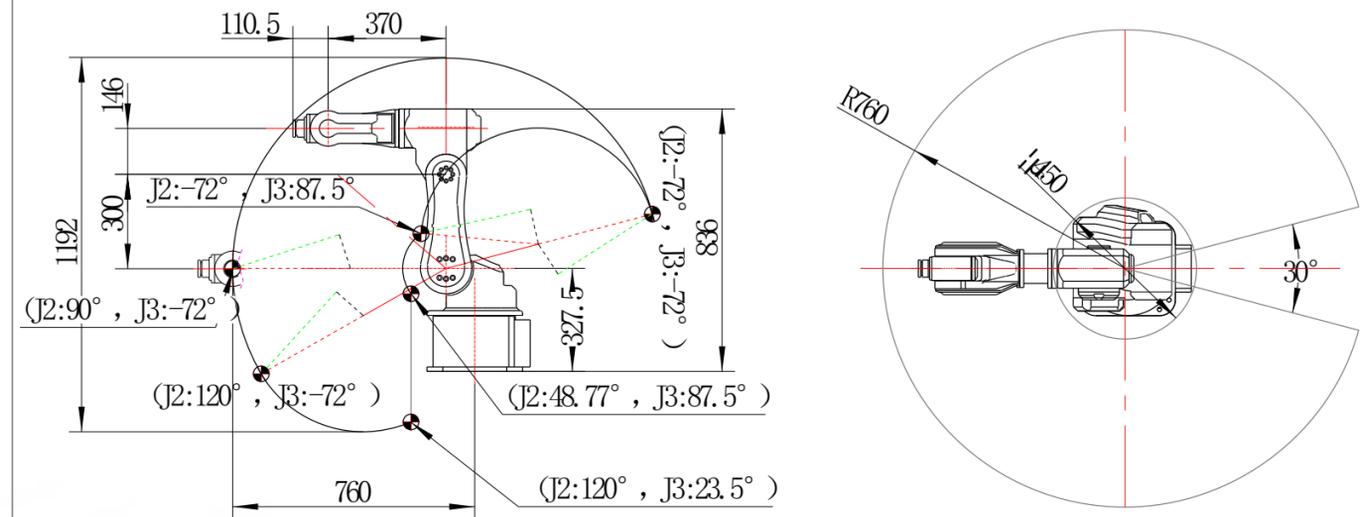
Provide customers with the best products through continuous update and continuous upgrade

SZGH-T750-B-6

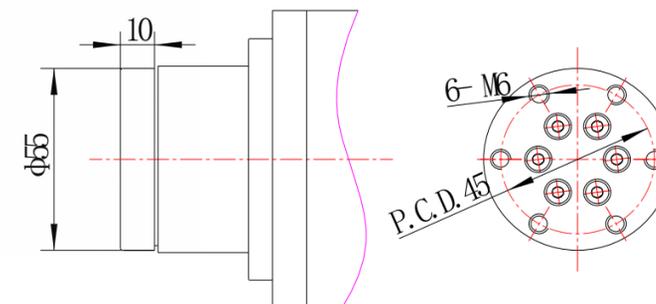
Payload	6KG	
Reach	750mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.05mm	
Max. motion range	Axis 1	±165°
	Axis 2	+120°/-72°
	Axis 3	+87.5°/-72°
	Axis 4	±360°
	Axis 5	±115°
	Axis 6	±450°
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	222°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
Weight	≈85kg	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	



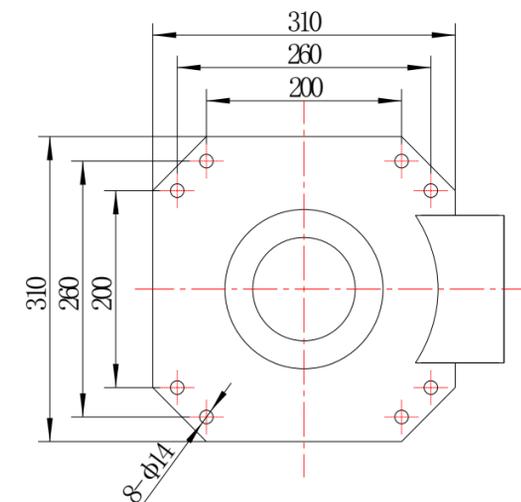
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Materials handling, parts transfer, machine management, testing, gluing, & assembly

Applicable Cases

Experimental teaching platform

SZGH-T750-B-6 is a small desktop robot featuring short work cycle, reliable operation and high cost performance. It is widely used for various experimental teaching platforms and the students' repair, disassembly and assembly courses.

The figure shows a customer's experimental teaching platform which realizes sorting and positioning of materials in combination with computer visual identification.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

SZGH General-purpose Series Robots

SZGH-T1500-C-6

Payload	10KG	
Reach	1500mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.05mm	
Max. motion range	Axis 1	±165°
	Axis 2	+135°/-75°
	Axis 3	+78°/-76.5°
	Axis 4	±360°
	Axis 5	±115°
	Axis 6	±450°
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	150°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
Weight	≈150kg	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	



Main Applications

Materials handling, parts transfer, electric welding, machine management, palletizing, packaging, testing, deburring, grinding, gluing, assembly & painting

Applicable Cases

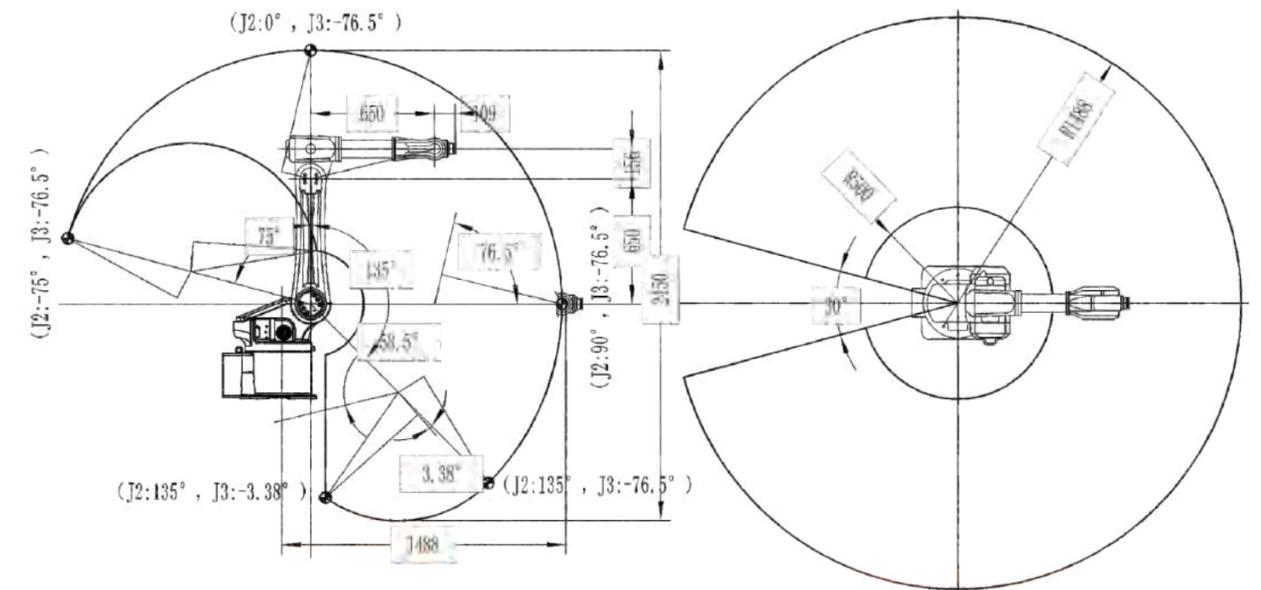
NC lathe loading & unloading

The figure shows a NC lathe automatic loading & unloading solution provided for a customer. Combined with the production line, one robot can manage two face-to-face NC machines, thereby significantly reducing labor cost and time cost and enhancing productivity of the customer.

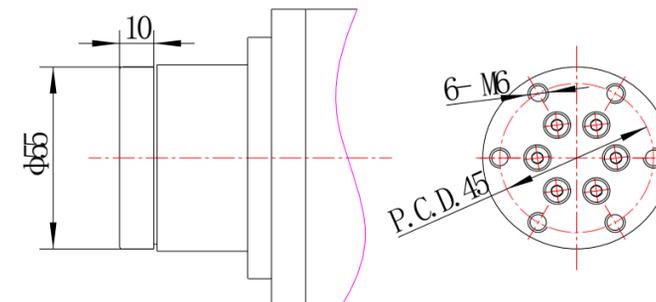


Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

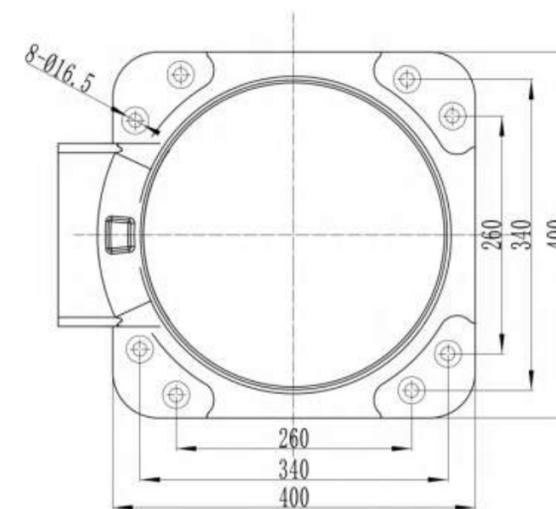
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



SZGH General-purpose Series Robots

SZGH-T1850-D-6

Payload	20KG	
Reach	1850mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.08mm	
Max. motion range	Axis 1	±180°
	Axis 2	+139°/-60°
	Axis 3	+56°/-150°
	Axis 4	±360°
	Axis 5	±115°
	Axis 6	±450°
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	150°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
	Axis 6	360°/sec
Weight	≈250kg	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	



Main Applications

Materials handling, parts transfer, electric welding, machine management, palletizing, packaging, testing, deburring, grinding, gluing, assembly & painting

Applicable Cases

NC lathe loading & unloading

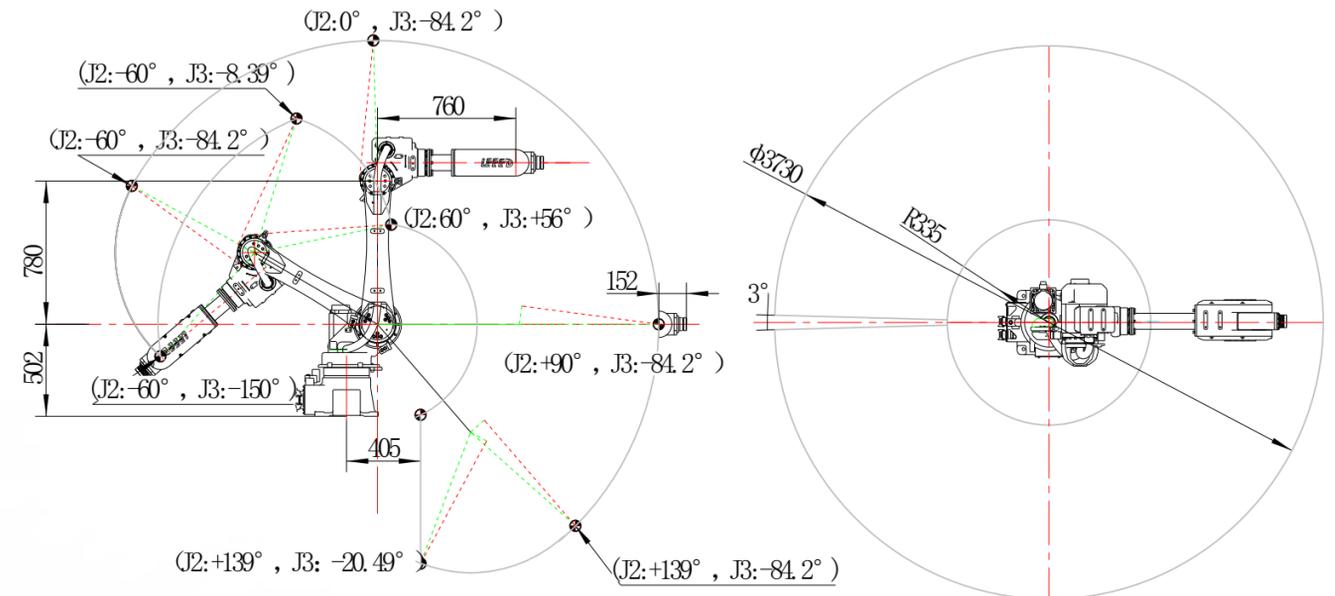
SZGH-T1850-D-6 robot has a payload of 20 kg and is widely used in handling, painting, loading and unloading for machine tools, screw tightening, surface mounting and other applications. One 6-axis robot can work independently and efficiently in cellular manufacturing processes.

The figure shows the loading and unloading of small precision parts for a lathe of a customer.

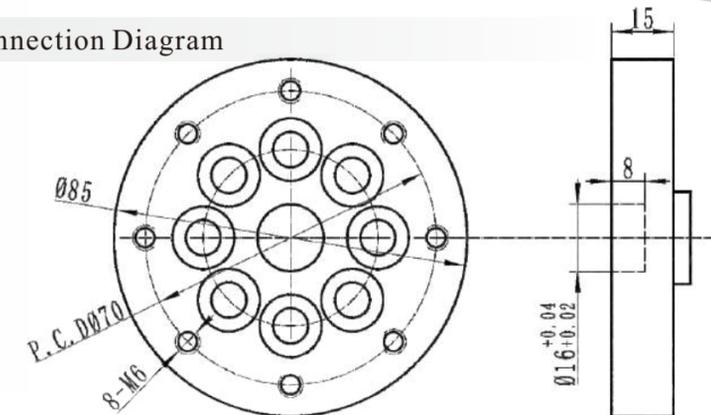


Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

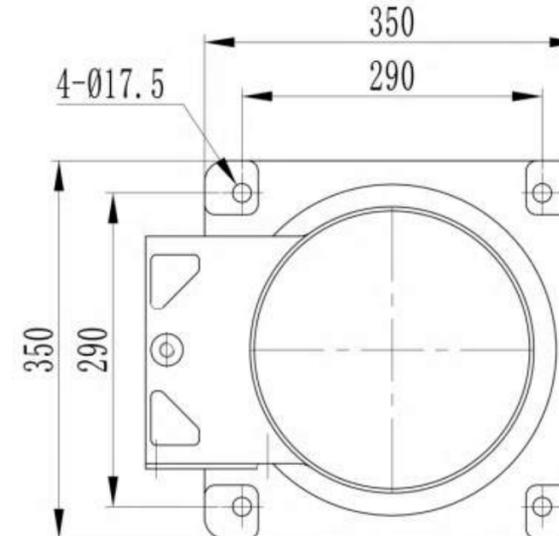
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



SZGH General-purpose Series Robots

SZGH-T2100-C-6

Payload	10KG	
Reach	2100mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.08mm	
Max. motion range	Axis 1	±180°
	Axis 2	+139°/-60°
	Axis 3	+56°/-150°
	Axis 4	±360°
	Axis 5	±115°
	Axis 6	±450°
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	150°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
Weight	≈255kg	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	

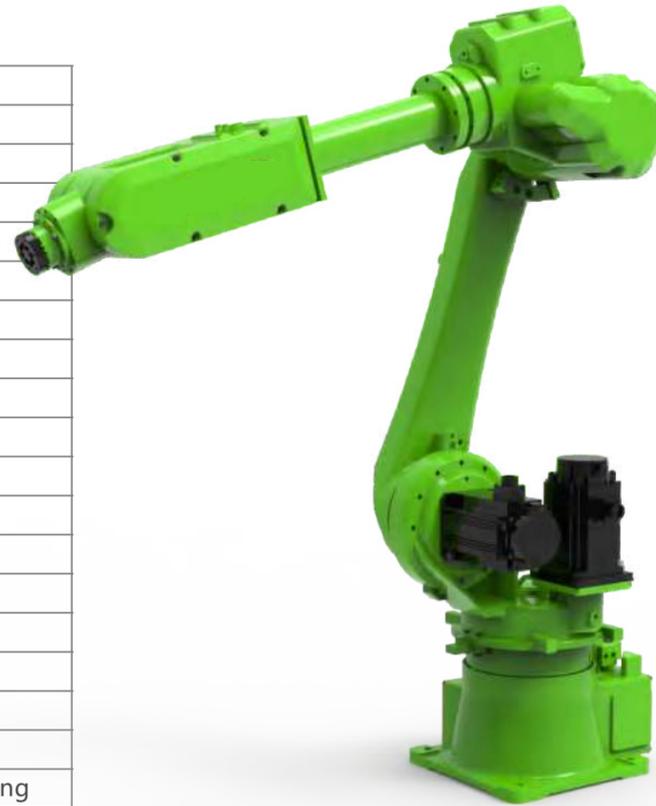
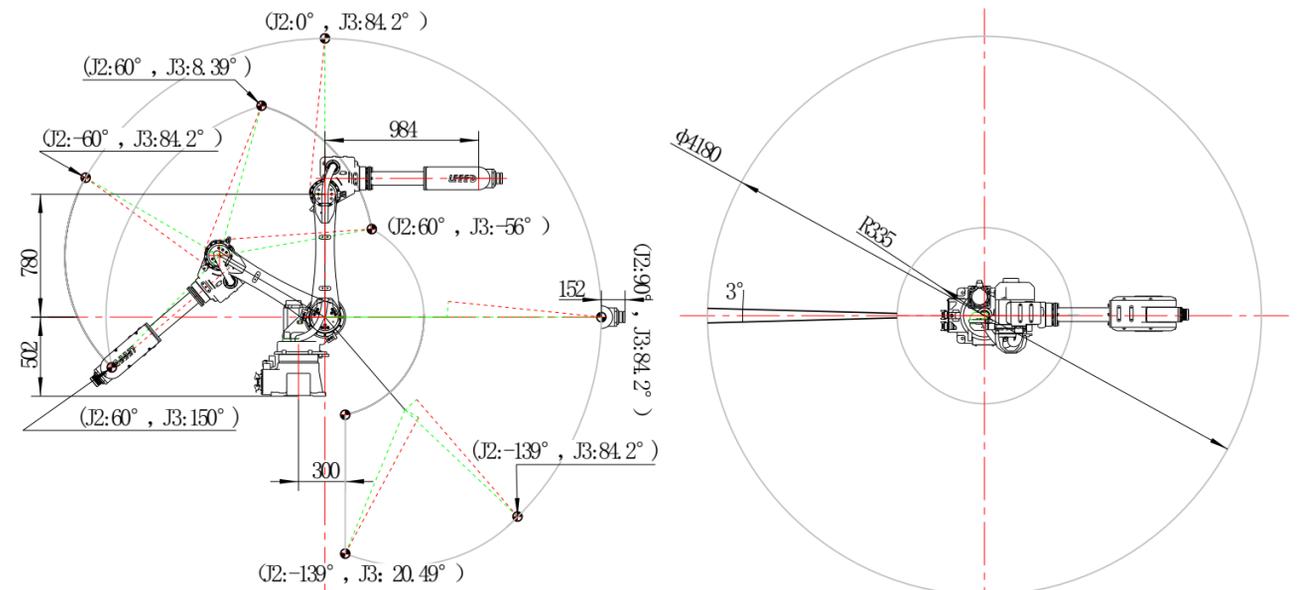
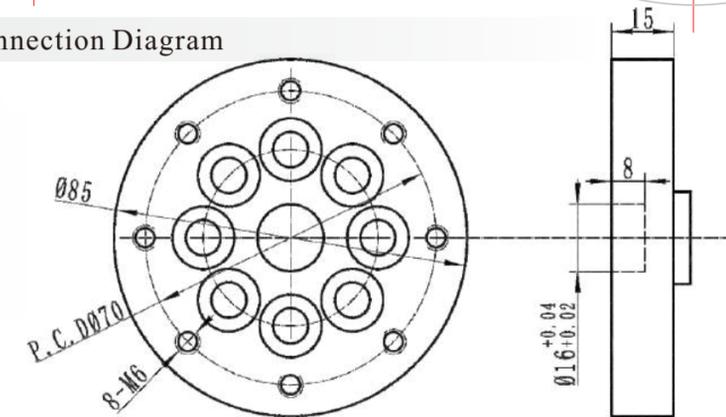


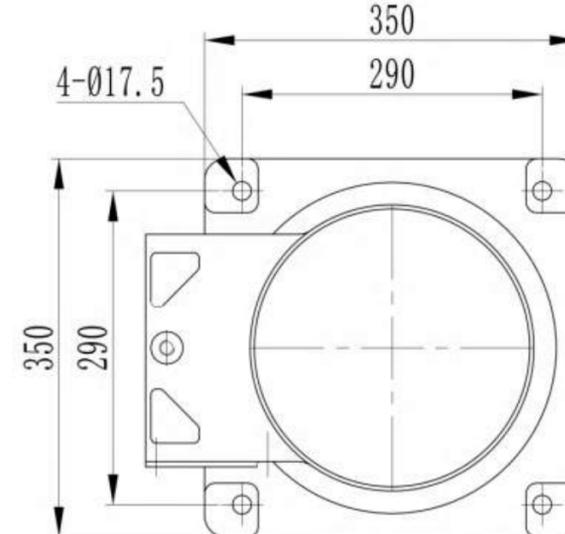
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Materials handling, parts transfer, electric welding, machine management, palletizing, packaging, testing, deburring, grinding, gluing, assembly & painting

Applicable Cases

Operation in a cable shop

The figure shows a cable packaging line of a customer. Here, one robot simultaneously replaces multiple field operators, thus reducing the company's production cost, enhancing its efficiency and improving conformity of product appearance.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

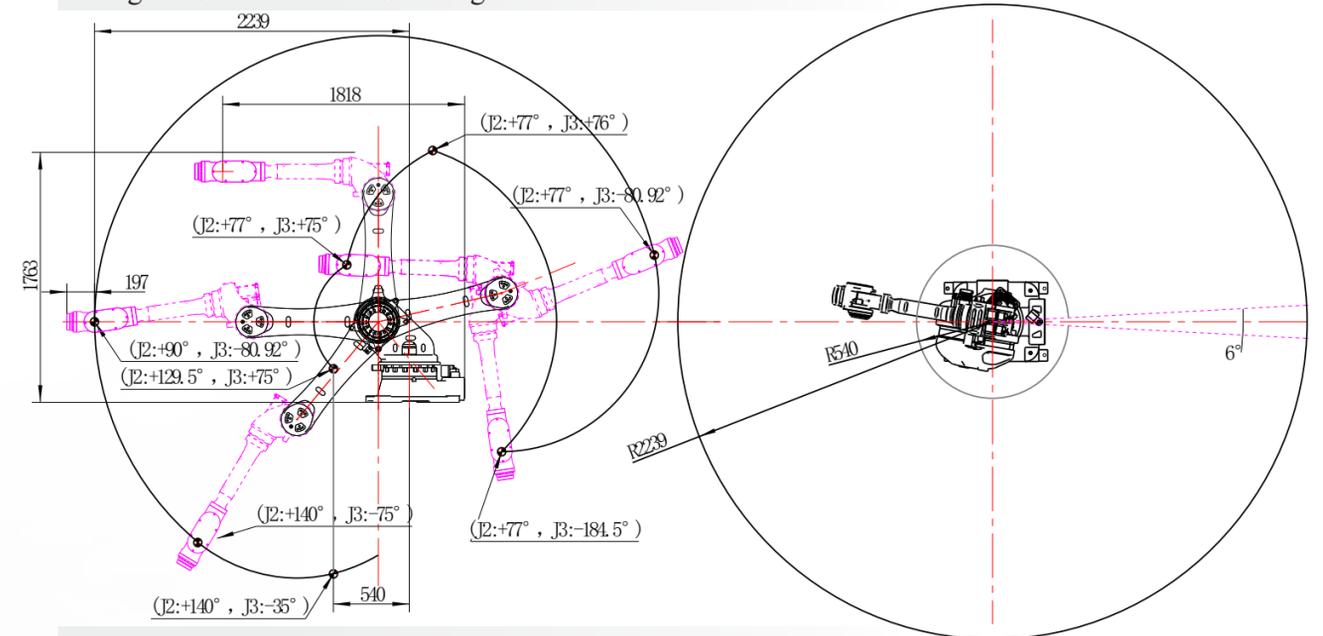
SZGH General-purpose Series Robots

SZGH-T2100-E-6

Payload	50kg	
Reach	2100mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.1mm	
Max. motion range	Axis 1	±180°
	Axis 2	+140°/-77°
	Axis 3	+75°/-184°
	Axis 4	±360°
	Axis 5	±115°
	Axis 6	±450°
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	150°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
	Axis 6	360°/sec
Weight	≈750kg	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	



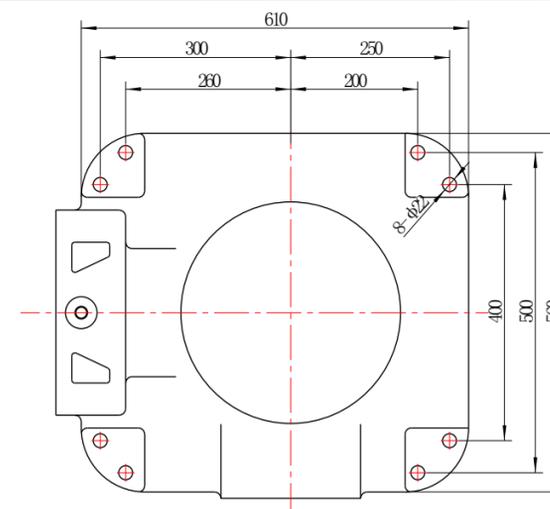
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Materials handling, parts transfer, palletizing, deburring, grinding & cutting

Applicable Cases

Heavy duty cable loading & unloading

SZGH-T2100-E-6 robot has the highest payload among 6-axis articulated robots, i.e. 50 kg.

