



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

# ROBOT CATALOG

Industrial Robot Model Selection Catalog



**SZGH** SHENZHEN GUANHONG AUTOMATION CO., LTD.

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# CONTENTS

01

## About SZGH

Company profile  
Certificate & Honor  
Product Family Overview

01-04

02

## SZGH-T General-purpose Series

SZGH-T9905  
SZGH-T750-B-6  
SZGH-T950-A-6  
SZGH-T1000-C-6  
SZGH-T1500-C-6  
SZGH-T1850-D-6  
SZGH-T2100-C-6  
SZGH-T2100-E-6  
SZGH-T2300-3C-6  
SZGH-T2950-3C-6

05-24

03

## SZGH-M Grinding Series

SZGH-M1000-E-6  
SZGH-M1400-3C-6  
SZGH-M1850-3C-6

25-30

04

## SZGH-B Handling Series

SZGH-G1000-B-4  
SZGH-B1500-C-4  
SZGH-B1850-3C-4  
SZGH-B2100-F-4  
SZGH-B2300-E-4  
SZGH-B3100-G-4

31-42

05

## SZGH-P Painting Series

SZGH-P1500-B-6  
SZGH-P1950-B-6

43-46

06

## SZGH-H Welding Series

SZGH-H1500-B-6  
SZGH-H2100-B-6  
SZGH-HZ1500-B-6  
SZGH-HZ2000-B-6

47-54

07

## SZGH-S Scara Robots

SZGH-S450-B-4  
SZGH-S600-B-4  
SZGH-S800-B-4

55-60

08

## SZGH-Arm Four-axis cooperative Robots

SZGH-Arm-1832  
SZGH-Arm 2442  
SZGH-Arm-4160

61-66

09

## Positioners & Slide rail

Single-axis positioner  
Two-axis positioner  
Three-axis positioner  
Robot walking slide rail

67-76

10

## Control System

Features of Robot Control System  
Technical Data of Robot Control System  
Control Cabinet Parameters

77-81

11

## Application display and technical support

Application Industry  
Application Scenarios  
Product Exhibition Center  
Automation Engineering Services  
Professional Non-standard Customization

82-86

# COMPANY PROFILE



ShenZhen GuanHong Automation Co.,LTD(short name SZGH, was established on November 19, 2013) is one of the leading Robotic&CNC Automation company in China, which are professional in designing, developing and manufacturing more than 40 models Robotic arm in mass production, including general-purpose series, welding series, spraying series, palletizing series, grinding and handling series. All models are equipped with an intelligent robot control system which independently developed by us. Besides, our products all have passed and got the European safety standards- CE certification.

Over the years, SZGH has gradually shifted from the CNC industry to the research and development of industrial robots, focusing on the research and development of core technologies.

SZGH was awarded as New high-tech enterprise in China since 2018, which rely on Technical Center force to do support, efficient, strict quality management team to guide, software and hardware facilities, first-class service.

There are many agents around the world, such as USA, Romania, Turkey, Russia, Egypt, Morocco, Moldova etc .

Our tenet is Customer First!



SZGH has a strong technical force and has gathered top domestic technical talents. With strong comprehensive strength, we provide efficient and professional robotic arms and related product solutions for our clients. During this period, we obtained more than 100 patents and won many domestic awards.





**SZGH-T** series is a 6-axis robot arm that can support multiple purposes, including welding, loading and unloading, etc.



**SZGH-M** series is a 6-axis industrial robotic arm professionally used for grinding, polishing and deburring.



**SZGH-B** series is a 4-axis robotic arm professionally used in loading and unloading handling and palletizing.



**SZGH-P** series is a 6-axis industrial robotic arm professionally used in spraying powder. It is often used with a 3-axis positioner.



**SZGH-H** series is a 6-axis industrial robotic arm professionally used in welding process. Different types of welders can be selected according to the requirements.



**SZGH-S** series is a lightweight 4-axis industrial robotic arm mainly used for loading, unloading, handling and palletizing.



**SZGH-Arm** series is an innovative lightweight drive control integrated 4-axis cooperative manipulator that dares to overturn the industry standard scheme.



The positioners and the robot walking slide rail are often used together with the robot, which can maximize the working range and performance utilization of the robot.

## SZGH-T9905

|                     |                          |            |
|---------------------|--------------------------|------------|
| Payload             | 5KG                      |            |
| Reach               | 990mm                    |            |
| Structure           | Articulated              |            |
| Number of axes      | 6                        |            |
| Repeatability       | ±0.03mm                  |            |
| Max. motion range   | Axis 1                   | ±165°      |
|                     | Axis 2                   | +120°/-75° |
|                     | Axis 3                   | +85°/-100° |
|                     | Axis 4                   | ±185°      |
|                     | Axis 5                   | +30°/-230° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 225°/sec   |
|                     | Axis 2                   | 225°/sec   |
|                     | Axis 3                   | 225°/sec   |
|                     | Axis 4                   | 225°/sec   |
|                     | Axis 5                   | 225°/sec   |
|                     | Axis 6                   | 225°/sec   |
| Weight              | ≈55kg                    |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



### Main Applications

- Materials Handling
- Parts Transfer
- Machine Management
- Testing
- Gluing
- Assembly

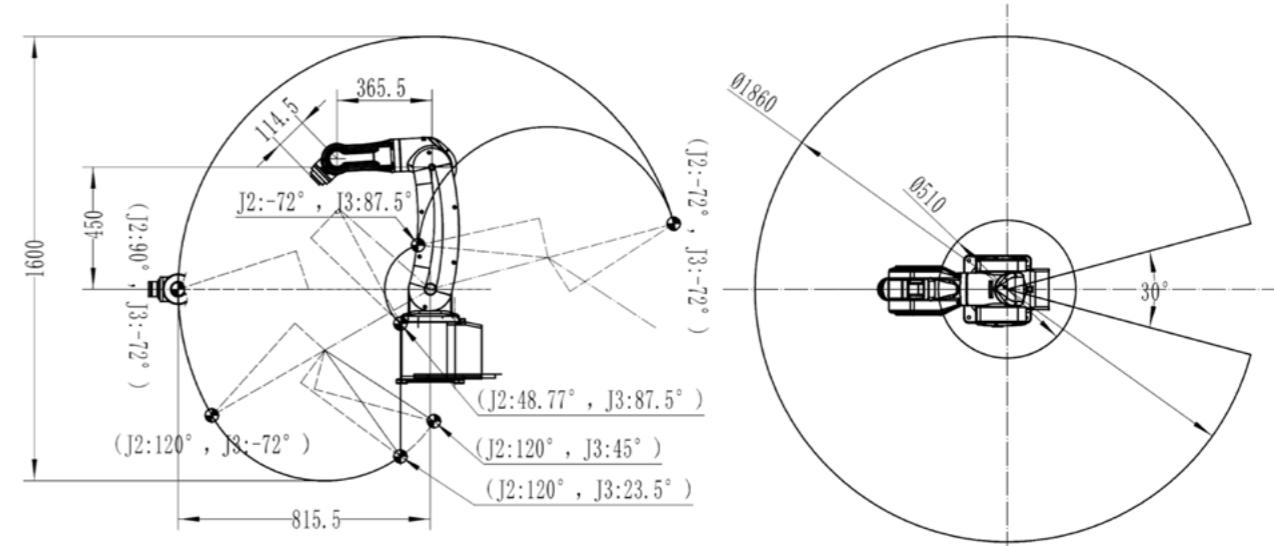
### Application Case

#### Experimental teaching platform

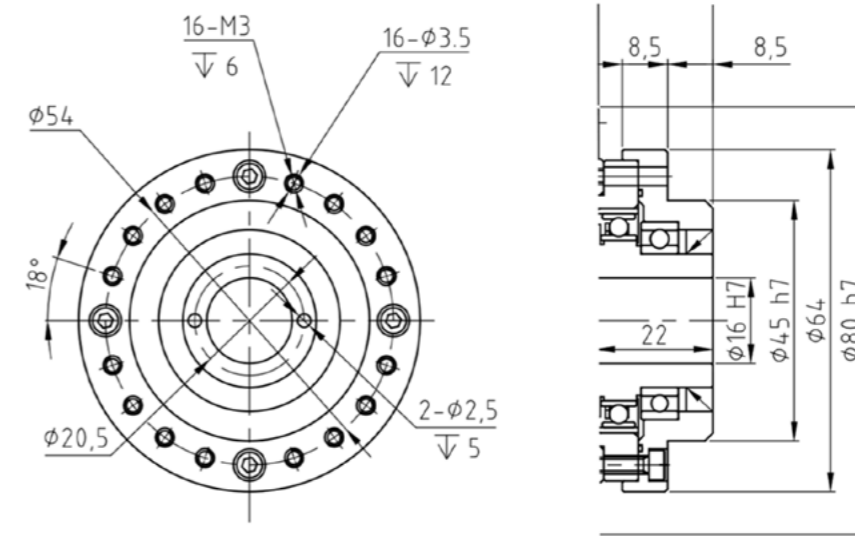
SZGH-T9905 is a small desktop robot featuring short work cycle, reliable operation and high cost performance. It is widely used for various experimental teaching platforms and the students' repair, disassembly and assembly courses. The figure shows a customer's experimental teaching platform which realizes sorting and positioning of materials in combination with computer visual identification.



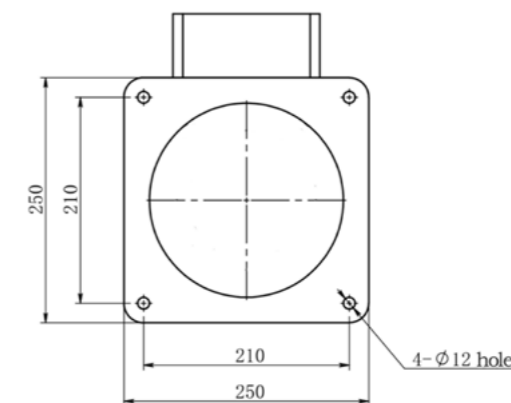
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## 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                   | +135°/-70° |
|                     | Axis 3                   | +85°/-85°  |
|                     | Axis 4                   | ±150°      |
|                     | Axis 5                   | +30°/-240° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 148°/sec   |
|                     | Axis 2                   | 148°/sec   |
|                     | Axis 3                   | 222°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 222°/sec   |
|                     | Axis 6                   | 360°/sec   |
| Weight              | ≈85kg                    |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



### Main Applications

- Materials Handling
- Parts Transfer
- Machine Management
- Testing
- Gluing
- Assembly

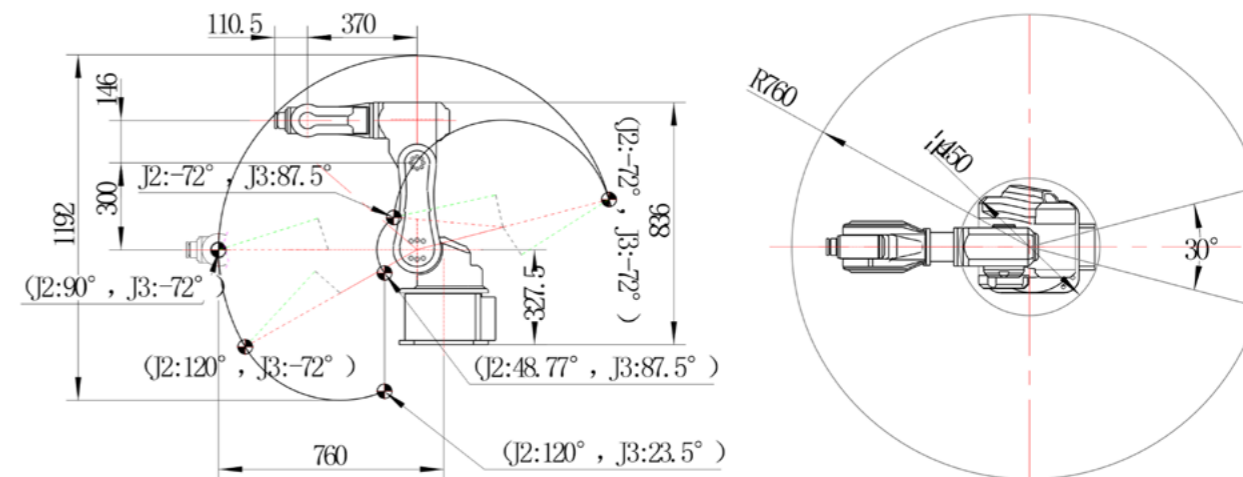
### Application Case

#### Experimental teaching platform

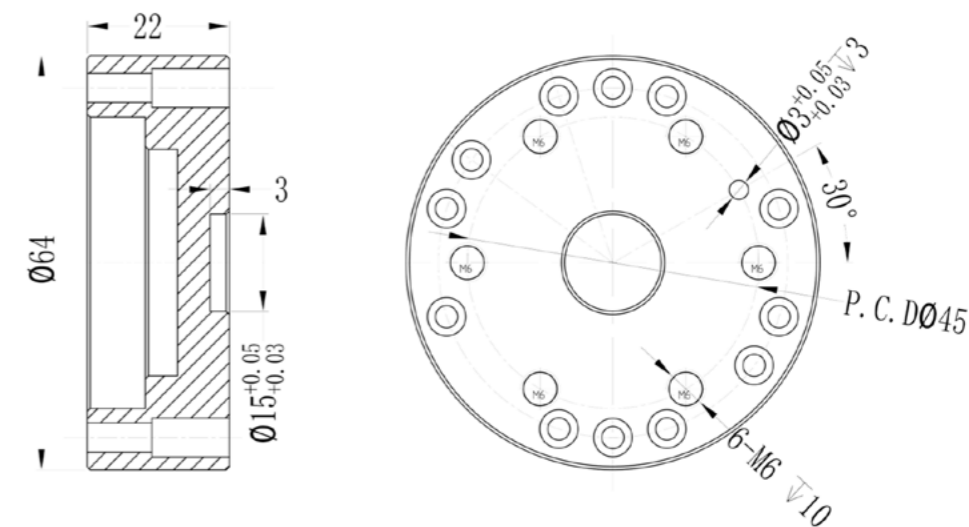
SZGH-T750-B-6 is a small desktop robot featuring short work cycle, reliable operation and high cost performance. It is widely used for various experimental teaching platforms and the students' repair, disassembly and assembly courses. The figure shows a customer's experimental teaching platform which realizes sorting and positioning of materials in combination with computer visual identification.



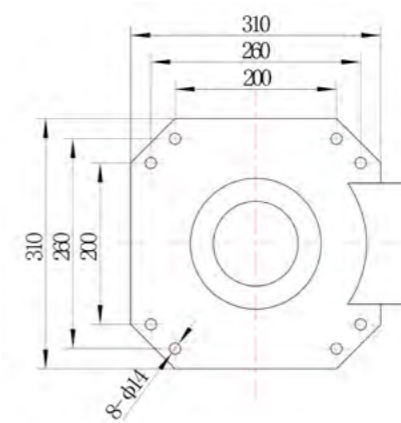
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-T950-A-6

|                     |                          |            |
|---------------------|--------------------------|------------|
| Payload             | 3KG                      |            |
| Reach               | 950mm                    |            |
| Structure           | Articulated              |            |
| Number of axes      | 6                        |            |
| Repeatability       | ±0.05mm                  |            |
| Max. motion range   | Axis 1                   | ±165°      |
|                     | Axis 2                   | +135°/-70° |
|                     | Axis 3                   | +85°/-85°  |
|                     | Axis 4                   | ±150°      |
|                     | Axis 5                   | +30°/-240° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 148°/sec   |
|                     | Axis 2                   | 148°/sec   |
|                     | Axis 3                   | 148°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 222°/sec   |
|                     | Axis 6                   | 360°/sec   |
| Weight              | ≈86kg                    |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



### Main Applications

- Materials Handling
- Parts Transmission
- Electric Welding
- Machine Management
- Stacking
- Packaging
- Testing
- Deburring
- Grinding
- Gluing
- Assembly

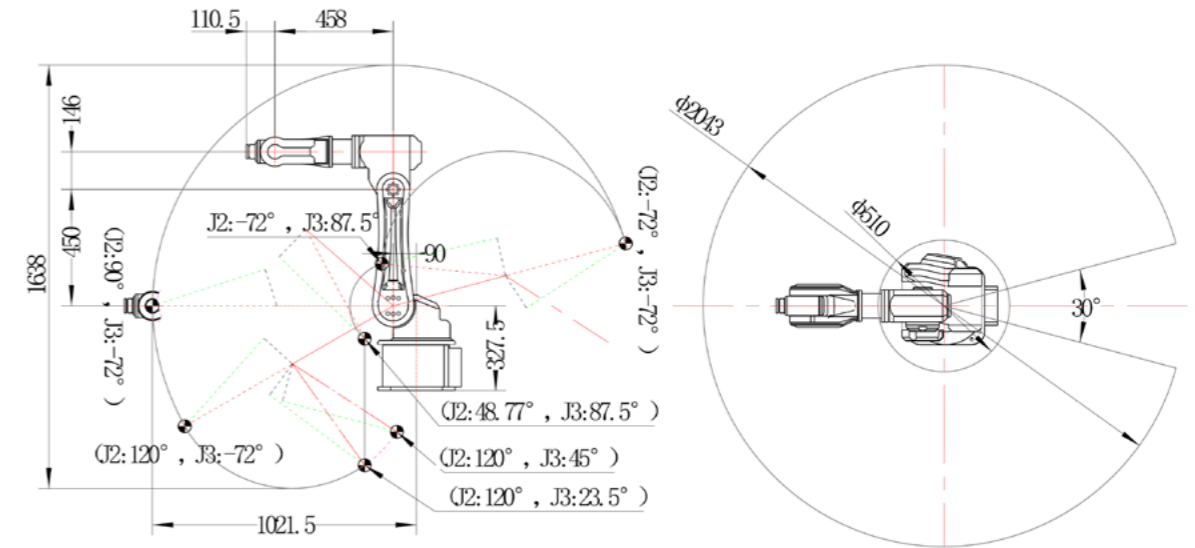
### Application Case

#### Laboratory aging test

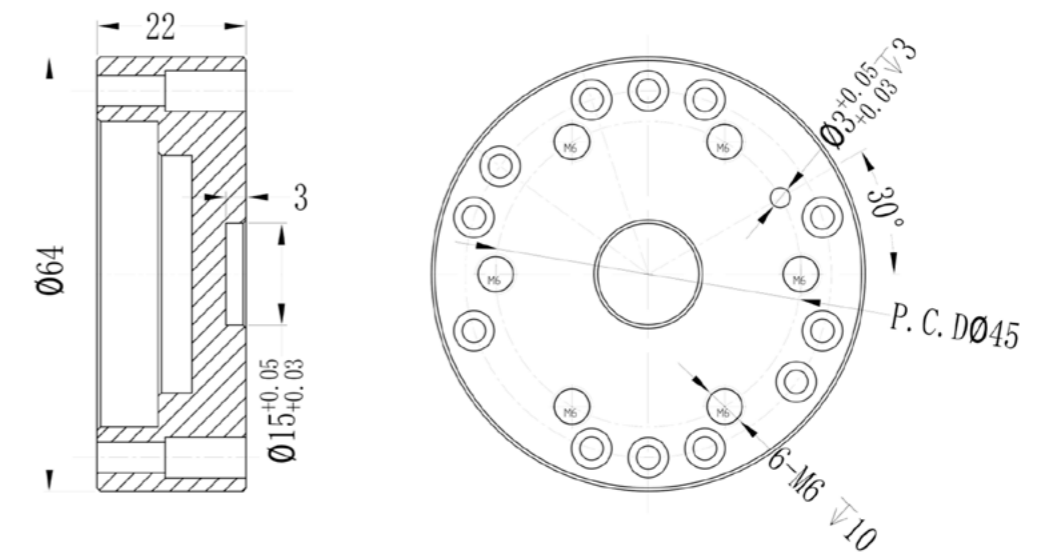
SZGH-T950-A-6 is a small robot with short working cycle, reliable operation and high cost performance. It has been tested in previous industrial applications, with outstanding performance, high added value and fast return on investment, which can help you greatly improve your production efficiency. The picture shows the customer's field application. This robot is used in the customer's aging test laboratory.



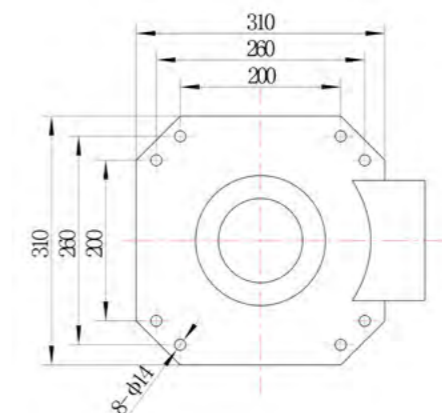
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-T1000-C-6

|                     |                          |            |
|---------------------|--------------------------|------------|
| Payload             | 10KG                     |            |
| Reach               | 1000mm                   |            |
| Structure           | Articulated              |            |
| Number of axes      | 6                        |            |
| Repeatability       | ±0.05mm                  |            |
| Max. motion range   | Axis 1                   | ±165°      |
|                     | Axis 2                   | +135°/-70° |
|                     | Axis 3                   | +85°/-85°  |
|                     | Axis 4                   | ±150°      |
|                     | Axis 5                   | +30°/-240° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 148°/sec   |
|                     | Axis 2                   | 148°/sec   |
|                     | Axis 3                   | 148°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 222°/sec   |
|                     | Axis 6                   | 222°/sec   |
| Weight              | ≈130kg                   |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



### Main Applications

- Materials Handling
- Parts Transmission
- Electric Welding
- Machine Management
- Stacking
- Packaging
- Testing
- Deburring
- Grinding
- Gluing
- Assembly

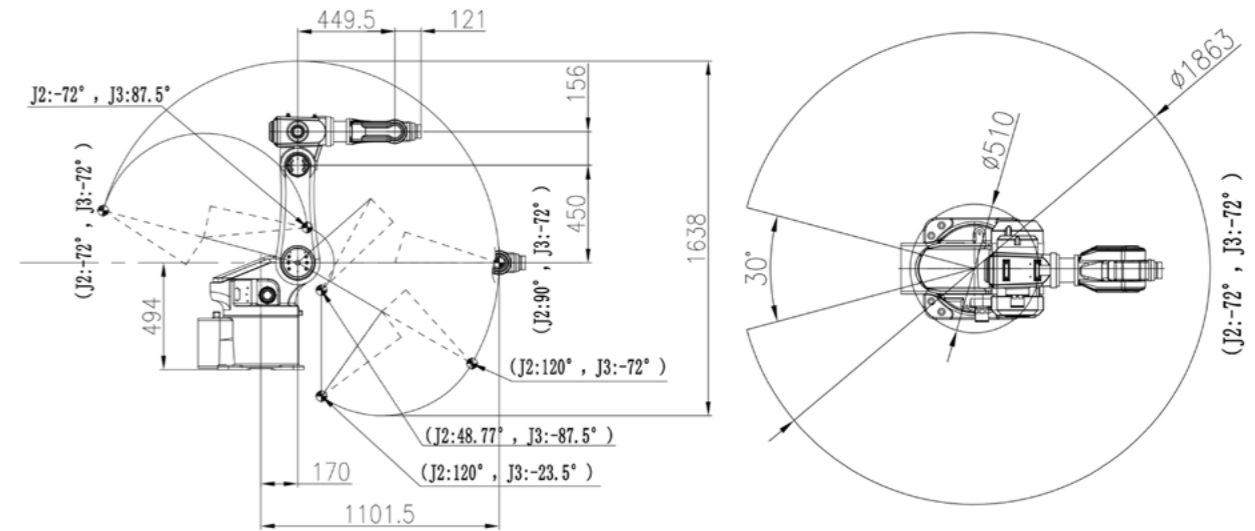
### Application Case

#### Loading and unloading on NC lathe

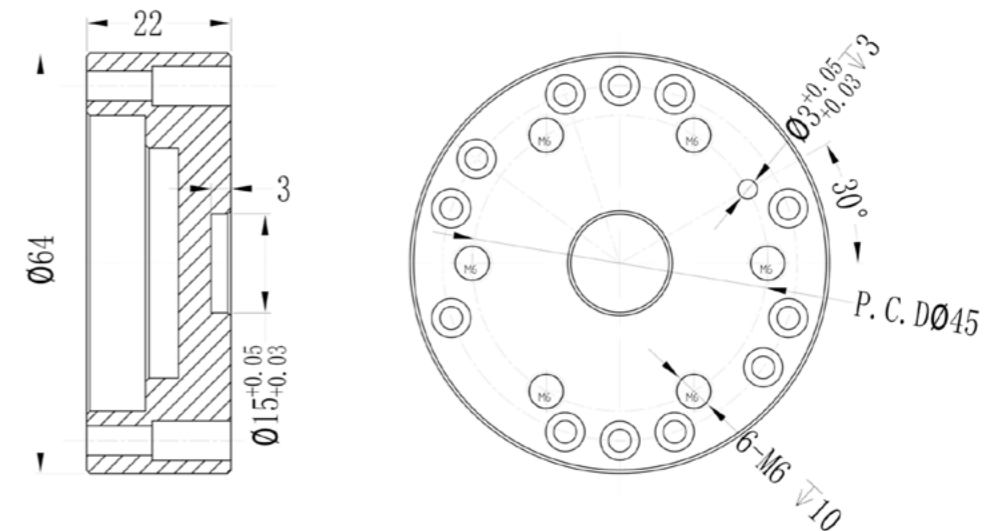
The figure shows a NC lathe automatic loading & unloading solution provided for a customer. Combined with the production line, one robot can manage two face-to-face NC machines, thereby significantly reducing labor cost and time cost and enhancing productivity of the customer.