The figure shows a customer's use of the robot for heavy duty cable loading and unloading in the packaging process.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

SZGH General-purpose Series Robots

SZGH-T2300-3C-6

Payload	30kg	
Reach	2300mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.15mm	
Max. motion range	Axis 1	±175°
	Axis 2	+140°/-77°
	Axis 3	+175°/-75°
	Axis 4	±360°
	Axis 5	±115°
	Axis 6	±360°
Max. speed	Axis 1	180°/sec
	Axis 2	180°/sec
	Axis 3	150°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
	Axis 6	360°/sec
Weight	≈700kg	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	

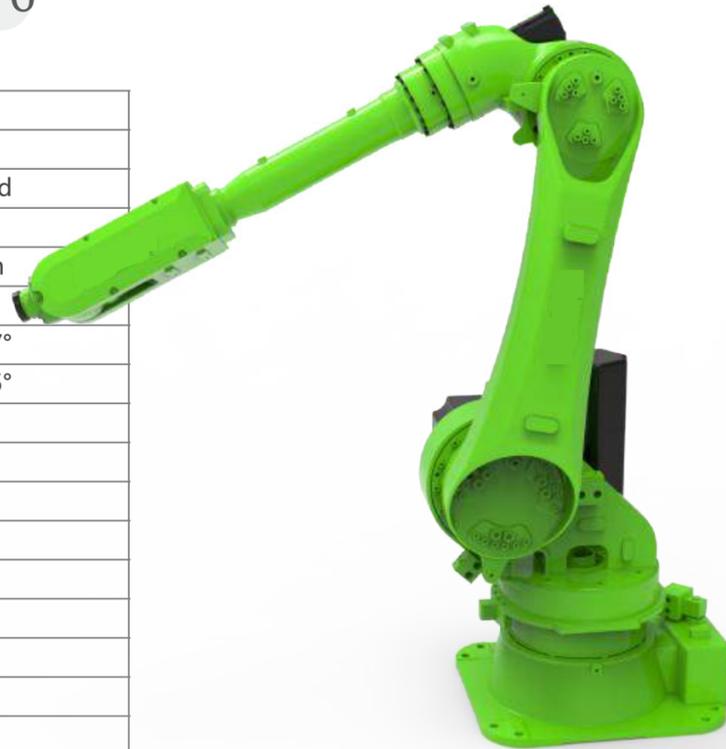
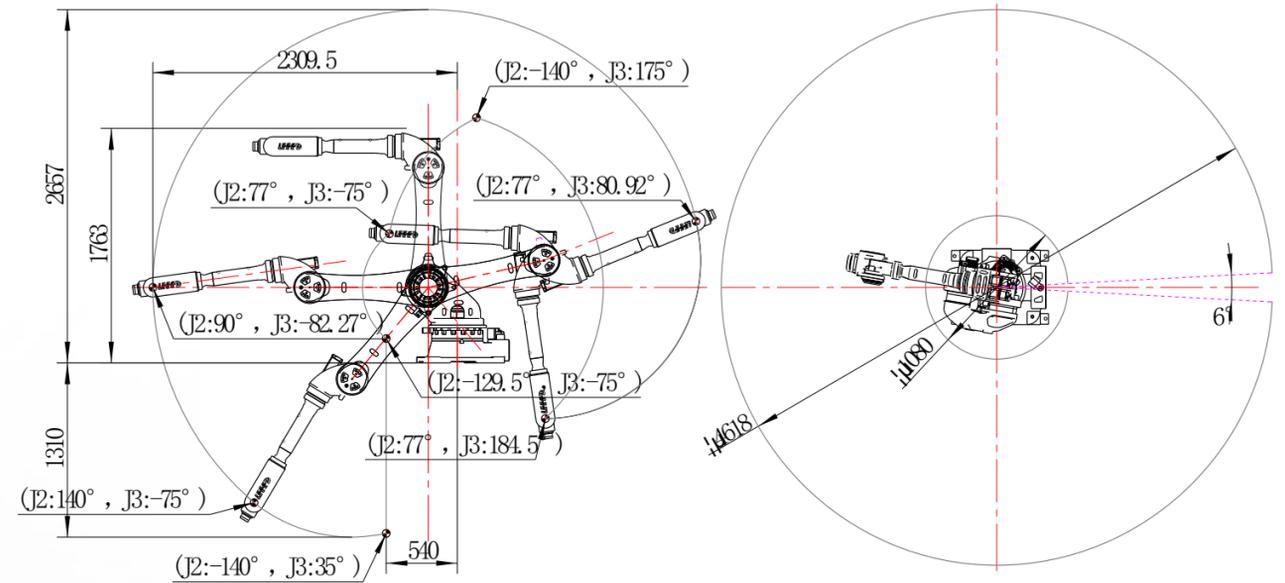
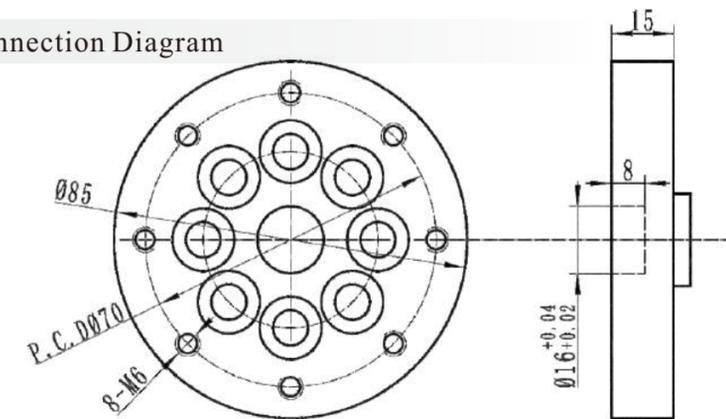


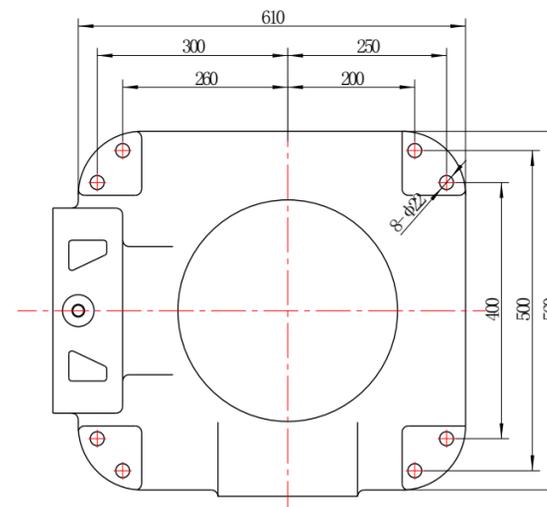
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Materials handling, parts transfer, palletizing, deburring, grinding & cutting

Applicable Cases

Irregular workpiece punching & deburring SZGH

-T2300-3-6, a 30 kg robot newly developed by the company, has a rigid body and certain load tolerance.

The figure on the right shows a grinding and punching integrated solution provided for our customer. It takes into consideration such issues as various types of products on the customer's site.

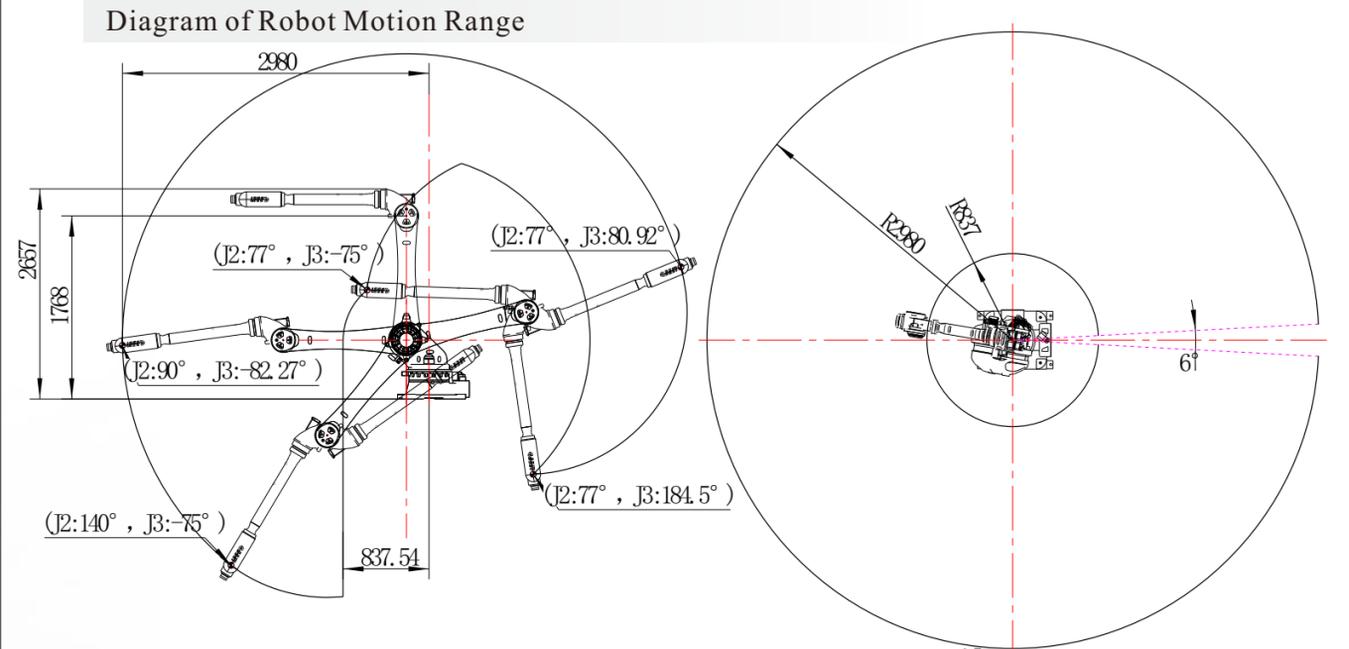


Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

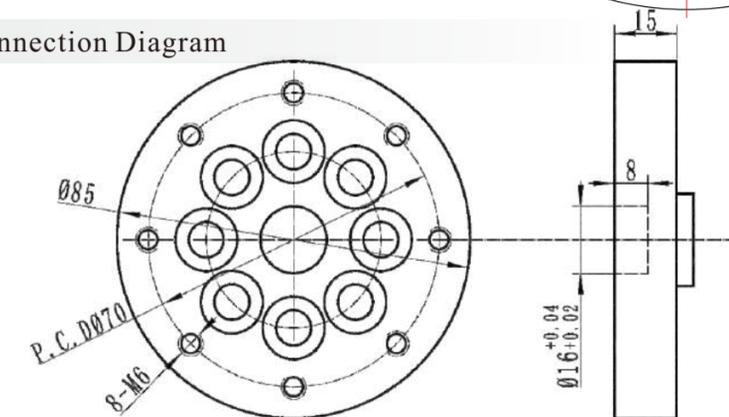
SZGH General-purpose Series Robots

SZGH-T2950-3C-6

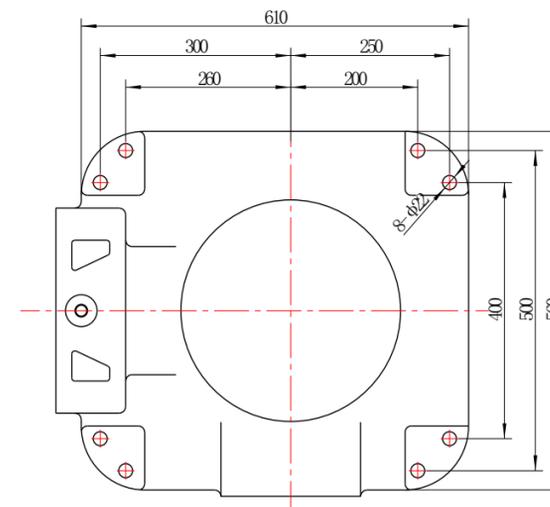
Payload	30kg	
Reach	2950mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.15mm	
Max. motion range	Axis 1	±175°
	Axis 2	+140°/-77°
	Axis 3	+175°/-75°
	Axis 4	±360°
	Axis 5	±115°
	Axis 6	±360°
Max. speed	Axis 1	180°/sec
	Axis 2	180°/sec
	Axis 3	150°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
	Axis 6	360°/sec
Weight	≈700kg	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Materials handling, parts transfer, palletizing, deburring, grinding & cutting

Applicable Cases

Irregular workpiece punching & deburring

SZGH-T2950-3C-6, a 30 kg robot newly developed by the company, has a high reach.

The figure on the right shows a customer's large injection molded part picking scene where the robot is used. It can fully meet the production rhyme and process requirements of large injection molding machine.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

SZGH Grinding Series Robots

SZGH-M1000-E-6

Payload	50kg	
Reach	1000mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.08mm	
Max. motion range	Axis 1	±175°
	Axis 2	+105°/-63°
	Axis 3	+59°/-80°
	Axis 4	±360°
	Axis 5	±115°
	Axis 6	±360°
Max. speed	Axis 1	180°/sec
	Axis 2	180°/sec
	Axis 3	150°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
Weight	≈180kg	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	

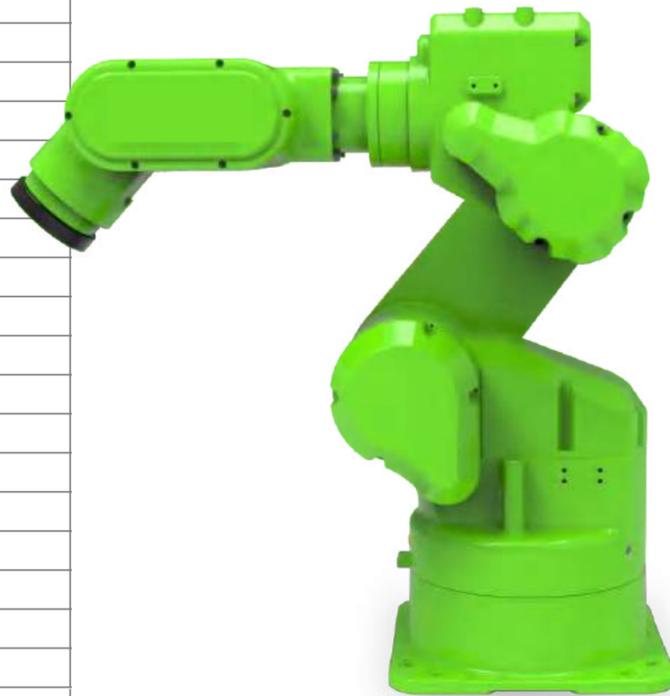
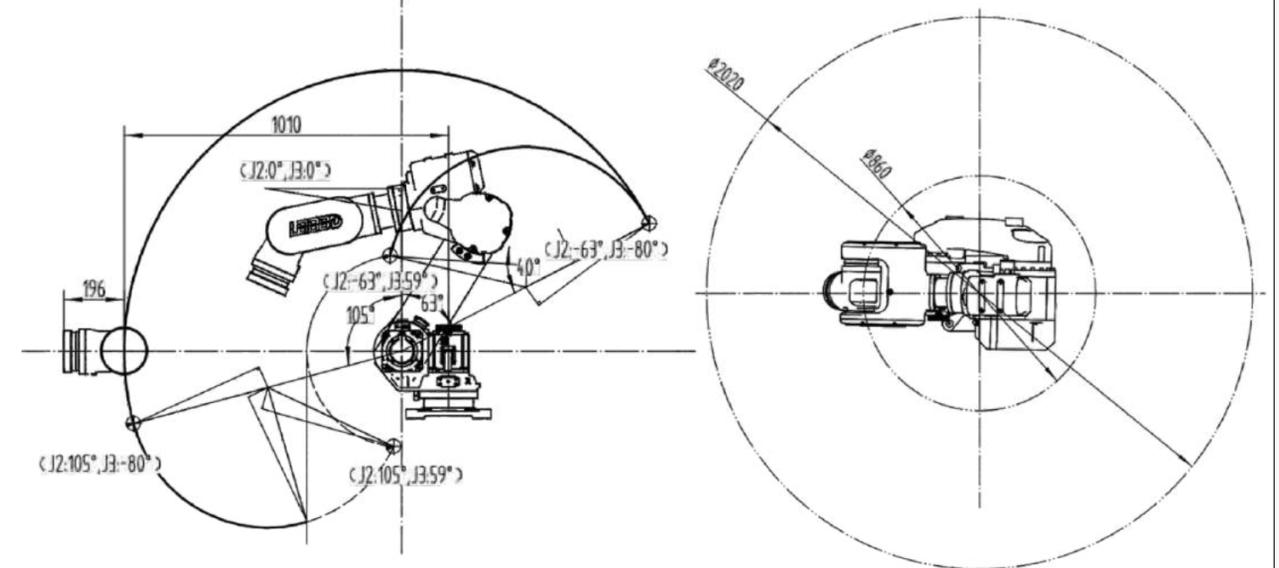
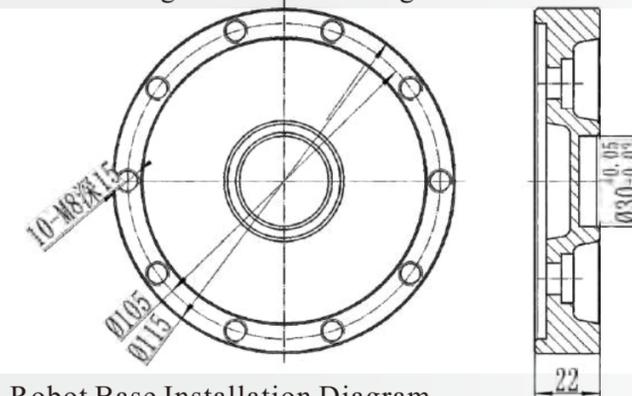


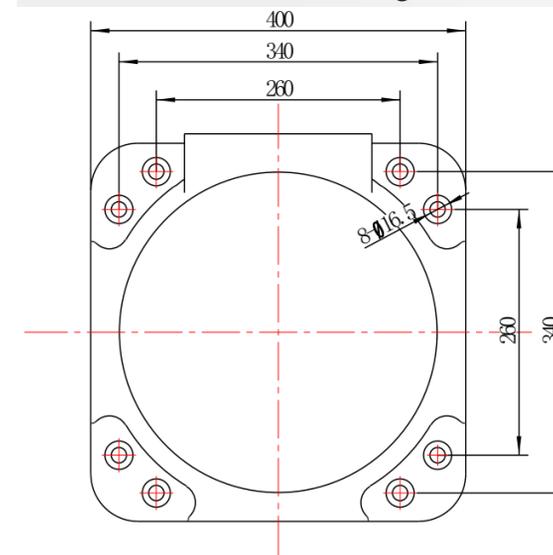
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Grinding, polishing & deburring

Applicable Cases

Irregular workpiece punching & deburring

SZGH-M1000-E-6, a 50 kg robot newly developed by the company, has a high reach.

The figure on the right shows a customer's use of the robot for spherical grinding. The robot has a built-in grinding process pack to facilitate the completion of customer's grinding tasks.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

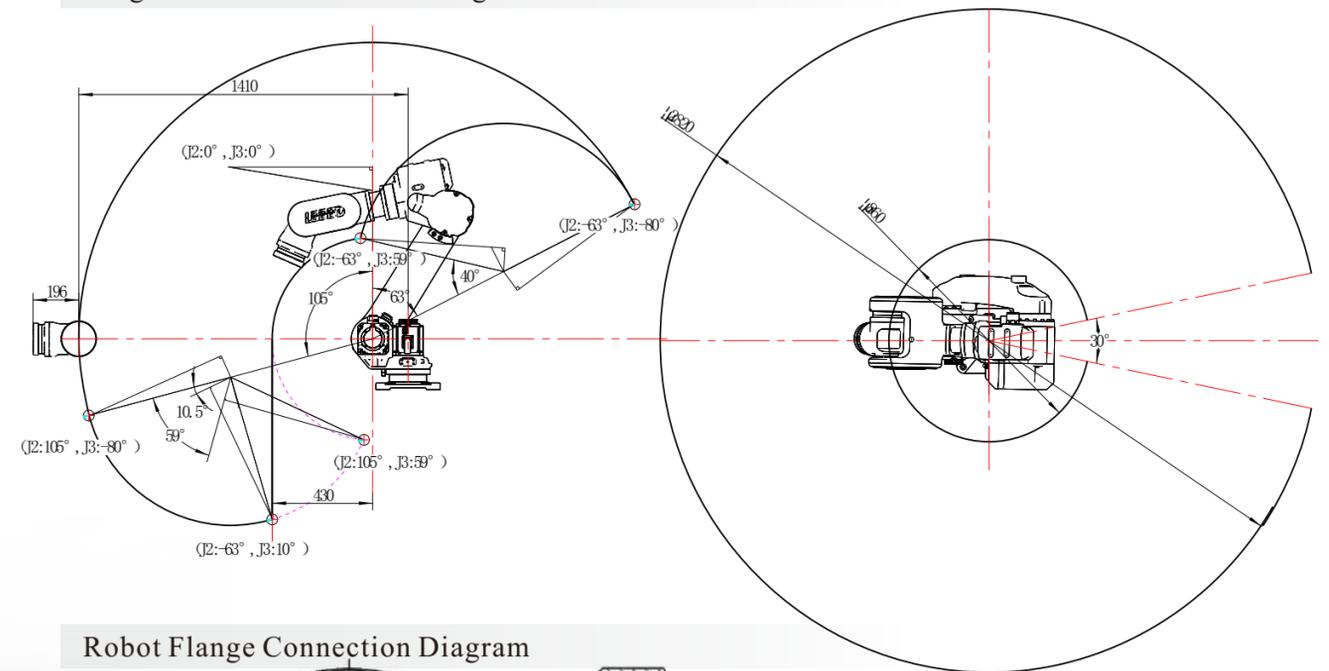
SZGH Grinding Series Robots

SZGH-M1400-3C-6

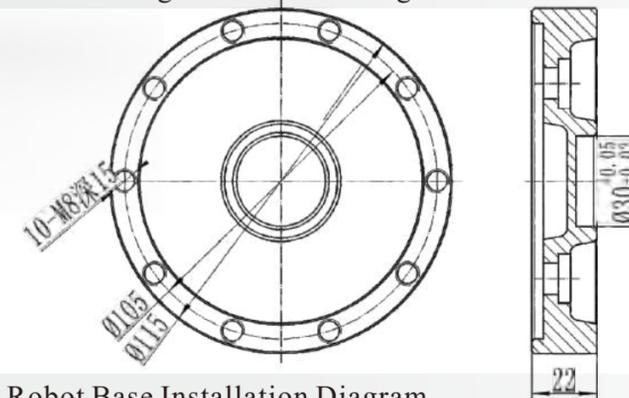
Payload	30kg	
Reach	1400mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.05mm	
Max. motion range	Axis 1	±175°
	Axis 2	+105°/-63°
	Axis 3	+59°/-80°
	Axis 4	±360°
	Axis 5	±115°
	Axis 6	±360°
Max. speed	Axis 1	180°/sec
	Axis 2	180°/sec
	Axis 3	150°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
	Axis 6	360°/sec
Weight	≈185kg	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	



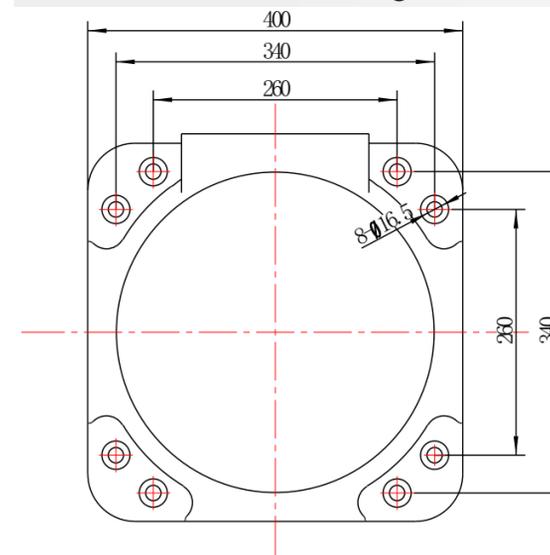
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Grinding, polishing & deburring

Applicable Cases

Irregular workpiece punching & deburring

SZGH-M1400-3C-6, a 30 kg robot newly developed by the company, has a high reach.

The figure on the right shows a customer's use of the robot for spherical grinding. The robot has a built-in grinding process pack to facilitate the completion of customer's grinding tasks.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

SZGH Grinding Series Robots

SZGH-M1850-3C-6

Payload	30kg	
Reach	1850mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.05mm	
Max. motion range	Axis 1	±175°
	Axis 2	+105°/-63°
	Axis 3	+59°/-80°
	Axis 4	±360°
	Axis 5	±115°
	Axis 6	±360°
Max. speed	Axis 1	180°/sec
	Axis 2	180°/sec
	Axis 3	150°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
	Axis 6	360°/sec
Weight	≈270kg	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	



Main Applications

Grinding, polishing & deburring

Applicable Cases

Irregular workpiece punching & deburring

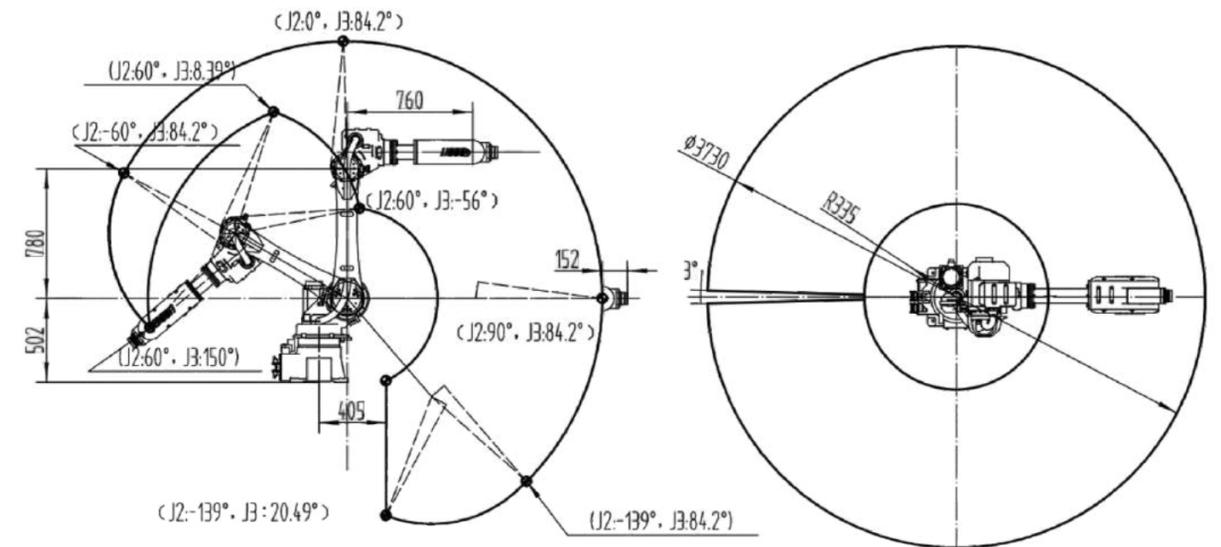
SZGH-M1850-3C-6, a 30 kg robot newly developed by the company, has a high reach.

The figure on the right shows a customer's use of the robot for spherical grinding. The robot has a built-in grinding process pack to facilitate the completion of customer's grinding tasks.

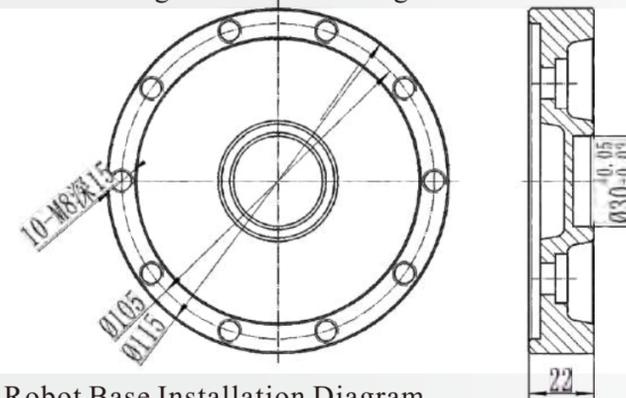


Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

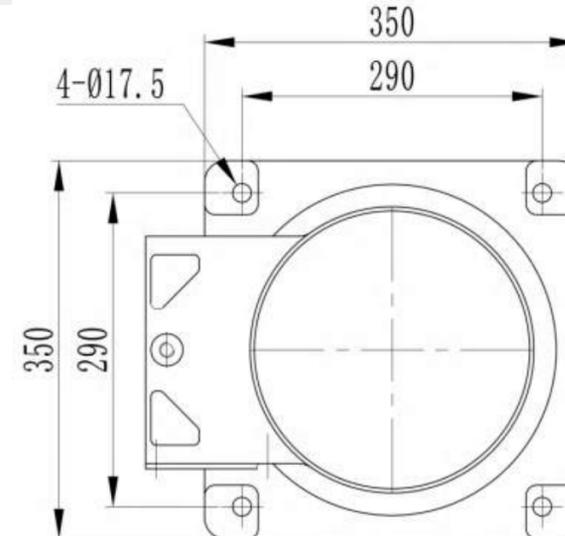
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram

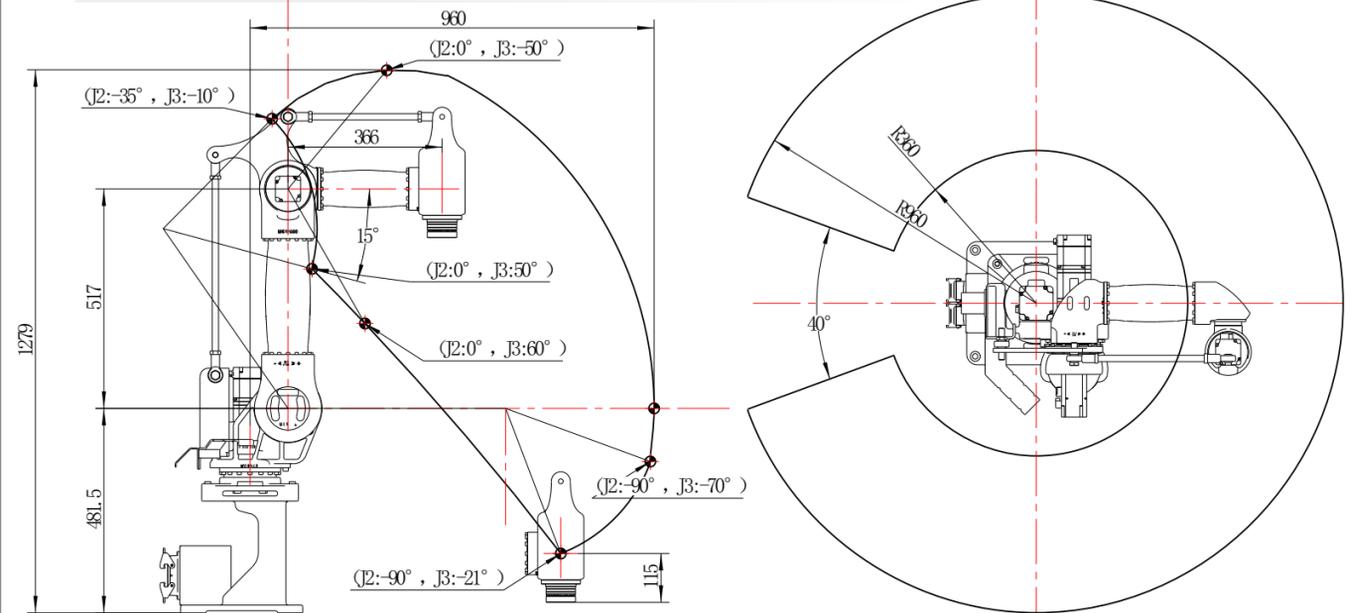


SZGH-BG1000-B-4 Palletizing Robots

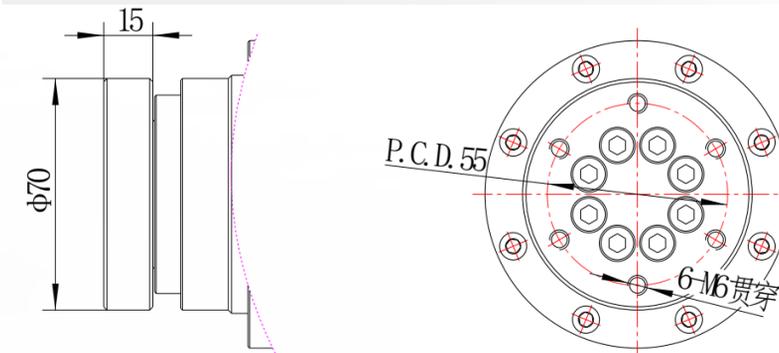
Payload	6kg	
Reach	1000mm	
Structure	Articulated	
Number of axes	4	
Repeatability	±0.05mm	
Max. motion range	Axis 1	±160°
	Axis 2	+90°/-35°
	Axis 3	+50°/-70°
	Axis 4	±360°
	Axis 5	—
	Axis 6	—
Max. speed	Axis 1	223°/sec
	Axis 2	223°/sec
	Axis 3	375°/sec
	Axis 4	600°/sec
	Axis 5	—
	Axis 6	—
Weight	≈60KG	
Mounting type	Horizontal, Wall, Ceiling	
Ambient temperature	-20°C ~ 80°C	
Ambient humidity	-20% ~ 81% Non-condensing	



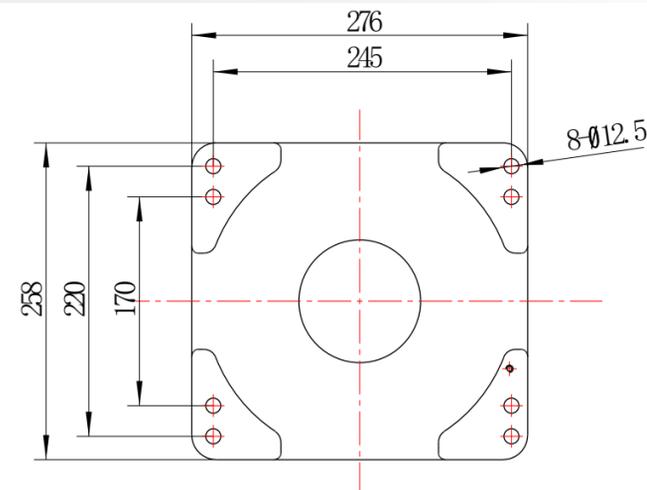
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Materials handling, parts transfer, machine management, palletizing, packaging & testing

Applicable Cases

Loading & unloading of small stamped parts

SZGH-BG1000-B-4, a 6 kg light-duty robot newly developed by the company, has a high reach.

The figure on the right shows the loading and unloading scene in a customer's stamping shop where the robot is used. Given its compact structure and high speed, it can fully meet the rhyme and process requirements of common stamping presses.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

SZGH Handling Series Robots

SZGH-B1500-C-4

Payload	10kg	
Reach	1500mm	
Structure	Articulated	
Number of axes	4	
Repeatability	±0.05mm	
Max. motion range	Axis 1	±165°
	Axis 2	+90°/-25°
	Axis 3	+35°/-90°
	Axis 4	±360°
	Axis 5	-----
	Axis 6	-----
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	150°/sec
	Axis 4	360°/sec
	Axis 5	-----
	Axis 6	-----
Weight	≈140KG	
Mounting type	Horizontal	
Ambient temperature	-20°C ~ 80°C	

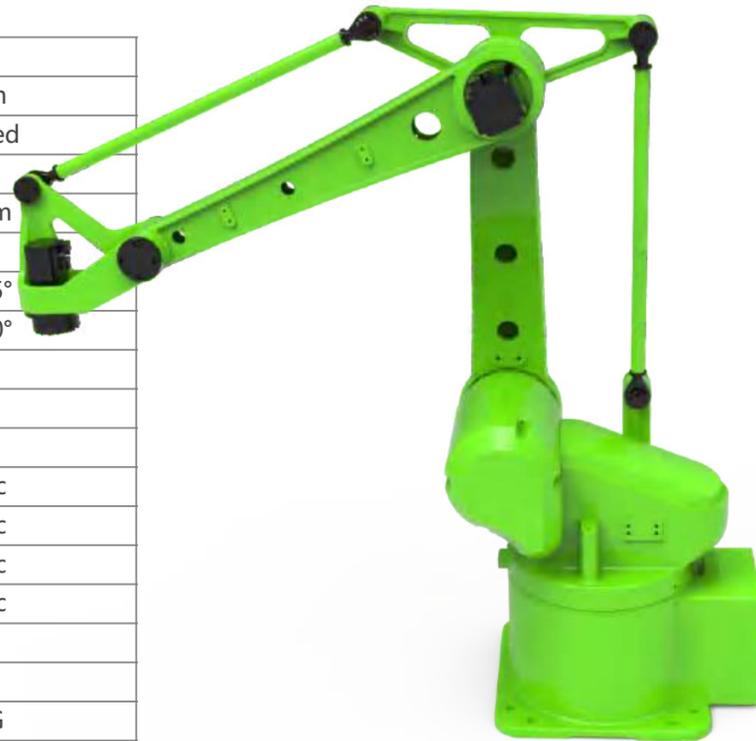
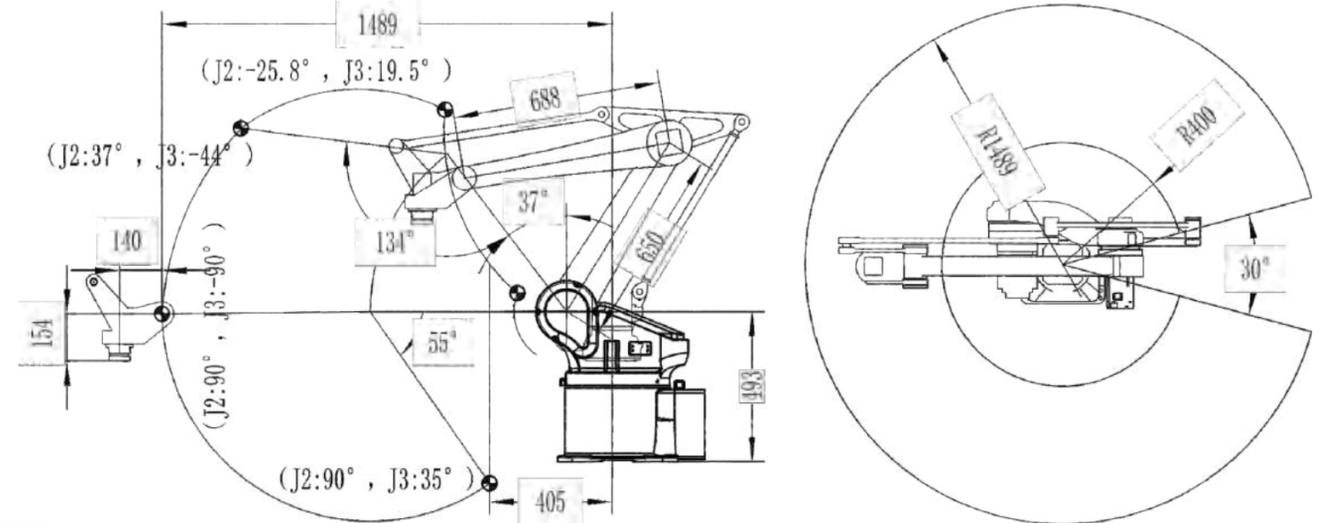
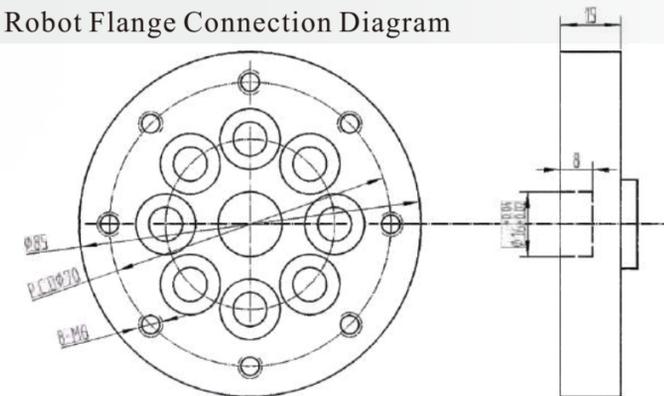


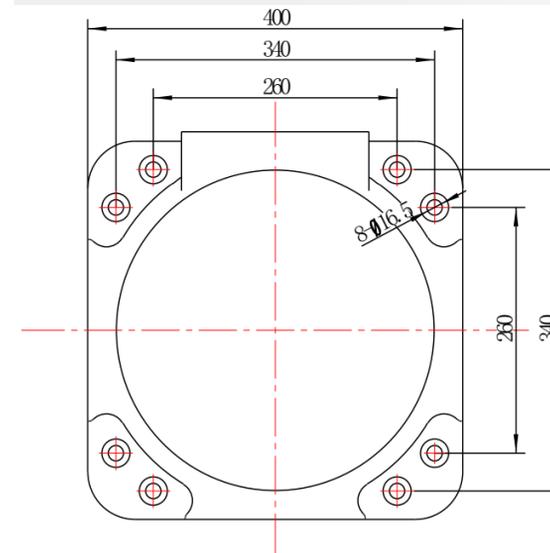
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Materials handling, parts transfer, palletizing, deburring & cutting

Applicable Cases

Loading & unloading for stamping

SZGH-B1500-C-4 robot with a 10 kg payload is mainly used for stamping operations of production lines.

The figure shows the work site of a customer's stamping line. The robot can realize loading and unloading extensively in a confined space, thereby significantly enhancing the production efficiency.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

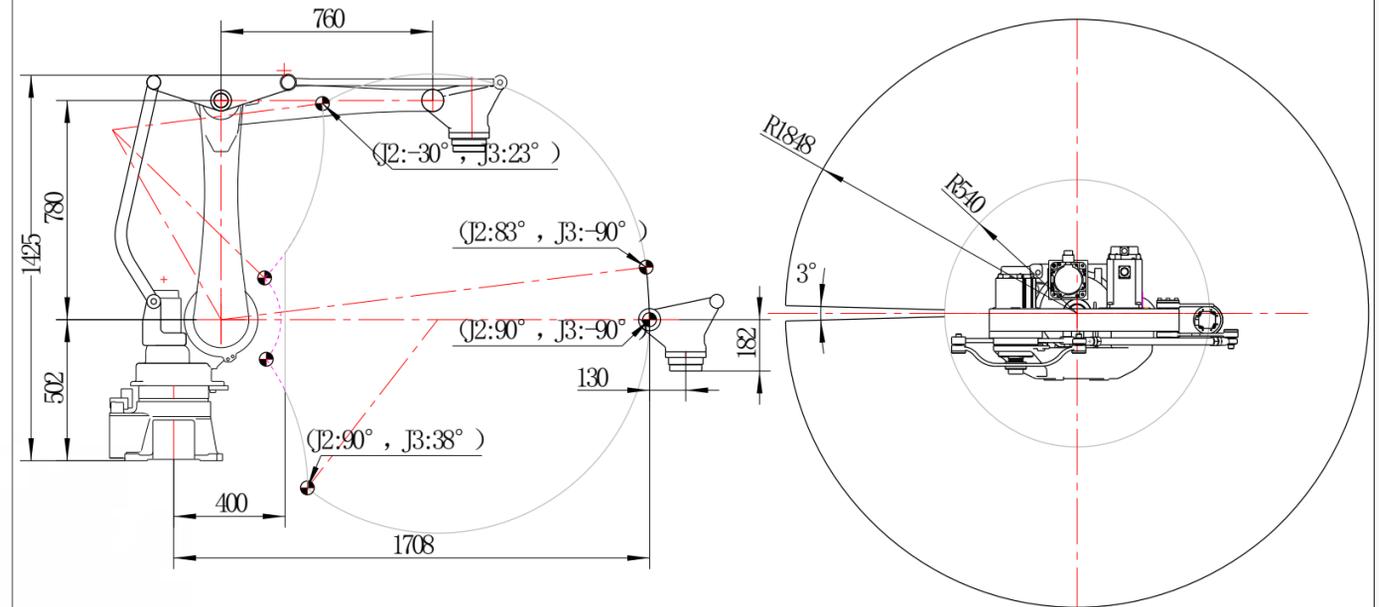
SZGH Handling Series Robots

SZGH-B1850-D-4

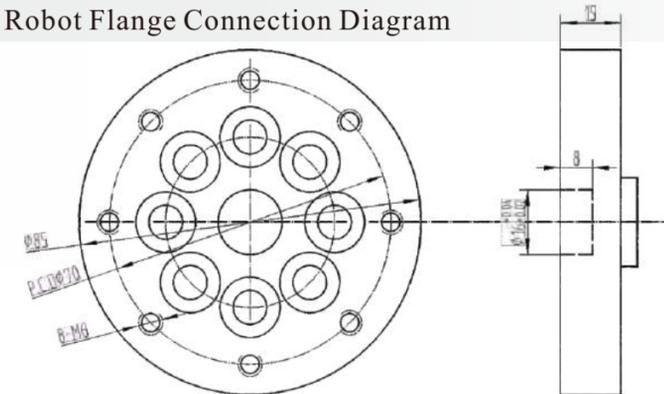
Payload	20kg	
Reach	1850mm	
Structure	Articulated	
Number of axes	4	
Repeatability	±0.05mm	
Max. motion range	Axis 1	±180°
	Axis 2	+90°/-30°
	Axis 3	+51°/-90°
	Axis 4	±360°
	Axis 5	-----
	Axis 6	-----
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	150°/sec
	Axis 4	360°/sec
	Axis 5	-----
Axis 6	-----	
Weight	≈230KG	
Mounting type	Horizontal	
Ambient temperature	-20°C ~ 80°C	



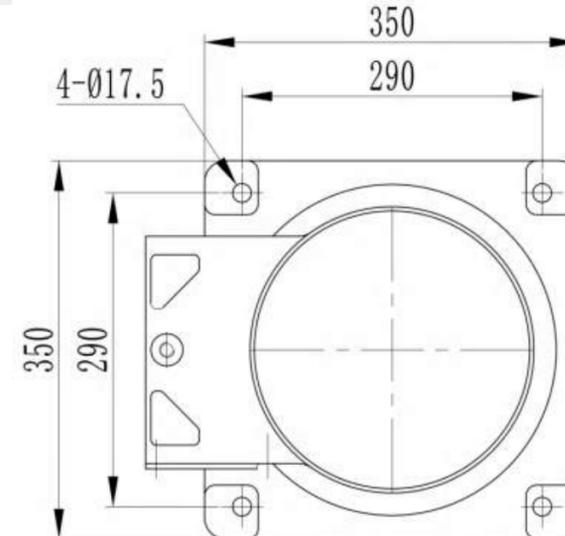
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Materials handling, parts transfer, palletizing, deburring & cutting

Applicable Cases

Loading & unloading for production lines

SZGH-B1850-D-4 robot with a 20 kg payload can be used for loading and unloading for single or multiple stamping presses and realize stamping operations of production lines. The figure on the right shows the production line palletizing solution provided for a customer. The pallet size is 1.1 m×1.1 m and the required palletizing height is 1.6 m. One robot can realize palletizing of two pallets simultaneously, thus significantly enhancing the efficiency of the production line and reducing labor cost.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

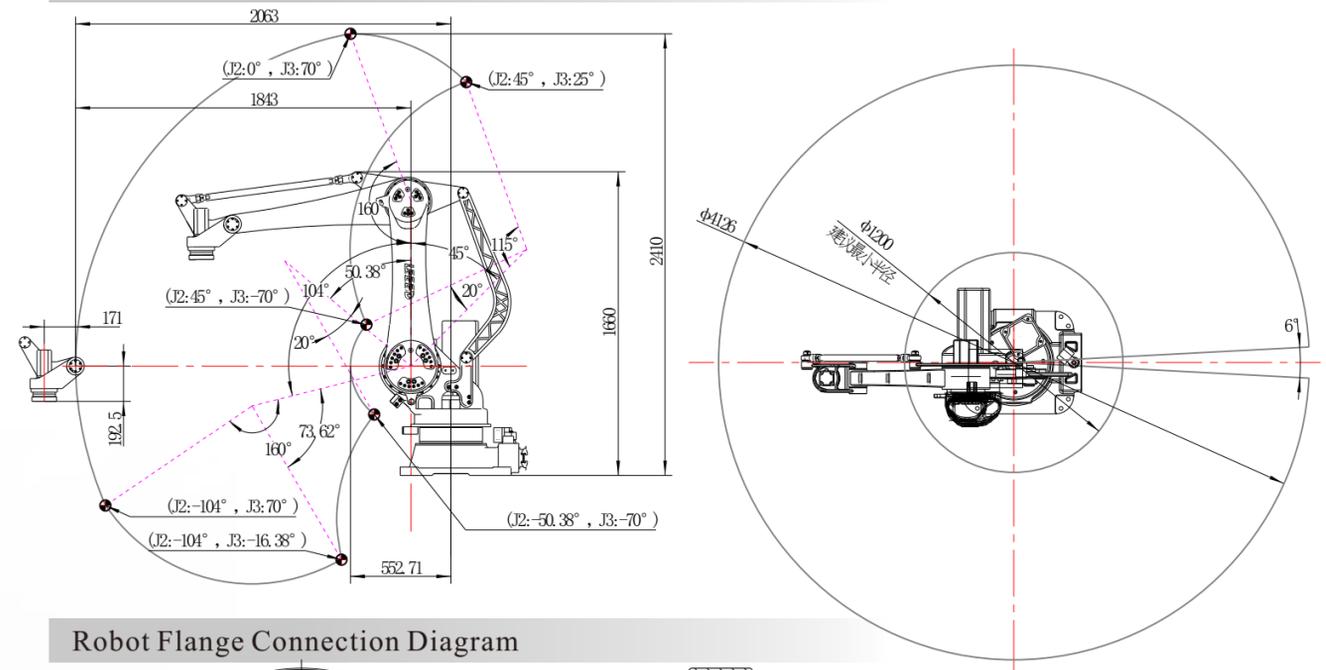
SZGH Handling Series Robots

SZGH-B2100-F-4

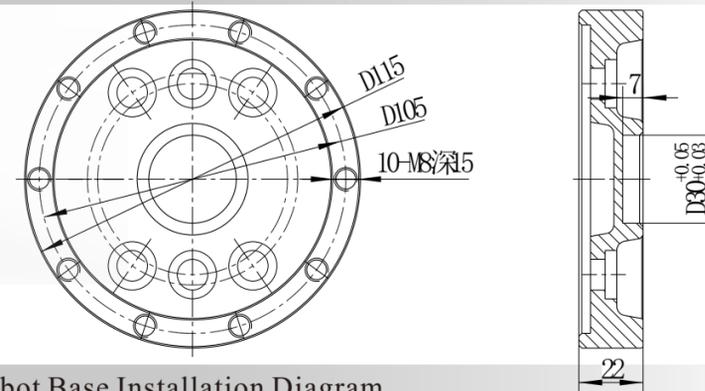
Payload	100kg	
Reach	2100mm	
Structure	Articulated	
Number of axes	4	
Repeatability	±0.1mm	
Max. motion range	Axis 1	±180°
	Axis 2	+140°/-77°
	Axis 3	+75°/-184°
	Axis 4	±450°
	Axis 5	-----
	Axis 6	-----
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	150°/sec
	Axis 4	360°/sec
	Axis 5	-----
	Axis 6	-----
Weight	≈650kg	
Mounting type	Horizontal	
Applicable industries	Handling, loading & unloading, palletizing	
Ambient temperature	-20°C ~ 80°C	



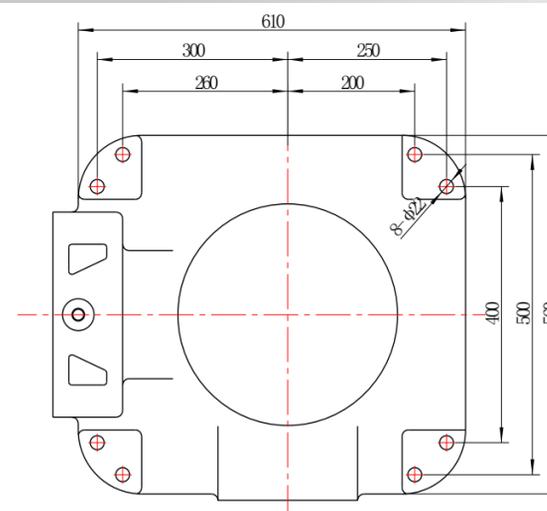
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Materials handling, parts transfer, palletizing, deburring & cutting

Applicable Cases

Palletizing of materials in bags

SZGH-B2100-F-4 robot with a 100 kg payload is a heavy-duty palletizing robot widely used in such applications as loading and unloading of various chemicals, and palletizing on production lines.