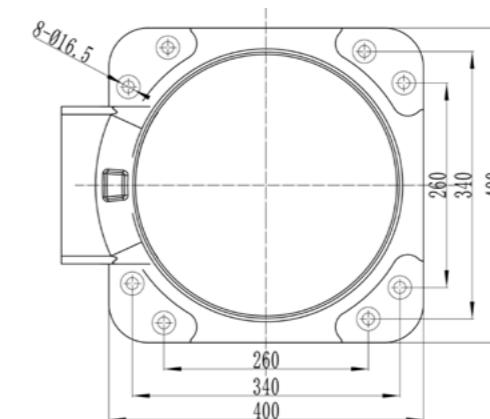
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## 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°/-70° |
|                     | Axis 3                   | +85°/-85°  |
|                     | Axis 4                   | ±150°      |
|                     | Axis 5                   | +30°/-240° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 148°/sec   |
|                     | Axis 2                   | 148°/sec   |
|                     | Axis 3                   | 148°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 222°/sec   |
|                     | Axis 6                   | 222°/sec   |
| Weight              | ≈150kg                   |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



### Main Applications

- Materials Handling
- Parts Transmission
- Electric Welding
- Machine Management
- Stacking
- Packaging
- Testing
- Deburring
- Grinding
- Gluing
- Assembly

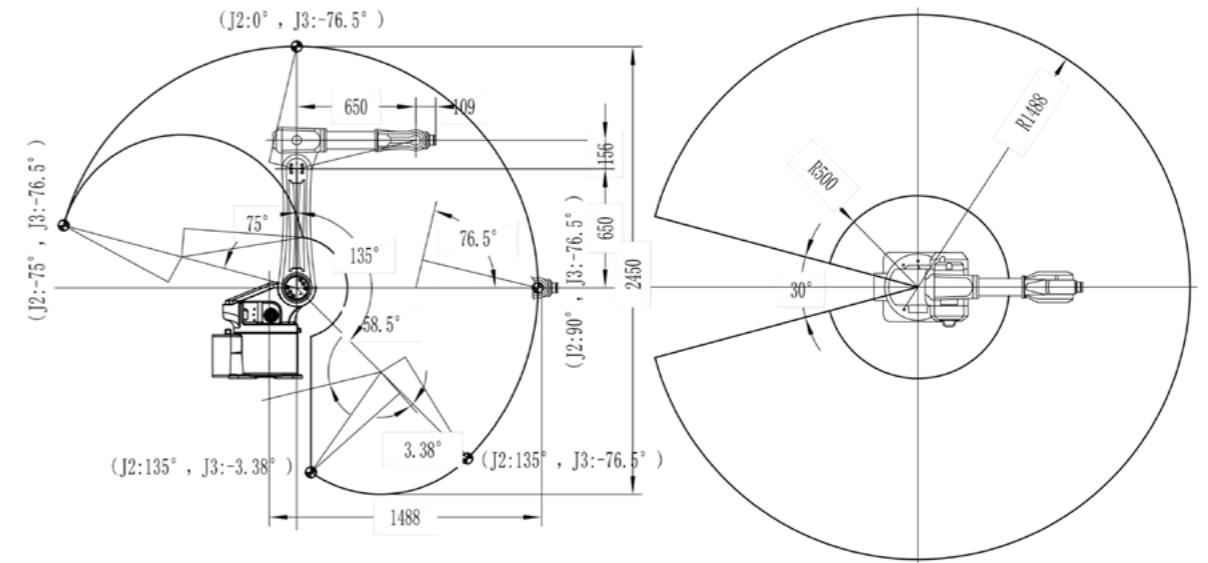
### Application Case

#### Loading and unloading on NC lathe

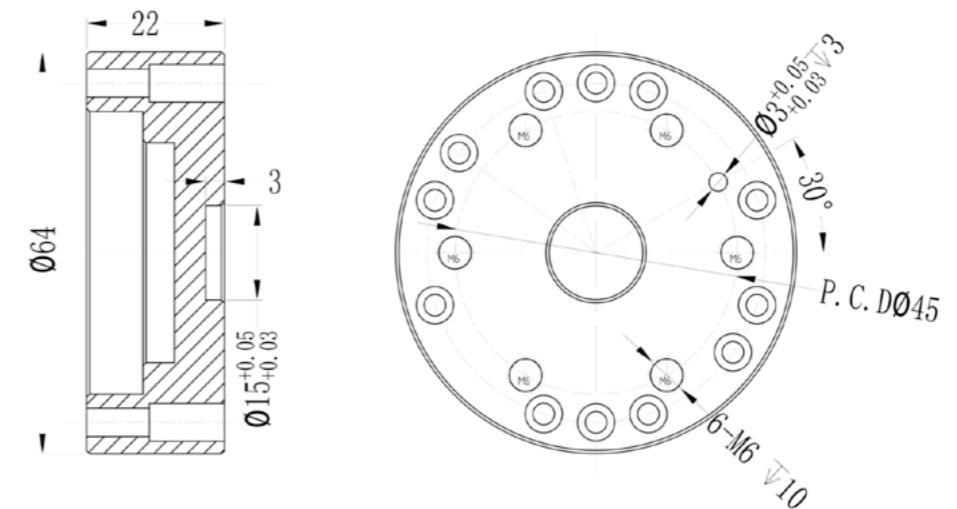
The figure shows a NC lathe automatic loading & unloading solution provided for a customer. Combined with the production line, one robot can manage two face-to-face NC machines, thereby significantly reducing labor cost and time cost and enhancing productivity of the customer.



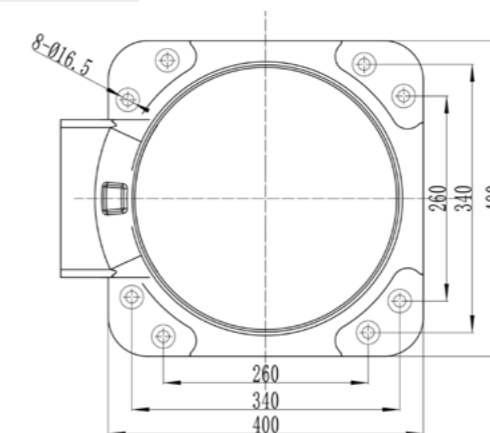
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-T1850-D-6

|                     |                          |            |
|---------------------|--------------------------|------------|
| Payload             | 20KG                     |            |
| Reach               | 1850mm                   |            |
| Structure           | Articulated              |            |
| Number of axes      | 6                        |            |
| Repeatability       | ±0.08mm                  |            |
| Max. motion range   | Axis 1                   | ±170°      |
|                     | Axis 2                   | +135°/-70° |
|                     | Axis 3                   | +60°/-85°  |
|                     | Axis 4                   | ±150°      |
|                     | Axis 5                   | +30°/-240° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 148°/sec   |
|                     | Axis 2                   | 148°/sec   |
|                     | Axis 3                   | 148°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 222°/sec   |
|                     | Axis 6                   | 222°/sec   |
| Weight              | ≈250kg                   |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



### Main Applications

- Materials Handling
- Parts Transmission
- Electric Welding
- Machine Management
- Stacking
- Packaging
- Testing
- Deburring
- Grinding
- Gluing
- Assembly

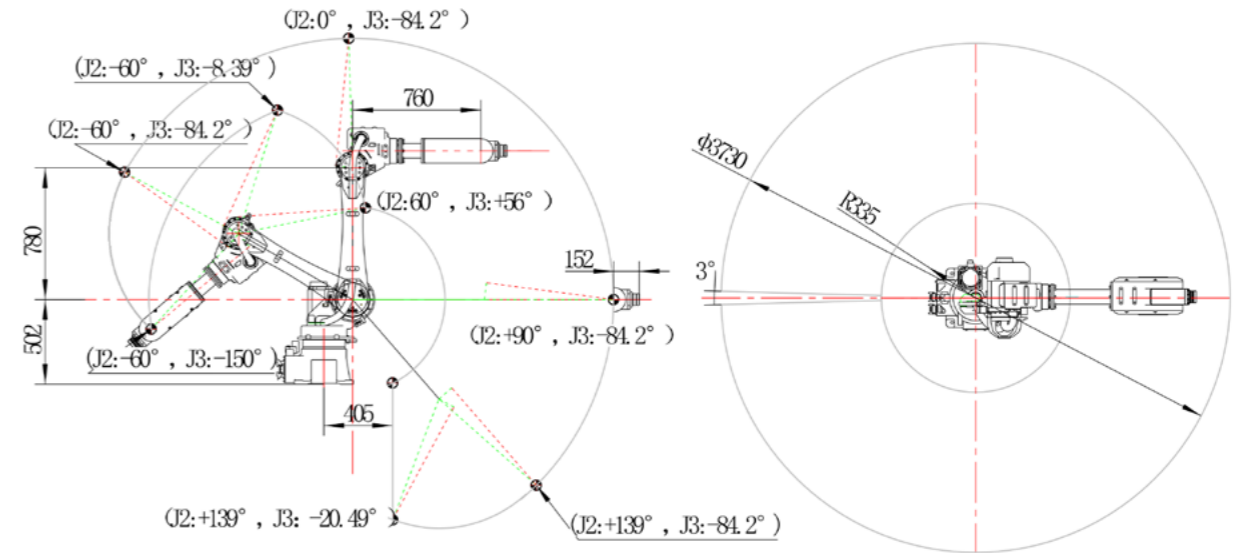
### Application Case

#### Loading and unloading on NC lathe

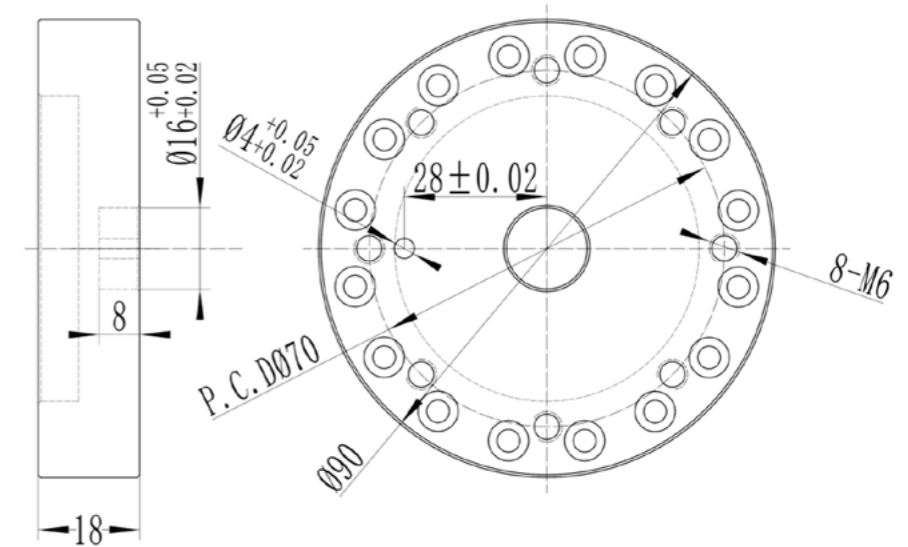
SZGH-T1850-D-6 robot has a payload of 20 kg and is widely used in handling, painting, loading and unloading for machine tools, screw tightening, surface mounting and other applications. One 6-axis robot can work independently and efficiently in cellular manufacturing processes. The figure shows the loading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



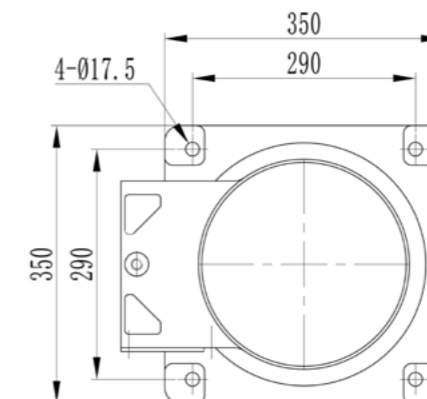
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-T2100-C-6

|                     |                          |            |
|---------------------|--------------------------|------------|
| Payload             | 10KG                     |            |
| Reach               | 2100mm                   |            |
| Structure           | Articulated              |            |
| Number of axes      | 6                        |            |
| Repeatability       | ±0.08mm                  |            |
| Max. motion range   | Axis 1                   | ±115°      |
|                     | Axis 2                   | +120°/-70° |
|                     | Axis 3                   | +60°/-75°  |
|                     | Axis 4                   | ±150°      |
|                     | Axis 5                   | +30°/-240° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 148°/sec   |
|                     | Axis 2                   | 148°/sec   |
|                     | Axis 3                   | 148°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 222°/sec   |
|                     | Axis 6                   | 222°/sec   |
| Weight              | ≈255kg                   |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



### Main Applications

- Materials Handling
- Parts Transmission
- Electric Welding
- Machine Management
- Stacking
- Packaging
- Testing
- Deburring
- Grinding
- Gluing
- Assembly

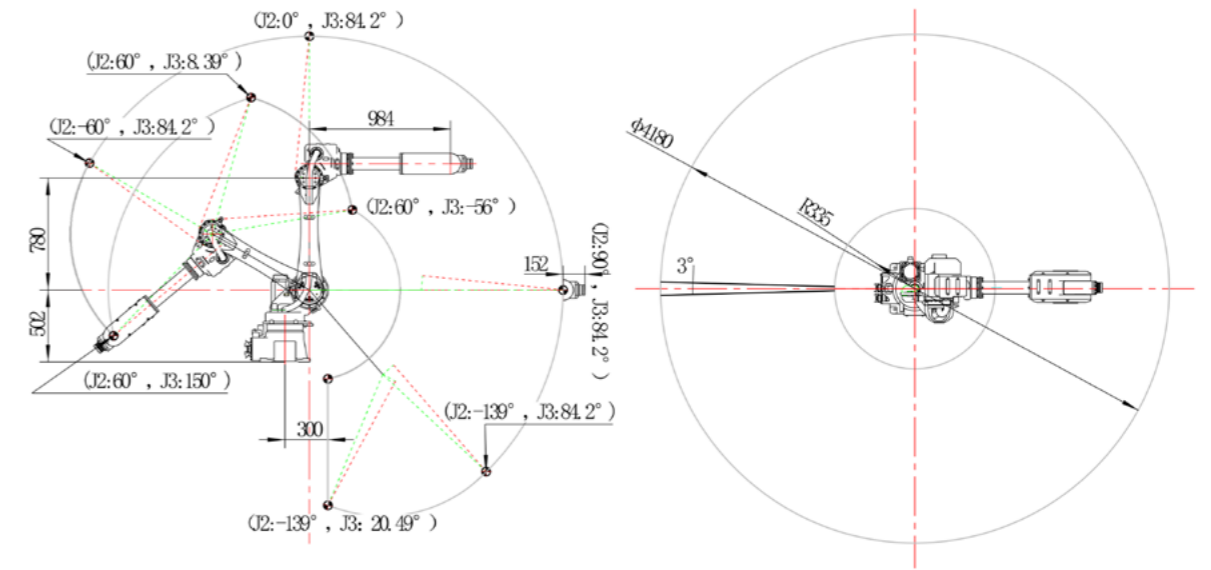
### Application Case

#### Operation in a cable shop

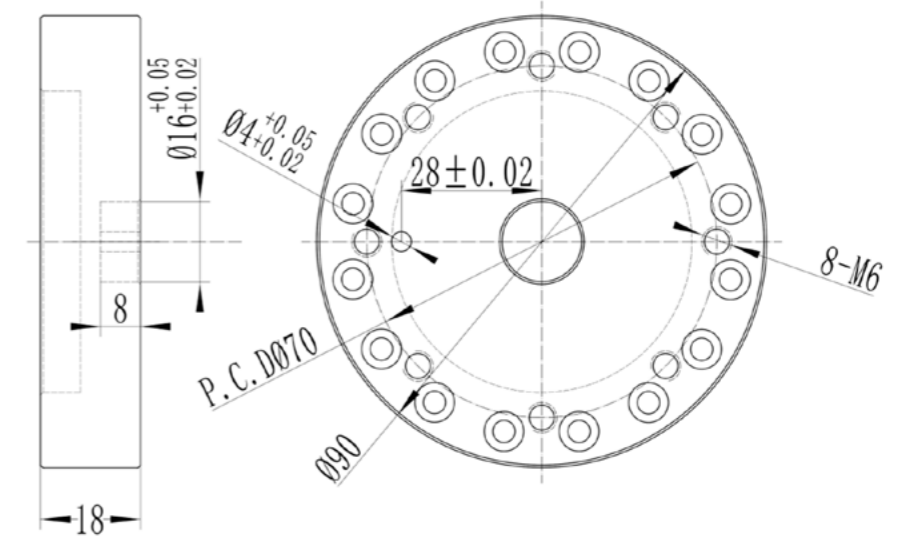
The figure shows a cable packaging line of a customer. Here, one robot simultaneously replaces multiple field operators, thus reducing the company's production cost, enhancing its efficiency and improving conformity of product appearance.



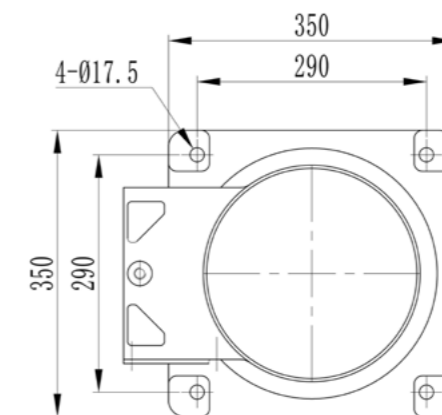
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
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- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-T2100-E-6

|                     |                          |            |
|---------------------|--------------------------|------------|
| Payload             | 50kg                     |            |
| Reach               | 2100mm                   |            |
| Structure           | Articulated              |            |
| Number of axes      | 6                        |            |
| Repeatability       | ±0.1mm                   |            |
| Max. motion range   | Axis 1                   | ±175°      |
|                     | Axis 2                   | +120°/-70° |
|                     | Axis 3                   | +60°/-75°  |
|                     | Axis 4                   | ±150°      |
|                     | Axis 5                   | +20°/-200° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 60°/sec    |
|                     | Axis 2                   | 148°/sec   |
|                     | Axis 3                   | 148°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 222°/sec   |
|                     | Axis 6                   | 222°/sec   |
| Weight              | ≈750kg                   |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



### Main Applications

- Materials Handling
- Parts Transmission
- Stacking
- deburring
- cutting

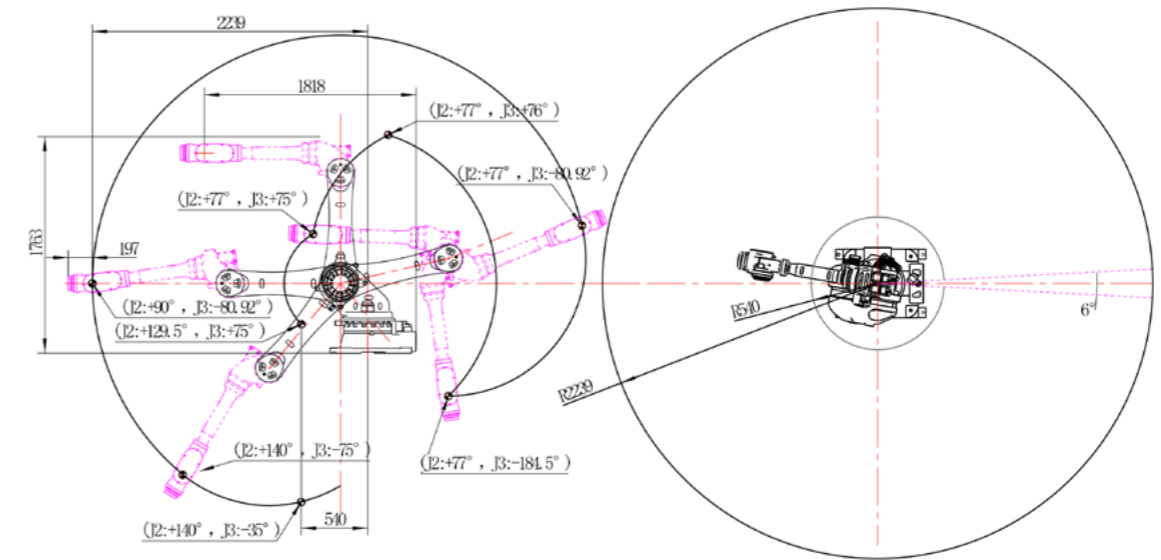
### Application Case

#### Loading and unloading of heavy cable

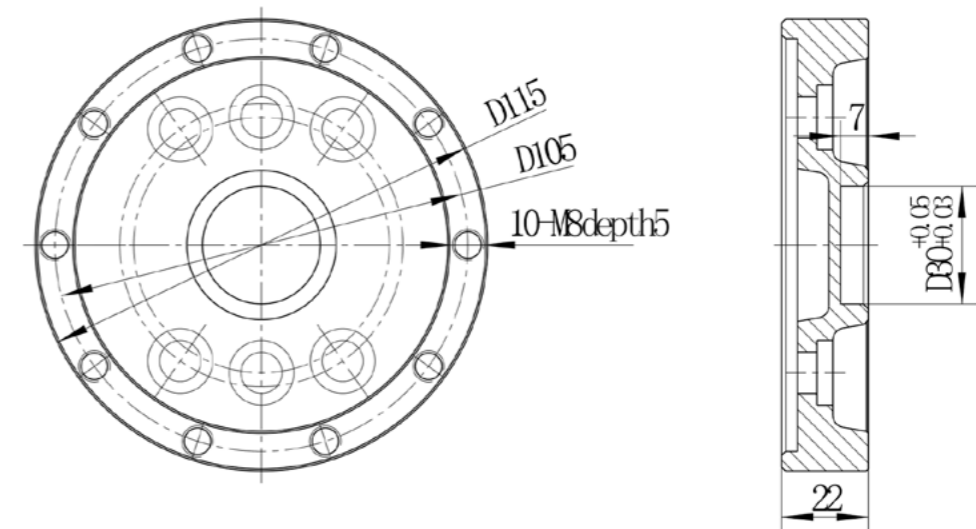
SZGH-T2100-E-6 robot has a load of 50kg, which is the six axis joint robot with the largest load. The picture shows a customer using this type of robot produced by our company to load and unload heavier cables.



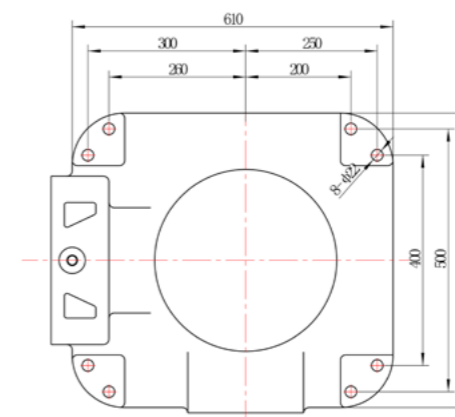
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## 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                   | +120°/-70° |
|                     | Axis 3                   | +60°/-75°  |
|                     | Axis 4                   | ±150°      |
|                     | Axis 5                   | +30°/-240° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 60°/sec    |
|                     | Axis 2                   | 180°/sec   |
|                     | Axis 3                   | 148°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 222°/sec   |
|                     | Axis 6                   | 222°/sec   |
| Weight              | ≈700kg                   |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



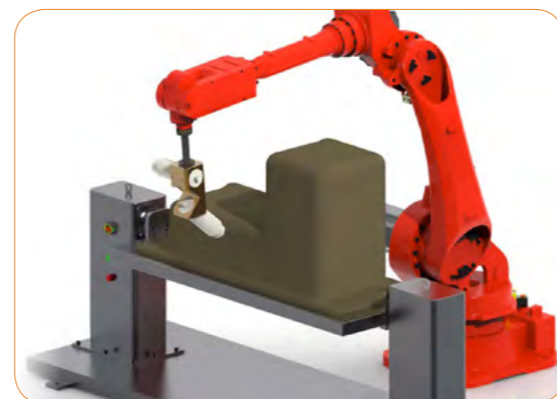
### Main Applications

- Materials Handling
- Parts Transmission
- Stacking
- deburring
- cutting

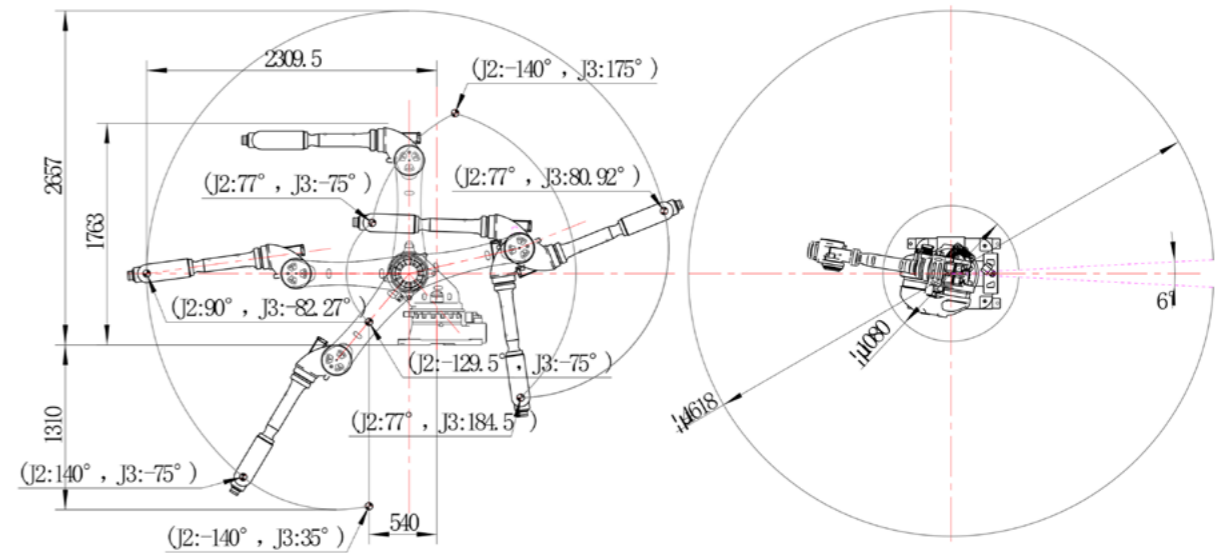
### Application Case

#### Drilling and deburring of irregular workpieces

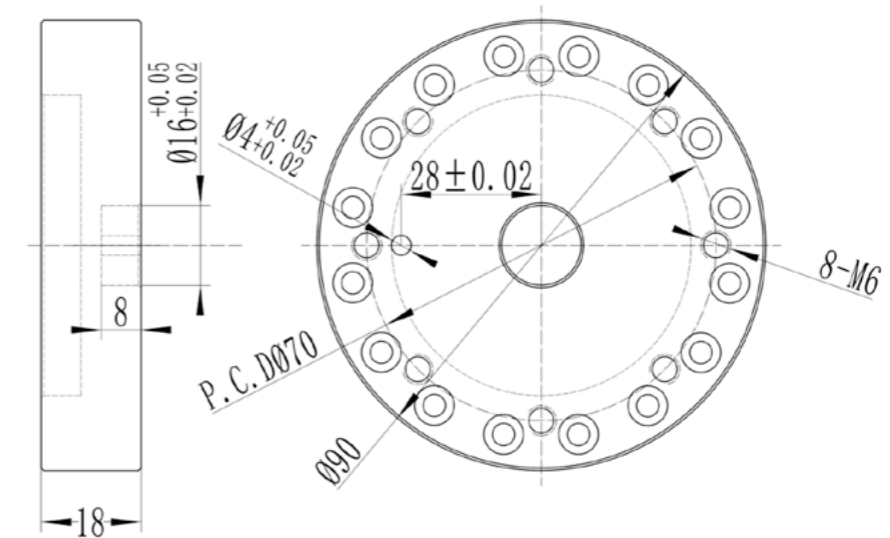
SZGH-T2300-3C-6 is a 30kg manipulator newly developed by our company, with high body rigidity and certain load redundancy. The picture on the right shows the integrated polishing and perforation scheme provided by the company for a customer, which greatly considers the variety of products on the customer's site.