The figure shows the scene of a customer's chemical material loading line where a robot manages the entire line, thereby relieving workers of hard work and solving the company's problem of difficult employment for the station.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

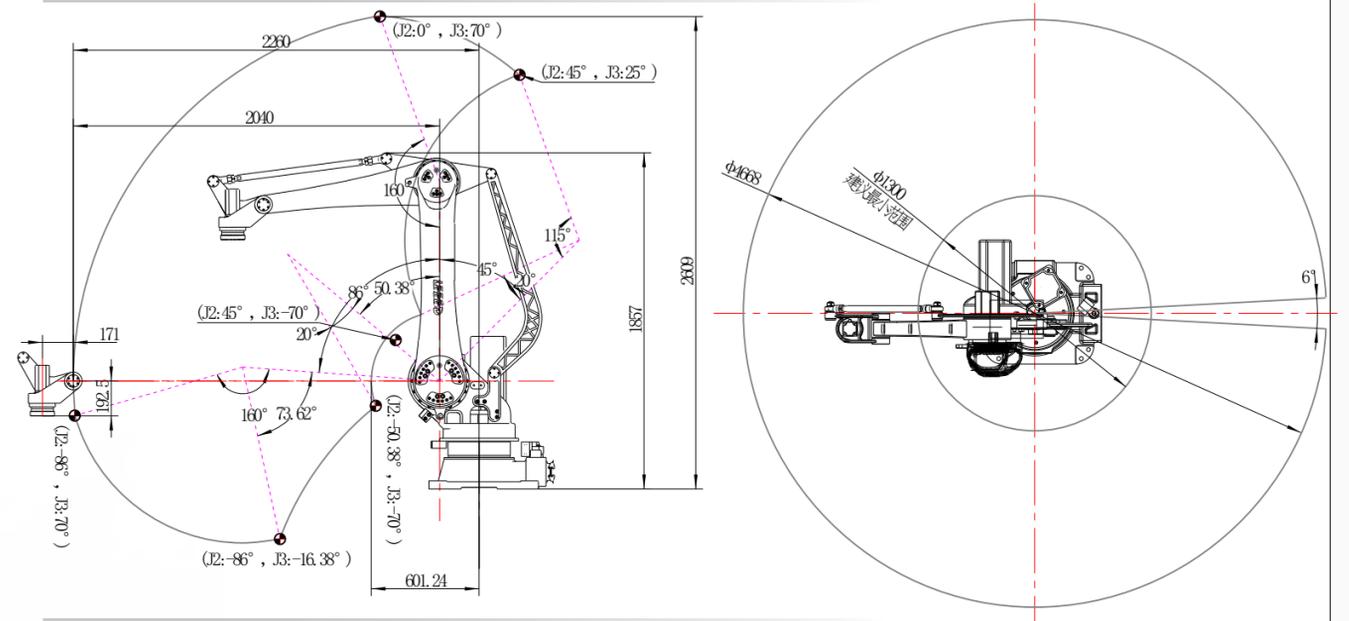
SZGH Handling Series Robots

SZGH-B2300-E-4

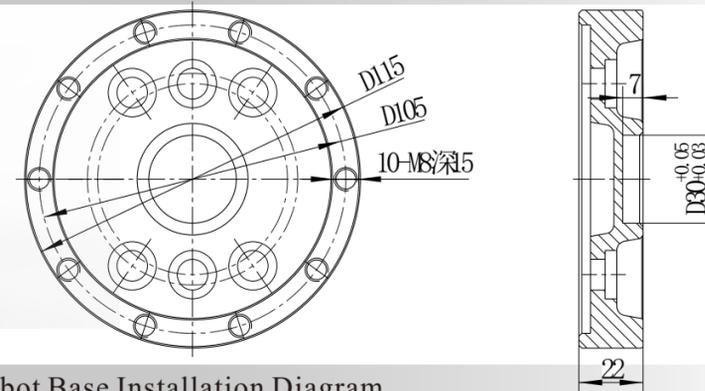
Payload	50kg	
Reach	2300mm	
Structure	Articulated	
Number of axes	4	
Repeatability	±0.1mm	
Max. motion range	Axis 1	±180°
	Axis 2	+140°/-77°
	Axis 3	+75°/-184°
	Axis 4	±450°
	Axis 5	-----
	Axis 6	-----
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	150°/sec
	Axis 4	360°/sec
	Axis 5	-----
	Axis 6	-----
Weight	≈660kg	
Mounting type	Horizontal	
Applicable industries	Handling, loading & unloading, palletizing	
Ambient temperature	-20°C ~ 80°C	



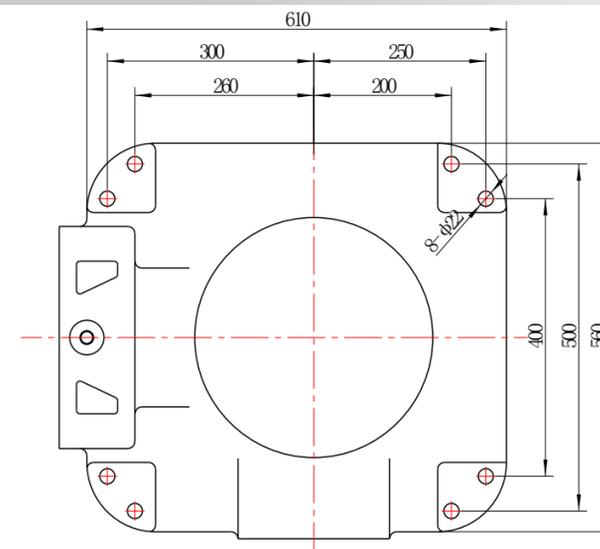
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Materials handling, parts transfer, palletizing, deburring & cutting

Applicable Cases

Palletizing of materials in bags

SZGH-B2300-E-4 robot with a 50 kg payload is a medium-duty palletizing robot. Compared with other robots, this robot has a moderate payload and has certain advantages in palletizing height and scope.

The figure shows the diagram of the box packaging line handling & palletizing scheme provided for a customer. It can realize handling and palletizing of packaging boxes of medium weight.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

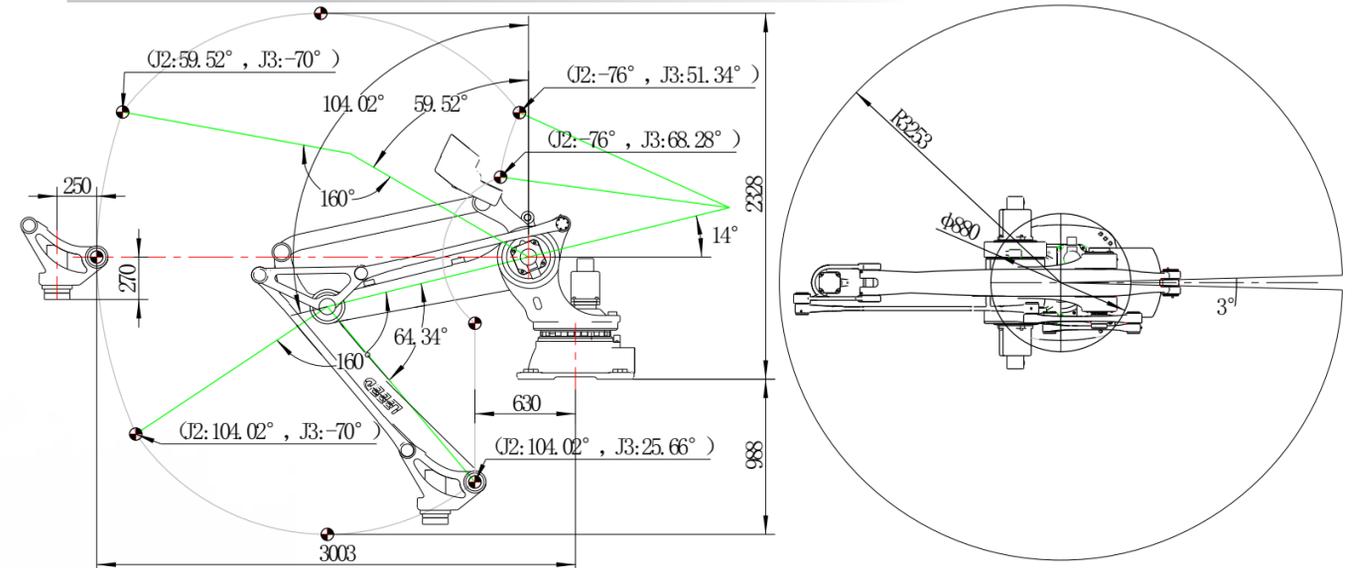
SZGH Handling Series Robots

SZGH-B3100-G-4

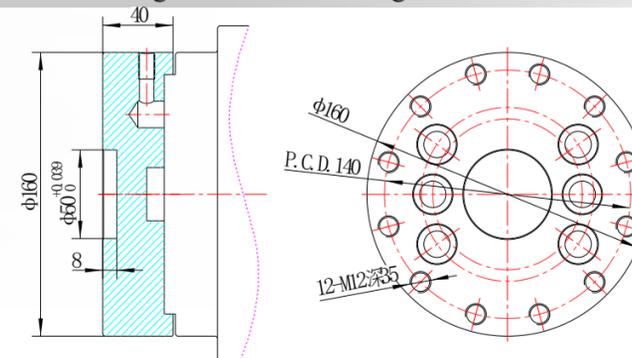
Payload	165kg	
Reach	3100mm	
Structure	Articulated	
Number of axes	4	
Repeatability	±0.2mm	
Max. motion range	Axis 1	±180°
	Axis 2	+104°/-76°
	Axis 3	+68°/-76°
	Axis 4	±450°
	Axis 5	-----
	Axis 6	-----
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	150°/sec
	Axis 4	360°/sec
	Axis 5	-----
	Axis 6	-----
Weight	≈1600KG	
Mounting type	Horizontal	
Applicable industries	Handling, loading & unloading, palletizing	
Ambient temperature	-20°C ~ 80°C	



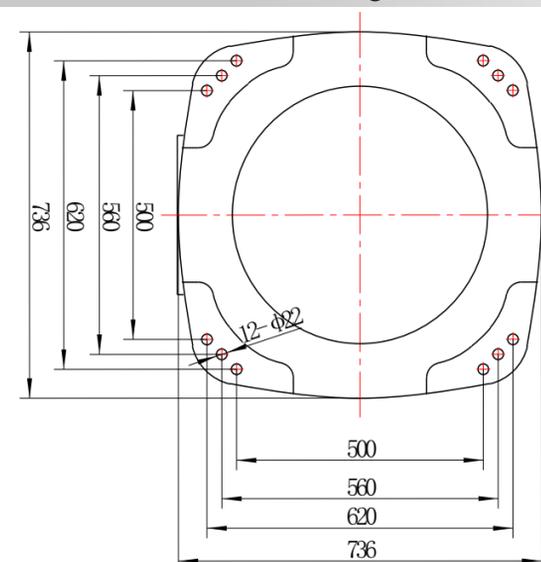
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Materials handling, parts transfer, palletizing, deburring & cutting

Applicable Cases

Unloading of cast aluminum ingots

SZGH-B3100-G-4 robot with a 165 kg payload is a heavy-duty palletizing robot widely used in casting shops, production line palletizing and various other applications. The figure shows the loading and unloading equipment provided for an industrial aluminum ingot casting shop. This equipment significantly enhances production efficiency of the company and solves the problem of difficulty in employment for dangerous and strenuous posts facing the enterprise.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

SZGH Painting Series Robots

SZGH-P1500-B-6

Payload	6KG	
Reach	1500mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.05mm	
Max. motion range	Axis 1	±165°
	Axis 2	+135°/-75°
	Axis 3	+78°/-76.5°
	Axis 4	±360°
	Axis 5	±115°
	Axis 6	±450°
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	150°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
Weight	≈150kg	
Mounting type	Ground, Bracket, Ceiling	
Applicable industries	Painting	
Ambient temperature	-20°C ~ 80°C	



Main Applications

Painting

Applicable Cases

Hanging line tracking and painting

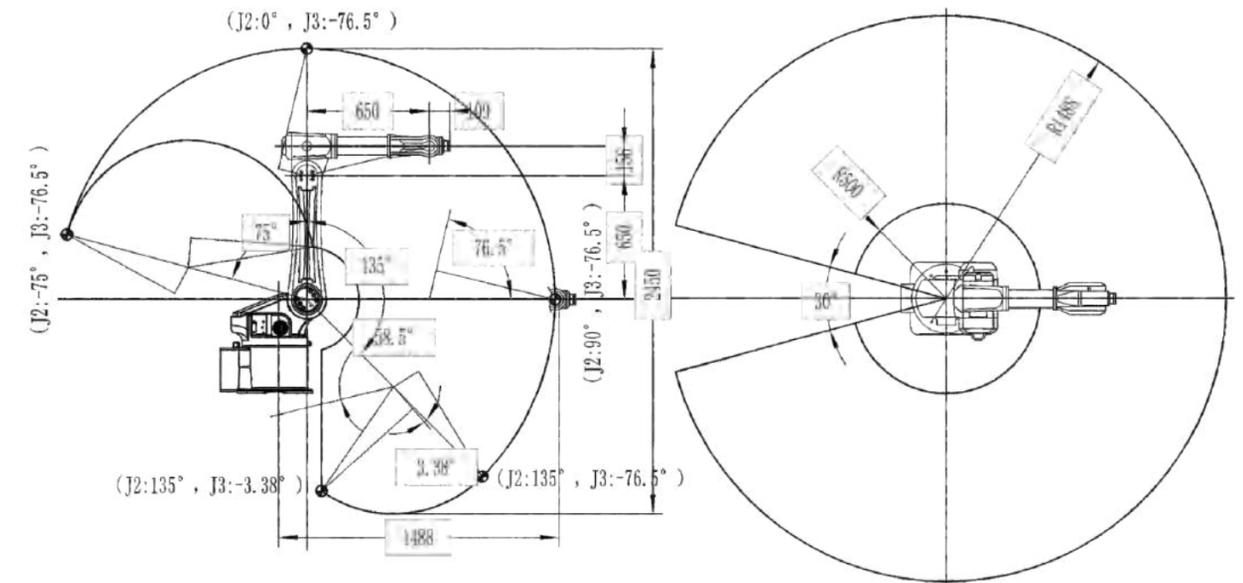
SZGH-P1500-B-6 is the earliest painting robot launched by the company. With a payload of 6 kg and a reach of 1500 mm, it is generally integrated with various non-standard turntables or hanging equipment to form work stations.

The figure shows the hanging line tracking and painting solution provided for a customer. It not only significantly reduces labor cost but also improves the yield.

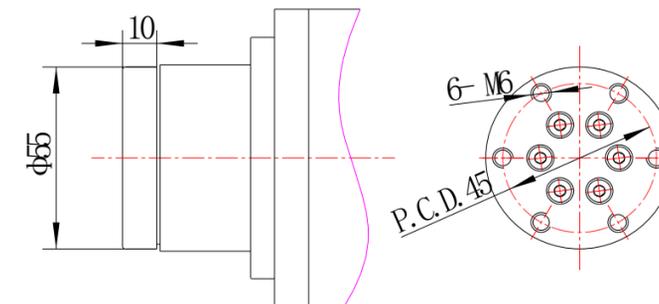


Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

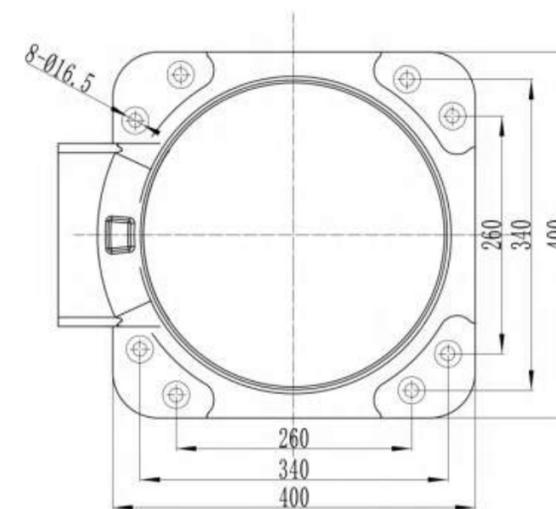
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



SZGH Painting Series Robots

SZGH-P1950-B-6

Payload	6KG	
Reach	1950mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.08mm	
Max. motion range	Axis 1	±170°
	Axis 2	+155°/-54°
	Axis 3	+60°/-32.6°
	Axis 4	±180°
	Axis 5	±115°
	Axis 6	±360°
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	150°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
	Axis 6	360°/sec
Weight	≈170kg	
Mounting type	Ground, Bracket, Ceiling	
Applicable industries	Painting	
Ambient temperature	-20°C ~ 80°C	

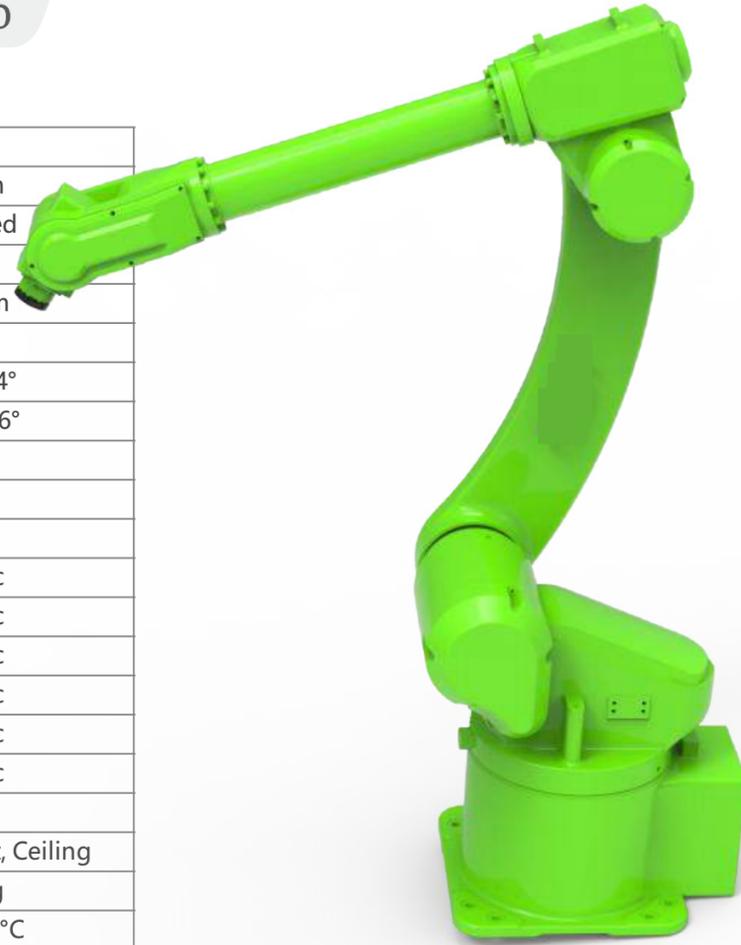
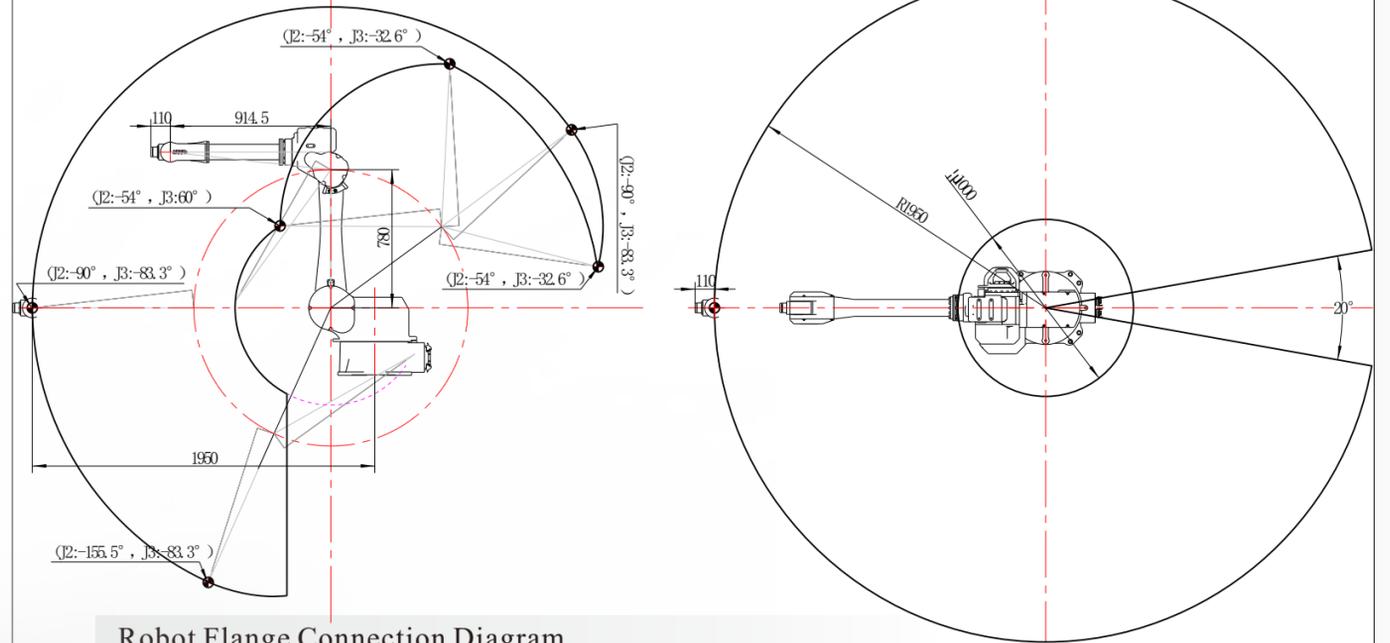
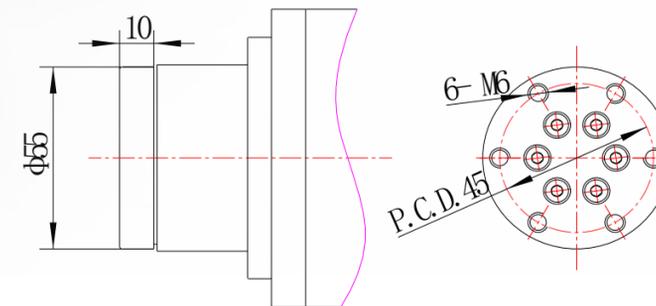


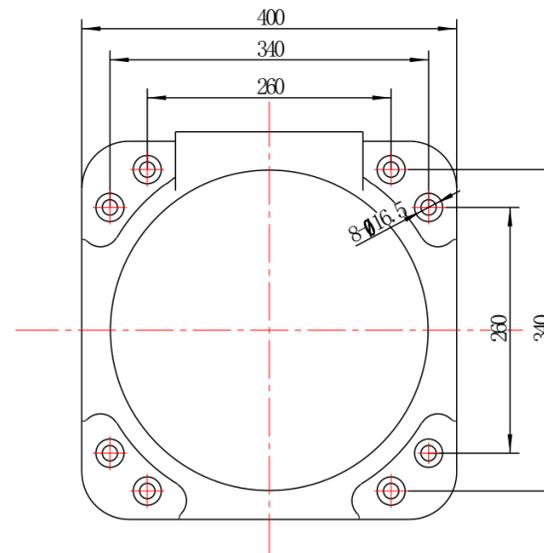
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Painting

Applicable Cases

Rotary painting of injection molded parts

SZGH-P1950-B-6 is a painting robot produced by company. Featuring dust-proof, waterproof and certain advantages in motion range, it is generally used in applications with adverse painting environment and helps improve the employment and working environment of an enterprise significantly.

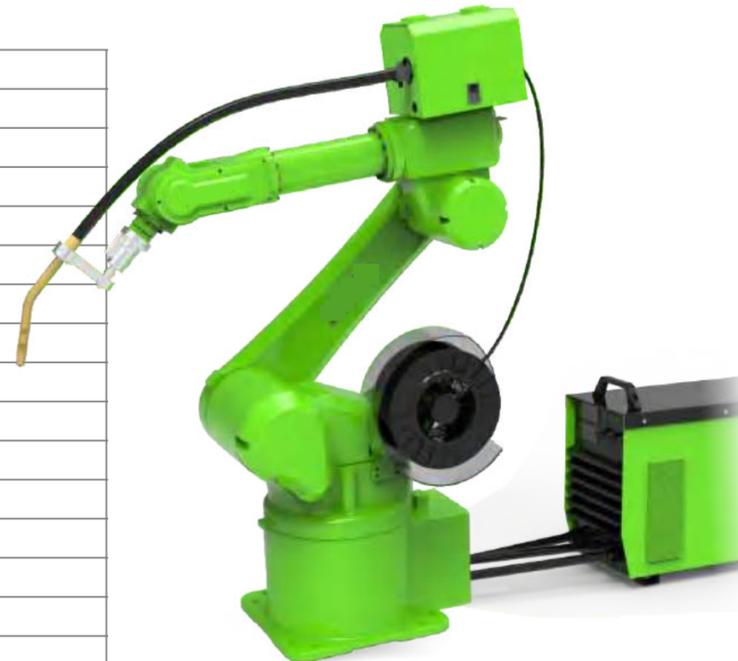


Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

SZGH Welding Series Robots (dust-proof)

SZGH-H1500-B-6

Payload	6KG	
Reach	1500mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.05mm	
Max. motion range	Axis 1	±165°
	Axis 2	+135°/-75°
	Axis 3	+78°/-76.5°
	Axis 4	±360°
	Axis 5	±115°
	Axis 6	±450°
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	150°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
	Axis 6	360°/sec
Weight	≈150kg	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	



Main Applications

Automobile, metal doors & windows, engineering machinery, mining machinery, locomotives, electrical appliances, furniture and other industries

Applicable Cases

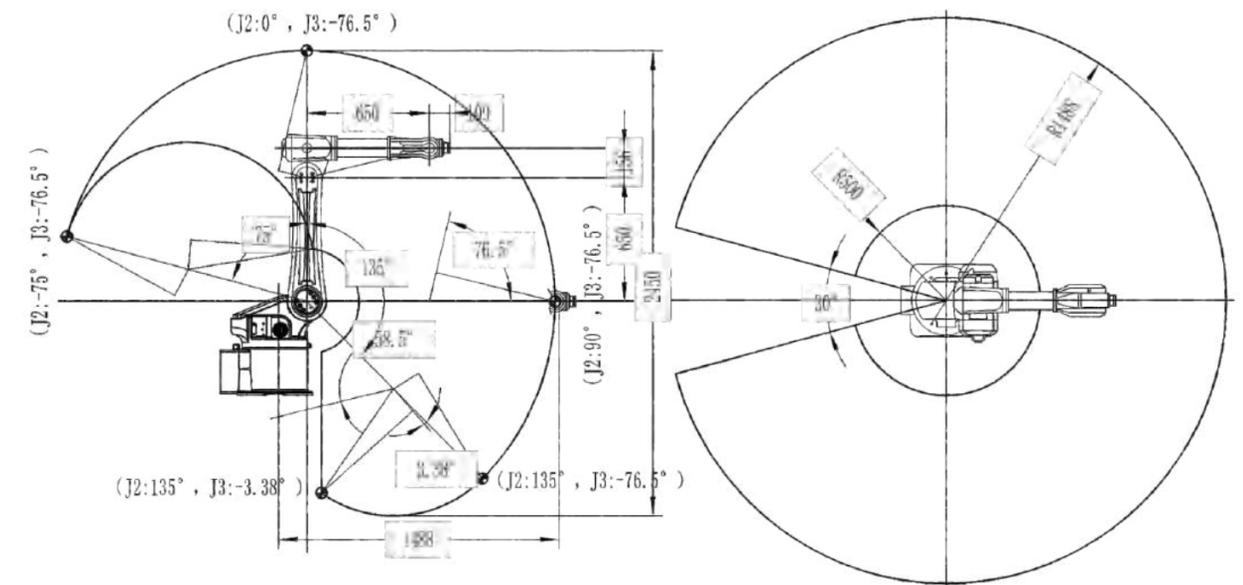
Welding station with a positioner

SZGH-H1500-B-6 robot is dedicated to welding. It is a robot developed for more adverse field environment of the customers based on the existing LH1850-B-6 robot. Compared with the previous model, this product has a higher floor space and stabler construction; moreover, there is a fully enclosed axis to effectively prevent welding spatters from damaging cables of the robot.

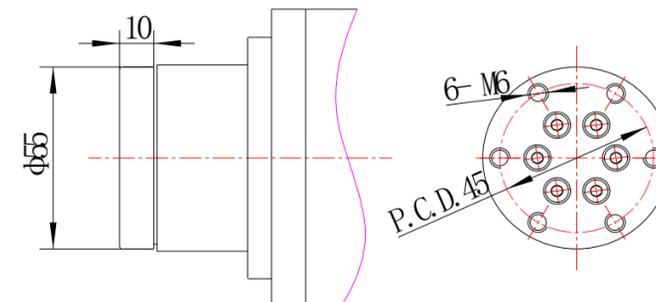


Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

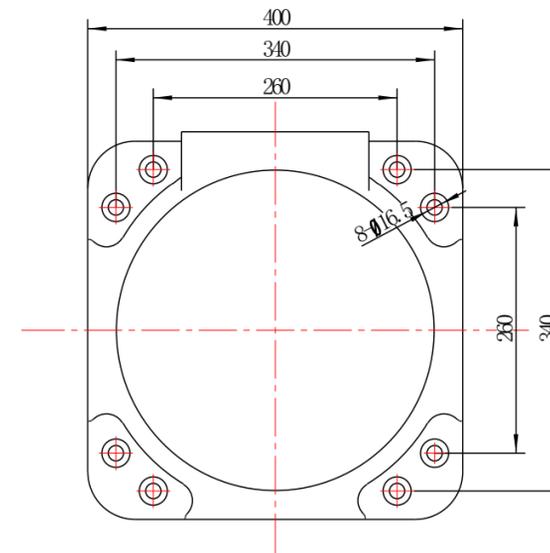
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



SZGH Welding Series Robots (dust-proof)

SZGH-H1850-B-6

Payload	6KG	
Reach	1850mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.05mm	
Max. motion range	Axis 1	±165°
	Axis 2	+135°/-75°
	Axis 3	+78°/-76.5°
	Axis 4	±360°
	Axis 5	±115°
	Axis 6	±450°
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	150°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
	Axis 6	360°/sec
Weight	≈170kg	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	

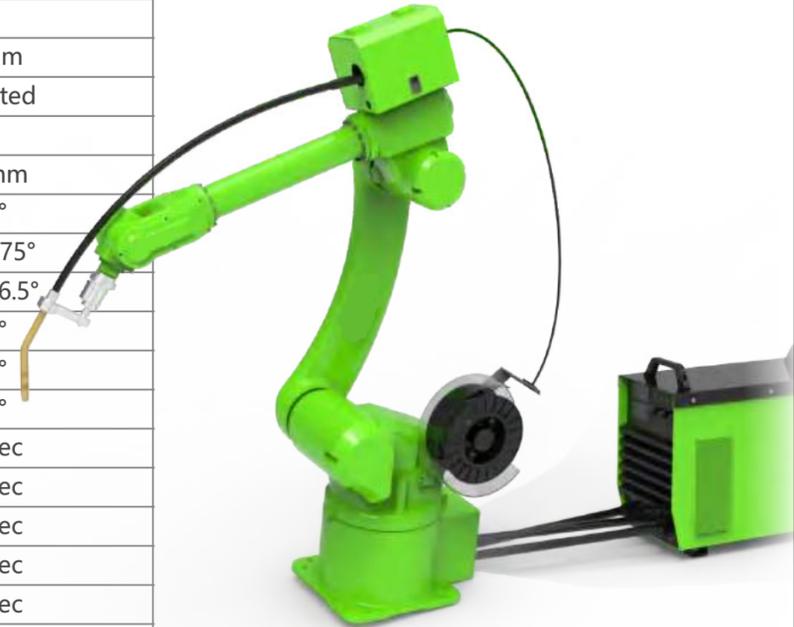
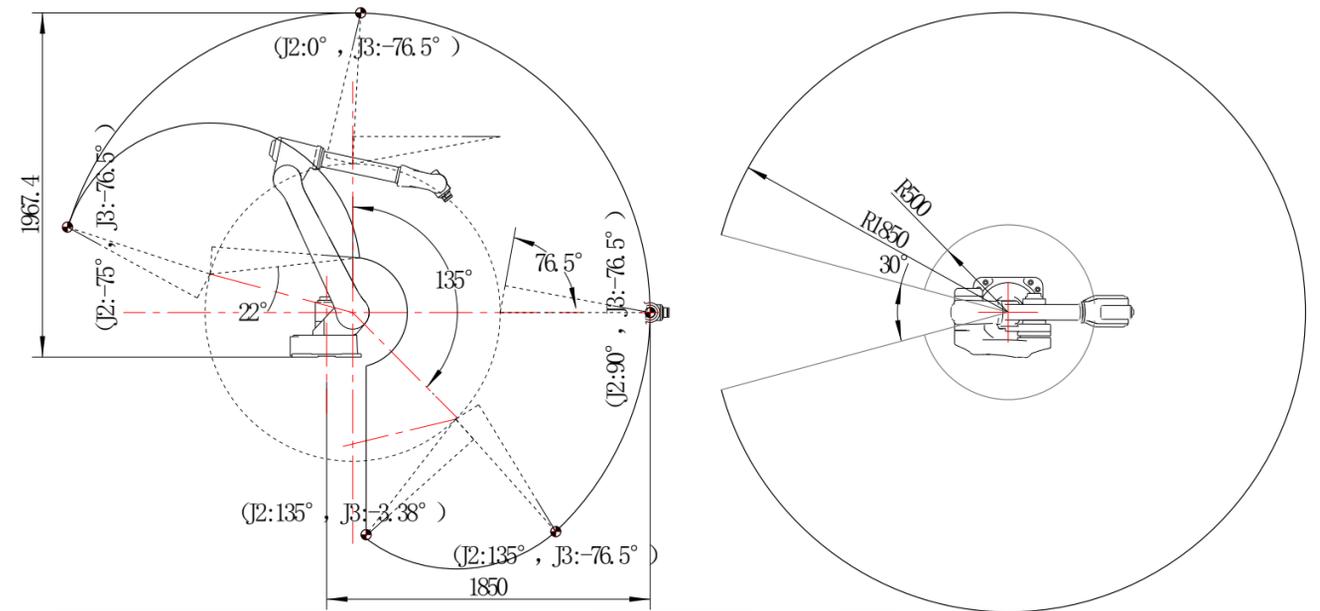
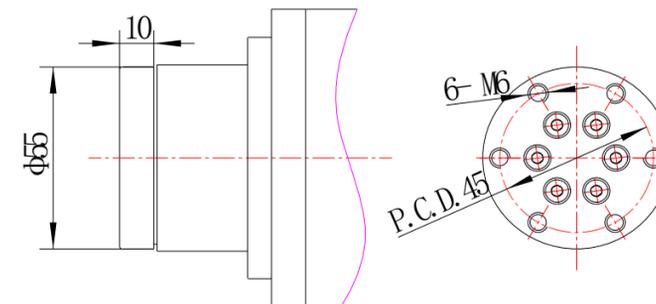


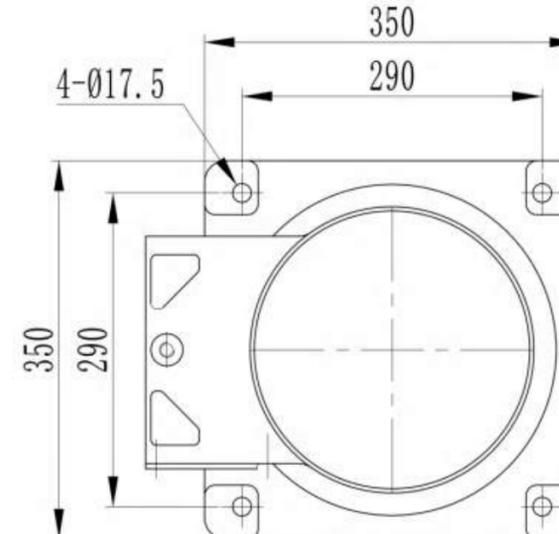
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Automobile, metal doors & windows, engineering machinery, mining machinery, locomotives, electrical appliances, furniture and other industries

Applicable Cases

Welding of ultra-heavy box structures

SZGH-H1850-B-6 robot is dedicated to welding, this product has a higher floor space and stabler construction; moreover, there is a fully enclosed axis to effectively prevent welding spatters from damaging cables of the robot.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

SZGH Welding Series Robots (dust-proof)

SZGH-H2100-B-6

Payload	6KG	
Reach	2100mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.05mm	
Max. motion range	Axis 1	±165°
	Axis 2	+135°/-75°
	Axis 3	+78°/-76.5°
	Axis 4	±360°
	Axis 5	±115°
	Axis 6	±450°
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	150°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
	Axis 6	360°/sec
Weight	≈235kg	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	

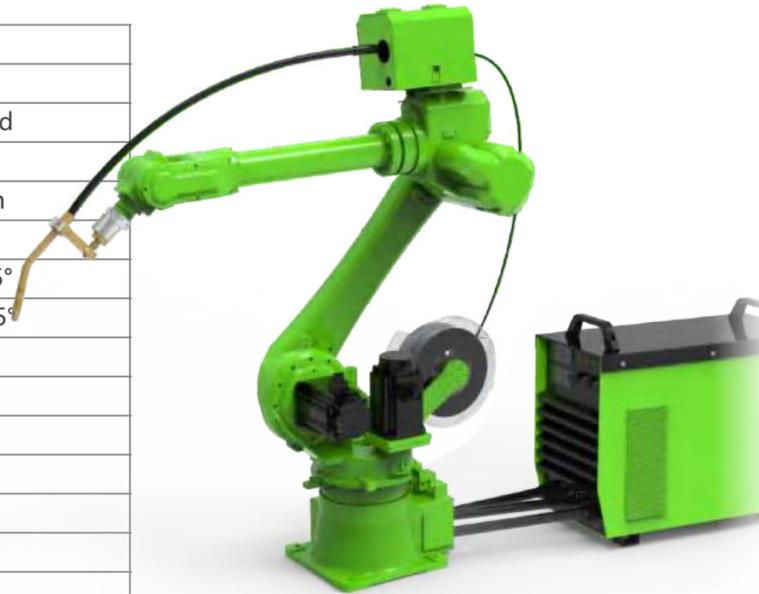
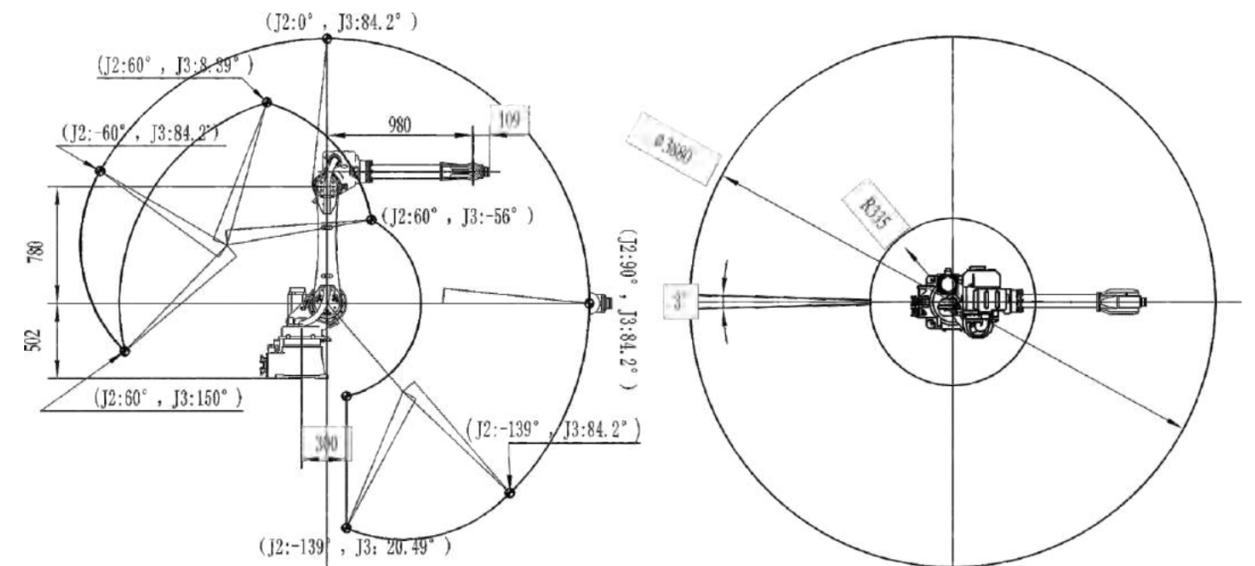
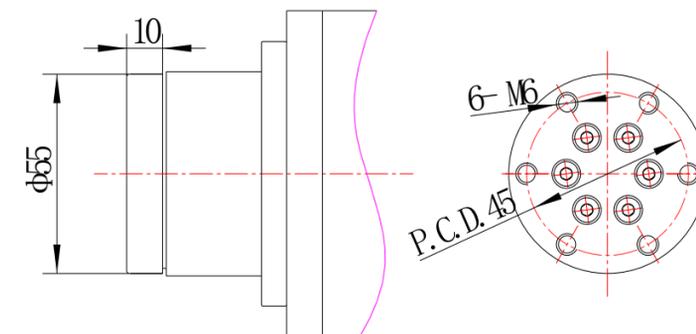


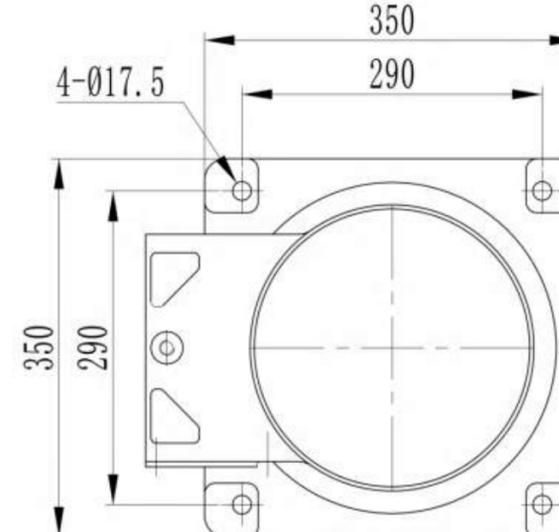
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Automobile, metal doors & windows, engineering machinery, mining machinery, locomotives, electrical appliances, furniture and other industries

Applicable Cases

Welding of ultra-heavy box structures

SZGH-H2100-B-6 robot is dedicated to welding, this product has a higher floor space and stabler construction; moreover, there is a fully enclosed axis to effectively prevent welding spatters from damaging cables of the robot.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

SZGH Welding Series Robots (hollow)

SZGH-HZ1500-B-6

Payload	6KG	
Reach	1500mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.05mm	
Max. motion range	Axis 1	±165°
	Axis 2	+135°/-90°
	Axis 3	+90°/-90°
	Axis 4	±360°
	Axis 5	+115°/-140°
	Axis 6	±450°
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	150°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
	Axis 6	360°/sec
Weight	≈150kg	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	



Main Applications

Automobile, metal doors & windows, engineering machinery, mining machinery, locomotives, electrical appliances, furniture and other industries

Applicable Cases

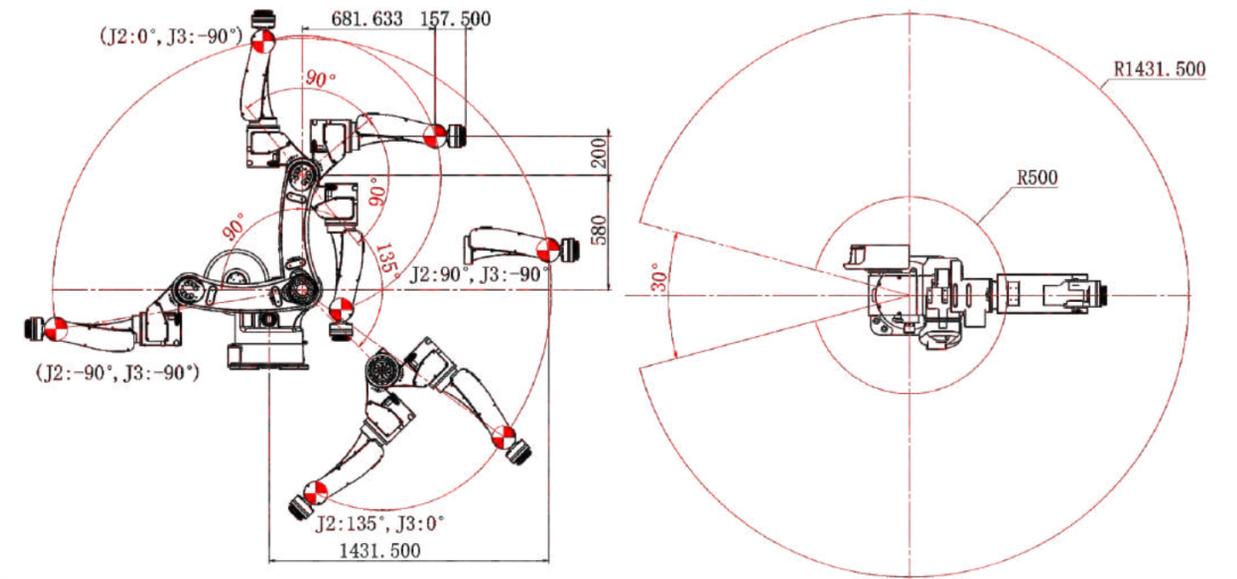
Welding station with a positioner

SZGH-HZ1500-B-6 robot is dedicated to welding. It is a robot developed for more adverse field environment of the customers. This product has a higher floor space and stabler construction than ever and there is a fully enclosed axis to effectively prevent welding spatters from damaging cables of the robot.

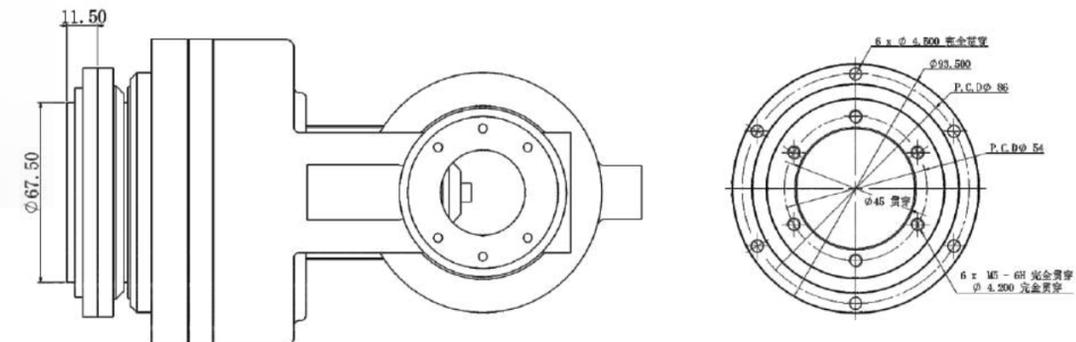


Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

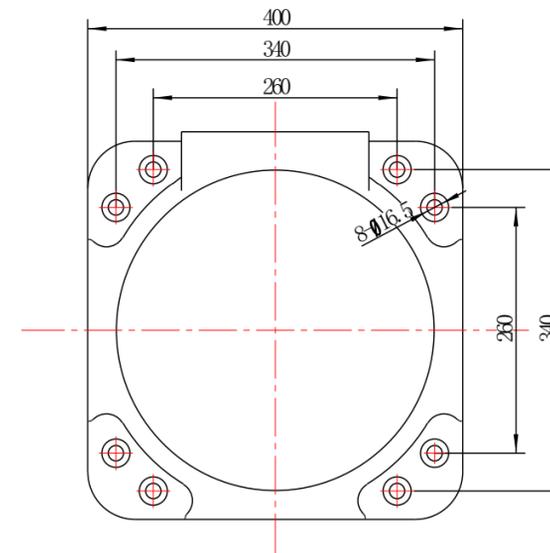
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



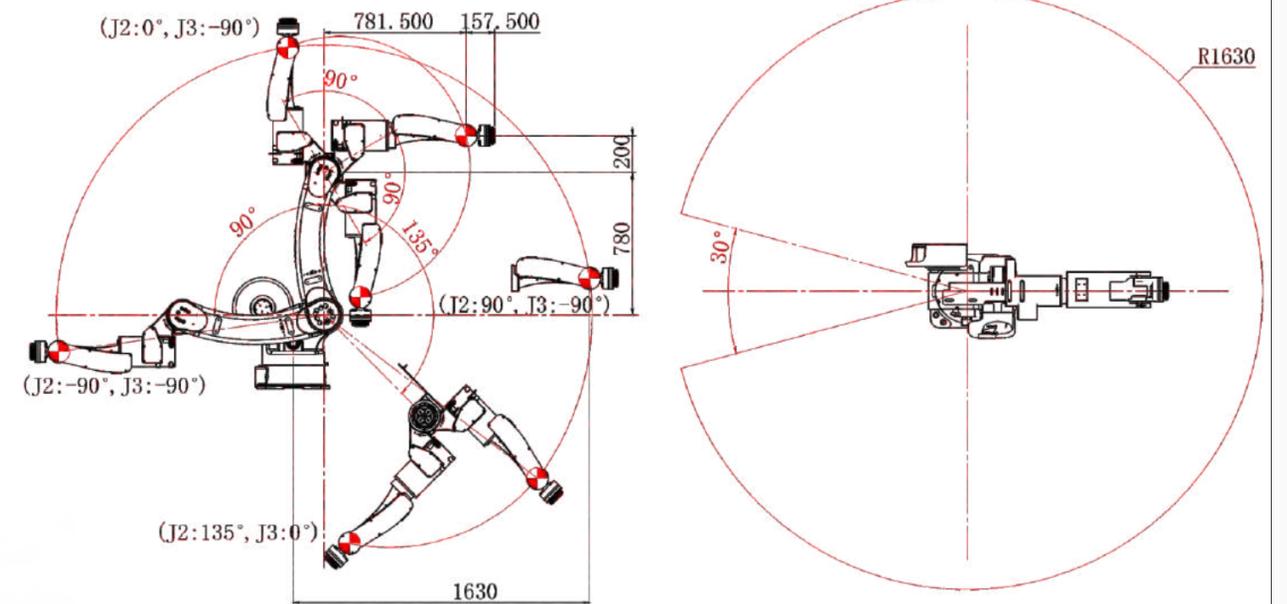
SZGH Welding Series Robots (hollow)

SZGH-HZ1850-B-6

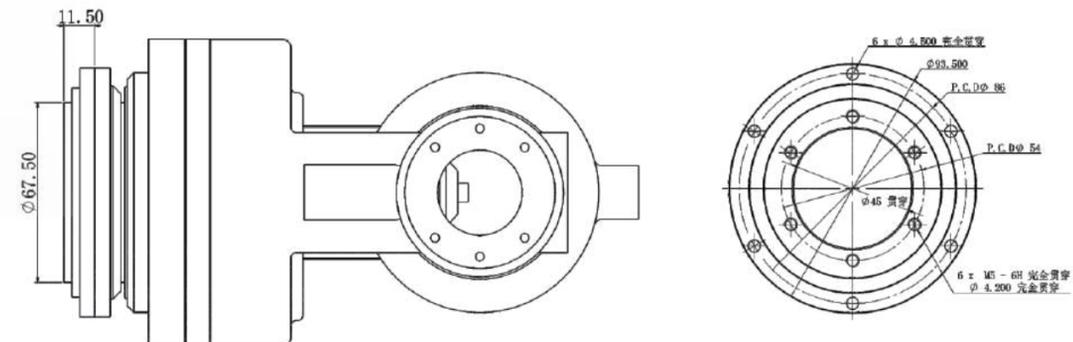
Payload	6KG	
Reach	1850mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.05mm	
Max. motion range	Axis 1	±165°
	Axis 2	+135°/-90°
	Axis 3	+90°/-90°
	Axis 4	±360°
	Axis 5	+115°/-140°
	Axis 6	±450°
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	150°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
	Axis 6	360°/sec
Weight	≈170kg	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	



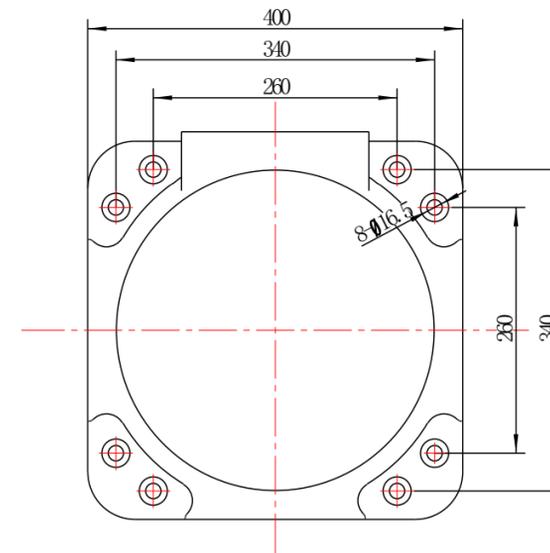
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Automobile, metal doors & windows, engineering machinery, mining machinery, locomotives, electrical appliances, furniture and other industries

Applicable Cases

Welding station with a positioner

SZGH-HZ1850-B-6 robot is dedicated to welding. It is a robot developed for more adverse field environment of the customers. This product has a higher floor space and stabler construction than ever and there is a fully enclosed axis to effectively prevent welding spatters from damaging cables of the robot.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

BC Cooperation Series Robots

SZGH-BC600

Payload	6KG	
Reach	600mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.03mm	
Max. motion range	Axis 1	±360°
	Axis 2	±360°
	Axis 3	±360°
	Axis 4	±360°
	Axis 5	±360°
	Axis 6	±360°
Max. speed	Axis 1	180°/sec
	Axis 2	180°/sec
	Axis 3	180°/sec
	Axis 4	180°/sec
	Axis 5	180°/sec
	Axis 6	180°/sec
Weight	≈17kg	
Configuration	40 I / O interfaces, 4 analog quantity interfaces, and EtherCAT communication.	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	