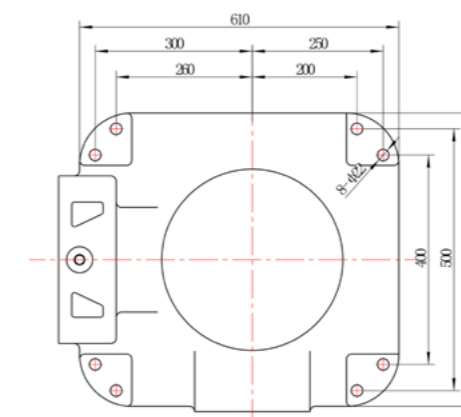
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## 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                   | +100°/-70° |
|                     | Axis 3                   | +60°/-75°  |
|                     | Axis 4                   | ±150°      |
|                     | Axis 5                   | +30°/-240° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 60°/sec    |
|                     | Axis 2                   | 180°/sec   |
|                     | Axis 3                   | 148°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 222°/sec   |
|                     | Axis 6                   | 222°/sec   |
| Weight              | ≈700kg                   |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



### Main Applications

- Materials Handling
- Parts Transmission
- Stacking
- deburring
- cutting

### Application Case

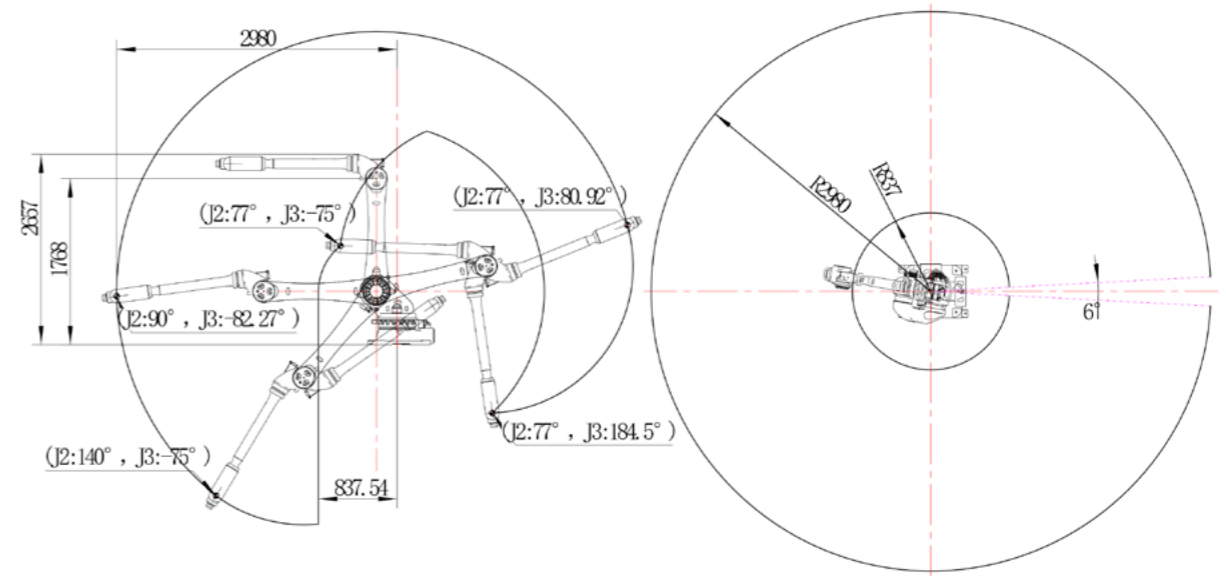
#### Drilling and deburring of irregular workpieces

SZGH-T2950-3C-6 is a 30kg manipulator newly developed by our company, with a large range of motion.

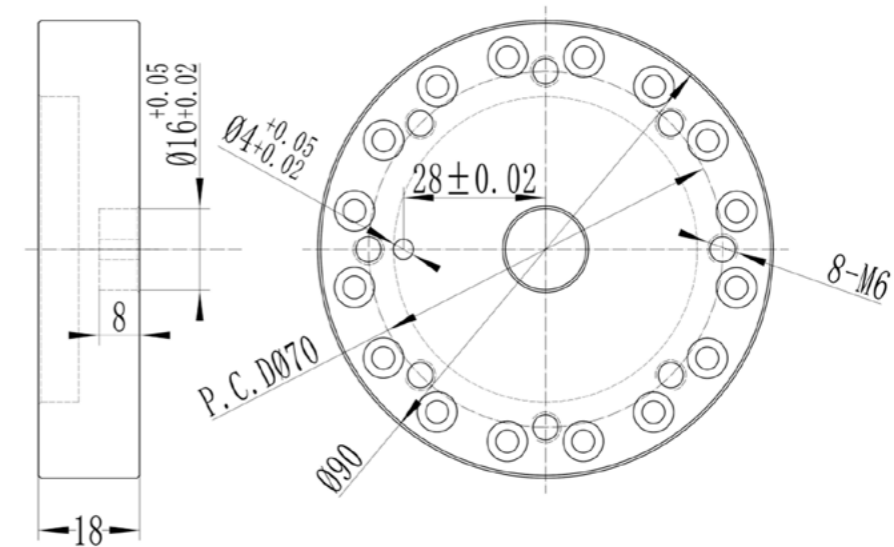
The picture on the right is the scene picture provided by the company for a customer of large-scale injection molding parts, which can fully meet the production rhythm and process requirements of large-scale injection molding machines.



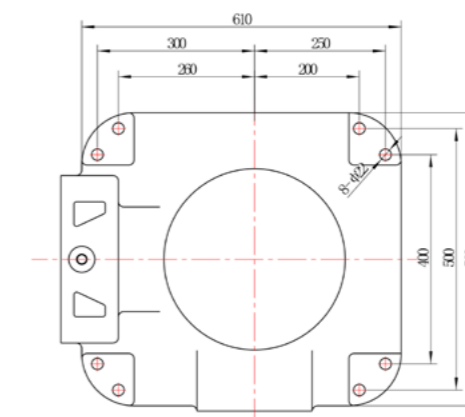
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-M1000-E-6

|                     |                          |            |
|---------------------|--------------------------|------------|
| Payload             | 50kg                     |            |
| Reach               | 1000mm                   |            |
| Structure           | Articulated              |            |
| Number of axes      | 6                        |            |
| Repeatability       | ±0.08mm                  |            |
| Max. motion range   | Axis 1                   | ±165°      |
|                     | Axis 2                   | +128°/-63° |
|                     | Axis 3                   | +60°/-75°  |
|                     | Axis 4                   | ±130°      |
|                     | Axis 5                   | +80°/-220° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 148°/sec   |
|                     | Axis 2                   | 148°/sec   |
|                     | Axis 3                   | 148°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 148°/sec   |
|                     | Axis 6                   | 148°/sec   |
| Weight              | ≈180kg                   |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



### Main Applications

- Grinding
- Polishing
- Deburring

### Application Case

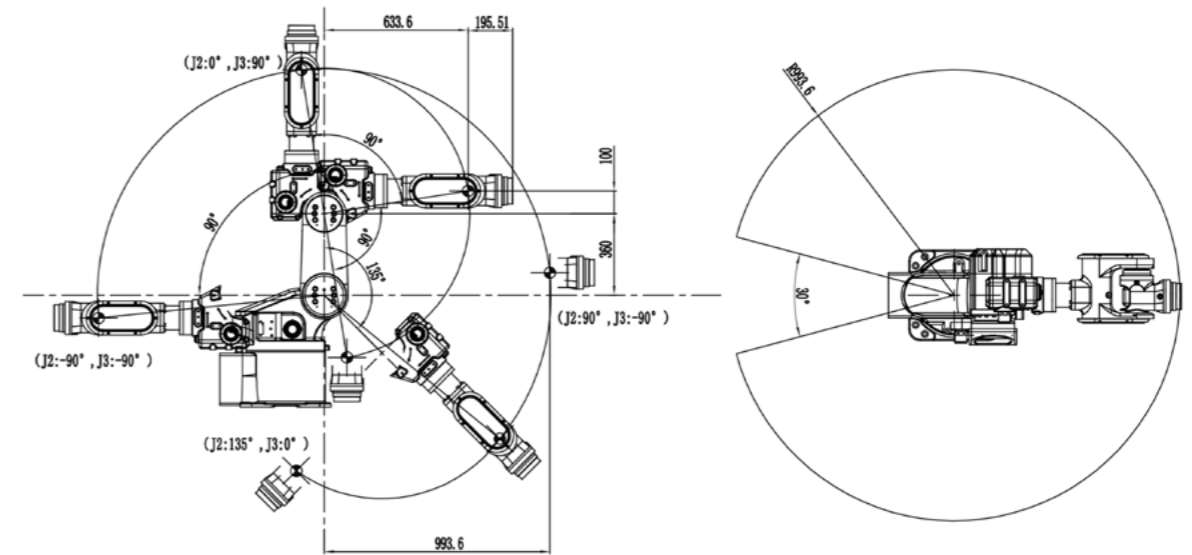
#### Drilling and deburring of irregular workpieces

SZGH-M1000-E-6 is a 50kg manipulator newly developed by our company, with a large range of motion.

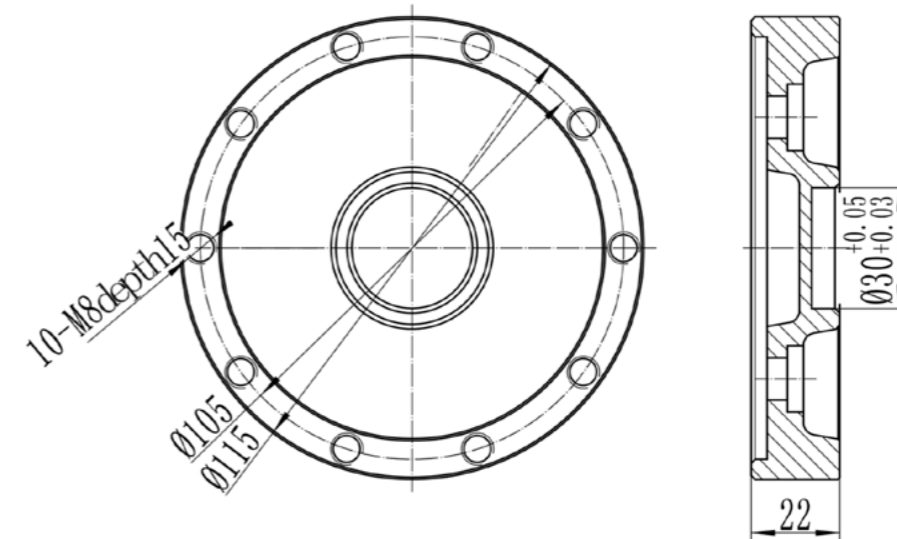
The right figure shows a case of spherical grinding of this machine provided by our company for a customer. The machine has a built-in grinding process package, which can easily complete the grinding task delivered by the customer.



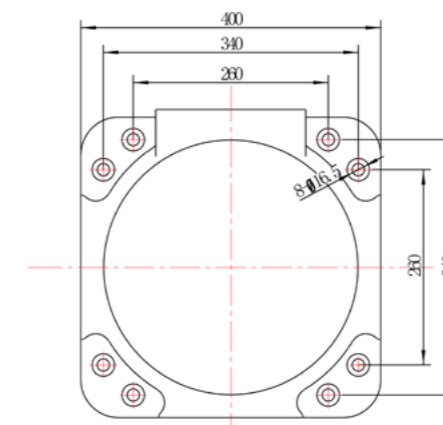
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series**
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series**
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-M1400-3C-6

|                     |                          |            |
|---------------------|--------------------------|------------|
| Payload             | 30kg                     |            |
| Reach               | 1400mm                   |            |
| Structure           | Articulated              |            |
| Number of axes      | 6                        |            |
| Repeatability       | ±0.08mm                  |            |
| Max. motion range   | Axis 1                   | ±170°      |
|                     | Axis 2                   | +120°/-70° |
|                     | Axis 3                   | +60°/-75°  |
|                     | Axis 4                   | ±150°      |
|                     | Axis 5                   | +80°/-220° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 148°/sec   |
|                     | Axis 2                   | 148°/sec   |
|                     | Axis 3                   | 148°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 222°/sec   |
|                     | Axis 6                   | 148°/sec   |
| Weight              | ≈185kg                   |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



### Main Applications

- Grinding
- Polishing
- Deburring

### Application Case

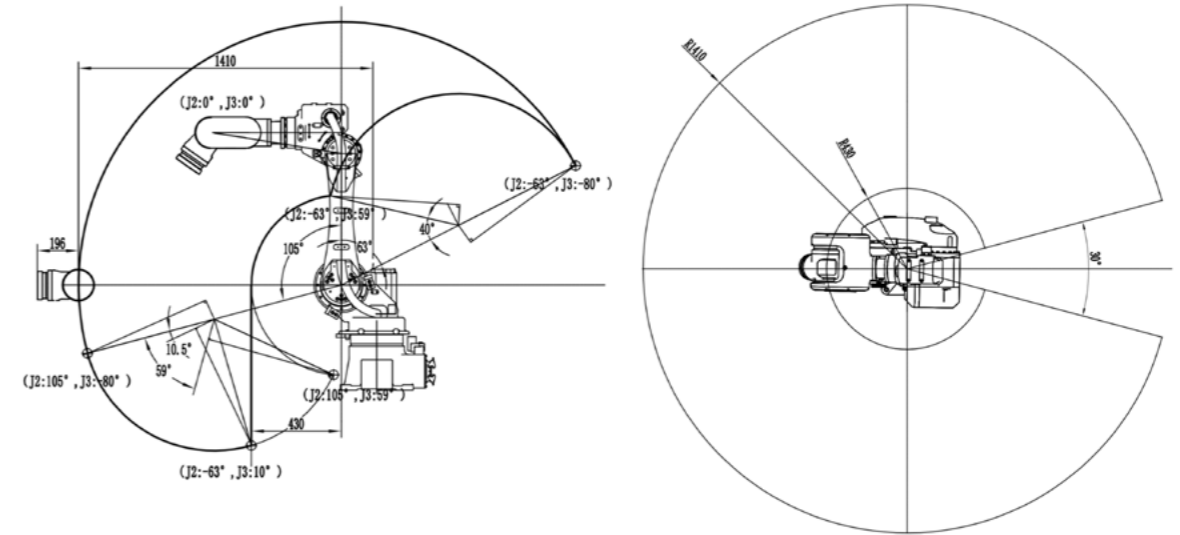
Drilling and deburring of irregular workpieces

SZGH-M1400-E-6 is a 30kg manipulator newly developed by our company, with a large range of motion.

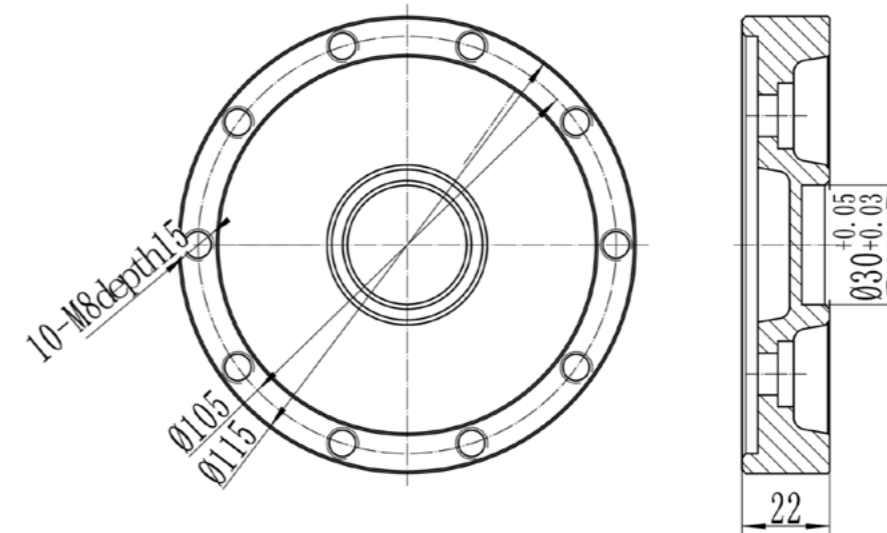
The right figure shows a case of spherical grinding of this machine provided by our company for a customer. The machine has a built-in grinding process package, which can easily complete the grinding task delivered by the customer.



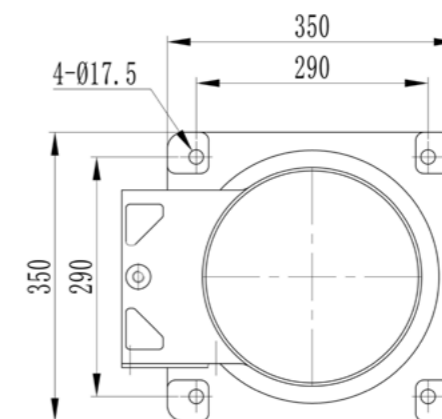
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series**
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series**
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-M1850-3C-6

|                     |                          |            |
|---------------------|--------------------------|------------|
| Payload             | 30kg                     |            |
| Reach               | 1850mm                   |            |
| Structure           | Articulated              |            |
| Number of axes      | 6                        |            |
| Repeatability       | ±0.08mm                  |            |
| Max. motion range   | Axis 1                   | ±170°      |
|                     | Axis 2                   | +120°/-63° |
|                     | Axis 3                   | +60°/-85°  |
|                     | Axis 4                   | ±360°      |
|                     | Axis 5                   | +80°/-220° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 148°/sec   |
|                     | Axis 2                   | 148°/sec   |
|                     | Axis 3                   | 148°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 222°/sec   |
|                     | Axis 6                   | 148°/sec   |
| Weight              | ≈270kg                   |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



### Main Applications

- Grinding
- Polishing
- Deburring

### Application Case

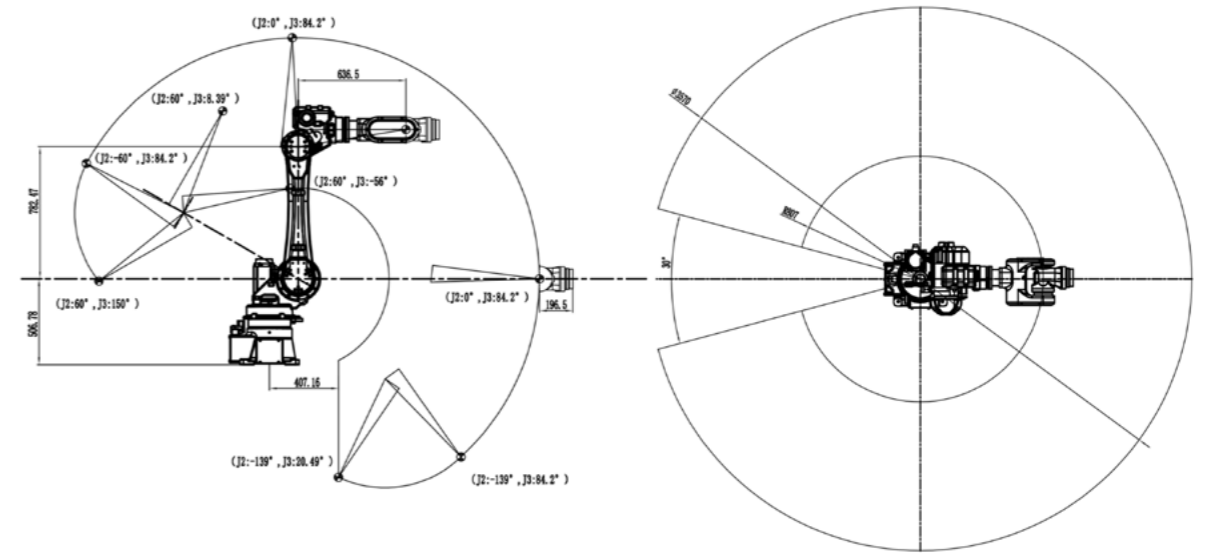
Drilling and deburring of irregular workpieces

SZGH-M1850-E-6 is a 30kg manipulator newly developed by our company, with a large range of motion.

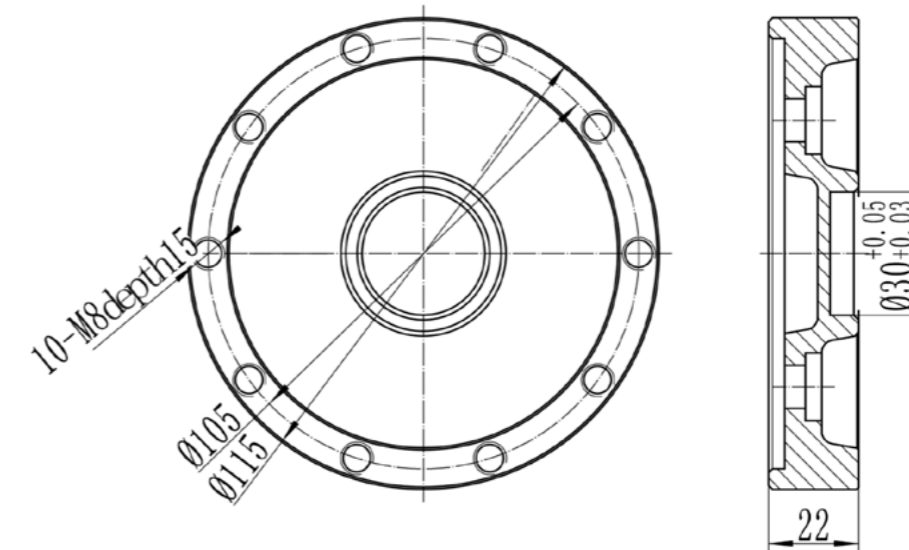
The right figure shows a case of spherical grinding of this machine provided by our company for a customer. The machine has a built-in grinding process package, which can easily complete the grinding task delivered by the customer.



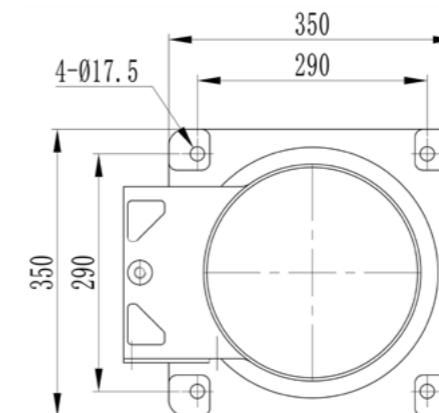
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series**
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series**
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-G1000-B-4

|                     |                          |           |
|---------------------|--------------------------|-----------|
| Payload             | 6kg                      |           |
| Reach               | 1000mm                   |           |
| Structure           | Articulated              |           |
| Number of axes      | 4                        |           |
| Repeatability       | ±0.2mm                   |           |
| Max. motion range   | Axis 1                   | ±165°     |
|                     | Axis 2                   | +80°/-35° |
|                     | Axis 3                   | +80°/-35° |
|                     | Axis 4                   | ±360°     |
|                     | Axis 5                   | —         |
|                     | Axis 6                   | —         |
| Max. speed          | Axis 1                   | 148°/sec  |
|                     | Axis 2                   | 148°/sec  |
|                     | Axis 3                   | 222°/sec  |
|                     | Axis 4                   | 360°/sec  |
|                     | Axis 5                   | —         |
|                     | Axis 6                   | —         |
| Weight              | ≈60KG                    |           |
| Mounting type       | Ground, bracket, ceiling |           |
| Ambient temperature | 5°C ~ 45°C               |           |



### Main Applications

- Materials Handling
- Parts transmission
- Machine Management
- Stacking
- Packaging

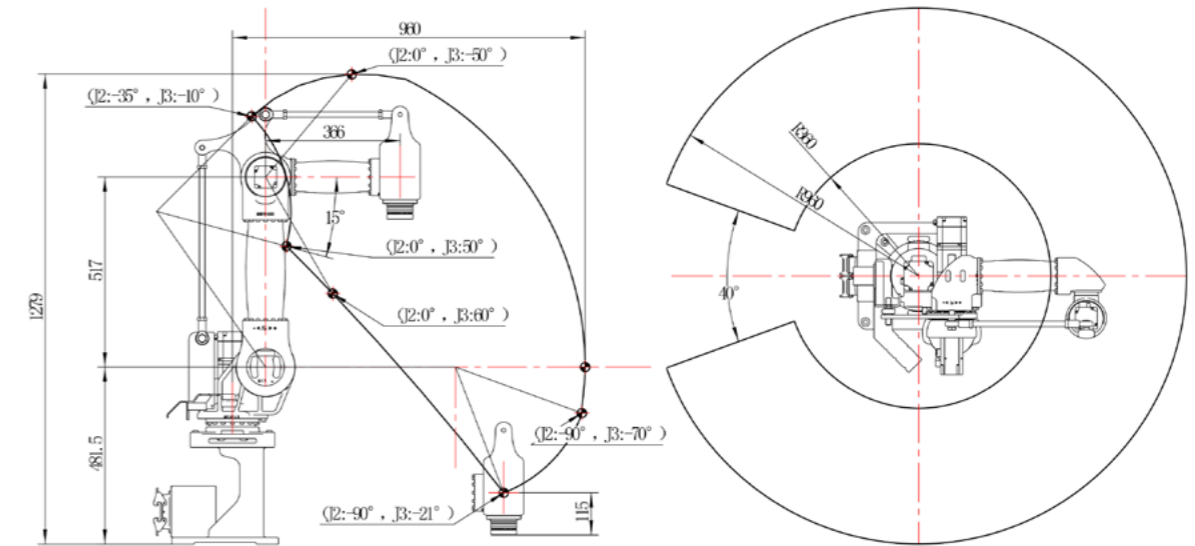
### Application Case

#### Loading and unloading of small stamping parts

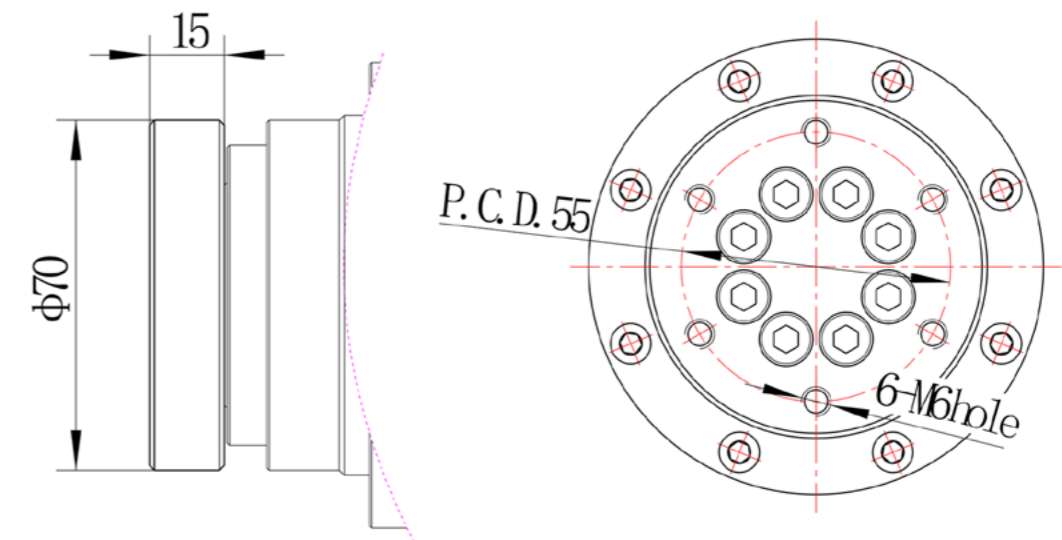
SZGH-G1000-B-4 is a 6kg light manipulator newly developed by our company, with a large range of motion. The picture on the right is the on-site feeding and unloading picture of the machine in the stamping workshop provided by the company for a customer. Due to its light structure and fast speed, it is fully capable of meeting the rhythm and process requirements of ordinary stamping machines.



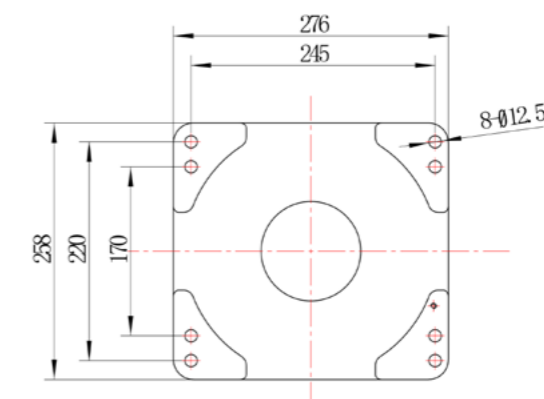
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-B1500-C-4

|                     |             |           |
|---------------------|-------------|-----------|
| Payload             | 10kg        |           |
| Reach               | 1500mm      |           |
| Structure           | Articulated |           |
| Number of axes      | 4           |           |
| Repeatability       | ±0.2mm      |           |
| Max. motion range   | Axis 1      | ±165°     |
|                     | Axis 2      | +80°/-25° |
|                     | Axis 3      | +80°/-25° |
|                     | Axis 4      | ±360°     |
|                     | Axis 5      | -----     |
|                     | Axis 6      | -----     |
| Max. speed          | Axis 1      | 148°/sec  |
|                     | Axis 2      | 148°/sec  |
|                     | Axis 3      | 148°/sec  |
|                     | Axis 4      | 222°/sec  |
|                     | Axis 5      | -----     |
|                     | Axis 6      | -----     |
| Weight              | ≈140KG      |           |
| Mounting type       | Horizontal  |           |
| Ambient temperature | 5°C ~ 45°C  |           |



### Main Applications

- Materials Handling
- Parts transmission
- Stacking
- Deburring
- Cutting

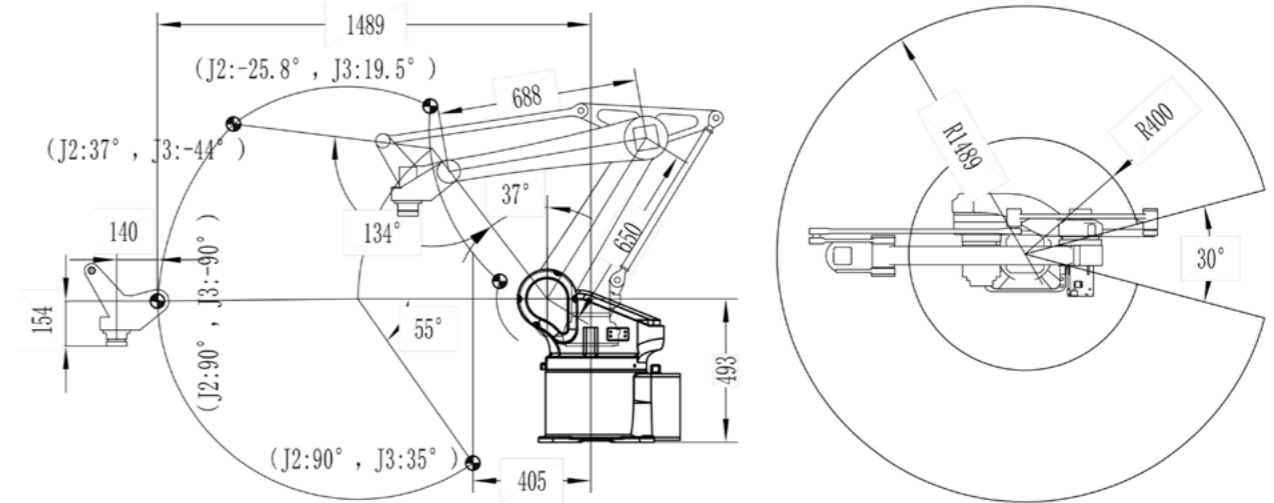
### Application Case

#### Loading and unloading for stamping

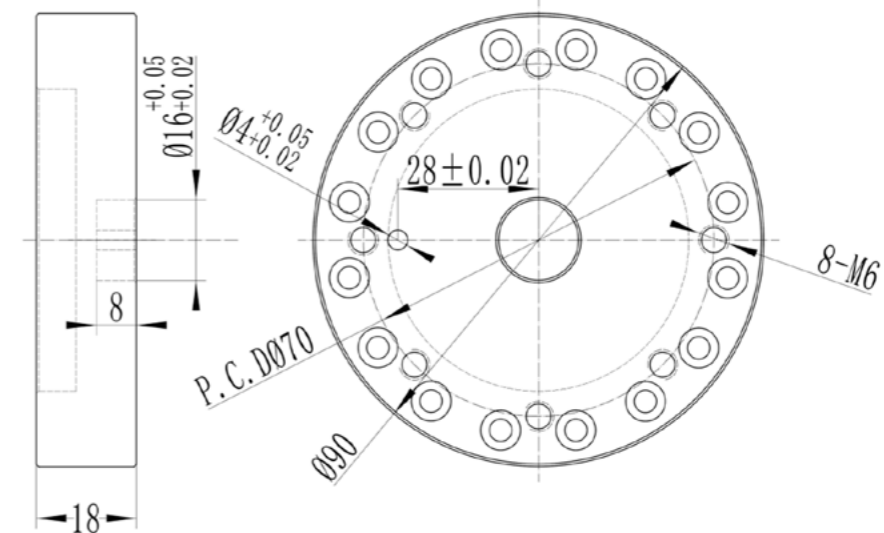
SZGH-B1500-C-4 robot has a load of 10kg and is mainly used for assembly line stamping. The picture shows the working site of the punching line provided by our company for a customer. This type of robot can carry out loading and unloading in a large range in a small environment, greatly improving the production efficiency.



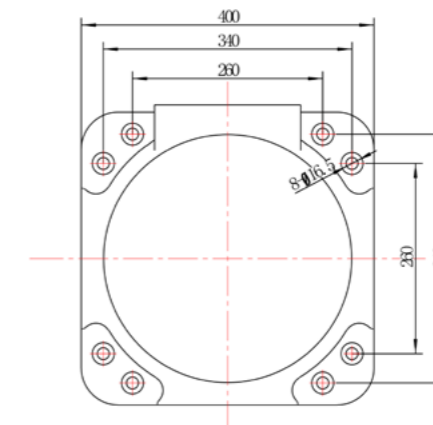
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series**
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series**
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-B1850-3C-4

|                     |             |           |
|---------------------|-------------|-----------|
| Payload             | 30kg        |           |
| Reach               | 1850mm      |           |
| Structure           | Articulated |           |
| Number of axes      | 4           |           |
| Repeatability       | ±0.2mm      |           |
| Max. motion range   | Axis 1      | ±170°     |
|                     | Axis 2      | +80°/-25° |
|                     | Axis 3      | +80°/-25° |
|                     | Axis 4      | ±360°     |
|                     | Axis 5      | -----     |
|                     | Axis 6      | -----     |
| Max. speed          | Axis 1      | 148°/sec  |
|                     | Axis 2      | 148°/sec  |
|                     | Axis 3      | 148°/sec  |
|                     | Axis 4      | 222°/sec  |
|                     | Axis 5      | -----     |
|                     | Axis 6      | -----     |
| Weight              | ≈230KG      |           |
| Mounting type       | Horizontal  |           |
| Ambient temperature | 5°C ~ 45°C  |           |



### Main Applications

- Materials Handling
- Parts transmission
- Stacking
- Deburring
- Cutting

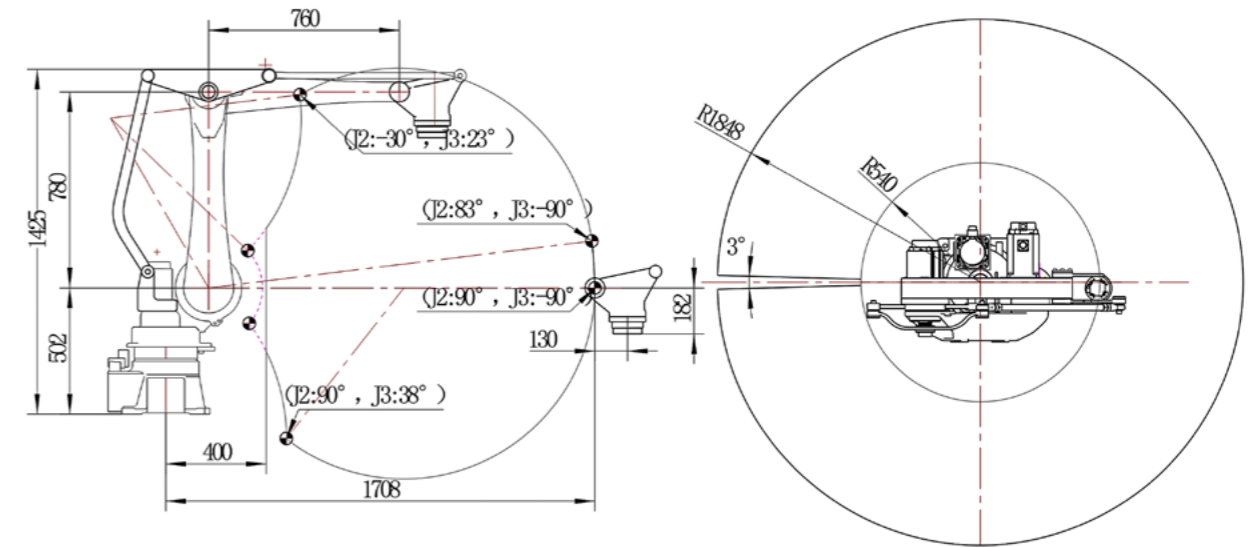
### Application Case

#### Loading and unloading on the assembly line

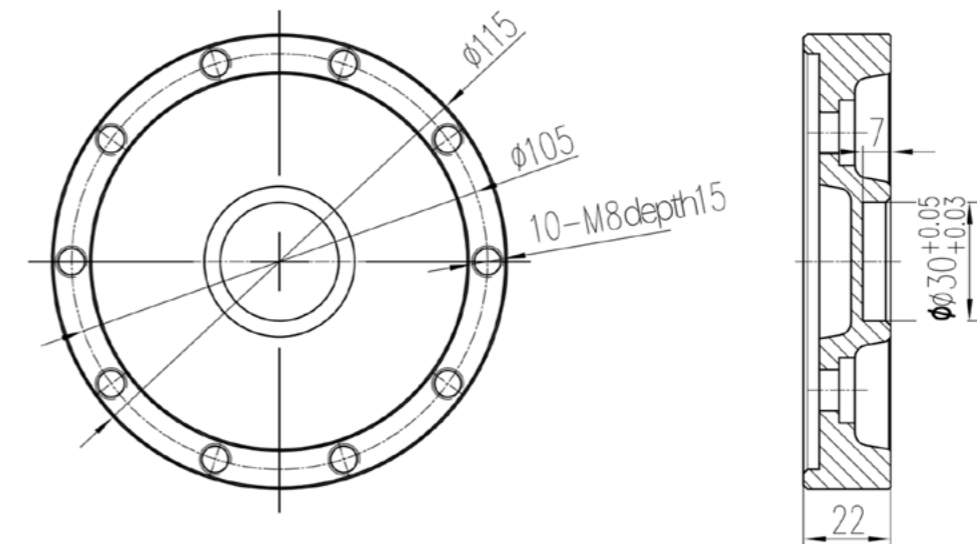
SZGH-B1850-3C-4 robot has a load of 30kg, which can be used for loading and unloading of a single press, or for loading and unloading of multiple presses to realize the assembly line stamping operation. The picture on the right shows our company providing an assembly line stacking solution for a customer. The size of the customer's card is 1.1m × 1.1m, the required stacking height is 1.6m, and one robot can stack two pallets at the same time, greatly improving the efficiency of flow production and saving labor.



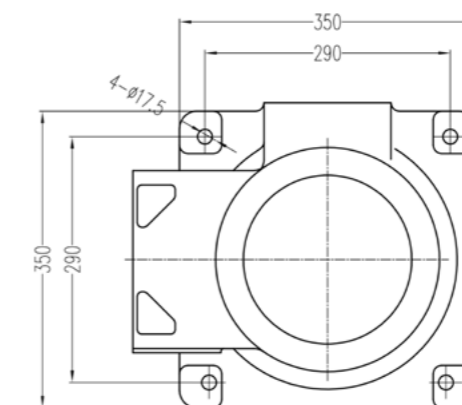
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series**
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series**
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-B2100-F-4

|                     |             |           |
|---------------------|-------------|-----------|
| Payload             | 100kg       |           |
| Reach               | 2100mm      |           |
| Structure           | Articulated |           |
| Number of axes      | 4           |           |
| Repeatability       | ±0.2mm      |           |
| Max. motion range   | Axis 1      | ±175°     |
|                     | Axis 2      | +80°/-25° |
|                     | Axis 3      | +80°/-25° |
|                     | Axis 4      | ±360°     |
|                     | Axis 5      | -----     |
|                     | Axis 6      | -----     |
| Max. speed          | Axis 1      | 60°/sec   |
|                     | Axis 2      | 148°/sec  |
|                     | Axis 3      | 148°/sec  |
|                     | Axis 4      | 148°/sec  |
|                     | Axis 5      | -----     |
|                     | Axis 6      | -----     |
| Weight              | ≈650kg      |           |
| Mounting type       | Horizontal  |           |
| Ambient temperature | 5°C ~ 45°C  |           |



### Main Applications

- Materials Handling
- Parts transmission
- Stacking
- Deburring
- Cutting

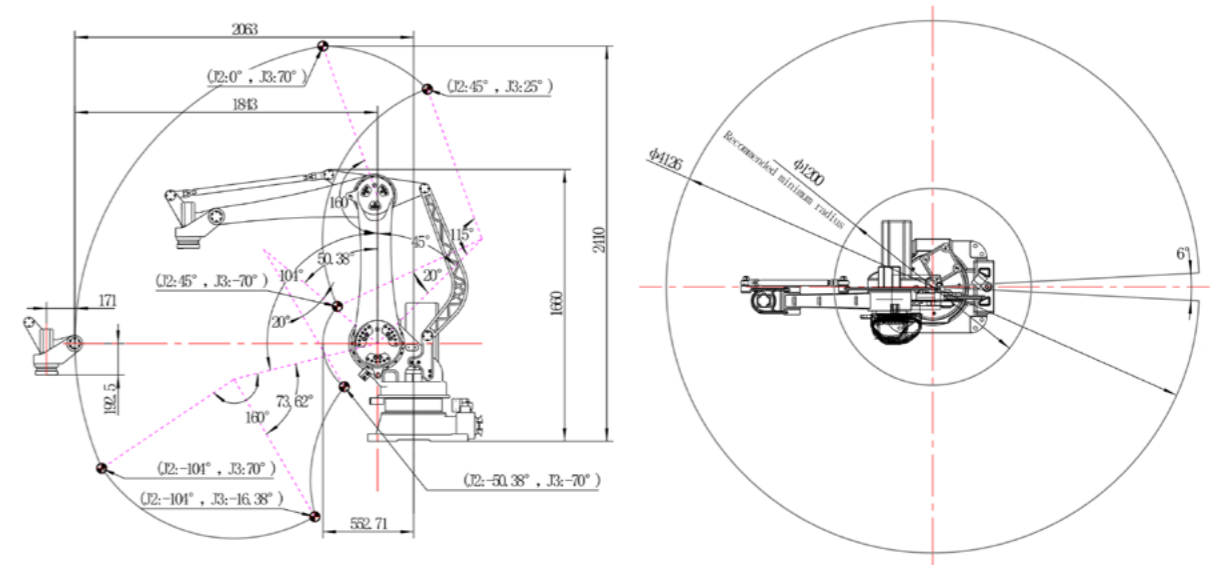
### Application Case

#### Palletizing of materials in bags

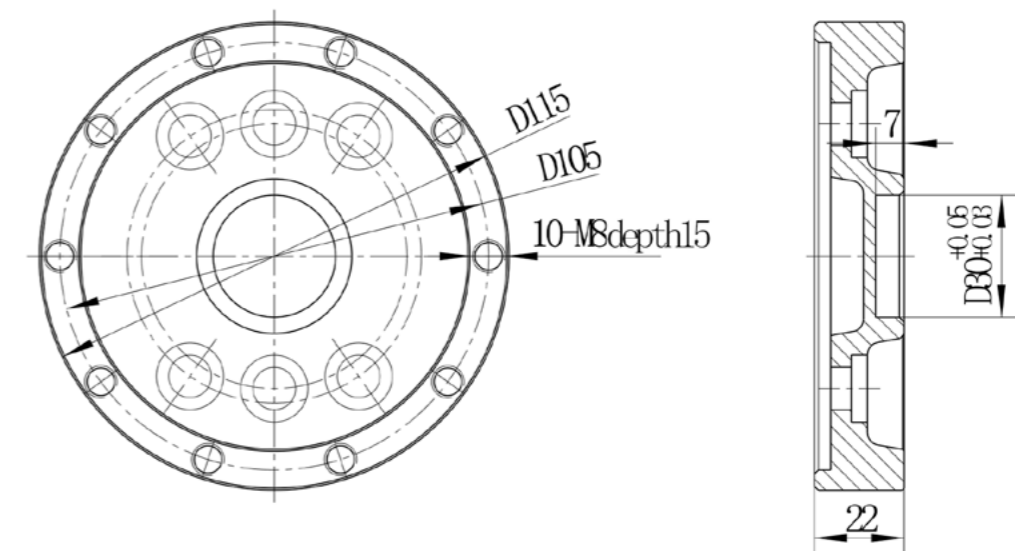
SZGH-B2100-F-4 robot has a load of 100kg. It is a heavy-duty palletizing robot, which is widely used in various chemical loading and unloading, assembly line palletizing and other occasions. The picture shows the scene of the chemical raw material feeding assembly line provided by the company for a customer. A robot is responsible for the whole assembly line, freeing workers from heavy work and solving the problem of recruitment at this position of the enterprise.



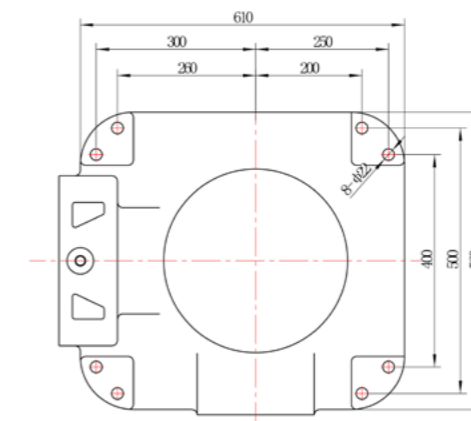
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-B2300-E-4

|                     |             |           |
|---------------------|-------------|-----------|
| Payload             | 50kg        |           |
| Reach               | 2300mm      |           |
| Structure           | Articulated |           |
| Number of axes      | 4           |           |
| Repeatability       | ±0.2mm      |           |
| Max. motion range   | Axis 1      | ±175°     |
|                     | Axis 2      | +80°/-25° |
|                     | Axis 3      | +80°/-25° |
|                     | Axis 4      | ±360°     |
|                     | Axis 5      | -----     |
|                     | Axis 6      | -----     |
| Max. speed          | Axis 1      | 60°/sec   |
|                     | Axis 2      | 148°/sec  |
|                     | Axis 3      | 148°/sec  |
|                     | Axis 4      | 148°/sec  |
|                     | Axis 5      | -----     |
|                     | Axis 6      | -----     |
| Weight              | ≈660kg      |           |
| Mounting type       | Horizontal  |           |
| Ambient temperature | 5°C ~ 45°C  |           |



### Main Applications

- Materials Handling
- Parts transmission
- Stacking
- Deburring
- Cutting

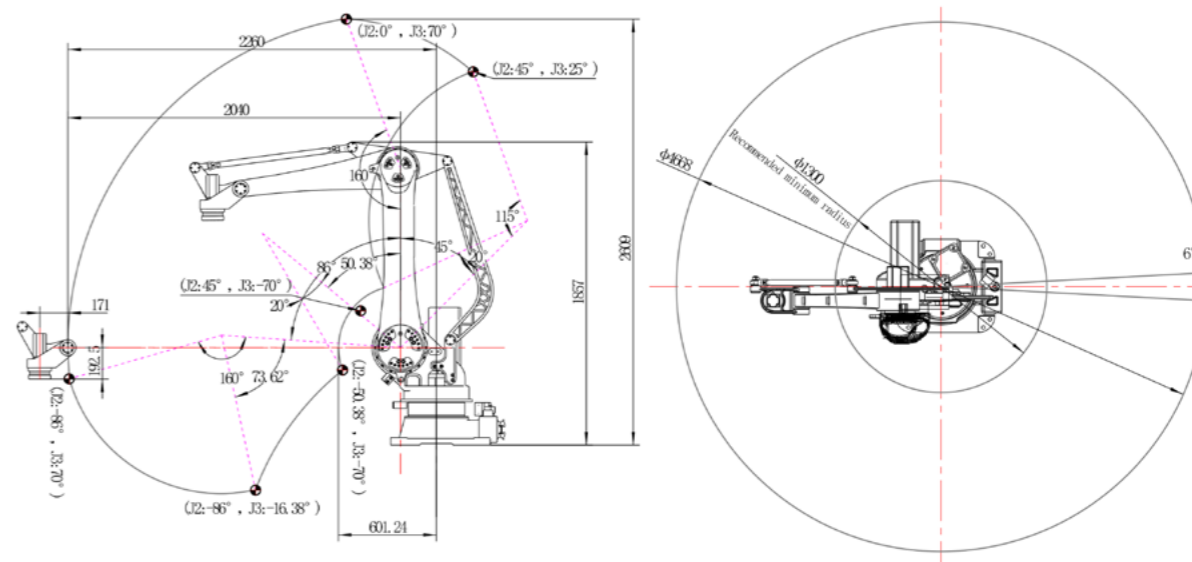
### Application Case

#### Palletizing of materials in bags

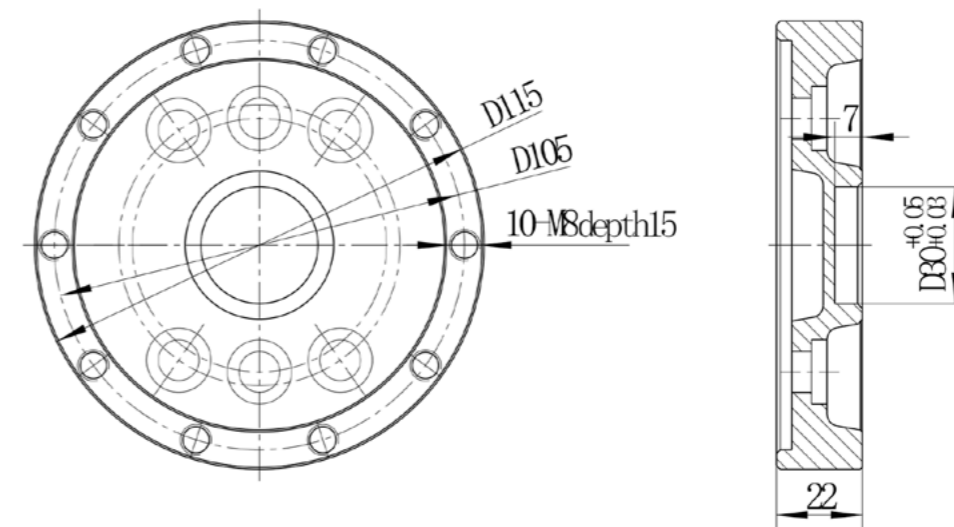
SZGH-B2300-E-4 robot with a 50 kg payload is a medium-duty palletizing robot. Compared with other robots, this robot has a moderate payload and has certain advantages in palletizing height and scope. The figure shows the diagram of the box packaging line handling & palletizing scheme provided for a customer. It can realize handling and palletizing of packaging boxes of medium weight.



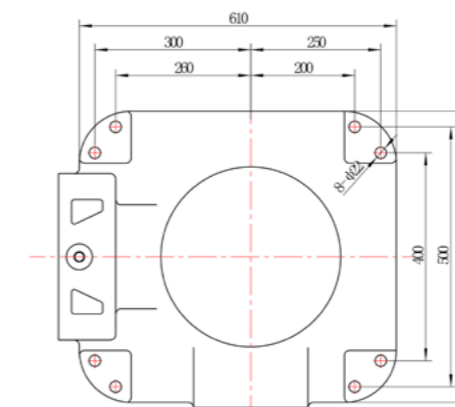
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-B3100-G-4

|                     |                          |           |
|---------------------|--------------------------|-----------|
| Payload             | 165kg                    |           |
| Reach               | 3100mm                   |           |
| Structure           | Articulated              |           |
| Number of axes      | 4                        |           |
| Repeatability       | ±0.2mm                   |           |
| Max. motion range   | Axis 1                   | ±175°     |
|                     | Axis 2                   | +80°/-25° |
|                     | Axis 3                   | +80°/-25° |
|                     | Axis 4                   | ±360°     |
|                     | Axis 5                   | -----     |
|                     | Axis 6                   | -----     |
| Max. speed          | Axis 1                   | 60°/sec   |
|                     | Axis 2                   | 148°/sec  |
|                     | Axis 3                   | 148°/sec  |
|                     | Axis 4                   | 148°/sec  |
|                     | Axis 5                   | -----     |
|                     | Axis 6                   | -----     |
| Weight              | ≈1600KG                  |           |
| Mounting type       | Ground, bracket, ceiling |           |
| Ambient temperature | 5°C ~ 45°C               |           |



### Main Applications

Materials Handling

Parts Transfer

Stacking

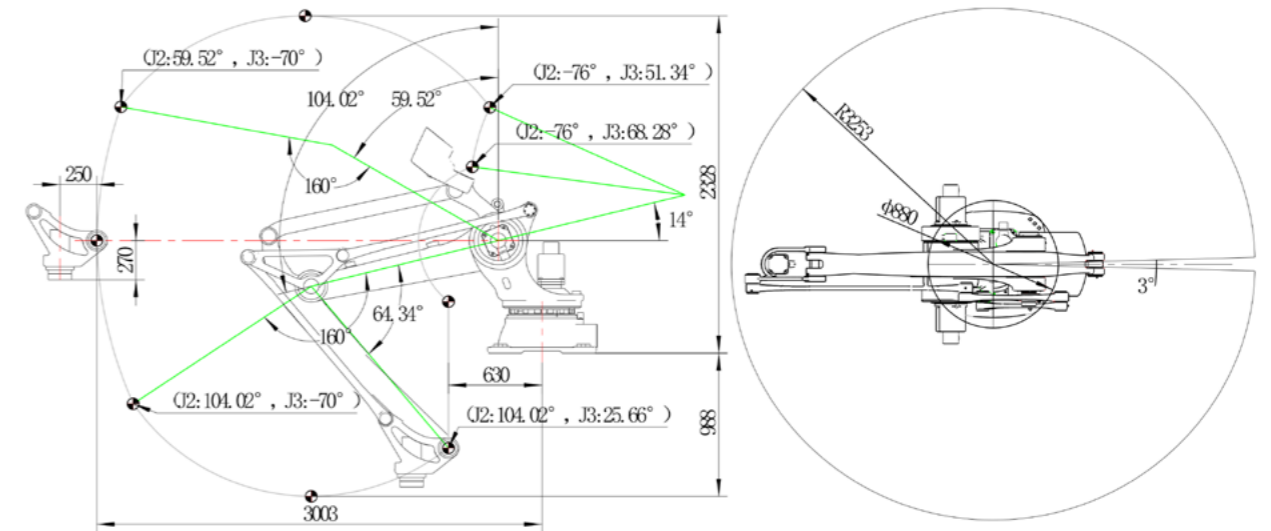
### Application Case

#### Unloading of cast aluminum ingots

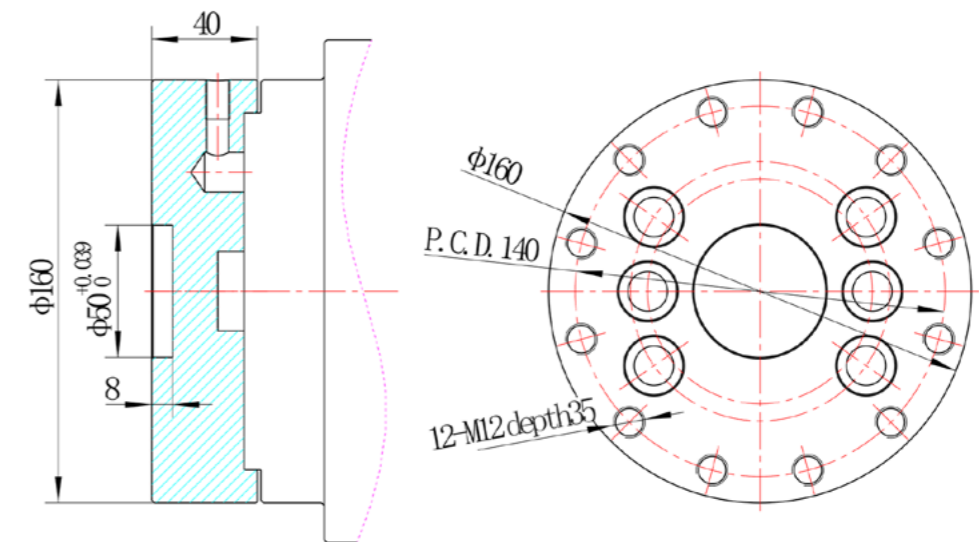
SZGH-B3100-G-4 robot with a 165 kg payload is a heavy-duty palletizing robot widely used in casting shops, production line palletizing and various other applications. The figure shows the loading and unloading equipment provided for an industrial aluminum ingot casting shop. This equipment significantly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