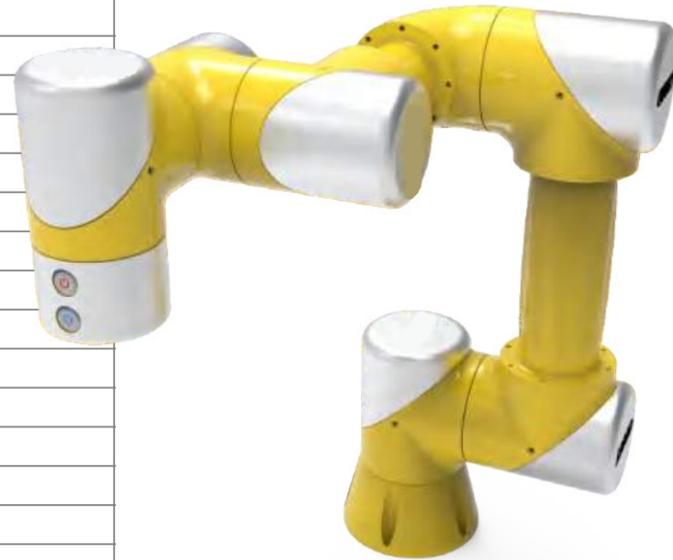
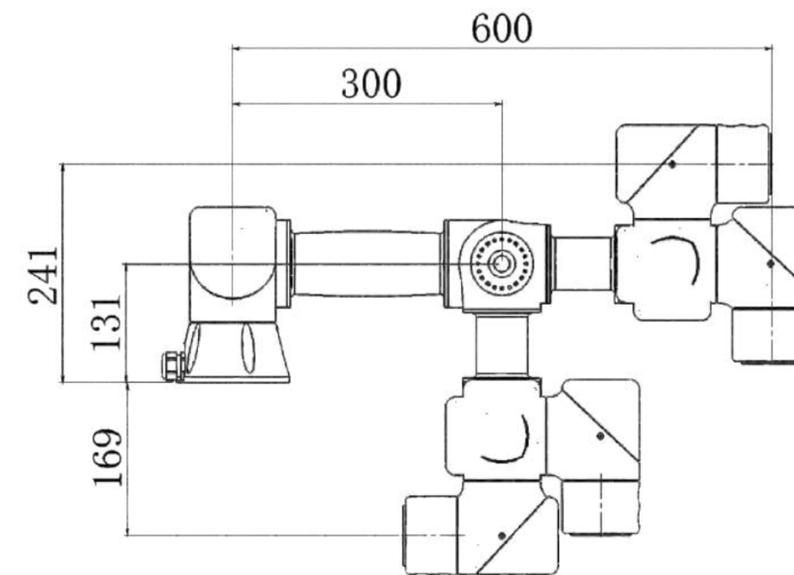
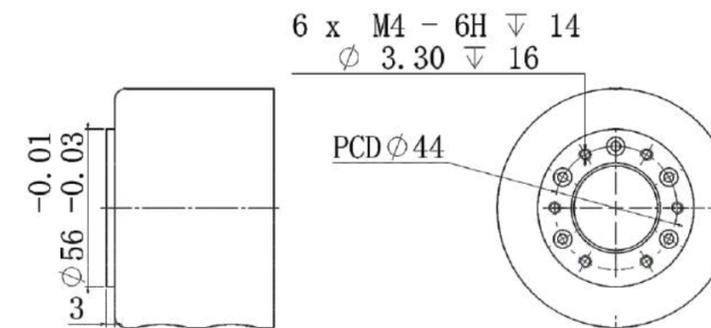


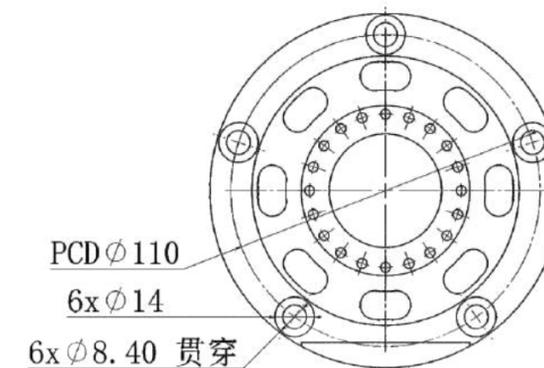
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

3C electronic, medicine, packaging, stacking, assembly

Applicable Cases

Mask machine automatic reclaiming workstation

The BC collaborative robot is suitable for 3C electronics, medicine, packaging, palletizing, assembly, etc. The picture on the right is the automatic retrieving application of the mask machine provided by the company for a customer. Due to its light weight and fast speed, it is full capable of producing mask machines. The rhythm and placement requirements greatly improve production efficiency.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

BC Cooperation Series Robots

SZGH-BC900

Payload	6KG	
Reach	900mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.03mm	
Max. motion range	Axis 1	±360°
	Axis 2	±360°
	Axis 3	±360°
	Axis 4	±360°
	Axis 5	±360°
	Axis 6	±360°
Max. speed	Axis 1	180°/sec
	Axis 2	180°/sec
	Axis 3	180°/sec
	Axis 4	180°/sec
	Axis 5	180°/sec
	Axis 6	180°/sec
Weight	≈19kg	
Configuration	40 I / O interfaces, 4 analog quantity interfaces, and EtherCAT communication.	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	

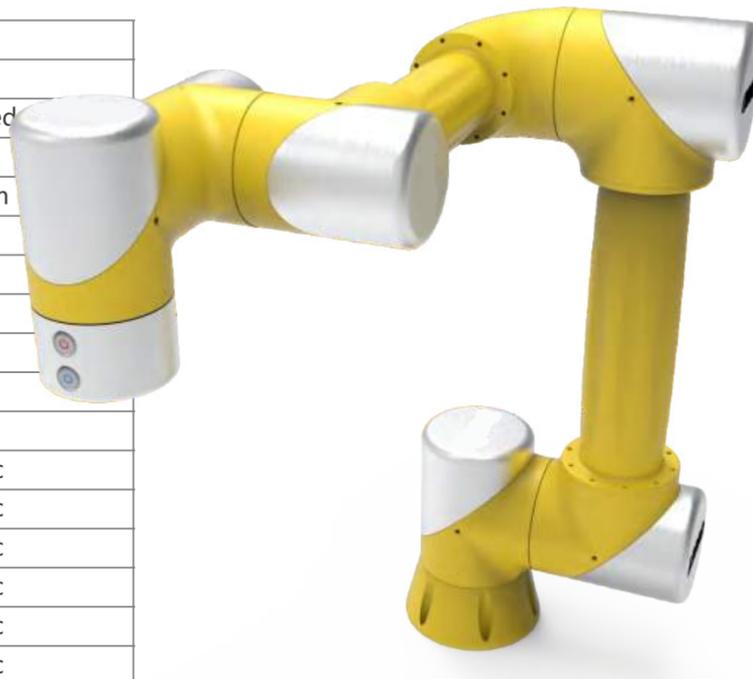
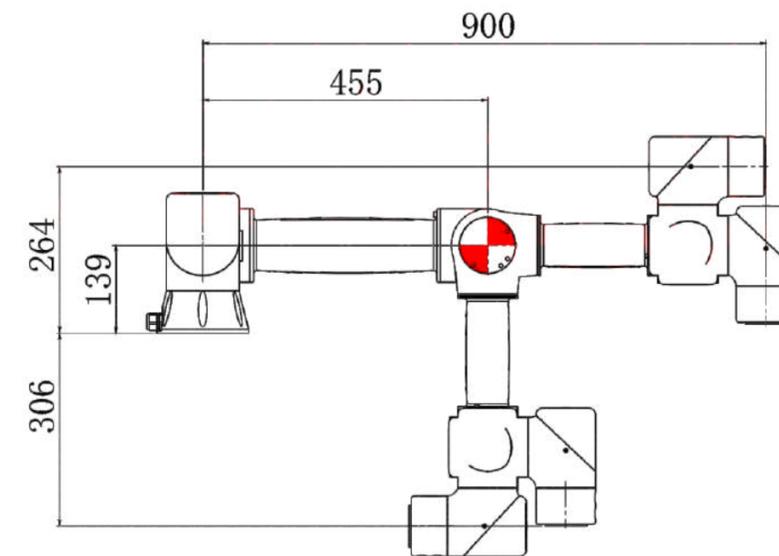
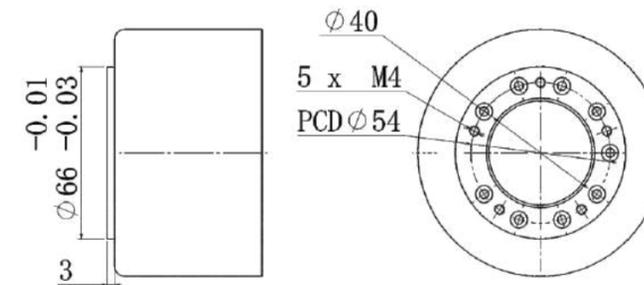


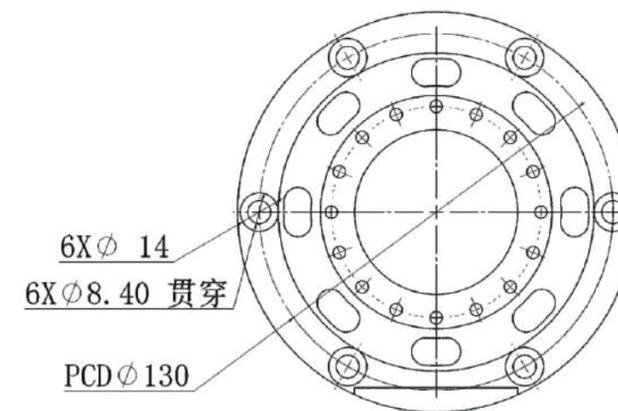
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



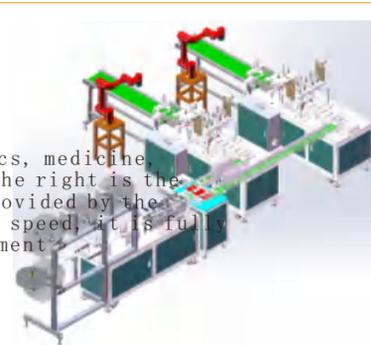
Main Applications

3C electronic, medicine, packaging, stacking, assembly

Applicable Cases

Mask machine automatic reclaiming workstation

The BC collaborative robot is suitable for 3C electronics, medicine, packaging, palletizing, assembly, etc. The picture on the right is the automatic retrieving application of the mask machine provided by the company for a customer. Due to its light weight and fast speed, it is full capable of producing mask machines. The rhythm and placement requirements greatly improve production efficiency.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

BC Cooperation Series Robots

SZGH-BC900PRO

Payload	6KG	
Reach	900mm	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.03mm	
Max. motion range	Axis 1	±360°
	Axis 2	±360°
	Axis 3	±360°
	Axis 4	±360°
	Axis 5	±360°
	Axis 6	±360°
Max. speed	Axis 1	180°/sec
	Axis 2	180°/sec
	Axis 3	180°/sec
	Axis 4	180°/sec
	Axis 5	180°/sec
	Axis 6	180°/sec
Weight	≈19kg	
Configuration	Built in CCD vision system, 1.3 million industrial cameras, LED light source, 40 I / O interfaces, 4 analog quantity interfaces,	
Mounting type	Ground, Bracket, Ceiling	
Ambient temperature	-20°C ~ 80°C	

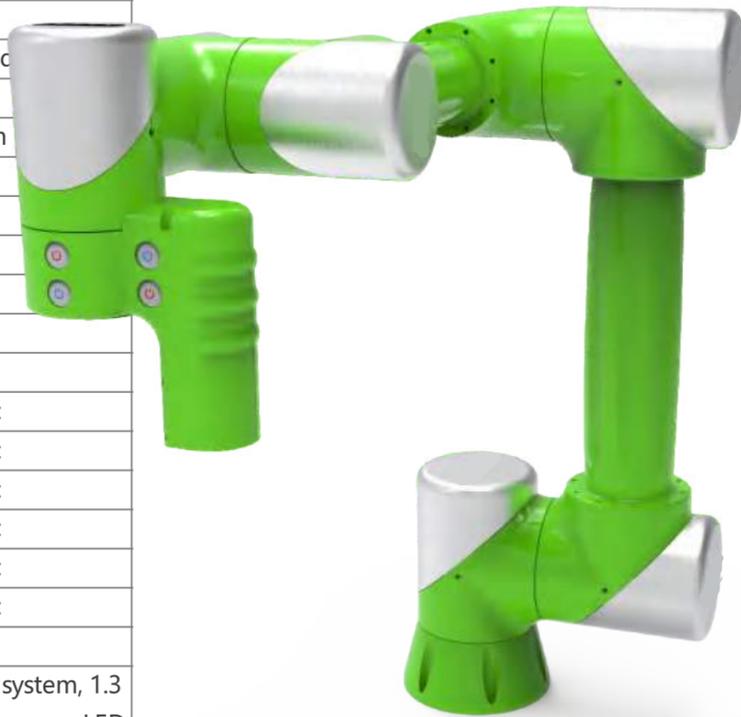
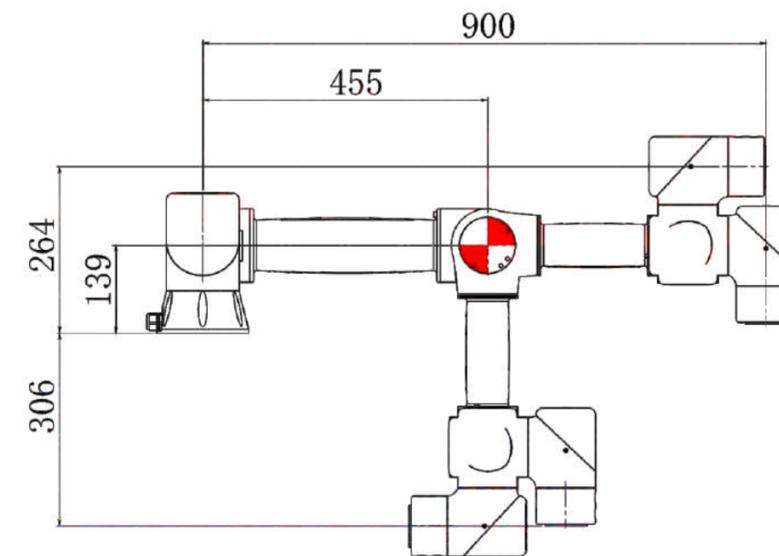
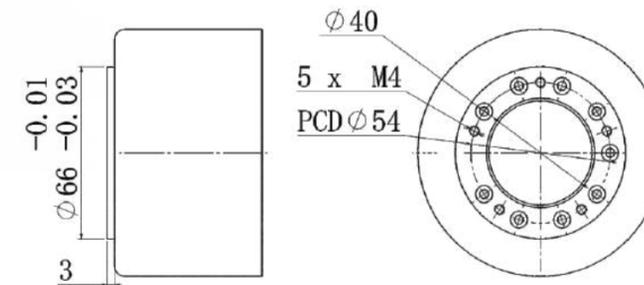


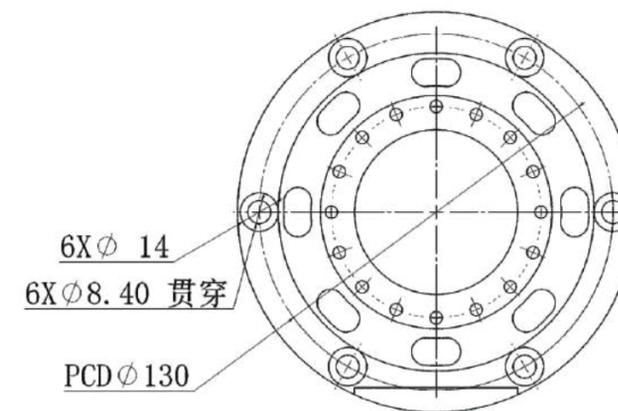
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



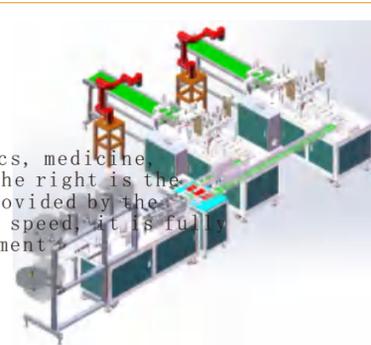
Main Applications

3C electronic, medicine, packaging, stacking, assembly

Applicable Cases

Mask machine automatic reclaiming workstation

The BC collaborative robot is suitable for 3C electronics, medicine, packaging, palletizing, assembly, etc. The picture on the right is the automatic retrieving application of the mask machine provided by the company for a customer. Due to its light weight and fast speed, it is full capable of producing mask machines. The rhythm and placement requirements greatly improve production efficiency.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

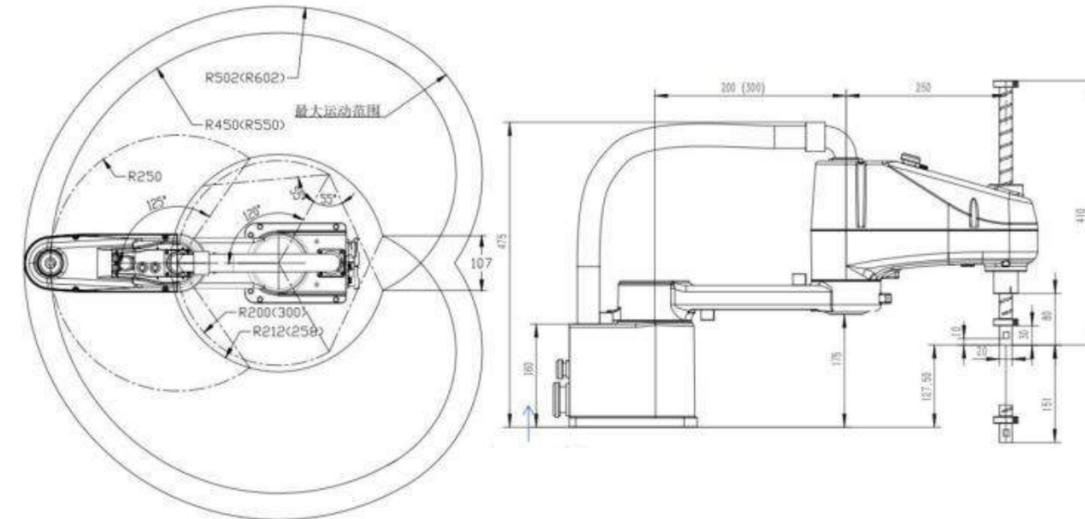
SCARA Robots

SZGH-S450-B-4

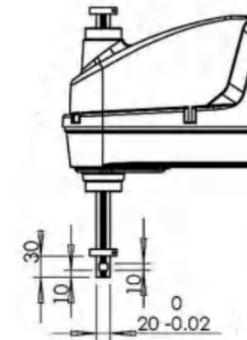
Model	LS450-A-4		
Payload	3KG		
Reach	450mm		
Position detection	Servo motor absolute encoder		
Supply voltage	220V 50/60HZ		
Mounting type	Horizontal		
Weight	29KG		
Max. motion range	Axis 1	±120	Deg
	Axis 2	±125	Deg
	Axis 3	185	mm
	Axis 4	±360	Deg
Max. speed	Axis 1	≤375°/s	
	Axis 2	≤480°/s	
	Axis 3	≤833mm/s	
	Axis 4	≤1500°/s	
Repeatability	±0.03	mm	
Maximum input value of air pipe	Positive Pressure	8kg/cm ²	
	Negative Pressure	1kg/cm ²	
Ambient temperature	Temperature	5°C ~ 40°C	
	Humidity	10% ~ 80%	
Arm weight (excluding electric cabinet and extension wire)	≈15KG		
Arm body I / O line	0.2*5 Core		
Trachea interface of arm body	6*2		



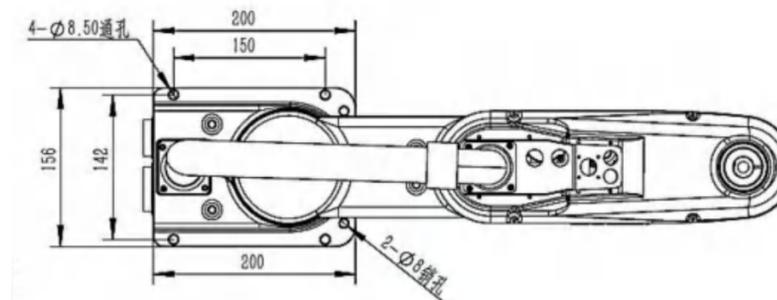
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



Main Applications

Materials handling, parts transfer, palletizing & gluing

Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

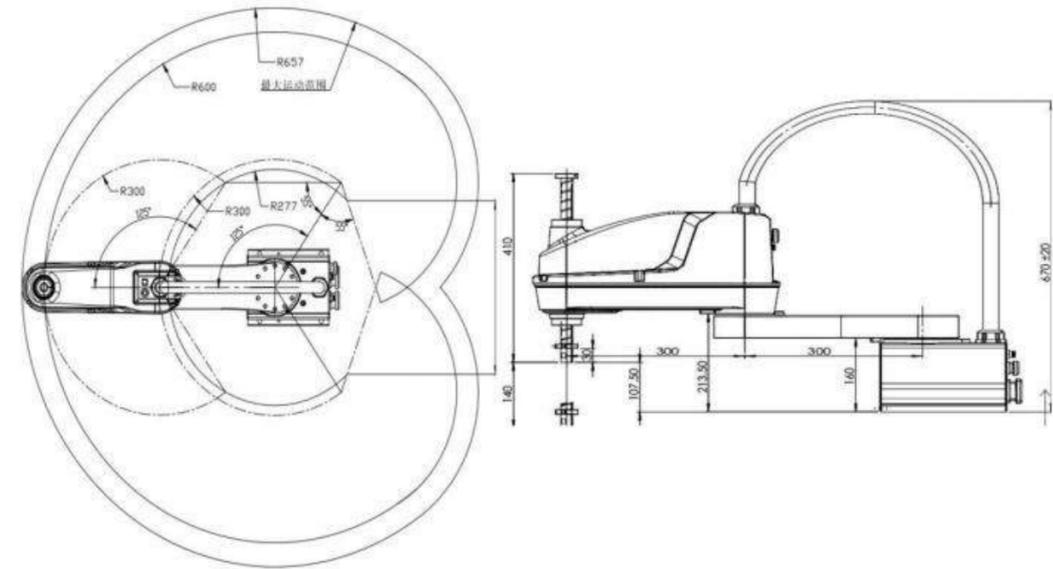
SCARA Robots

SZGH-S600-B-4

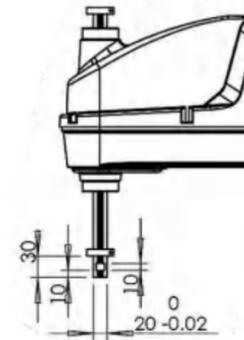


Model	LS600-B-4		
Payload	6KG		
Reach	600mm		
Position detection	Servo motor absolute encoder		
Supply voltage	220V 50/60HZ		
Mounting type	Horizontal		
Weight	29KG		
Max. motion range	Axis 1	±125	Deg
	Axis 2	±125	Deg
	Axis 3	185	mm
	Axis 4	±360	Deg
Max. speed	Axis 1	≤375°/s	
	Axis 2	≤600°/s	
	Axis 3	≤833mm/s	
	Axis 4	≤1500°/s	
Repeatability	±0.03	mm	
Maximum input value of air pipe	Positive Pressure	8kg/cm ²	
	Negative Pressure	1kg/cm ²	
Ambient temperature	Temperature	5°C ~ 40°C	
	Humidity	10% ~ 80%	
Arm weight (excluding electric cabinet and extension wire)	≈20KG		
Arm body I / O line	0.2*5 Core		
Trachea interface of arm body	6*2		

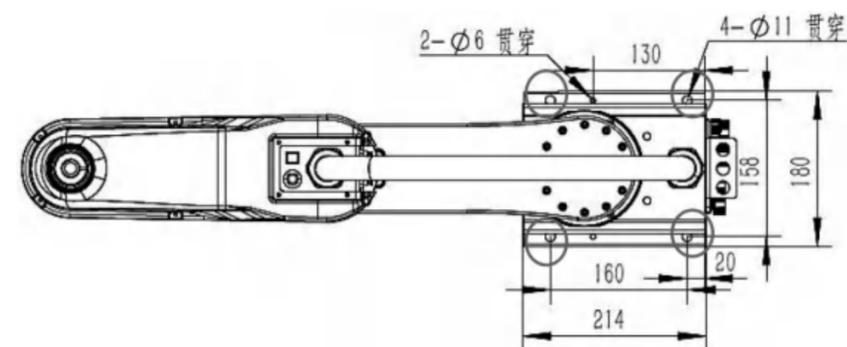
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



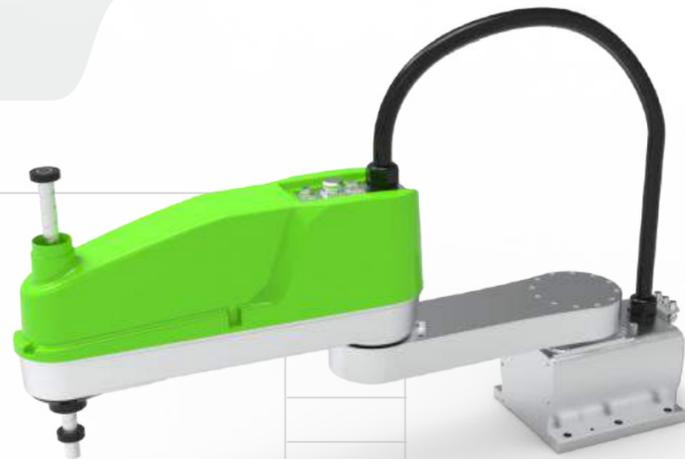
Main Applications

Materials handling, parts transfer, palletizing & gluing

Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

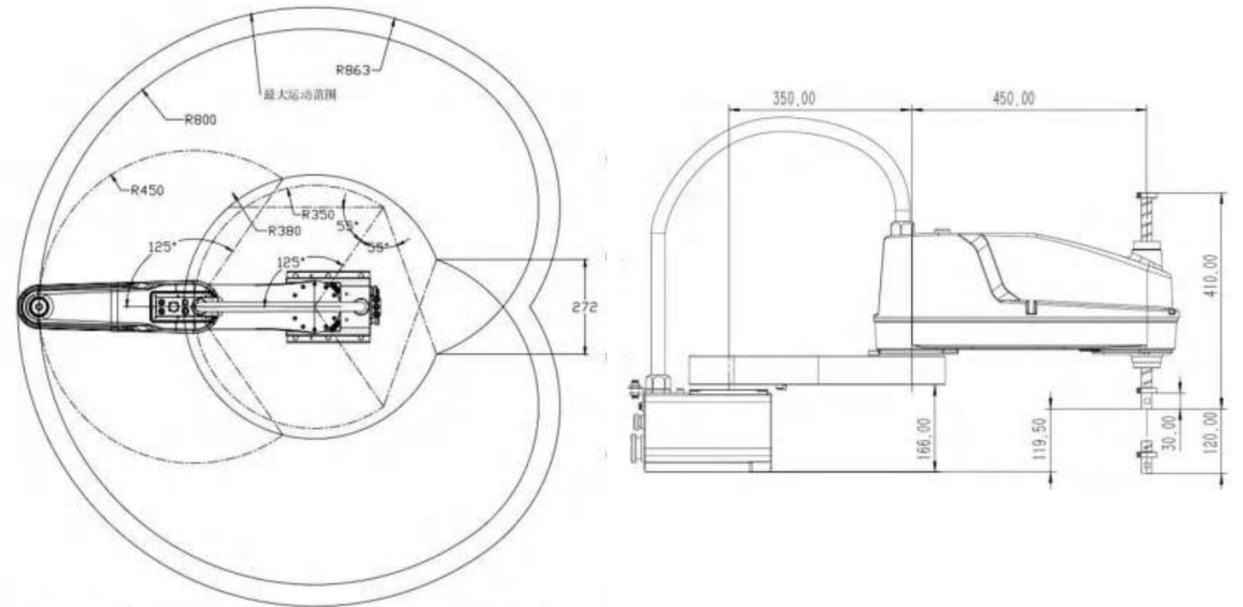
SCARA Robots

SZGH-S800-B-4

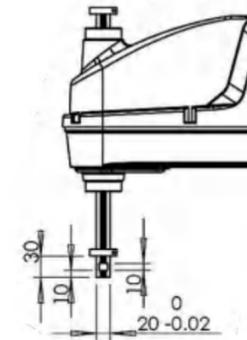


Model	LS800-B-4	
Payload	8KG	
Reach	800mm	
Position detection	Servo motor absolute encoder	
Supply voltage	220V 50/60HZ	
Mounting type	Horizontal	
Weight	29KG	
Max. motion range	Axis 1	±125 Deg
	Axis 2	±125 Deg
	Axis 3	185 mm
	Axis 4	±360 Deg
Max. speed	Axis 1	≤375°/s
	Axis 2	≤375°/s
	Axis 3	≤833mm/s
	Axis 4	≤1500°/s
Repeatability	±0.03	mm
Maximum input value of air pipe	Positive Pressure	8kg/cm2
	Negative Pressure	1kg/cm2
Ambient temperature	Temperature	5°C ~ 40°C
	Humidity	10% ~ 80%
Arm weight (excluding electric cabinet and extension wire)	≈20KG	
Arm body I / O line	0.2*5 Core	
Trachea interface of arm body	6*2	