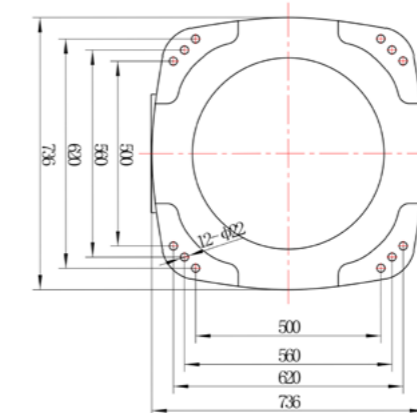
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## 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                   | +120°/-70° |
|                     | Axis 3                   | +60°/-75°  |
|                     | Axis 4                   | ±150°      |
|                     | Axis 5                   | +30°/-240° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 148°/sec   |
|                     | Axis 2                   | 148°/sec   |
|                     | Axis 3                   | 148°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 222°/sec   |
|                     | Axis 6                   | 360°/sec   |
| Weight              | ≈150kg                   |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



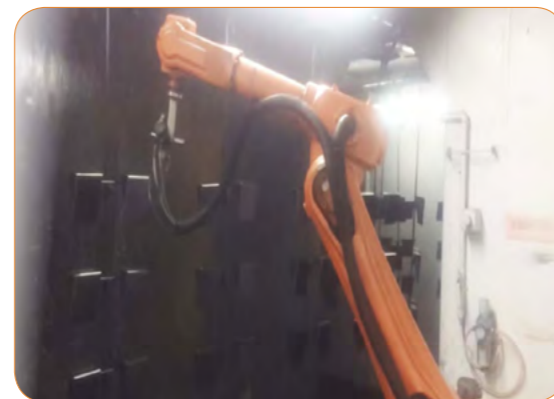
### Main Applications

Painting

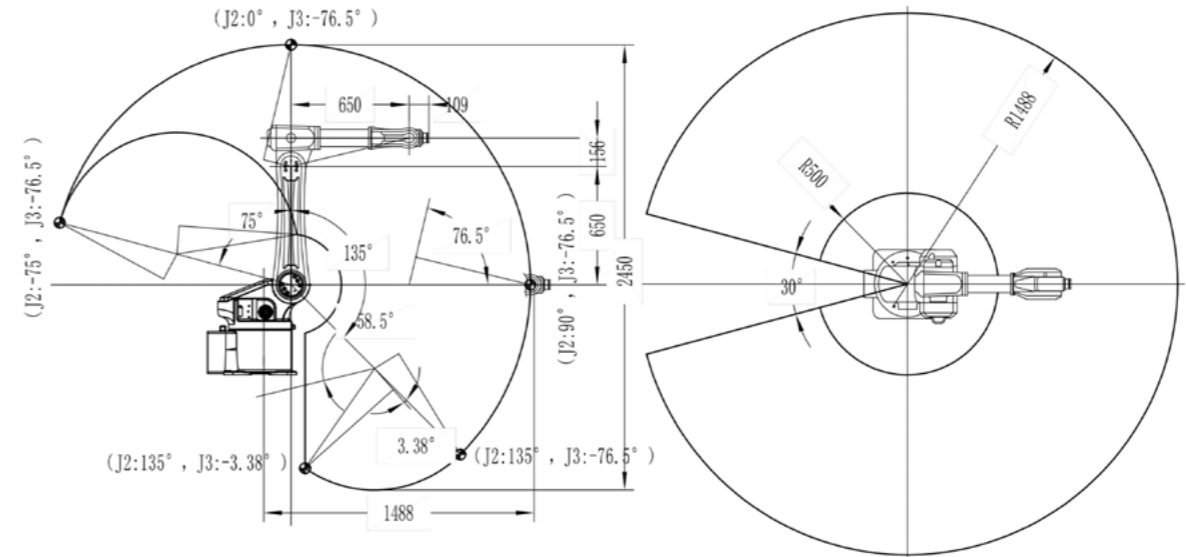
### Application Case

#### Hanging line tracking and painting

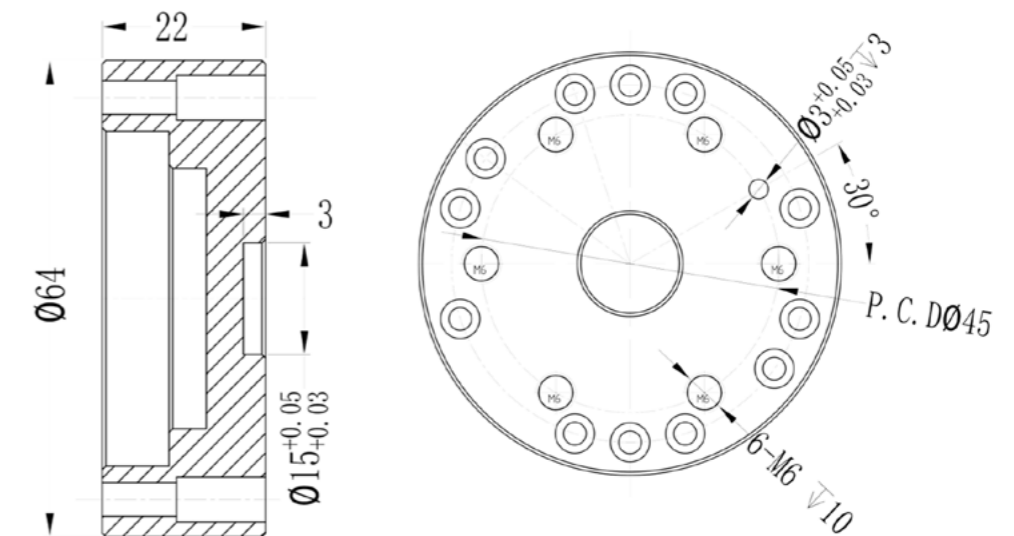
SZGH-P1500-B-6 is the earliest painting robot launched by the company. With a payload of 6 kg and a reach of 1500 mm, it is generally integrated with various non-standard turntables or hanging equipment to form work stations. The figure shows the hanging line tracking and painting solution provided for a customer. It not only significantly reduces labor cost but also improves the yield.



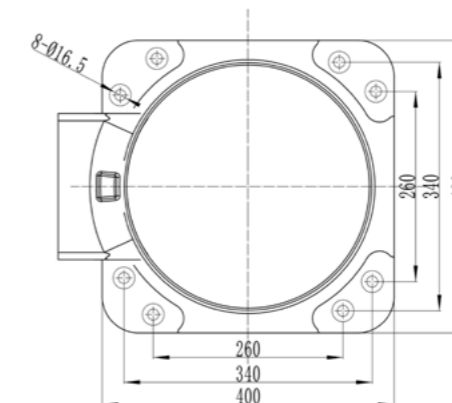
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-P1950-B-6

|                     |                          |            |
|---------------------|--------------------------|------------|
| Payload             | 6KG                      |            |
| Reach               | 1950mm                   |            |
| Structure           | Articulated              |            |
| Number of axes      | 6                        |            |
| Repeatability       | ±0.08mm                  |            |
| Max. motion range   | Axis 1                   | ±165°      |
|                     | Axis 2                   | +135°/-70° |
|                     | Axis 3                   | +60°/-75°  |
|                     | Axis 4                   | ±150°      |
|                     | Axis 5                   | +30°/-240° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 148°/sec   |
|                     | Axis 2                   | 148°/sec   |
|                     | Axis 3                   | 148°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 222°/sec   |
|                     | Axis 6                   | 360°/sec   |
| Weight              | ≈170kg                   |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



### Main Applications

Painting

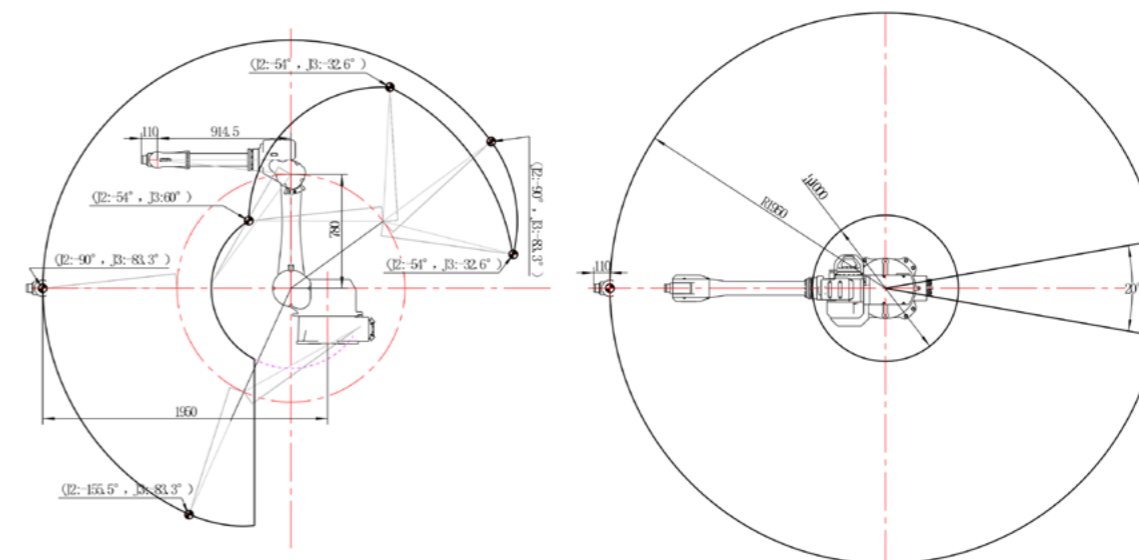
### Application Case

#### Rotary painting of injection molded parts

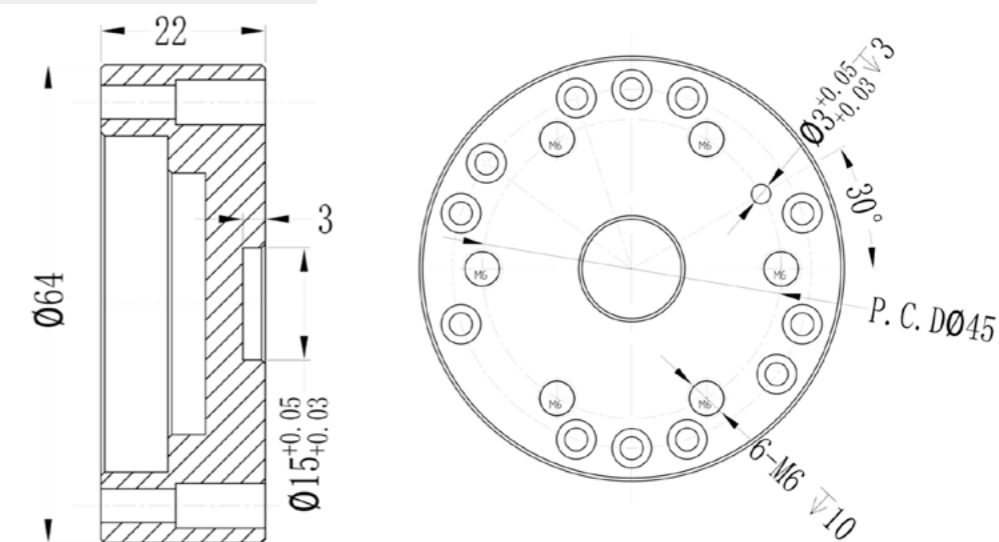
SZGH-P1950-B-6 is a painting robot produced by company. Featuring dust-proof, waterproof and certain advantages in motion range, it is generally used in applications with adverse painting environment and helps improve the employment and working environment of an enterprise significantly.



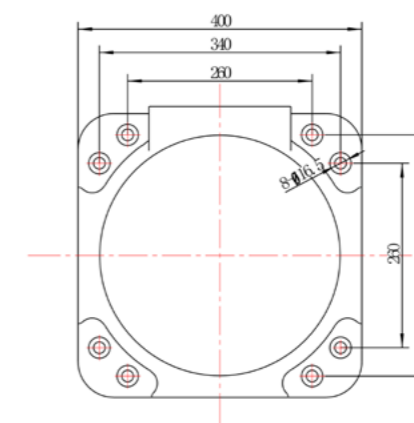
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series**
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series**
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## 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°/-70° |
|                     | Axis 3                   | +85°/-85°  |
|                     | Axis 4                   | ±150°      |
|                     | Axis 5                   | +30°/-240° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 148°/sec   |
|                     | Axis 2                   | 148°/sec   |
|                     | Axis 3                   | 148°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 222°/sec   |
|                     | Axis 6                   | 360°/sec   |
| Weight              | ≈150kg                   |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



### Main Applications

- Automobile
- Metal doors & windows
- Engineering Machinery
- Mining Machinery
- Locomotives
- Electrical Appliances
- Furniture and Other industries

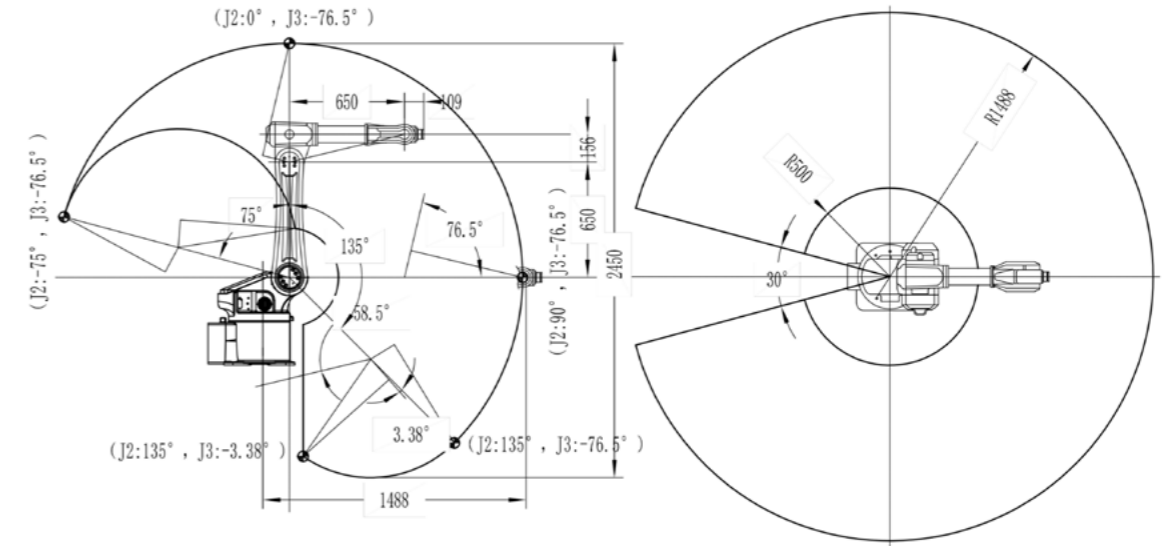
### Application Case

#### Welding station with a positioner

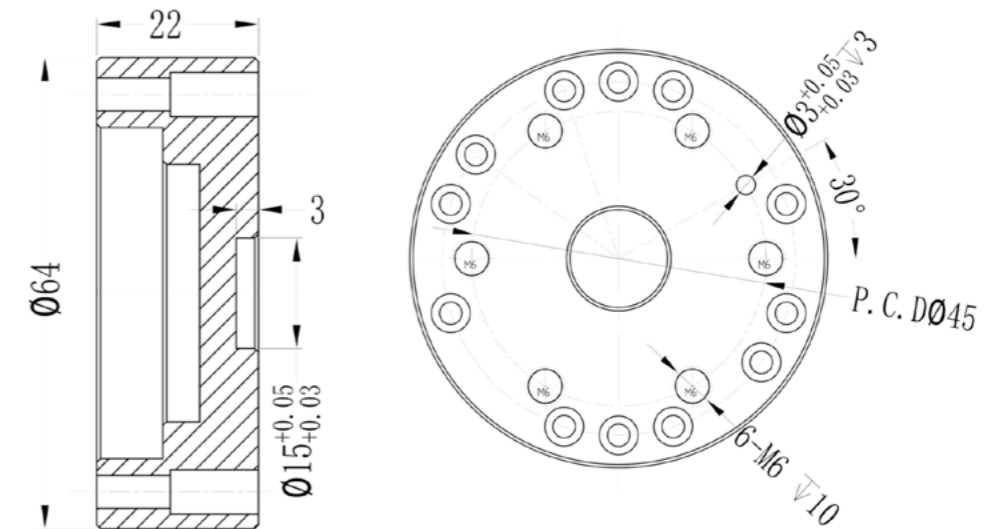
SZGH-H1500-B-6 robot is dedicated to welding. It is a robot developed for more adverse field environment of the customers based on the existing LH1850-B-6 robot. Compared with the previous model, this product has a higher floor space and stabler construction; moreover, there is a fully enclosed axis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



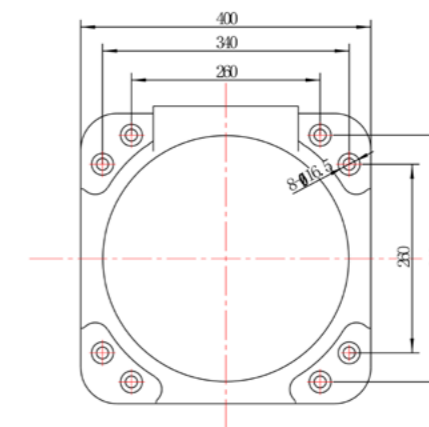
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series**
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series**
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## 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°/-70° |
|                     | Axis 3                   | +85°/-85°  |
|                     | Axis 4                   | ±150°      |
|                     | Axis 5                   | +30°/-240° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 148°/sec   |
|                     | Axis 2                   | 148°/sec   |
|                     | Axis 3                   | 148°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 222°/sec   |
|                     | Axis 6                   | 360°/sec   |
| Weight              | ≈235kg                   |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



### Main Applications

- Automobile
- Metal doors & windows
- Engineering Machinery
- Mining Machinery
- Locomotives
- Electrical Appliances
- Furniture and Other industries

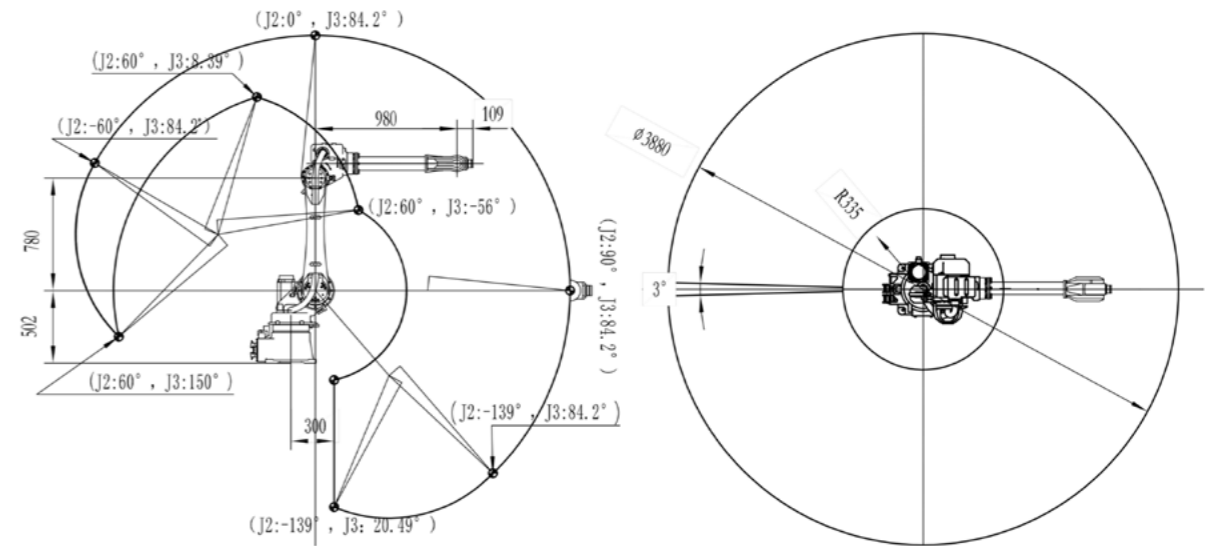
### Application Case

#### Welding of overweight box structure

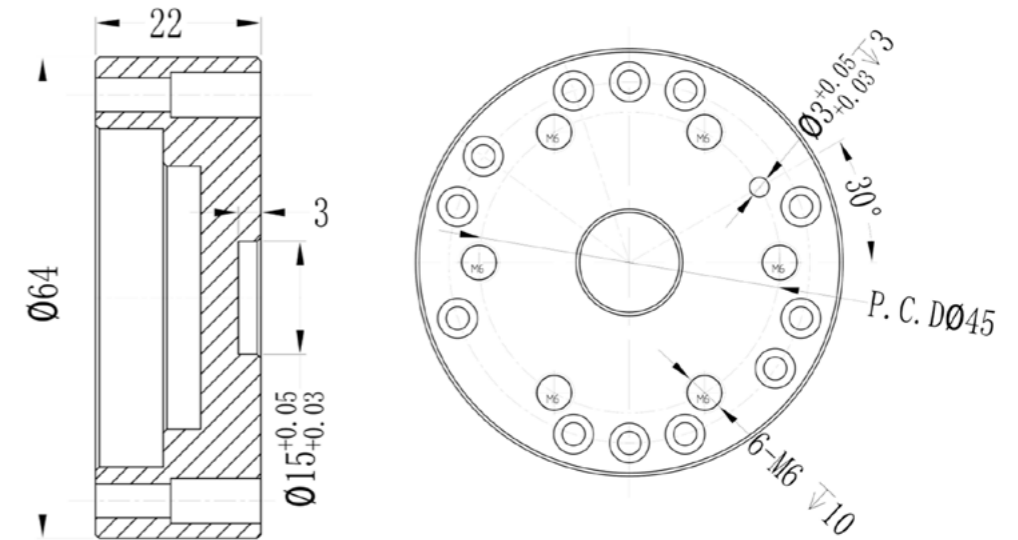
SZGH-H2100-B-6 robot is specially used in the welding field. It is a robot developed by the company based on the existing IH1850-B-6 for the worse on-site environment of customers. Compared with the previous products, this product has a larger installation area and a stable structure, as well as a shaft full sealing structure, which effectively prevents the damage of some welding slag to the robot wire.



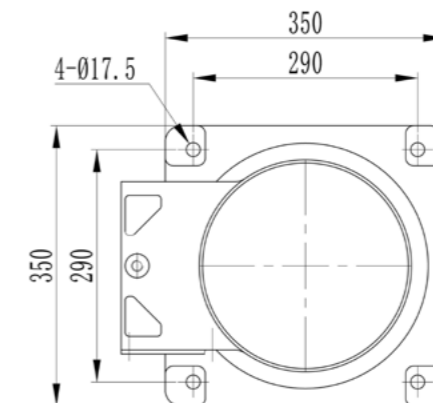
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series**
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series**
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-HZ1500-B-6

|                     |                          |            |
|---------------------|--------------------------|------------|
| Payload             | 6KG                      |            |
| Reach               | 1500mm                   |            |
| Structure           | Articulated              |            |
| Number of axes      | 6                        |            |
| Repeatability       | ±0.08mm                  |            |
| Max. motion range   | Axis 1                   | ±165°      |
|                     | Axis 2                   | +135°/-70° |
|                     | Axis 3                   | +85°/-85°  |
|                     | Axis 4                   | ±150°      |
|                     | Axis 5                   | +30°/-240° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 148°/sec   |
|                     | Axis 2                   | 148°/sec   |
|                     | Axis 3                   | 148°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 222°/sec   |
|                     | Axis 6                   | 360°/sec   |
| Weight              | ≈150kg                   |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



### Main Applications

- Automobile
- Metal doors & windows
- Engineering Machinery
- Mining Machinery
- Locomotives
- Electrical Appliances
- Furniture and Other industries

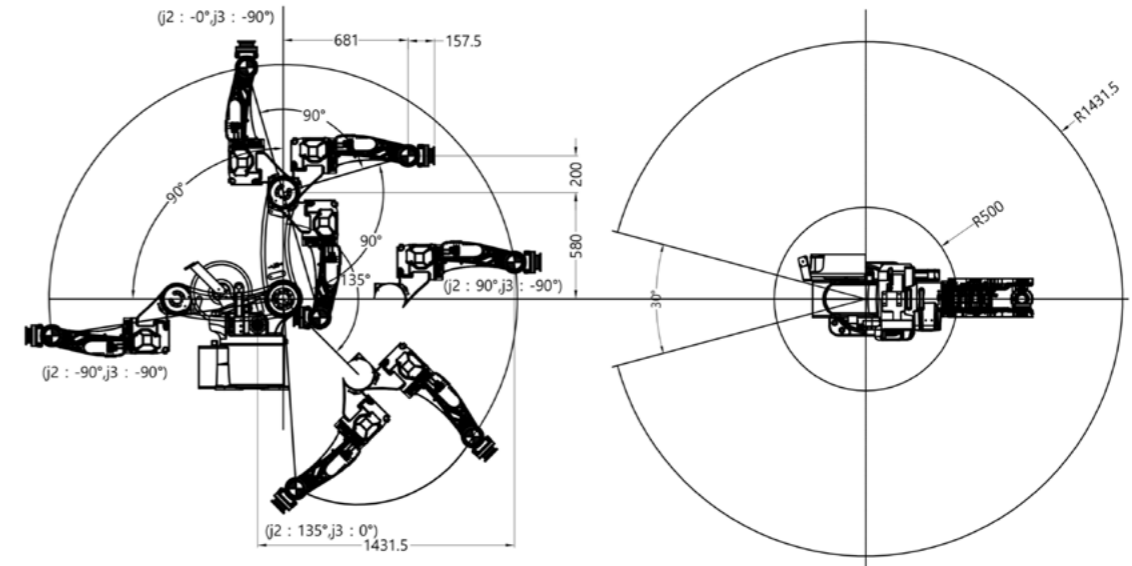
### Application Case

#### Welding station with a positioner

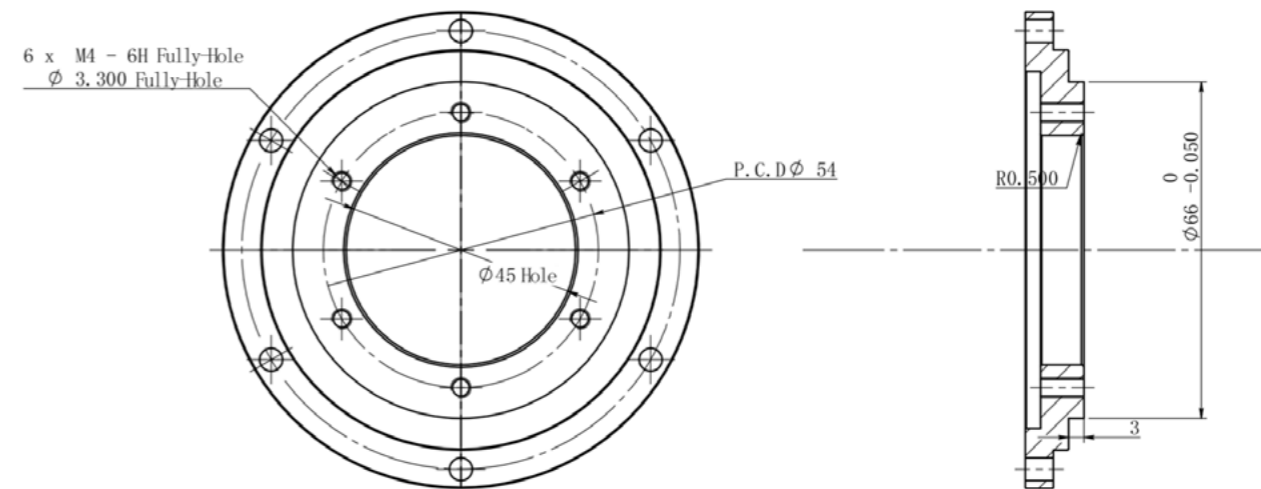
SZGH-HZ1500-B-6 robot is dedicated to welding. It is a robot developed for more adverse field environment of the customers. This product has a higher floor space and stabler construction than ever and there is a fully enclosed axis to effectively prevent welding spatters from damaging cables of the robot.



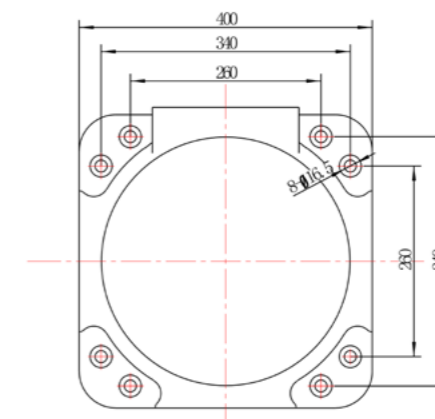
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-HZ2000-B-6

|                     |                          |            |
|---------------------|--------------------------|------------|
| Payload             | 6KG                      |            |
| Reach               | 2000mm                   |            |
| Structure           | Articulated              |            |
| Number of axes      | 6                        |            |
| Repeatability       | ±0.08mm                  |            |
| Max. motion range   | Axis 1                   | ±165°      |
|                     | Axis 2                   | +135°/-70° |
|                     | Axis 3                   | +85°/-85°  |
|                     | Axis 4                   | ±150°      |
|                     | Axis 5                   | +30°/-240° |
|                     | Axis 6                   | ±360°      |
| Max. speed          | Axis 1                   | 148°/sec   |
|                     | Axis 2                   | 148°/sec   |
|                     | Axis 3                   | 148°/sec   |
|                     | Axis 4                   | 222°/sec   |
|                     | Axis 5                   | 222°/sec   |
|                     | Axis 6                   | 360°/sec   |
| Weight              | ≈170kg                   |            |
| Mounting type       | Ground, bracket, ceiling |            |
| Ambient temperature | 5°C ~ 45°C               |            |



### Main Applications

- Automobile
- Metal doors & windows
- Engineering Machinery
- Mining Machinery
- Locomotives
- Electrical Appliances
- Furniture and Other industries

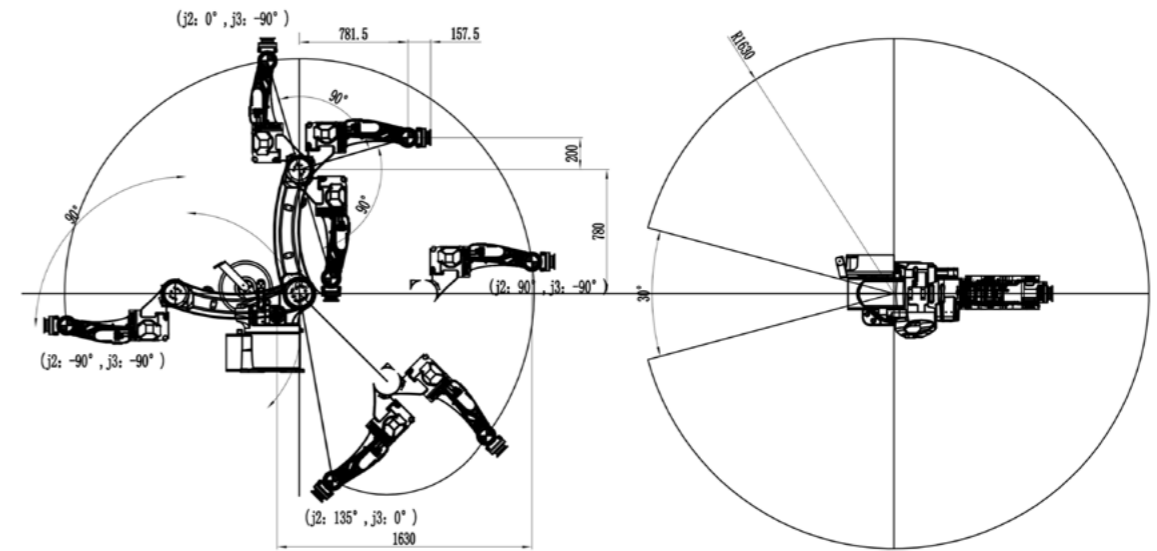
### Application Case

#### Welding station with a positioner

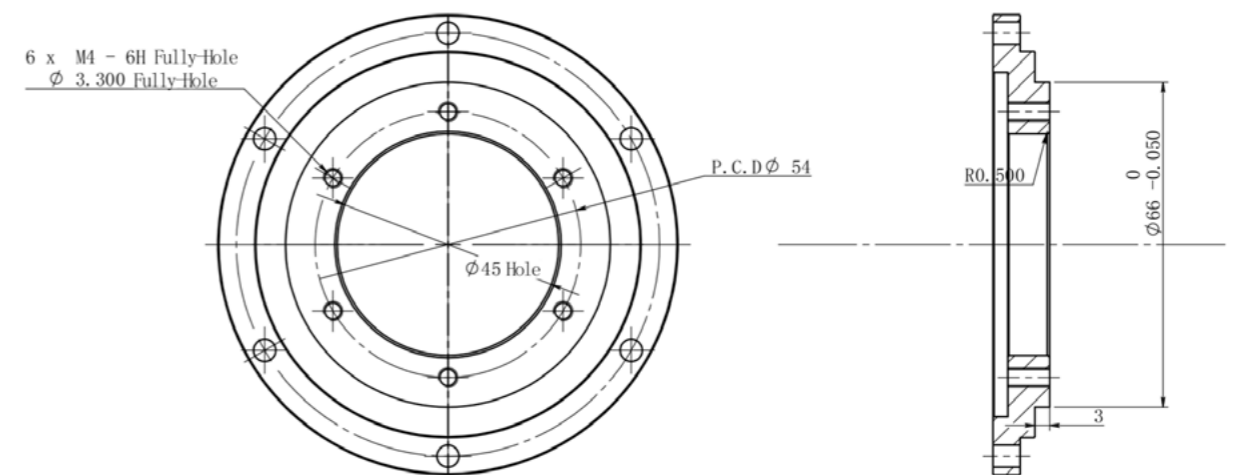
SZGH-HZ2000-B-6 robot is dedicated to welding. It is a robot developed for more adverse field environment of the customers. This product has a higher floor space and stabler construction than ever and there is a fully enclosed axis to effectively prevent welding spatters from damaging cables of the robot.



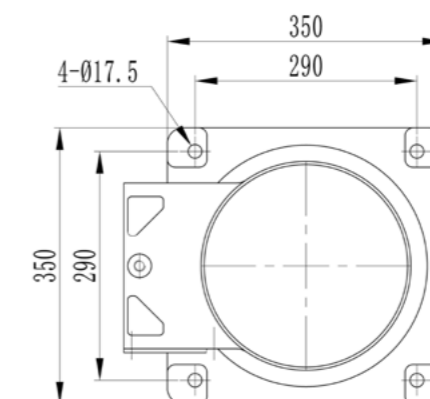
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-S450-B-4

|   |                   |                                    |
|---|-------------------|------------------------------------|
| Payload   |                   | 5KG                                |
| Reach   |                   | 450mm                              |
| Position detection  |                   | Absolute value servo               |
| Supply voltage  |                   | 220V 50/60HZ                       |
| Mounting type   |                   | Horizontal                         |
| Body weight   |                   | 29KG                               |
| Max. motion range   | Axis 1            | ±125°                              |
|   | Axis 2            | ±145°                              |
|   | Axis 3            | ±360°                              |
|   | Axis 4            | +100/-80mm                         |
| Max. speed (rated state)                                    | Axis 1            | 360°/s                             |
|   | Axis 2            | 360°/s                             |
|   | Axis 3            | 720°/s                             |
|   | Axis 4            | 800mm/s                            |
| Repeatability   |                   | +0.03mm                            |
| Max. input of air pipe value                                | Positive pressure | 8kg/cm <sup>2</sup>                |
|   | Negative pressure | 1kg/cm <sup>2</sup>                |
| Ambient temperature   |                   | 5°C ~ 45°C                         |
| Ambient humidity  |                   | Within 10% ~ 80% (no condensation) |
| Arm weight (excluding electric cabinet and extension cable) |                   | ≈15KG                              |
| I / O line of arm body                                      |                   | 0.2 * 5 core                       |
| Tracheal interface of arm body                              |                   | 6*2                                |



### Main Applications

- Materials Handling
- Parts transmission
- Stacking and dispensing

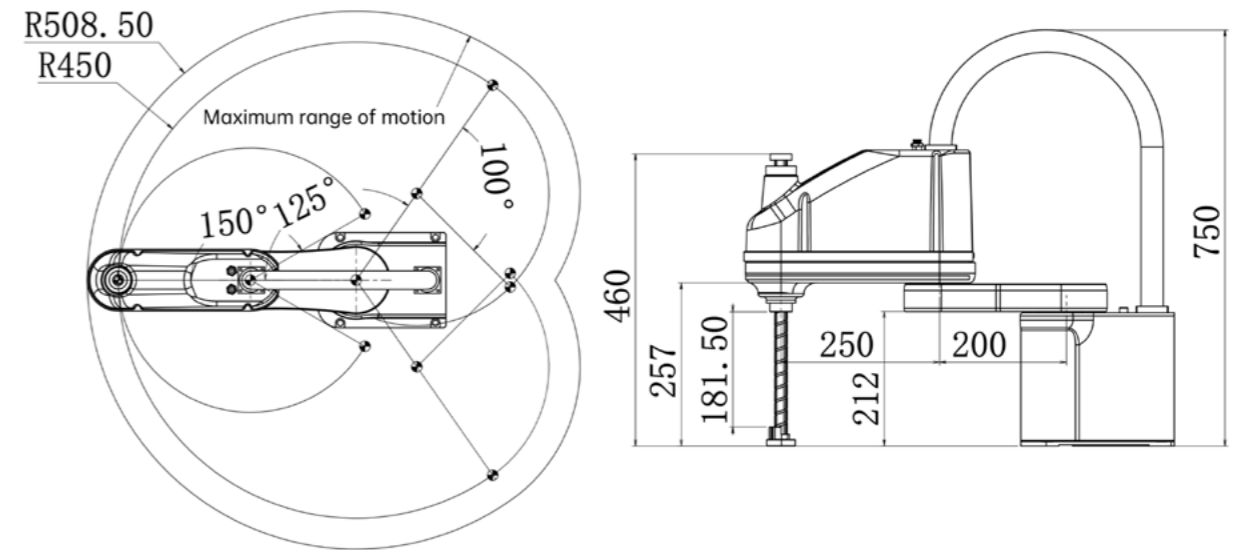
### Application Case

#### Quick sorting of parts

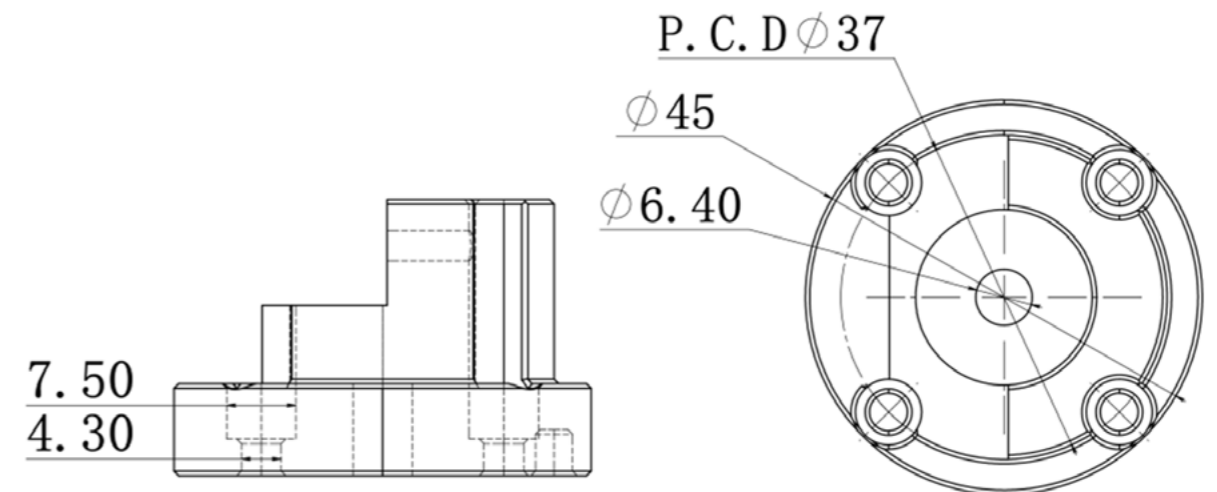
SZGH-S450-B-4 is a small horizontal joint robot, with flexible and fast in the horizontal direction, high rigidity in the vertical direction, small footprint, high cost performance characteristics, widely used in rapid sorting, precision assembly and other 3C industry, food industry and other fields, the picture is for the chemical industry for material sorting and palleting.



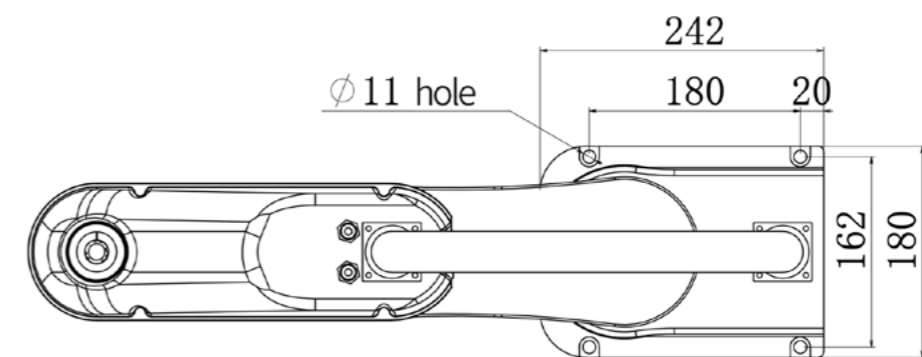
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots**
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots**
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-S600-B-4

|   |                   |                                    |
|---|-------------------|------------------------------------|
| Payload   |                   | 5KG                                |
| Reach   |                   | 600mm                              |
| Position detection  |                   | Absolute value servo               |
| Supply voltage  |                   | 220V 50/60HZ                       |
| Mounting type   |                   | Horizontal                         |
| Body weight   |                   | 29KG                               |
| Max. motion range   | Axis 1            | ±125°                              |
|   | Axis 2            | ±145°                              |
|   | Axis 3            | ±360°                              |
|   | Axis 4            | +100/-80mm                         |
| Max. speed (rated state)                                    | Axis 1            | 360°/s                             |
|   | Axis 2            | 360°/s                             |
|   | Axis 3            | 720°/s                             |
|   | Axis 4            | 800mm/s                            |
| Repeatability   |                   | +0.03mm                            |
| Max. input of air pipe value                                | Positive pressure | 8kg/cm <sup>2</sup>                |
|   | Negative pressure | 1kg/cm <sup>2</sup>                |
| Ambient temperature   |                   | 5°C ~ 45°C                         |
| Ambient humidity  |                   | Within 10% ~ 80% (no condensation) |
| Arm weight (excluding electric cabinet and extension cable) |                   | ≈20KG                              |
| I / O line of arm body                                      |                   | 0.2*5 core                         |
| Tracheal interface of arm body                              |                   | 6*2                                |



### Main Applications

- Materials Handling
- Parts transmission
- Stacking and dispensing

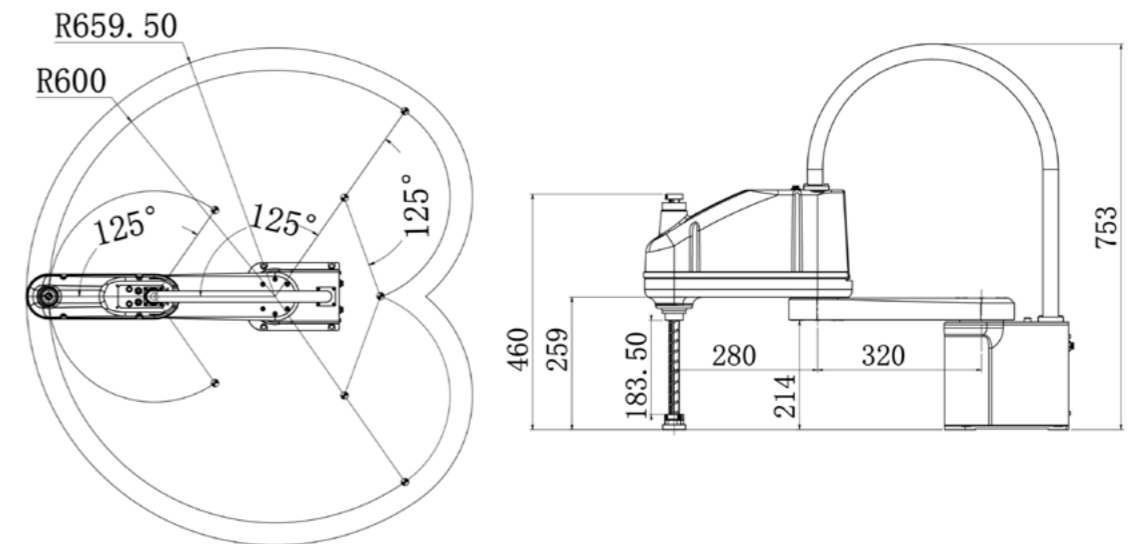
### Application Case

#### Quick sorting of parts

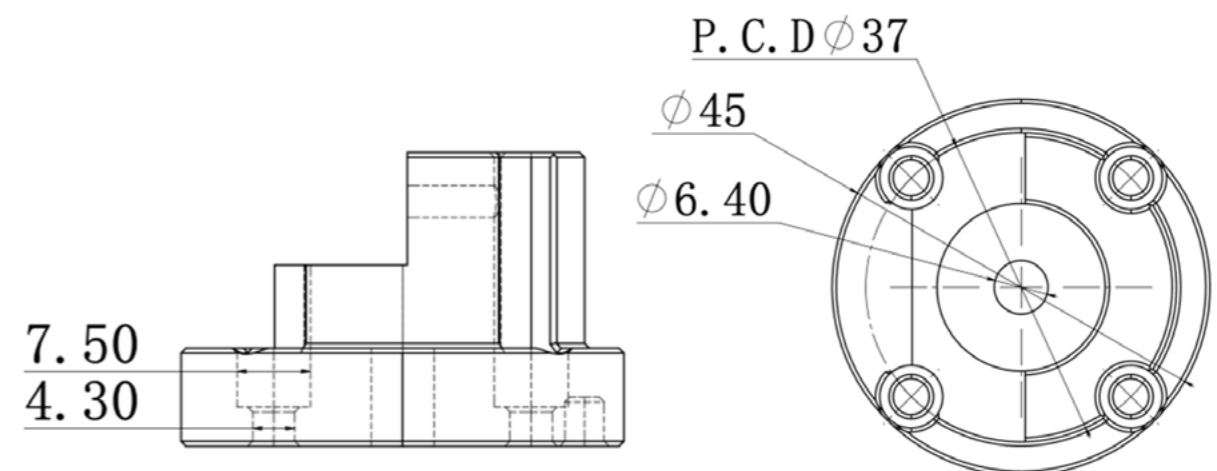
SZGH-S600-B-4 is a small horizontal joint robot, with flexible and fast in the horizontal direction, high rigidity in the vertical direction, small footprint, high cost performance characteristics, widely used in rapid sorting, precision assembly and other 3C industry, food industry and other fields, the picture is for the chemical industry for material sorting and palleting.



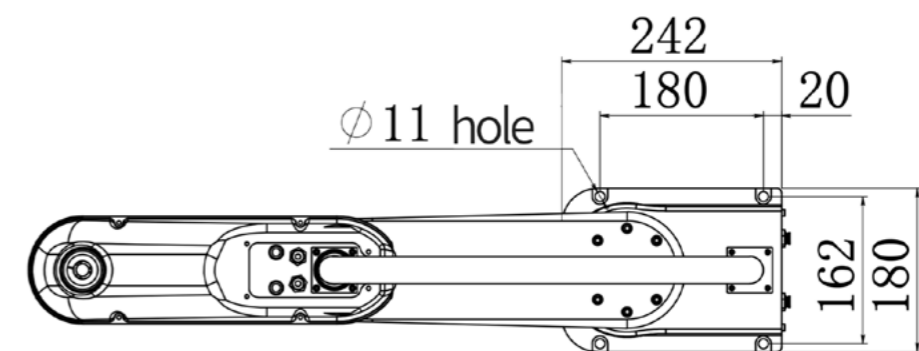
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots**
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots**
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-S800-B-4

|   |                   |                                    |
|---|-------------------|------------------------------------|
| Payload   |                   | 8KG                                |
| Reach   |                   | 800mm                              |
| Position detection  |                   | Absolute value servo               |
| Supply voltage  |                   | 220V 50/60HZ                       |
| Mounting type   |                   | Horizontal                         |
| Body weight   |                   | 29KG                               |
| Max. motion range   | Axis 1            | ±125°                              |
|   | Axis 2            | ±145°                              |
|   | Axis 3            | ±360°                              |
|   | Axis 4            | +100/-80mm                         |
| Max. speed (rated state)                                    | Axis 1            | 360°/s                             |
|   | Axis 2            | 360°/s                             |
|   | Axis 3            | 720°/s                             |
|   | Axis 4            | 800mm/s                            |
| Repeatability   |                   | +0.03mm                            |
| Max. input of air pipe value                                | Positive pressure | 8kg/cm <sup>2</sup>                |
|   | Negative pressure | 1kg/cm <sup>2</sup>                |
| Ambient temperature   |                   | 5°C ~ 45°C                         |
| Ambient humidity  |                   | Within 10% ~ 80% (no condensation) |
| Arm weight (excluding electric cabinet and extension cable) |                   | ≈20KG                              |
| I / O line of arm body                                      |                   | 0.2*5 core                         |
| Tracheal interface of arm body                              |                   | 6*2                                |



### Main Applications

- Materials Handling
- Parts transmission
- Stacking and dispensing

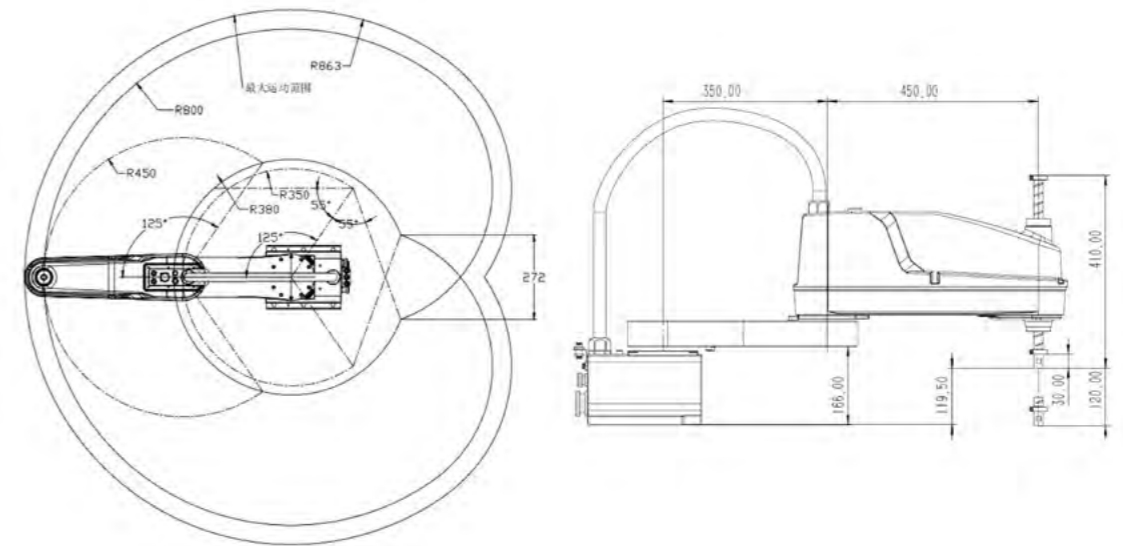
### Application Case

#### Quick sorting of parts

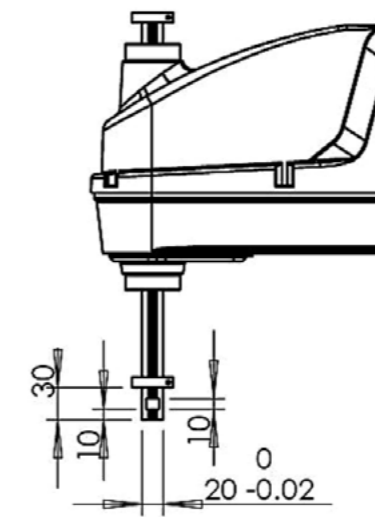
SZGH-S800-B-4 is a small horizontal joint robot, with flexible and fast in the horizontal direction, high rigidity in the vertical direction, small footprint, high cost performance characteristics, widely used in rapid sorting, precision assembly and other 3C industry, food industry and other fields, the picture is for the chemical industry for material sorting and palleting.