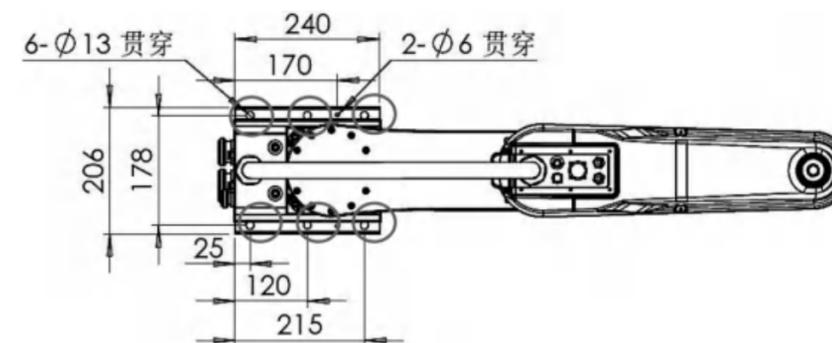
Diagram of Robot Motion Range



Robot Flange Connection Diagram



Robot Base Installation Diagram



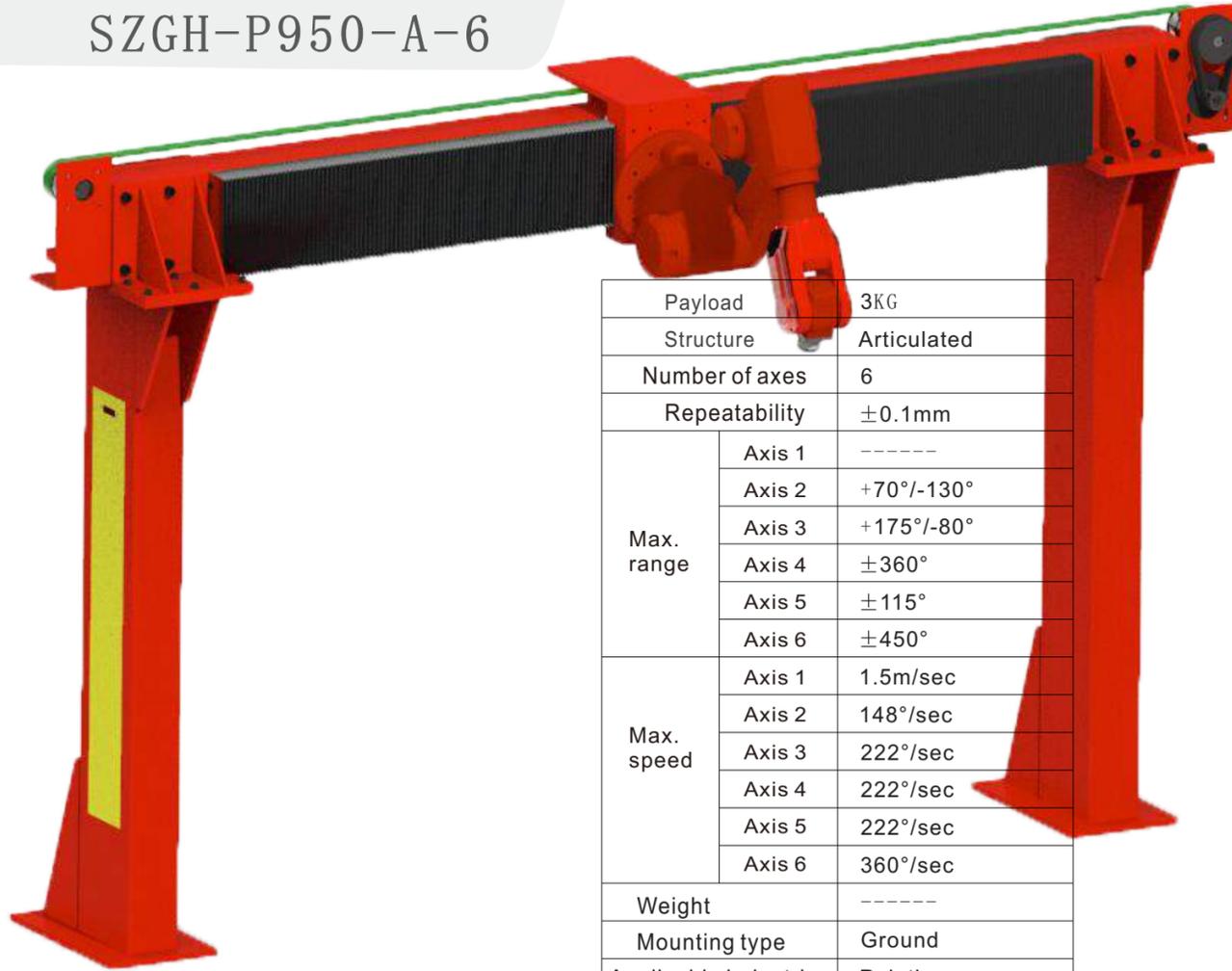
Main Applications

Materials handling, parts transfer, palletizing & gluing

Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

SZGH Gantry Painting Series Robots

SZGH-P950-A-6



Payload	3KG	
Structure	Articulated	
Number of axes	6	
Repeatability	±0.1mm	
Max. range	Axis 1	-----
	Axis 2	+70°/-130°
	Axis 3	+175°/-80°
	Axis 4	±360°
	Axis 5	±115°
	Axis 6	±450°
Max. speed	Axis 1	1.5m/sec
	Axis 2	148°/sec
	Axis 3	222°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
	Axis 6	360°/sec
Weight	-----	
Mounting type	Ground	
Applicable industries	Painting	
Protection grade	Body IP50/electric cabinet IP43	
Ambient temperature	-20° C~80° C	

Applicable Cases

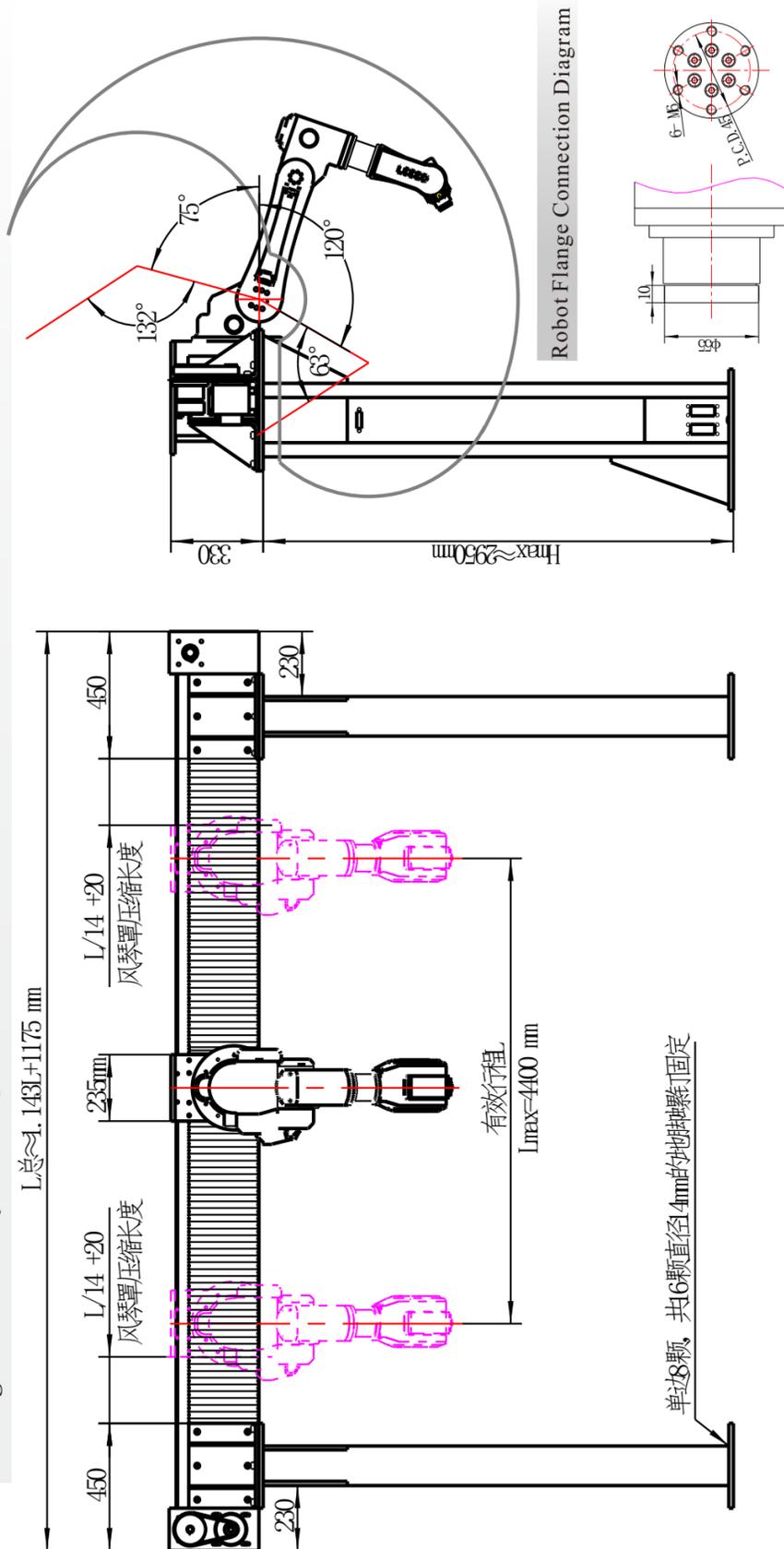
Painting of long and thin parts

LP950-A-6 robot is dedicated to the painting of long parts, such as bumpers and large doors and windows. Combined with the dual-station turntable independently developed by the company, it can also realize automatic loading and unloading or batch painting of other small hardware. The height and length of the gantry can be customized according to the customer's site conditions. The figure shows a customer's use of the gantry robot for batch painting of small hardware.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

Diagram of Gantry Painting Robot Motion Range

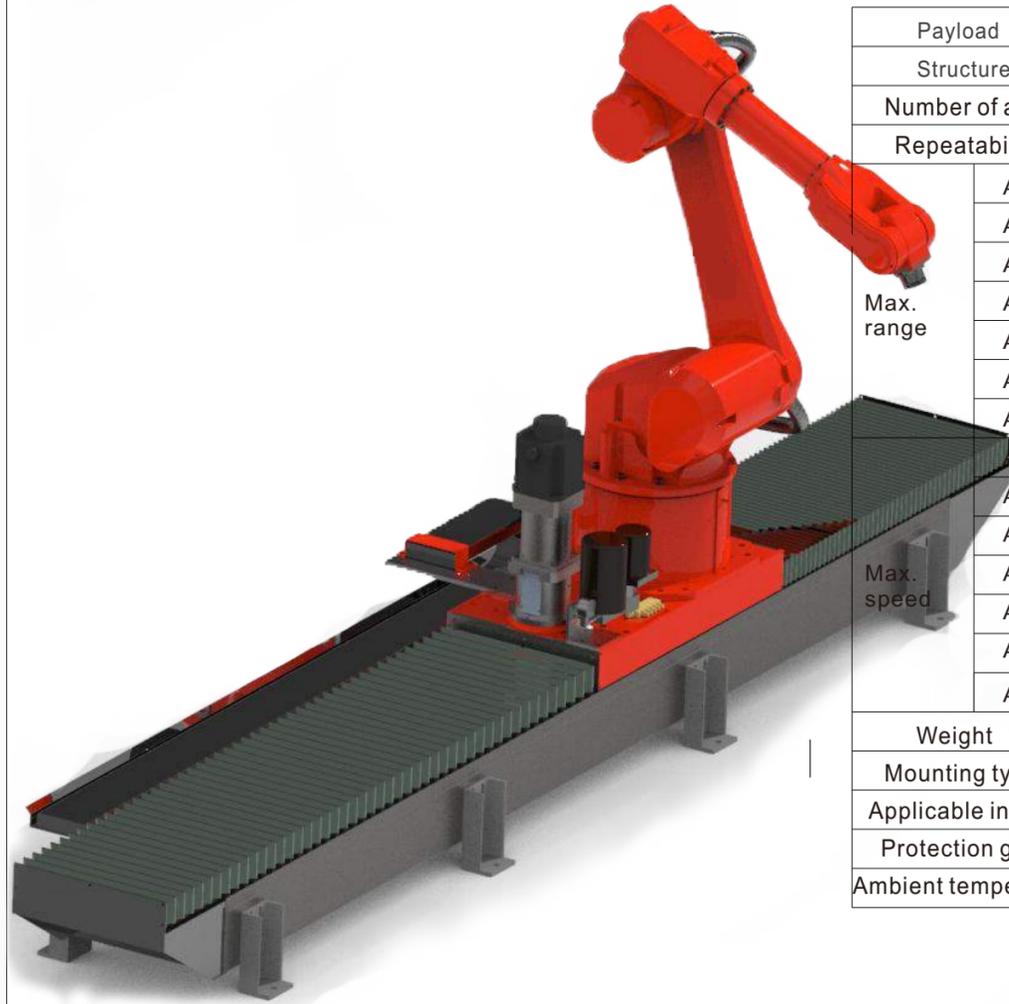


Robot Flange Connection Diagram

Instructions for bolt installation:
Generally, it is recommended to drill holes in the foundation when the equipment has arrived on site. To install the equipment in pools or other places requiring pre-buried bolts, consult our technicians in detail.

7-axis Robots

SZGH-T1500-B-7



Payload	6KG	
Structure	Articulated	
Number of axes	7	
Repeatability	±0.1mm	
Max. range	Axis 1	±165°
	Axis 2	+75°/-135°
	Axis 3	+175°/-80°
	Axis 4	±360°
	Axis 5	±115°
	Axis 6	±450°
	Axis 7	-----
Max. speed	Axis 1	148°/sec
	Axis 2	148°/sec
	Axis 3	150°/sec
	Axis 4	222°/sec
	Axis 5	222°/sec
	Axis 6	360°/sec
	Axis 7	1m/sec
Weight	-----	
Mounting type	Ground	
Applicable industry	Spraying, Welding	
Protection grade	Body IP50/electric cabinet IP43	
Ambient temperature	0 45°C	

Applicable Cases

Hanging line tracking and painting

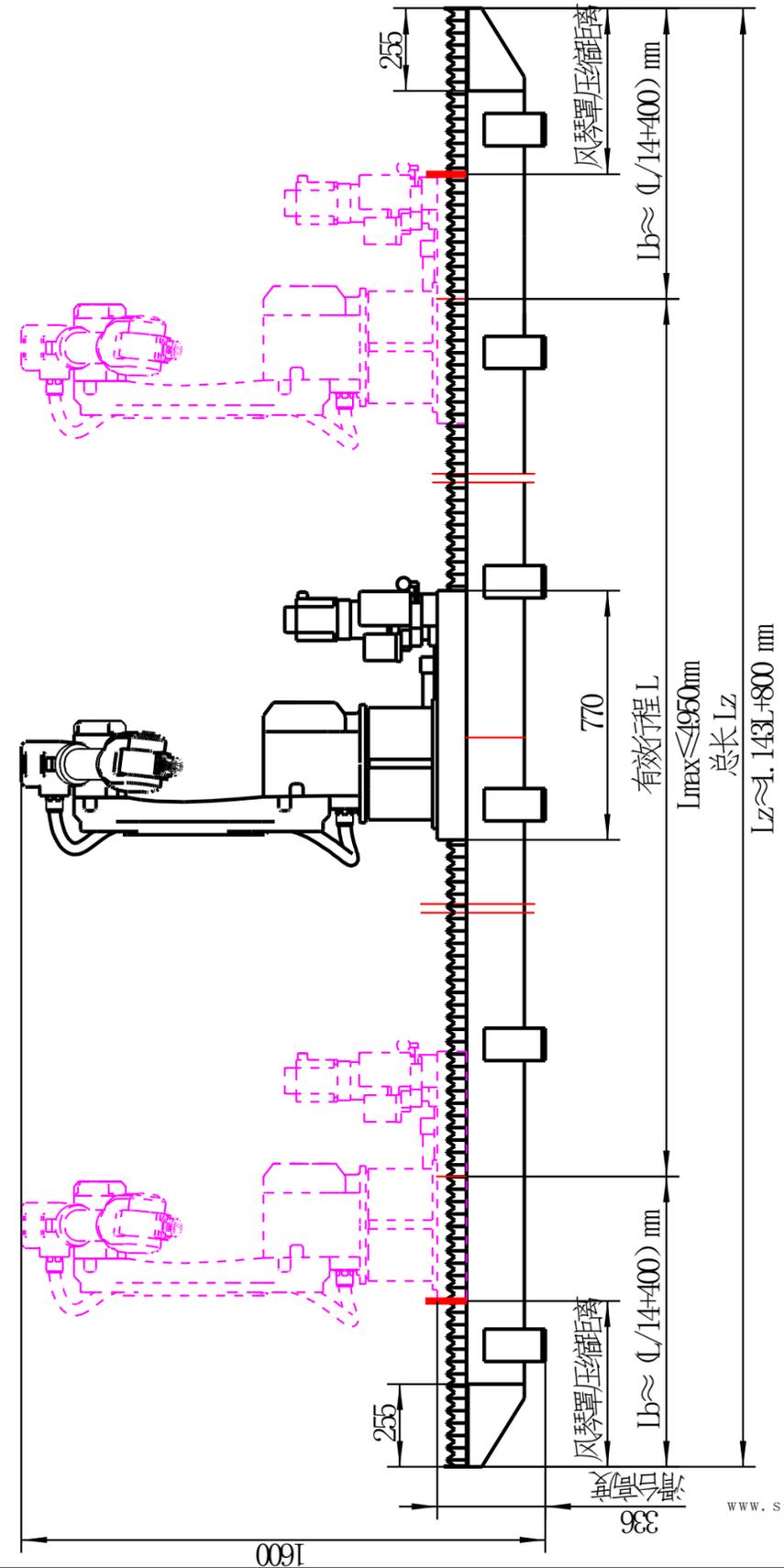
The small high-performance multi-purpose robot features quick response. With a traveling guide added to its body, it can realize tracking and painting of products on a production line, thereby realizing operation efficiency twice higher than that of common operations.

The figure shows a customer's plastic product line tracking and painting scene where the robot is used.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

Diagram of 7-axis Robot Motion Range



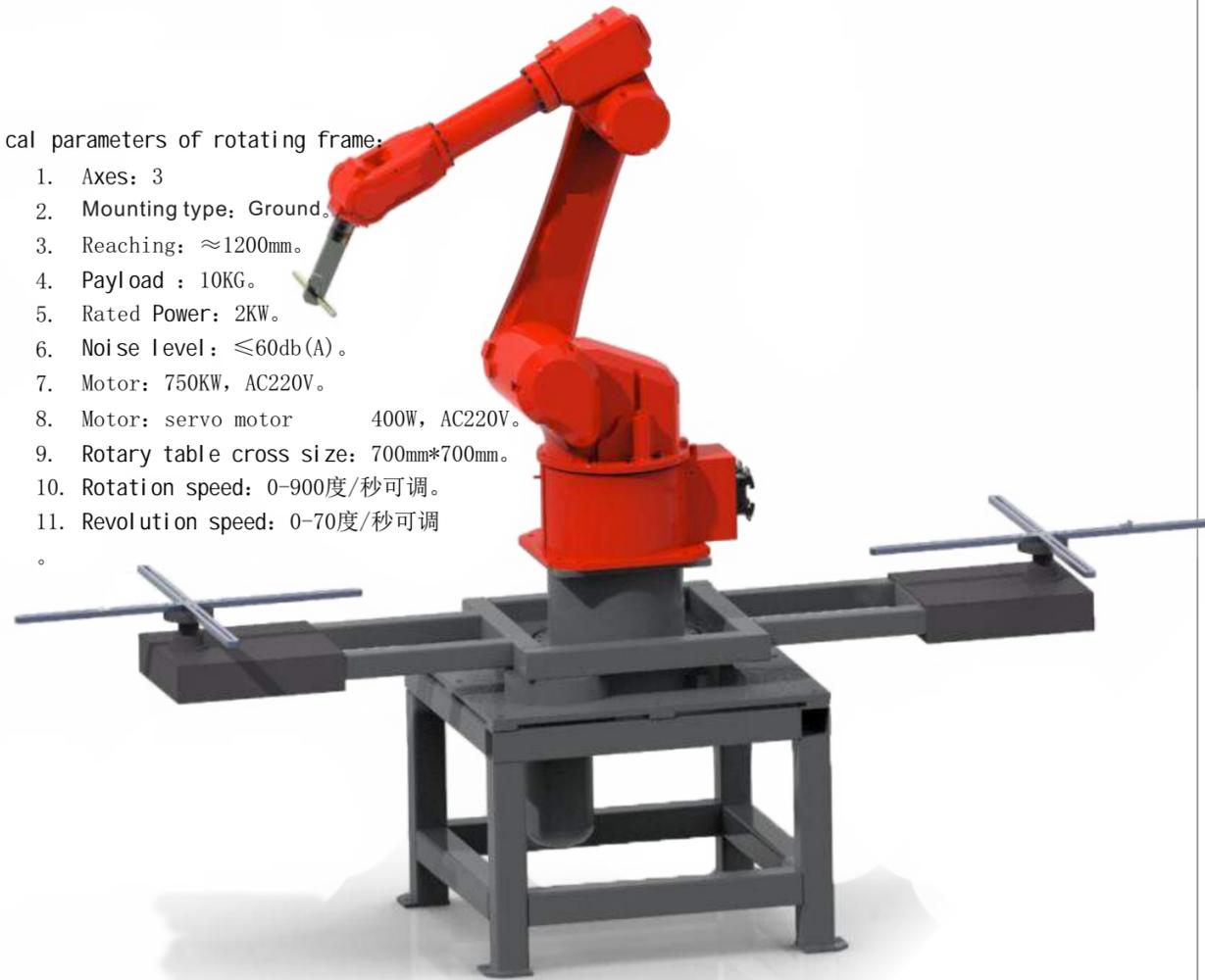
Note: The sliding table can support any 6-axis robot of the company. See the specific section for the diagram of robot motion range

9-axis Painting Robots

SZGH-P1500-B-9

Main technical parameters of rotating frame:

1. Axes: 3
2. Mounting type: Ground.
3. Reaching: $\approx 1200\text{mm}$.
4. Payload : 10KG.
5. Rated Power: 2KW.
6. Noise level: $\leq 60\text{db(A)}$.
7. Motor: 750KW, AC220V.
8. Motor: servo motor 400W, AC220V.
9. Rotary table cross size: 700mm*700mm.
10. Rotation speed: 0-900度/秒可调.
11. Revolution speed: 0-70度/秒可调。



Applicable Cases

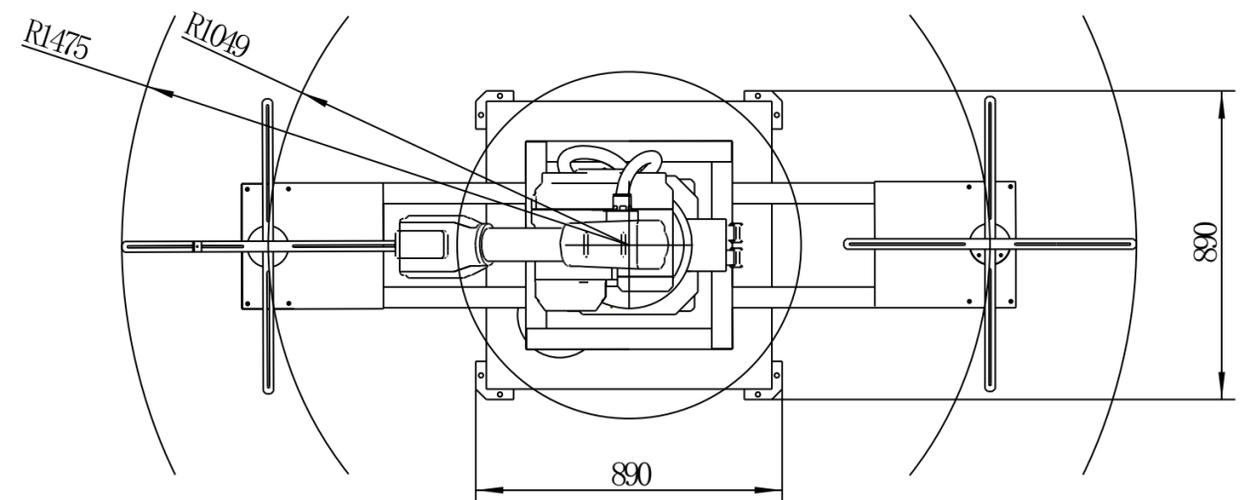
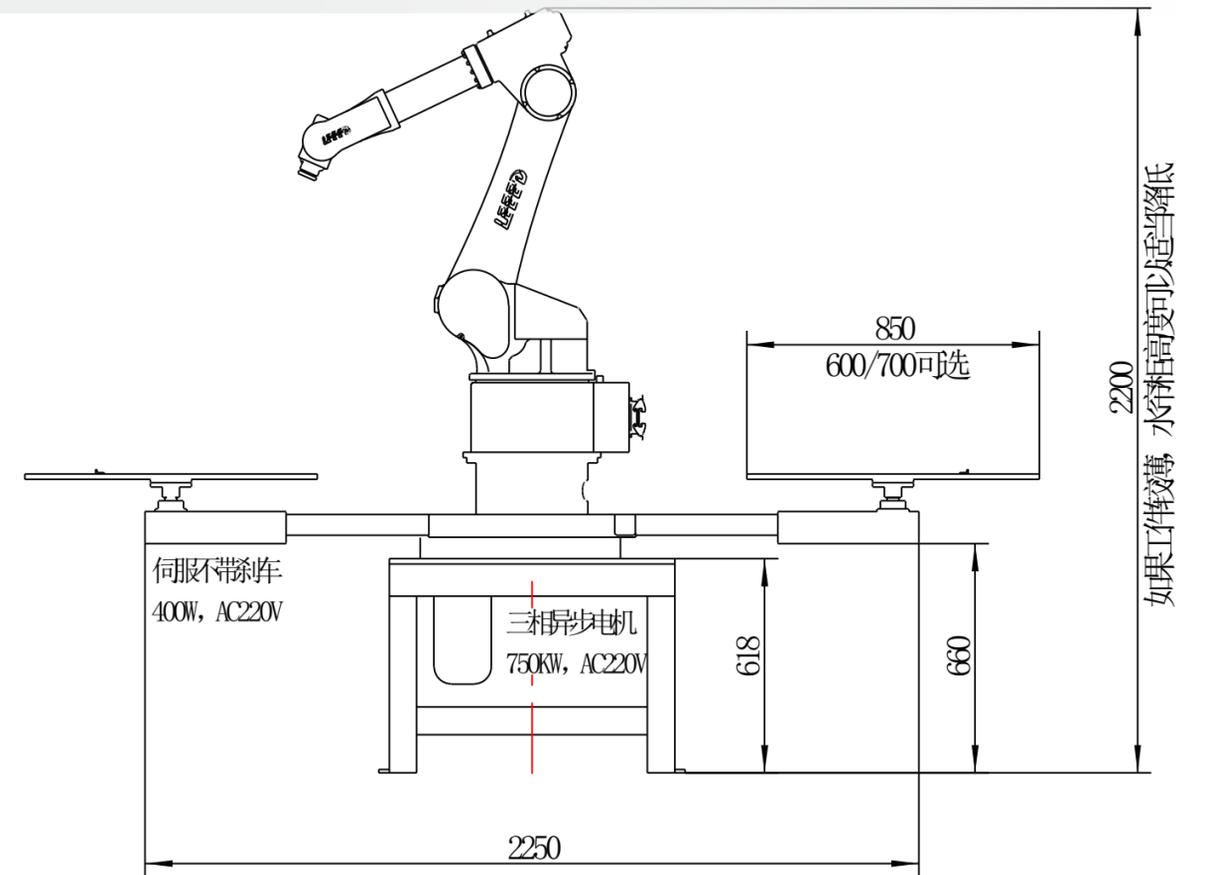
9-axis painting robot