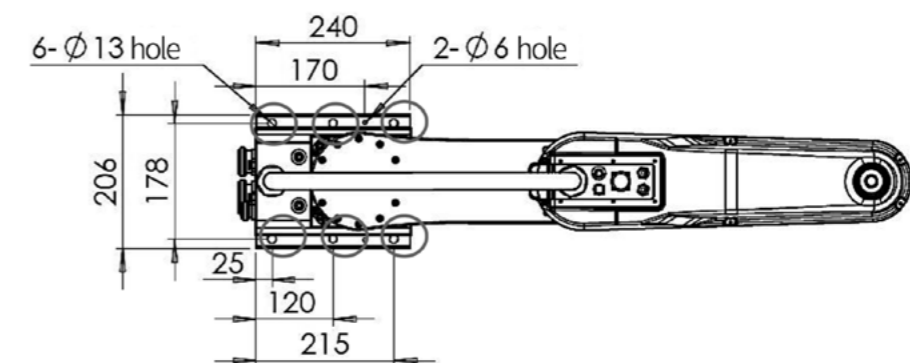
### Robot Motion Range



### Robot Flange Connection



### Robot Base Installation



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-Arm-1832

|                                     |                |                                    |
|-------------------------------------|----------------|------------------------------------|
| Axes                                | 4              |                                    |
| Standard Load                       | 0.5kg          |                                    |
| Max Load                            | 1kg            |                                    |
| Weight                              | 11kg           |                                    |
| Overall height                      | 500mm          |                                    |
| Repeatability(mm)                   | ±0.02          |                                    |
| 1 axis                              | Arm length     | 160mm                              |
|                                     | Rotation angle | ± 90°                              |
| 2 axis                              | Arm length     | 160mm                              |
|                                     | Rotation angle | ± 143°                             |
| Z axis                              | Travel         | 180mm<br>(Highly customizable)     |
| R axis                              | Rotation range | ± 1080°                            |
| Line speed(mm/s)                    |                | 1017                               |
| Power supply                        |                | 220V / 110V                        |
| Peak Power(W)                       |                | 320                                |
| Communication                       |                | Ethernet/Wi-Fi                     |
| Z axis can be customized height(mm) |                | 100~500                            |
| Dimensions of the base(mm)          |                | 200*200*10                         |
| Base fixing hole spacing            |                | 160mm*160mm with four M5*12 screws |
| Collision Detection                 |                | Yes                                |
| Drag to teach                       |                | Yes                                |
| Ambient temperature                 |                | 0~55 °C                            |
| Operating Humidity                  |                | RH85 (no frosting)                 |



### Main Applications

- Materials Handling
- Laser engraving
- Sorting
- 3D printing
- Labeling
- Dispensing

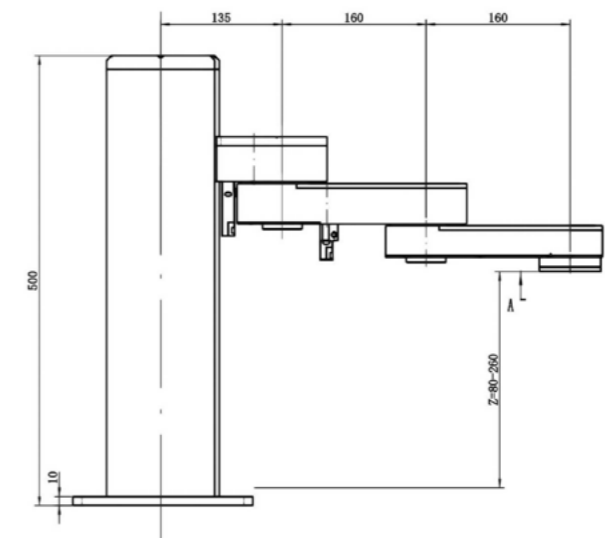
### Application Case

#### Fully automatic cup splitting equipment

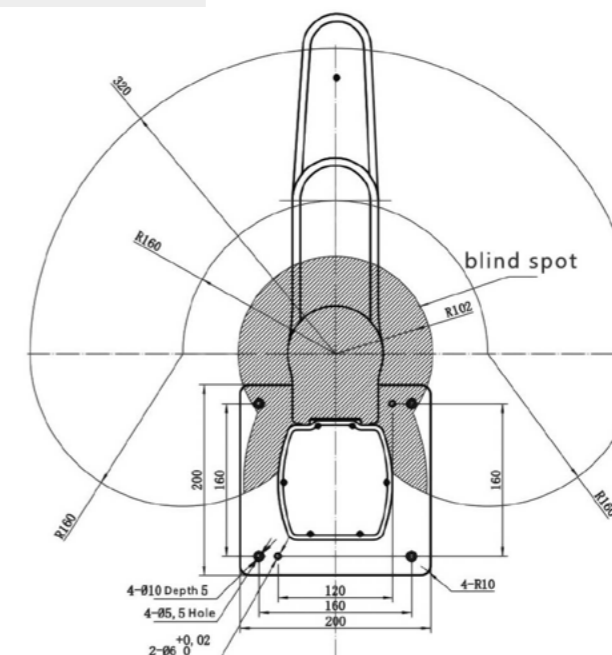
SZGH-Arm-1832 is an integrated four-axis cooperative robot, small, flexible, fast and accurate. As shown in the figure, it is an automatic cup splitting equipment used by our clients to realize automatic nucleic acid detection, which can realize the functions of scanning, opening, pipetting, closing and coding plates of petri dishes.



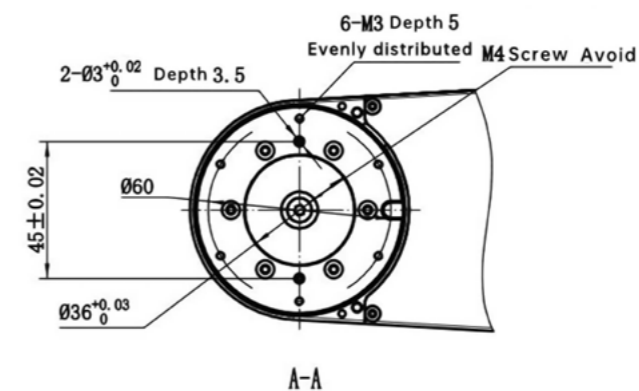
### Robot Overall Dimensions



### Robot Motion Range



### Robot End Flange



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots**
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots**
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-Arm 2442

|                                     |                |  |
|-------------------------------------|----------------|--|
| Axes                                |                | 4  |
| Standard Load                       |                | 2kg  |
| Max Load                            |                | 3kg  |
| Weight                              |                | 19kg   |
| Overall height                      |                | 596mm  |
| Repeatability(mm)                   |                | ±0.03  |
| 1 axis                              | Arm length     | 220mm  |
|                                     | Rotation angle | + 90°  |
| 2 axis                              | Arm length     | 200mm  |
|                                     | Rotation angle | ± 164°   |
| Z axis                              | Travel         | 240mm<br>(Highly customizable)                                 |
| R axis                              | Rotation range | ±1080°(With mechanical limit)/ ±170°(without mechanical limit) |
| Line speed(mm/s)                    |                | 1220   |
| Power supply                        |                | 220V / 110V  |
| Peak Power(W)                       |                | 500  |
| Communication                       |                | Ethernet/Wi-Fi   |
| Z axis can be customized height(mm) |                | 100-1000   |
| Dimensions of the base(mm)          |                | 200*200*10   |
| Base fixing hole spacing            |                | 160mm*160mm with four M8*20 screws                             |
| Collision Detection                 |                | Yes  |
| Drag to teach                       |                | Yes  |
| Ambient temperature                 |                | 0~55 °C  |
| Operating Humidity                  |                | RH85 (no frosting)   |



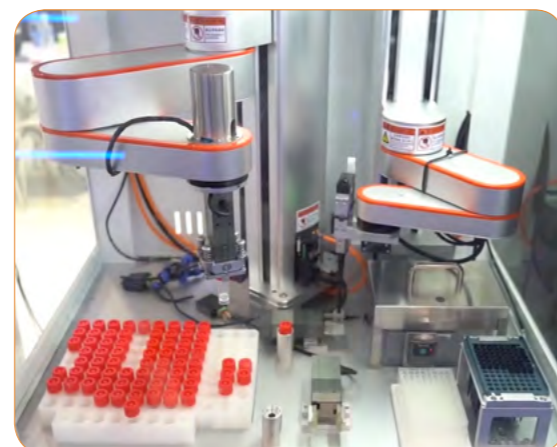
### Main Applications

- Materials Handling
- Laser engraving
- 3D printing
- Dispensing
- Sorting
- Labeling

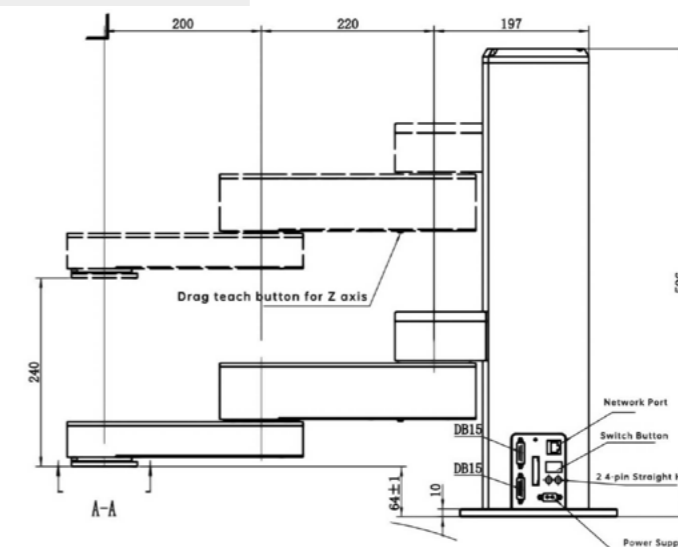
### Application Case

#### Fully automatic cup splitting equipment

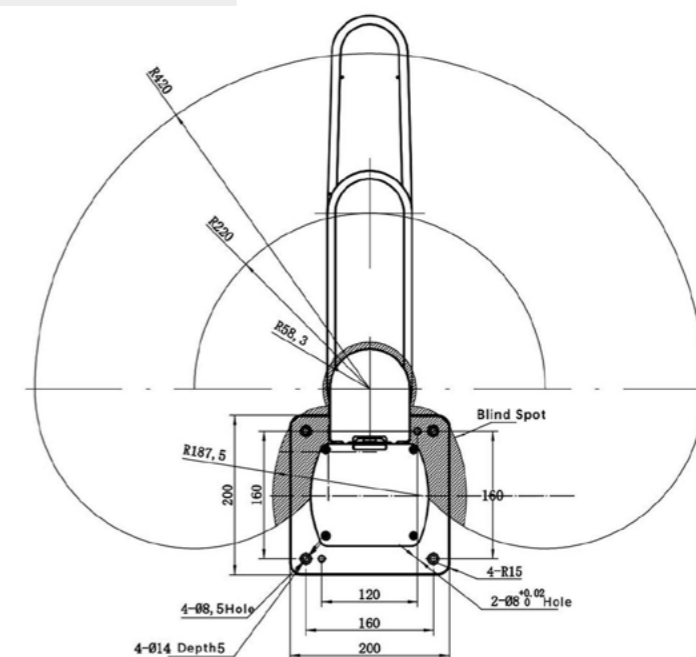
SZGH-Arm-2442 is an integrated four-axis cooperative robot, with 420mm larger arm span, more powerful performance. As shown in the figure, it is an automatic cup splitting equipment used by our clients to realize automatic nucleic acid detection, which can realize the functions of scanning, opening, pipetting, closing and coding plates of petri dishes.



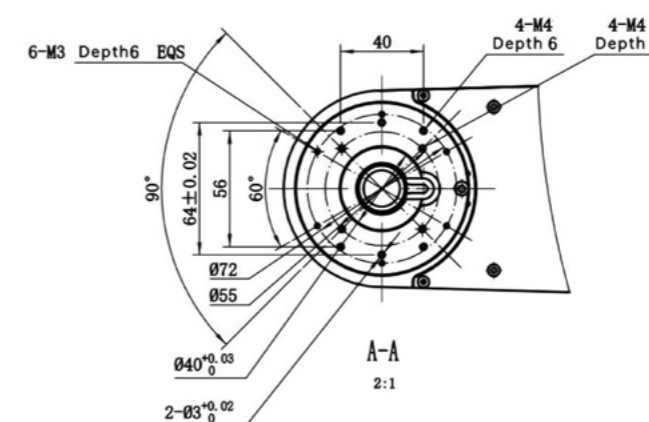
### Robot Overall Dimensions



### Robot Motion Range



### Robot End Flange

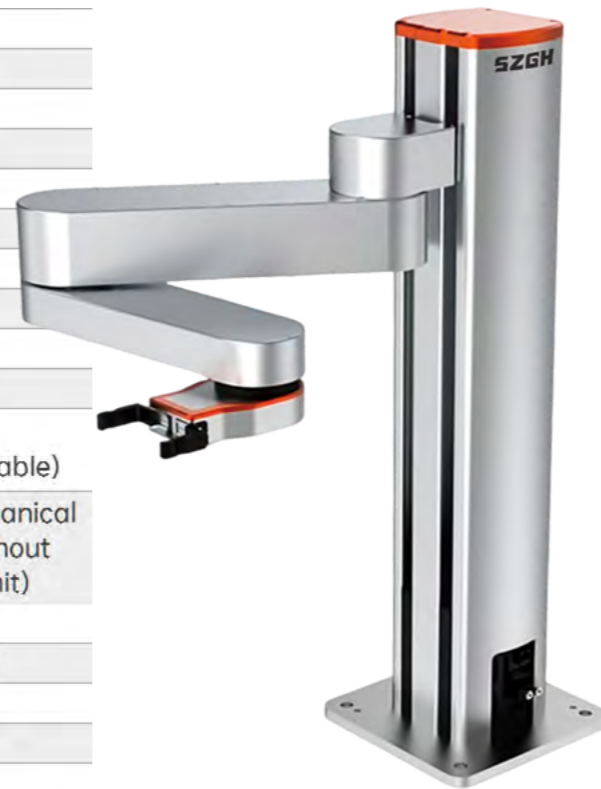


- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots**
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots**
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## SZGH-Arm-4160

|                                     |                |  |
|-------------------------------------|----------------|--|
| Axes                                |                | 4  |
| Standard Load                       |                | 3kg  |
| Max Load                            |                | 3.5kg  |
| Weight                              |                | 28kg   |
| Overall height                      |                | 830mm  |
| Repeatability(mm)                   |                | ±0.05  |
| 1 axis                              | Arm length     | 325mm  |
|                                     | Rotation angle | ± 90°  |
| 2 axis                              | Arm length     | 275mm  |
|                                     | Rotation angle | ± 164°   |
| Z axis                              | Travel         | 410mm<br>(Highly customizable)                                 |
| R axis                              | Rotation range | ±1080°(With mechanical limit)/ ±170°(without mechanical limit) |
| Line speed(mm/s)                    |                | 1500   |
| Power supply                        |                | 220V / 110V  |
| Peak Power(W)                       |                | 960  |
| Communication                       |                | Ethernet   |
| Z axis can be customized height(mm) |                | 100-1000   |
| Dimensions of the base(mm)          |                | 250*250*15   |
| Base fixing hole spacing            |                | 200mm*200mm with four M8*20 screws                             |
| Collision Detection                 |                | No   |
| Drag to teach                       |                | No   |
| Ambient temperature                 |                | 0~55 °C  |
| Operating Humidity                  |                | RH85 (no frosting)   |



### Main Applications

- Materials Handling
- Laser engraving
- Sorting
- 3D printing
- Labeling
- Dispensing

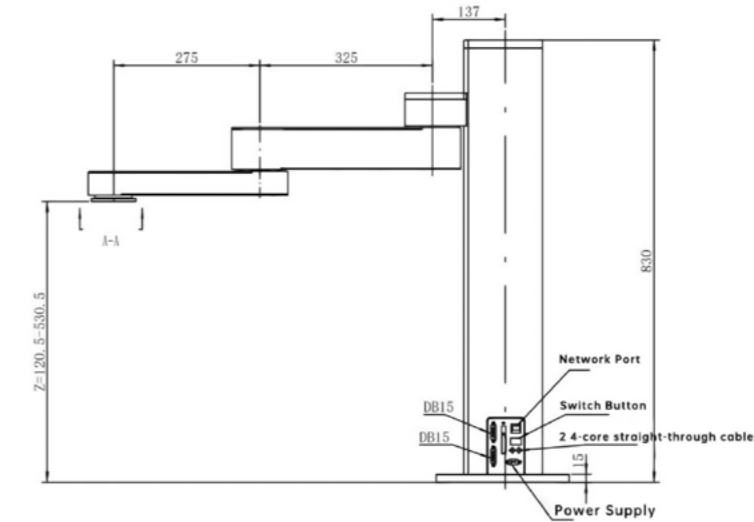
### Application Case

#### Fully automatic cup splitting equipment

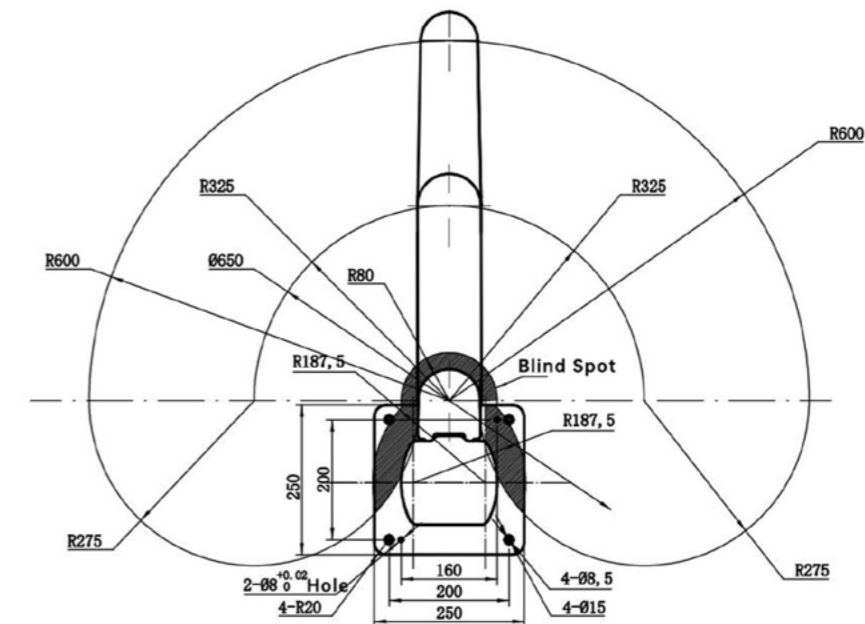
SZGH-Arm-4160 is a one-piece four-axis robot with a 600mm arm span and a 3.5kg load. As shown in the figure, it is an automatic cup splitting equipment used by our clients to realize automatic nucleic acid detection, which can realize the functions of scanning, opening, pipetting, closing and coding plates of petri dishes.



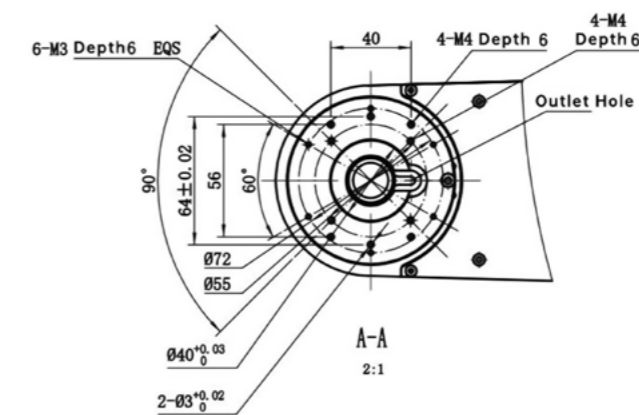
### Robot Overall Dimensions



### Robot Motion Range



### Robot End Flange



- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots**
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

- SZGH-T General-purpose Series
- SZGH-M Grinding Series
- SZGH-B Handling Series
- SZGH-P Painting Series
- SZGH-H Welding Series
- SZGH-S Scara Robots
- SZGH-Arm Four-axis cooperative Robots**
- Positioners
- Robot walking slide rail
- Control System
- Application display and technical support

## 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°C ~ 80°C |       |



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.

### Main Applications

Welding

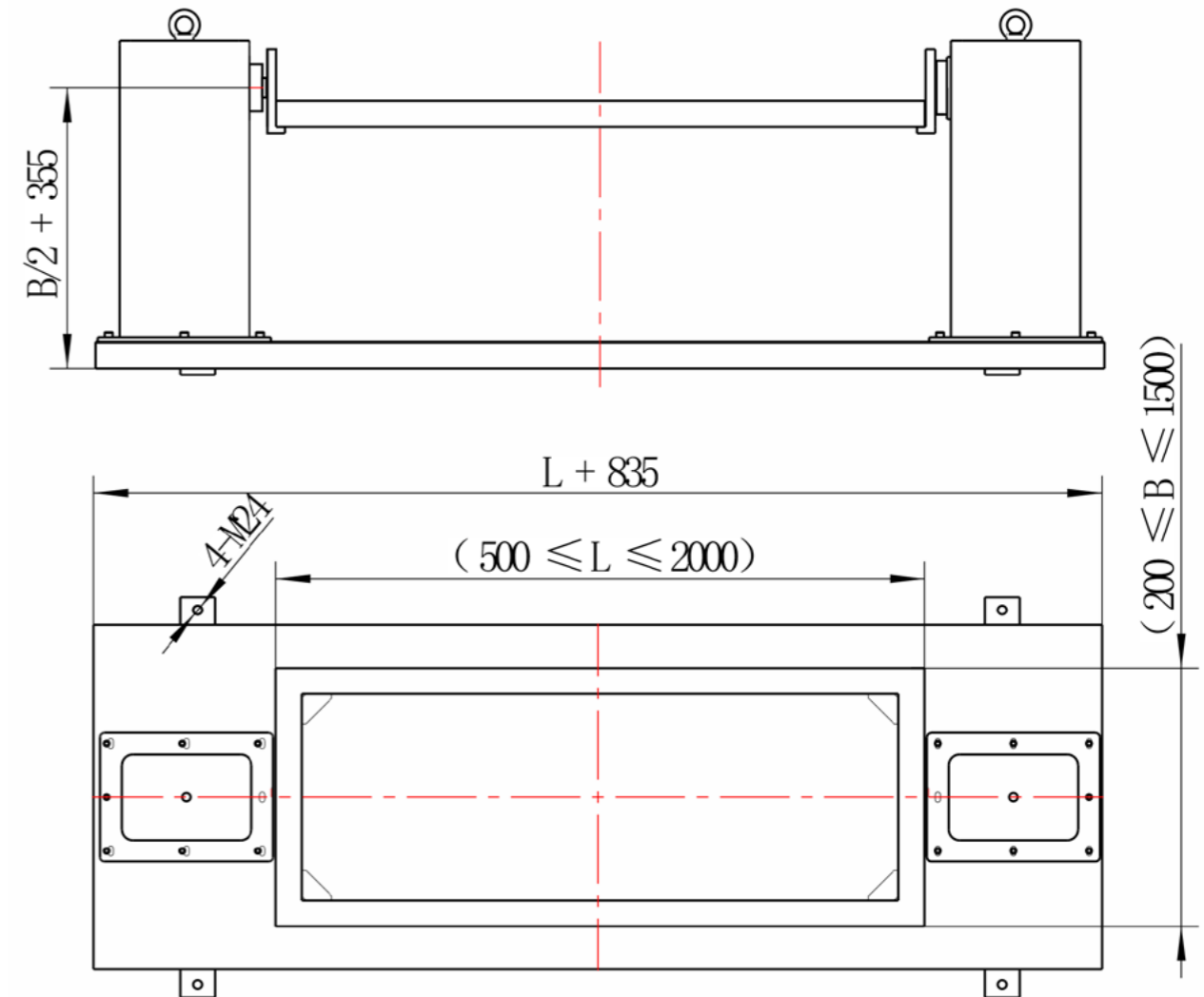
### Application Case

#### 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.



### Positioner Overall Dimensions



|   |
|---|
| SZGH-T<br>General-purpose<br>Series             |
| SZGH-M<br>Grinding Series                       |
| SZGH-B<br>Handling Series                       |
| SZGH-P<br>Painting Series                       |
| SZGH-H<br>Welding Series                        |
| SZGH-S<br>Scara Robots                          |
| SZGH-Arm<br>Four-axis<br>cooperative Robots     |
| <b>Positioners</b>                              |
| Robot walking<br>slide rail                     |
| Control System                                  |
| Application display<br>and technical<br>support |

|   |
|---|
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| SZGH-S<br>Scara Robots                          |
| SZGH-Arm<br>Four-axis<br>cooperative Robots     |
| <b>Positioners</b>                              |
| Robot walking<br>slide rail                     |
| Control System                                  |
| Application display<br>and technical<br>support |

## Two-axis positioner



### Main Applications

Welding

Dispensing

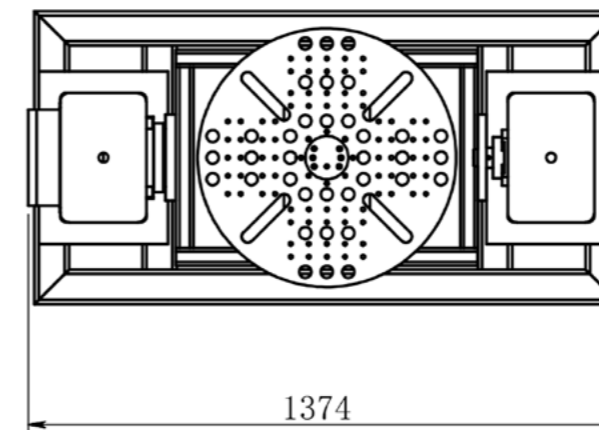
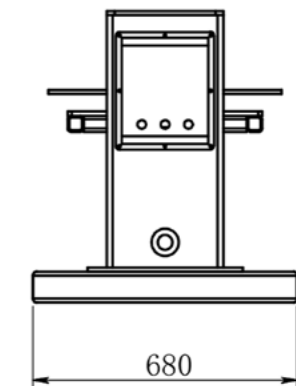
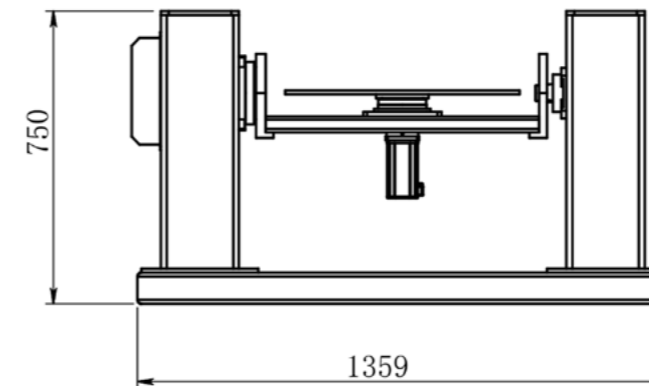
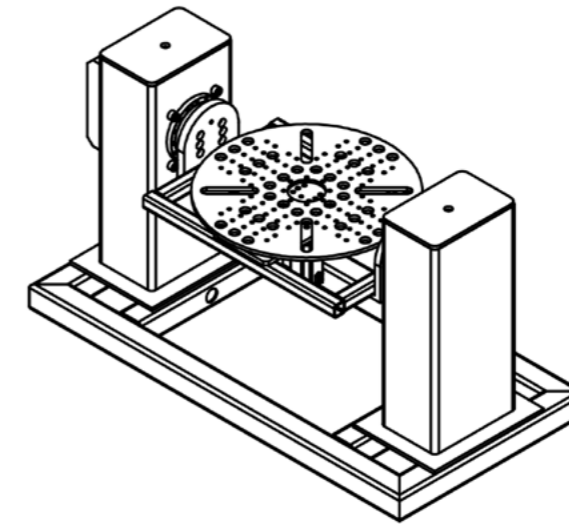
### Application Case

#### Welding of complicated irregular parts

Two-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 horizontal direction and vertical direction and work in combination with welding robots, thereby significantly expanding the types of parts the robots can weld. The figure is the proofing process we showed for clients, in which the two-axis positioner is used together with the welding robot for the welding of the cuboid workpiece.