The robot consists of an industrial 6-axis robot and a 3-axis rotary carriage. There are a total of 9 axes. The figure shows the scene of a customer's painting shop where two sets of 9-axis painting robots are installed.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

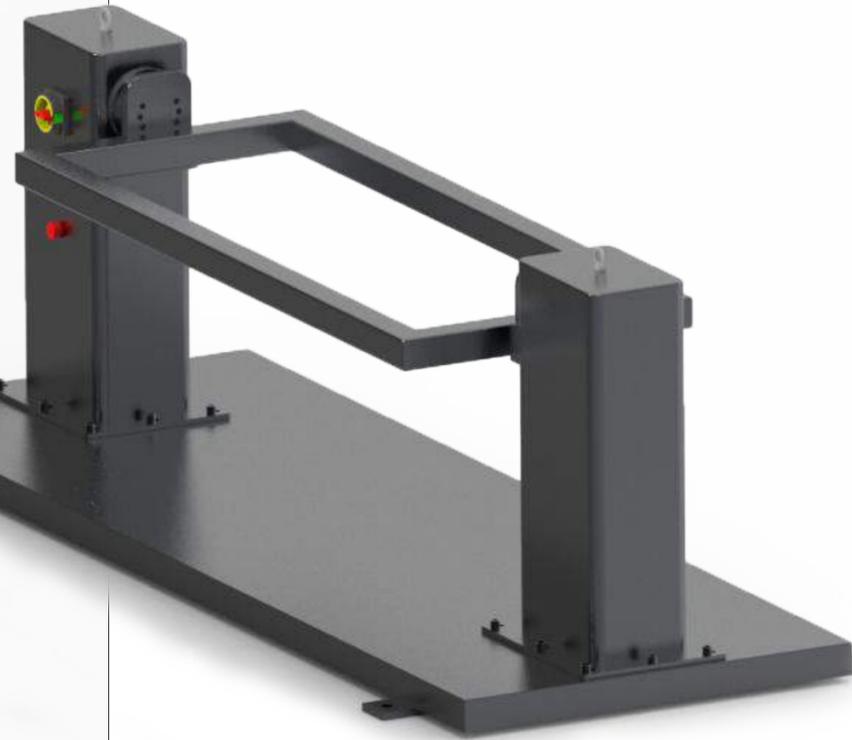
Diagram of 9-axis Rotary Carriage Motion Range



Note: The equipment is equipped with a LT1500-B-6 robot by default. See the previous section of the catalog for the motion range diagram and related parameters.

Single-axis Positioners

BWJ-E/BWJ-F



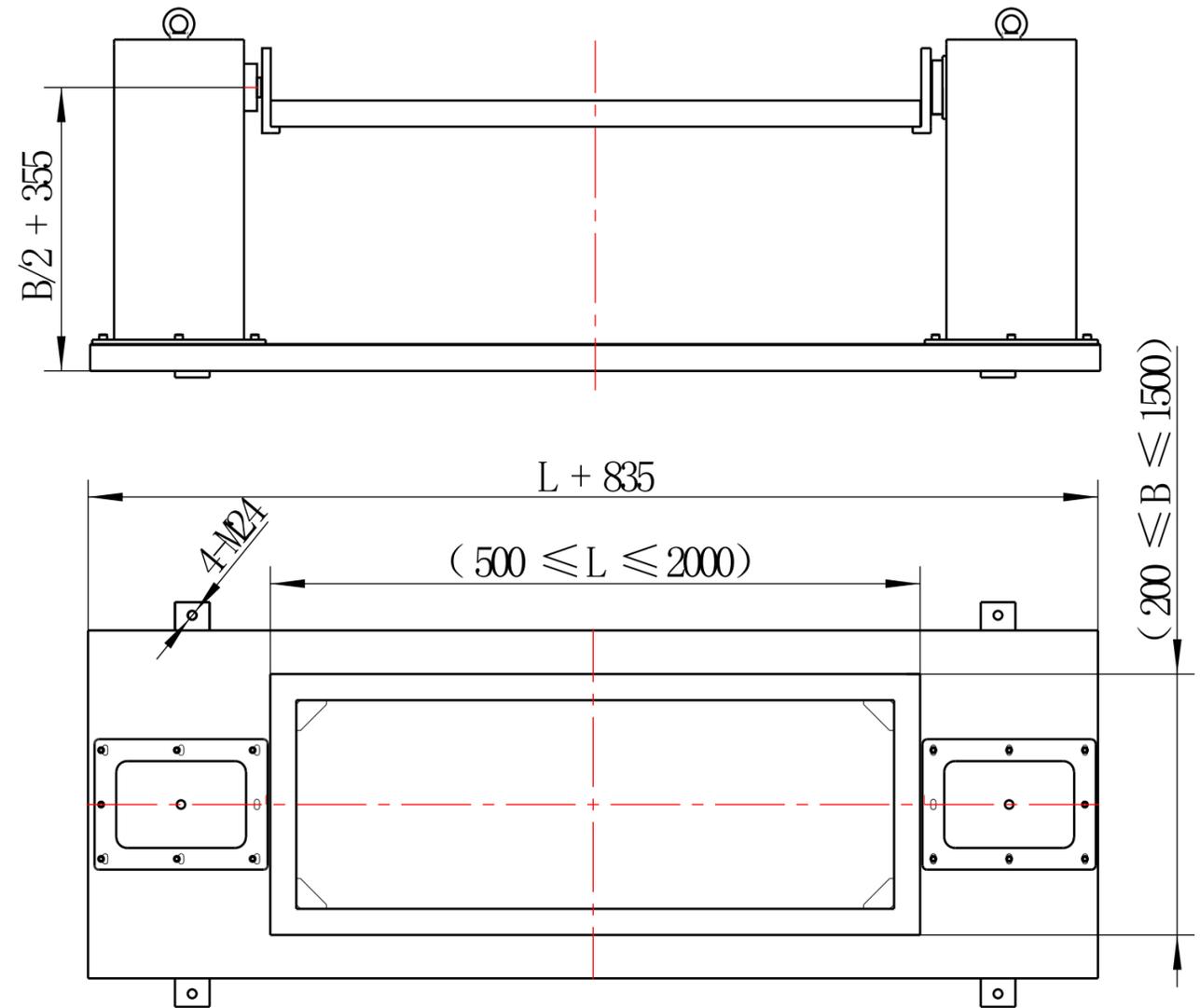
Product name	Single-axis positioner		
Max. payload	BWJ-F	100KG	
	BWJ-G	200KG	
Rated power	BWJ-F	750W	
	BWJ-G	1500W	
Drive mode	Servo drive		
Rated speed	15r/min		
Noise level	≤60db		
Output torque	Speed	BWJ-F	BWJ-G
	5r/min	235Nm	575Nm
	10r/min	190Nm	465Nm
	15r/min	170Nm	415Nm
	20r/min	155Nm	380Nm
	25r/min	145Nm	353Nm
	30r/min	135Nm	335Nm
40r/min	125Nm	310Nm	
Mounting type	Floor		
Ambient temperature	-20℃~80℃		

Note:

1. The output torque (Nm) determines a constant life at whichever speed.

2. The rated torque refers to the torque at an output speed of 15 r/min and it is the basis for the calculation of life.

Drawing of Overall Dimensions of Single-axis Positioner



Applicable Cases

Welding of complicated irregular parts

Single-axis positioner is the auxiliary equipment dedicated to welding. It is generally used for the welding of complicated parts. The positioner can turn $\pm 180^\circ$ in the horizontal direction and work in combination with welding robots, thereby significantly expanding the types of parts the robots can weld.

The figure shows a customer's shop where a single-axis positioner is used with our welding robot for the welding of round pipes.



Note: Avoid exposure to flammable, explosive and corrosive gases and liquids; no water, oil or powder spills; keep away from electrical apparatus noise sources (plasma).

Intelligent Manufacturing Robot Control System

Features of Robot Control System

- Structural optimization algorithm suitable for the body control of various types of structure.
- Modular setting of functions suitable for diverse applications.
- 8-axis control realizes the control of external axes (traveling axes and positioner).
- Suitable for multiple increments; absolute servo.
- Open structure for synchronization of international technology and extension of functions.
- Software PLC functions facilitate logic control.
- Process functions make programming easy.
- Improved computer bus connection ensures reliability and practicability.
- Safety module ensures safe production of the robots.
- Industrial standards & reliable stability.



- LEBAOT robot control system;
- 8-axis robot free control;
- Online teaching panel.

Technical Data of Robot Control System

Storage	2 GB
Teaching box	Full keyboard+touch screen, mode select switch, safety switch, emergency switch
No. of controlled axes	6+2 axes, 6 basic axes +2 external axes
Interface	Multiple encoder signal interfaces, dedicated interface for robot terminal, Ethernet interface, serial communication
Safety module	The emergency and robot anomaly signals are linked to ensure rapid stop of the robot
Mode of operation	Teaching, representation, remote control
Mode of programming	Online teaching, process programming, teaching by dragging
Motion function	Point-to-point, linear, circular
Command system	Motion, logic, process, computation
Mode of control	Position control
Anomaly detection Function	Emergency stop anomaly, servo anomaly, anti-collision, safety maintenance, arcing anomaly, user coordinate anomaly, tool coordinate anomaly



Intelligent Manufacturing Robot Control System

Robot Factory and Improvement of Your Management System



High-end Robot Solutions with Improved Performance

A dynamic robot model integrated in the system offers continuous computation of the torque produced by each drive and the robot makes compensation accordingly. It has the following strengths:

- It can be controlled within the mechanical limit at any time, thereby extending the robot life;
- The cycle time can be gained through optimized use of physical limits;
- Highly precise motion paths are obtained based on minimized path error;
- The cost is reduced through optimization of robot design.

Suitable for Any Complicated Applications

Applications requiring high synchronization precision of robots, such as painting, binding and welding. The dynamic paths and dynamic motion behaviors must comply with the strict requirements, so highly efficient robot technology can ensure correct operations.

- Realize high synchronization of motion and operation based on trigger points with prediction functions.
- Constant traveling speed can be kept even in volatile environment, thereby ensuring high-quality treatment processes.
- Precise Cartesian paths are used for all geometric models of the robots.

Easy to Learn & Easy to Operate

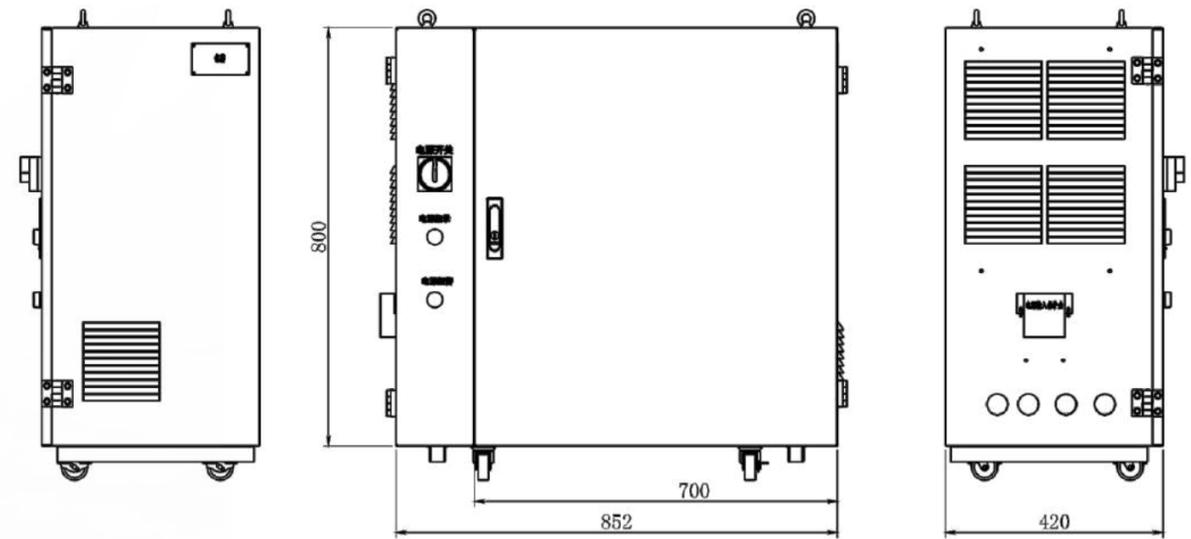
- ✘ The hardware of all electric appliances adopts imported famous high-quality accessories;
- ✘ The software is the Chinese operating system developed by our company;
- ✘ Easy to learn: you can master their operation in 2 h.



B6 Control Cabinet



Control Cabinet Size



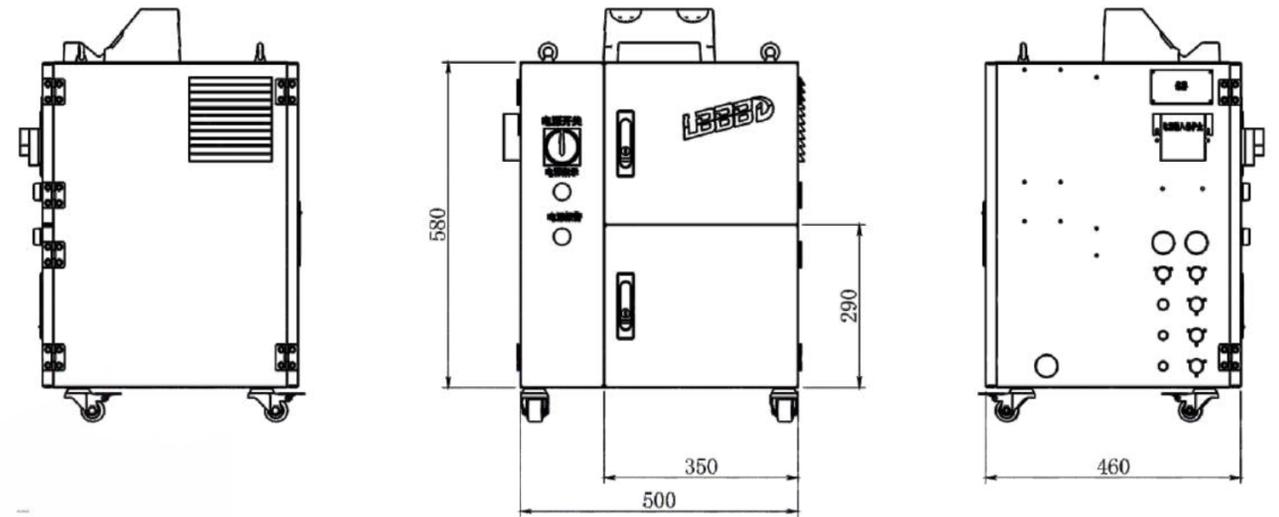
Precautions

1. The farthest operating distance between the teach pendant and the robot electric box
The standard length of the teach pendant cable is 5M, and the standard cable of the robot and electric box is 3M.
2. The maximum distance between the robot and the electric box
This length is the length of the equivalent line, usually the default length is 6 meters, other lengths can be customized.

A8 Control Cabinet



Control Cabinet Size



Precautions

1. The farthest operating distance between the teach pendant and the robot electric box

The standard length of the teach pendant cable is 5M, and the standard cable of the robot and electric box is 3M.

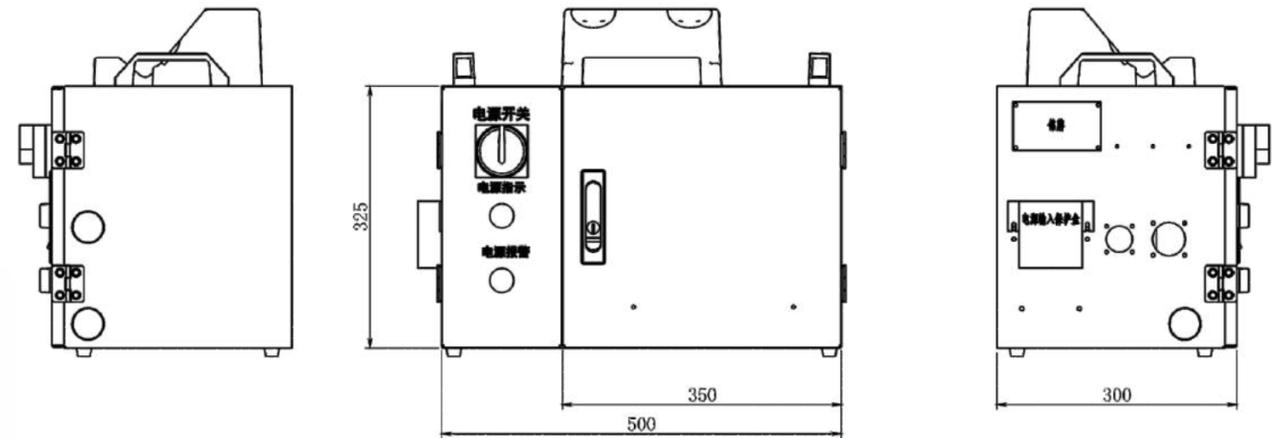
2. The maximum distance between the robot and the electric box

This length is the length of the equivalent line, usually the default length is 6 meters, other lengths can be customized.

A4 Control Cabinet



Control Cabinet Size



Precautions

1. The farthest operating distance between the teach pendant and the robot electric box

The standard length of the teach pendant cable is 5M, and the standard cable of the robot and electric box is 3M.

2. The maximum distance between the robot and the electric box

This length is the length of the equivalent line, usually the default length is 6 meters, other lengths can be customized.

Application of Industrial Robots

Industrial robots are high-tech automated equipment integrating advanced technologies of machinery, electronics, control, computer, sensor, artificial intelligence and various other disciplines. They can meet the requirements of such operations as spot welding, arc welding, cutting, grinding, handling, palletizing, painting and parts inspection.

1. Loading & unloading robots for machine tools

- Loading, unloading and transfer robot solutions for NC machines tools and machining centers;
- Loading and unloading robots for stamping operations and stamping presses with which they are connected;
- Loading and unloading robot solutions for other hardware.



2. Palletizing and handling robots

- 10 kg\20 kg palletizing robots are widely used in various applications;
- Use of robots for picking, loading and positioning of materials on customer's conveyors as well as packaging;
- Robot handling cases and solutions for food, plastics, chemical fertilizers and other industries.



3. Painting robots

- Ceramic closetool and bathroom accessory enameling robot solutions;
- Toy and home appliance enclosure painting;
- Plastic product surface painting, and use in combination with corresponding water curtains;
- Automobile and machine tool enclosure painting solutions.



Product Exhibition Center

Erbidi has participated in exhibitions in Shanghai, Wenzhou, Shenzhen, Dongguan and other places, where the main exhibits are general-purpose robots. 6-axis robot Loading & unloading for stamping Loading & unloading for NC laths Water curtain painting robot plastic parts loading & unloading robot



● Robot Exhibition :SZGH-1500-B-6



● Robot Exhibition : SZGH-2400-F-4



● Robot Exhibition :SZGH-900-A-5



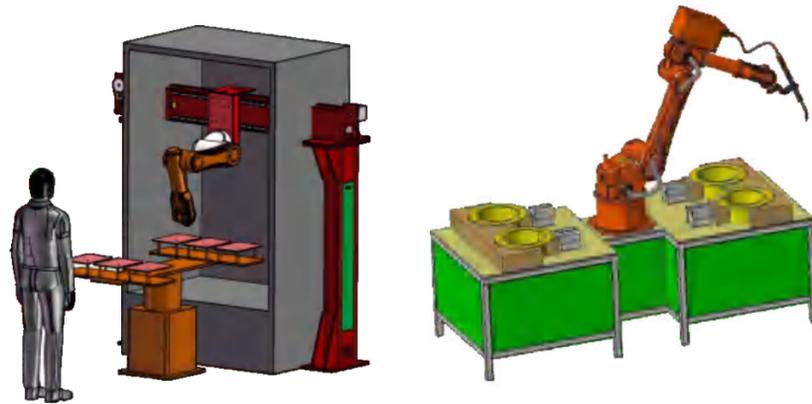
Automation Engineering Services

Engineering Services

Erbidi Engineering Department is engaged in industrial robot production and control system R&D services and can offer a full range of services for the field of industrial automation, including engineering design, product design, hardware integration, software programming, field commissioning, customer training and aftersales maintenance, etc.

System Integration

Customized automation system solutions complying with production process requirements
 Professional and complete engineering technical support
 Advanced software design and implementation capability
 Safe and effective engineering commissioning
 Complete aftersales technical service system



● Painting Robot Solution for a Customer

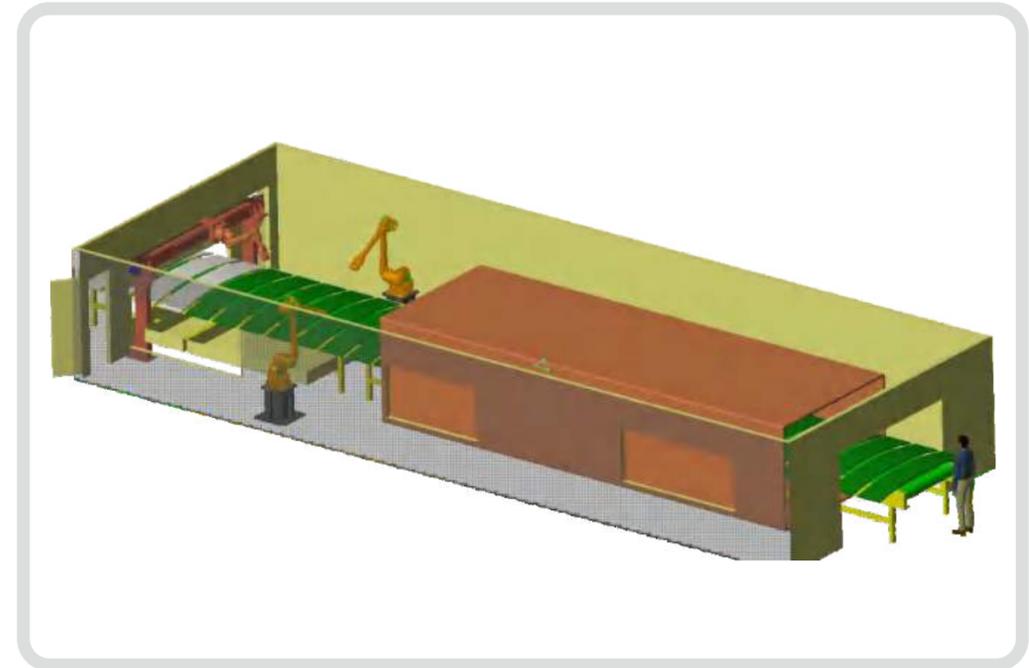
● Welding Robot Application

System Upgrade & Continuous Optimization

Reduced equipment investment pressure, more product specifications and varieties, and improved quality;
 Continuous upgrade can ensure stable equipment operation and significantly enhance labor efficiency;
 System improvement makes the system run at higher speed and improves productivity;
 The integrity of equipment functions is maintained;
 The performance is upgraded and optimized and functions required by customers are added;
 Faults occurring in the operation of old system versions are avoided;
 The robot kinematic control algorithm is continuously optimized, making it suitable for the control of various types of structures;
 Modular function setting is optimized, thereby expanding their applications.

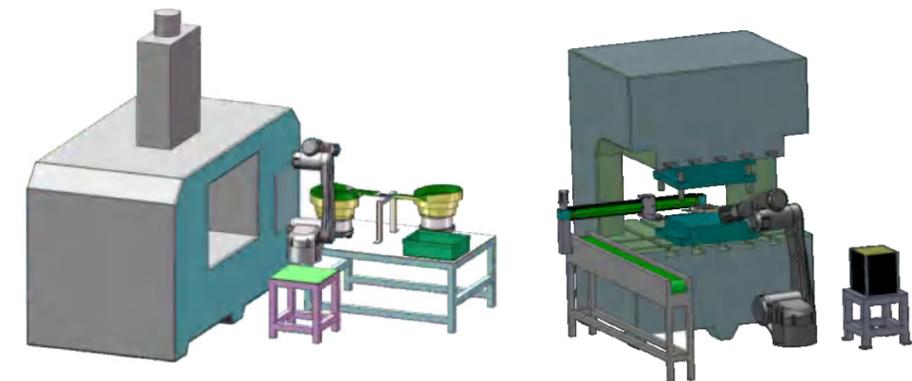
Professional Non-standard Customization

Customization of Integrated Robot Support Solutions and Design of Painting Equipment Application Lines for Customers



- Professional non-standard design engineering team, diverse design styles, and demonstration to customers in the form of 3D, CAD, animation, etc.;
- Non-standard design to support robot motions can enhance robot efficiency;
- Non-standard simulation can be introduced for project design, so that customers can reduce costs before investment;
- Humanized design enhances the flexible application of equipment.

Humanized Nonstandard Design and More Knowledge of Customer Desired Effects



■ Loading, Unloading and Transfer Equipment for Machine Tool

■ Loading, Unloading and Transfer Equipment for Stamping