### Positioner Overall Dimensions



|   |
|---|
| SZGH-T<br>General-purpose<br>Series             |
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| SZGH-H<br>Welding Series                        |
| SZGH-S<br>Scara Robots                          |
| SZGH-Arm<br>Four-axis<br>cooperative Robots     |
| <b>Positioners</b>                              |
| Robot walking<br>slide rail                     |
| Control System                                  |
| Application display<br>and technical<br>support |

|   |
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| SZGH-S<br>Scara Robots                          |
| SZGH-Arm<br>Four-axis<br>cooperative Robots     |
| <b>Positioners</b>                              |
| Robot walking<br>slide rail                     |
| Control System                                  |
| Application display<br>and technical<br>support |

## Two-axis positioner



### Main Applications

Welding    Dispensing

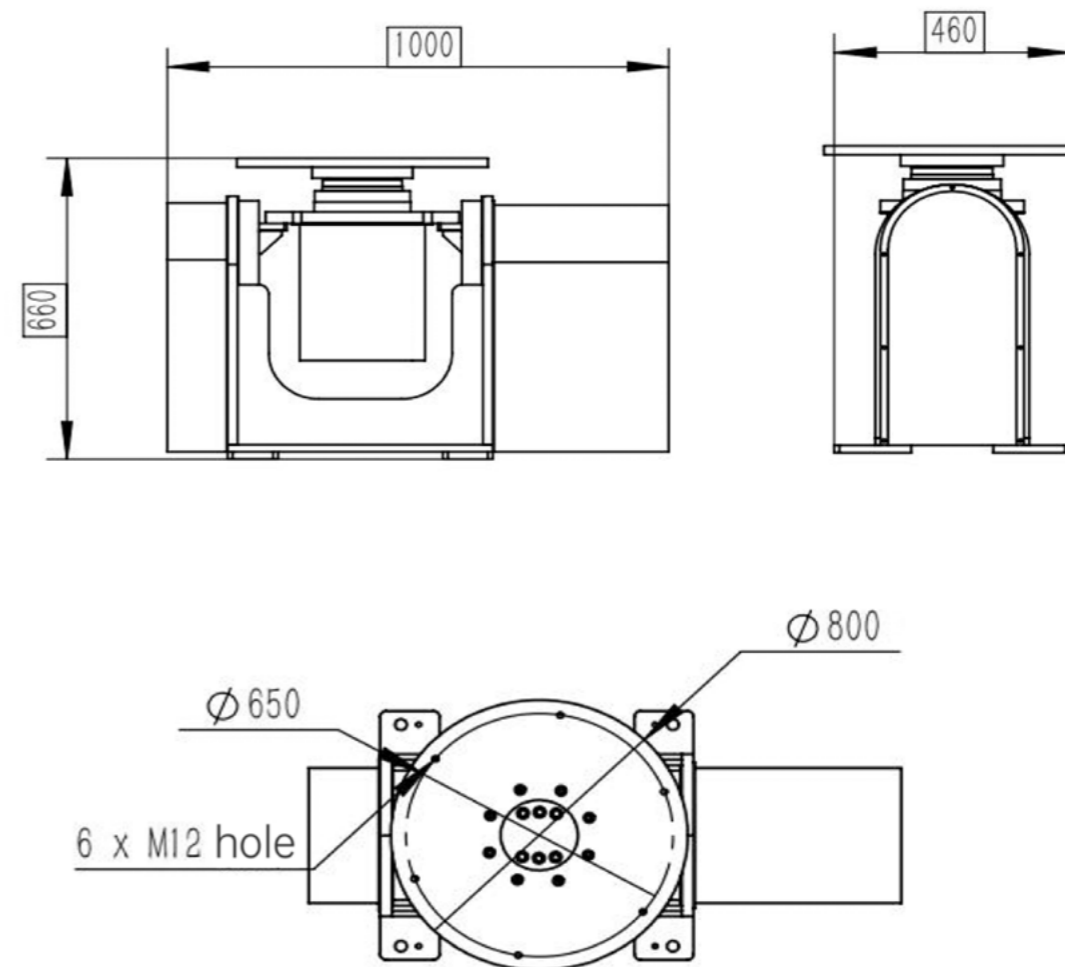
### Application Case

#### Welding of complicated irregular parts

Two-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 horizontal direction and vertical direction and work in combination with welding robots, thereby significantly expanding the types of parts the robots can weld. The figure is the proofing process we showed for clients, in which the two-axis positioner is used together with the welding robot for the welding of the cuboid workpiece.



### Positioner Overall Dimensions



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| SZGH-Arm<br>Four-axis<br>cooperative Robots     |
| <b>Positioners</b>                              |
| Robot walking<br>slide rail                     |
| Control System                                  |
| Application display<br>and technical<br>support |

|   |
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| SZGH-Arm<br>Four-axis<br>cooperative Robots     |
| <b>Positioners</b>                              |
| Robot walking<br>slide rail                     |
| Control System                                  |
| Application display<br>and technical<br>support |

## ▶ Three-axis positioner

|                                  |  |
|----------------------------------|--|
| Number of shafts                 | 3  |
| Installation method              | floor type                               |
| Active radius                    | 1200mm                                   |
| Maximum load                     | 10kg                                     |
| Rated power                      | 2kW                                      |
| Noise level                      | ≤60dB(a)                                 |
| Revolving motor                  | 3-phase asynchronous motor 750kW, AC220V |
| Self rotating motor              | servo motor 400W, AC220V                 |
| Cross dimension of the turntable | 700mm * 700mm                            |
| Rotation speed                   | 0-900°/sec (adjustable)                  |
| Revolution speed                 | 0-70°/sec (adjustable)                   |



### Main Applications

Painting

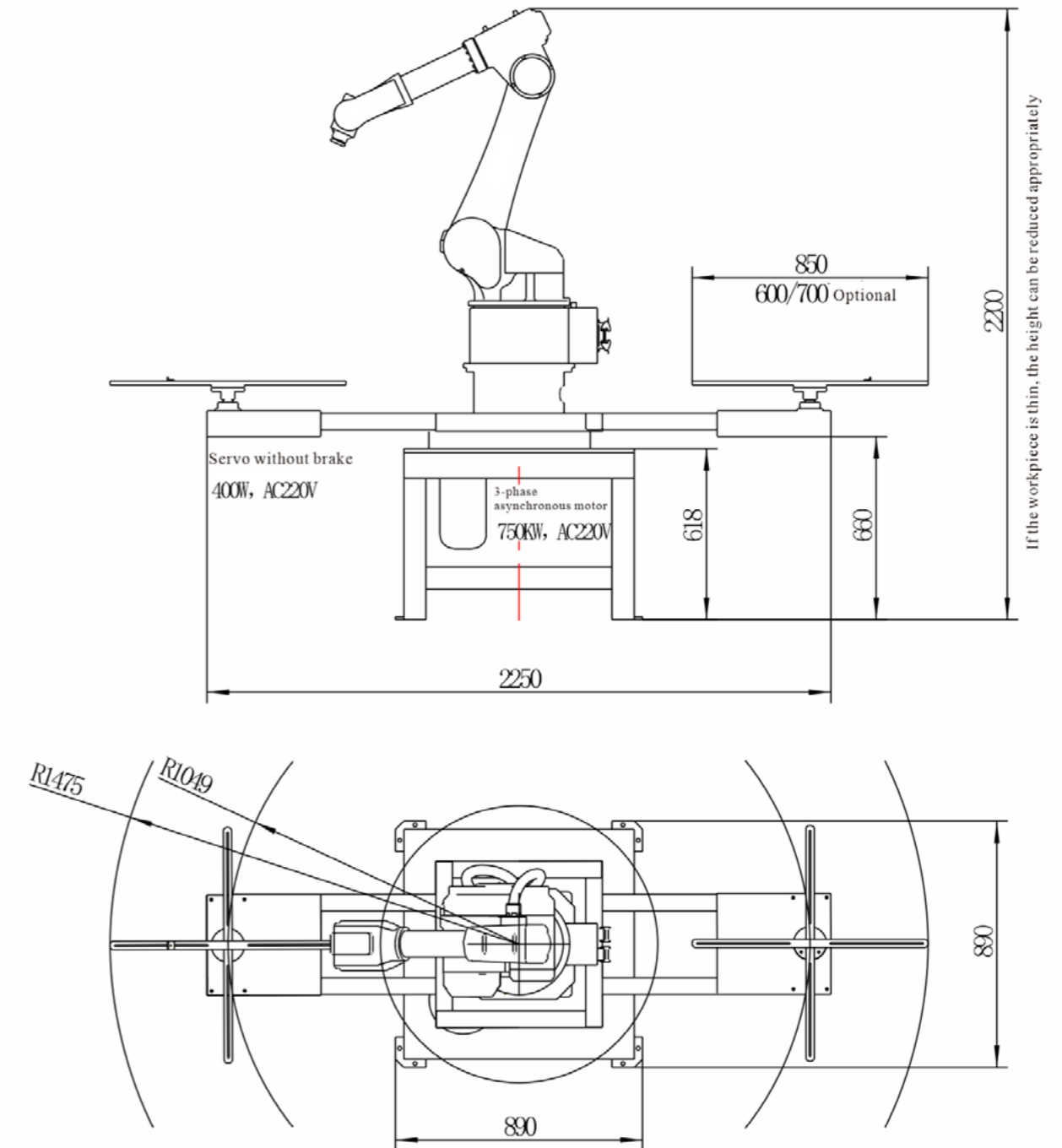
### Application Case

#### Nine-axis linkage spraying Robots

This model is composed of an industrial six axis robot and a three-axis rotating frame, with a total of nine axes. This is the site diagram of the production workshop where the company installed two nine axis Spraying Robots for a customer. In addition to improving the spraying efficiency, it can well protect workers from spraying materials.



## Diagram of 9-axis Rotary Carriage Motion Range



If the workpiece is thin, the height can be reduced appropriately

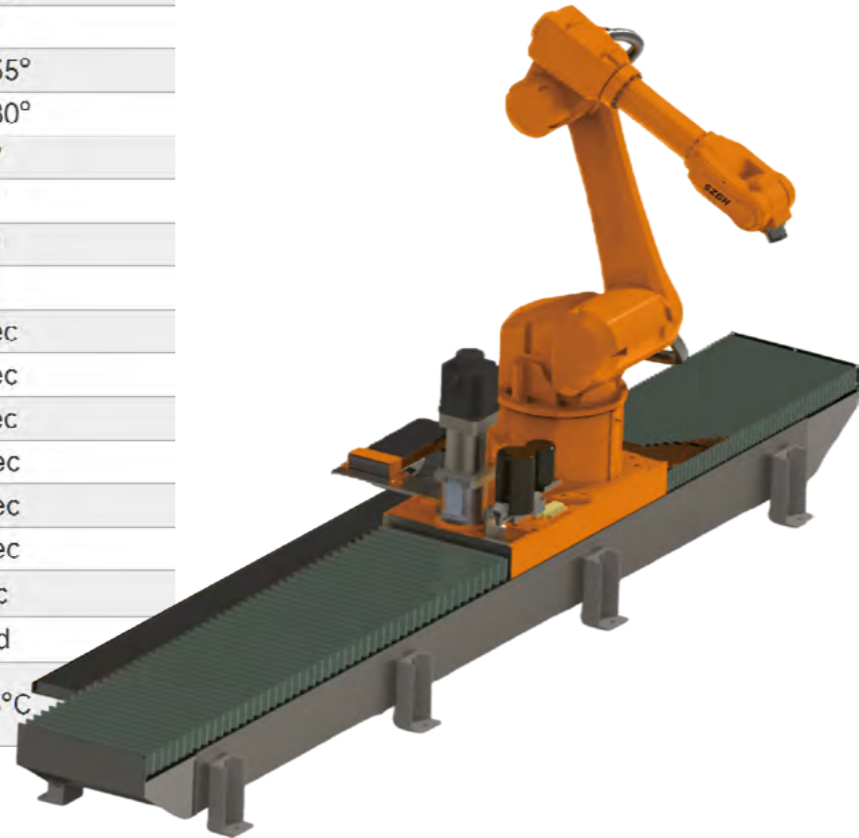
Note: the default matching manipulator of this equipment is LT1500-B-6. Please refer to the previous catalog for the motion range diagram and relevant specific parameters.

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- Positioners**
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- Control System
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## SZGH-T1500-B-7

|                     |             |            |
|---------------------|-------------|------------|
| Payload             | 6KG         |            |
| Structure           | Articulated |            |
| Number of axes      | 7           |            |
| Repeatability       | ±0.1mm      |            |
| Max. motion 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     |
| Mounting type       | Ground      |            |
| Ambient temperature | 0°C ~ 45°C  |            |



### Main Applications

- Welding
- Spraying
- loading and unloading
- Materials Handling

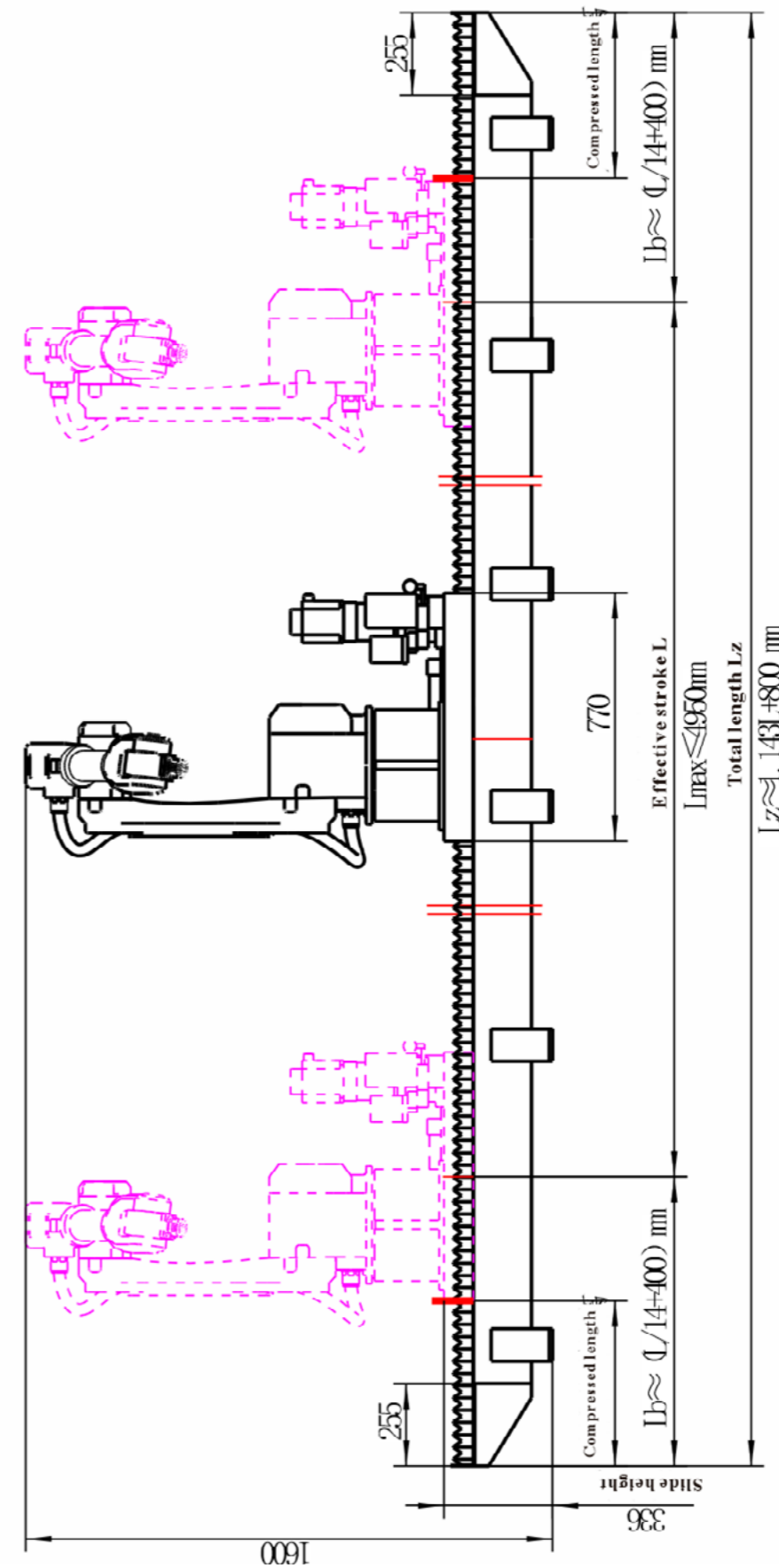
### Application Case

CNC machine automatic loading and unloading

The robot walking slide rail adds extra axis of movement to the robot, so that the robot can move freely in one direction, greatly increasing the working range of the robot. In the picture, our customer added a walking slide rail to his robot, enabling one robot to automatically load and unload materials for three machine tools.



### Diagram of 7-axis robot motion range



Note: the sliding table can carry any six axis manipulator of the company. Please refer to the specific chapters for the movement range of the manipulator

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### 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.
- 6 axis + 6 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.
- Online teaching panel.



### Technical Data of Robot Control System



|                            |   |
|----------------------------|---|
| Storage                    | 2GB   |
| Teaching box               | Full keyboard+touch screen, mode select switch, safety switch, emergency switch   |
| No.of controlled axes      | 6+6 axes, 6 basic axes +6 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 |

### Robot factory for improveing your management system

#### 1 High-level robot scheme for improving production 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.

#### 2 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.

#### 3 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 2h.



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## ▶ B6 Control Cabinet



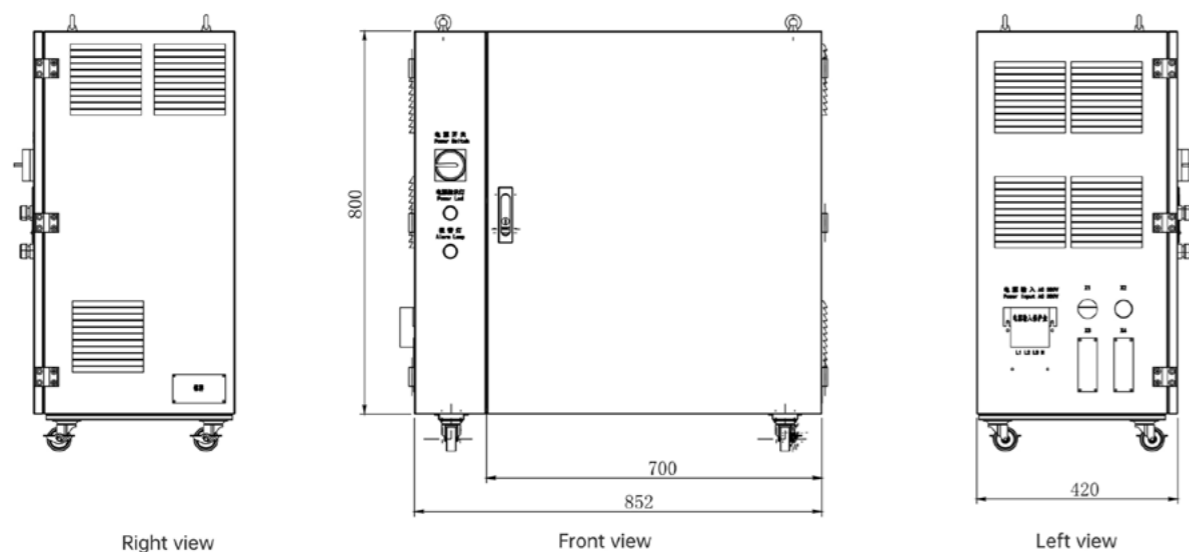
## ▶ A8 Control Cabinet



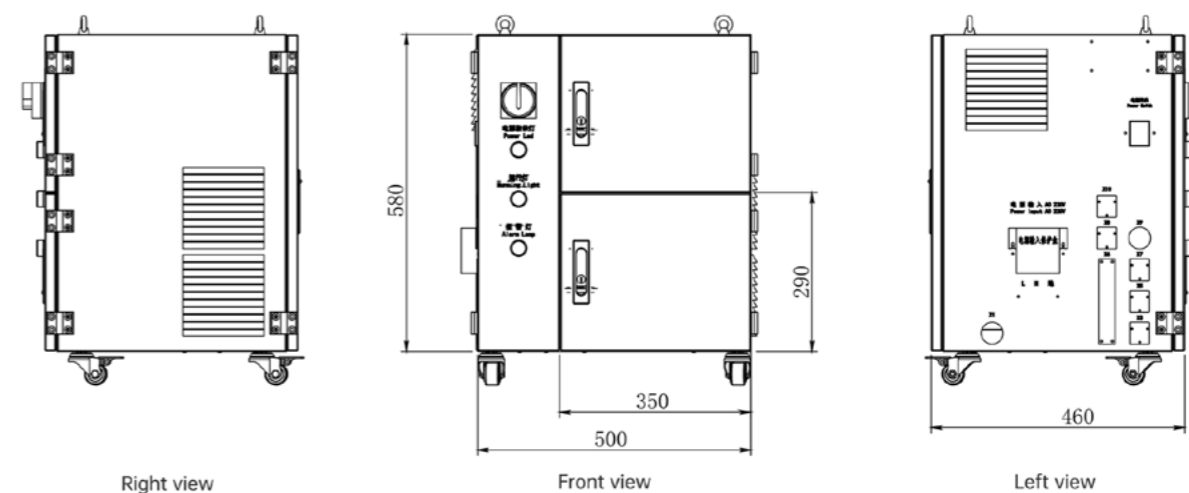
|   |
|---|
| SZGH-T<br>General-purpose<br>Series             |
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|   |
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| Control System                                  |
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### Control Cabinet Size



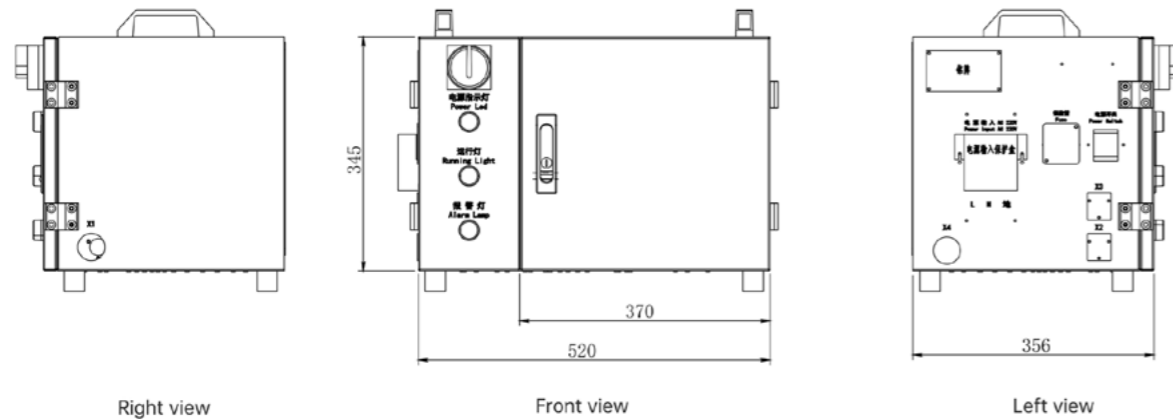
### Control Cabinet Size



## ▶ A4 Control Cabinet



### Control Cabinet Size



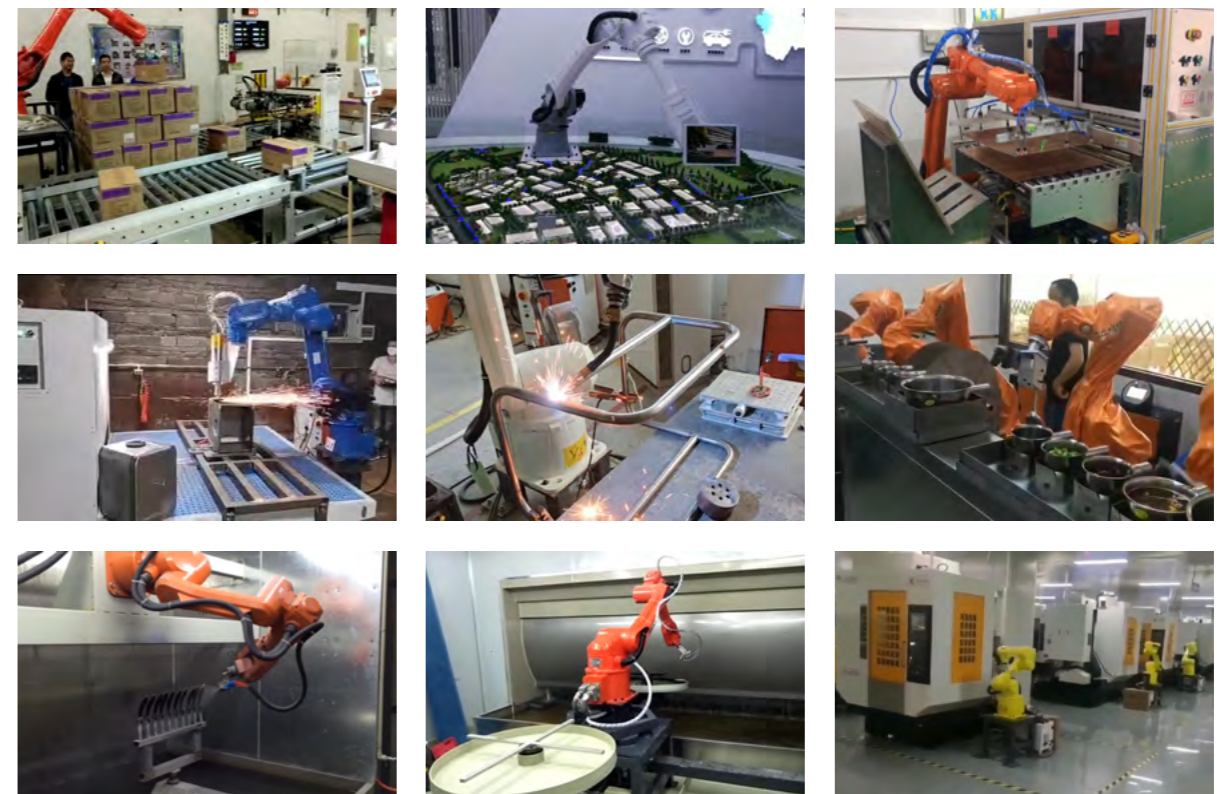
### Instructions for Accessories Welding equipment

1. Max. operating distance of teaching device and robot electric cabinet  
The standard cable length of the teaching device is 5m; the standard cable of the robot and electric cabinet is 3m long.
2. Max. distance between robot and electric cabinet  
This distance is the length of the straight-through cable. It is generally 6m by default. Other lengths can be customized.

### Application Industry



### Application Scenarios



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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.

**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.



**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.



**Spray painting robot**

- Ceramic closestool 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.



SZGH has participated in exhibitions in Shanghai, Wenzhou, Shenzhen, Dongguan and other places, where the main exhibits are general-purpose robots.



• Robot Exhibition SZGH-T1500-B-6



• Robot Exhibition SZGH-B2400-F-4



• Robot Exhibition SZGH-P1950-B-6



|   |
|---|
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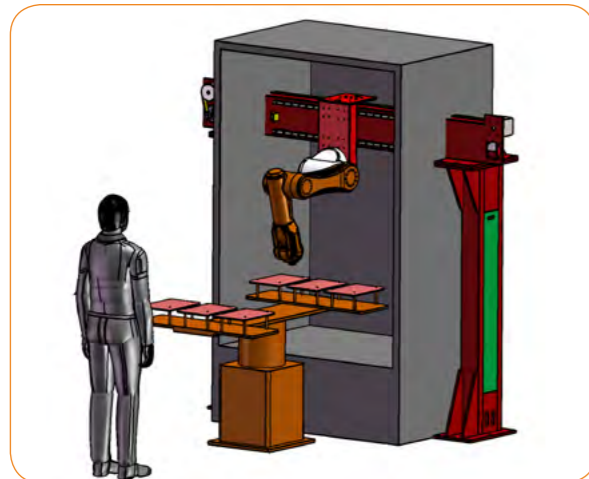
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| Control System                                  |
| Application display<br>and technical<br>support |

### Engineering Services

SZGH 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



• Gantry spraying device

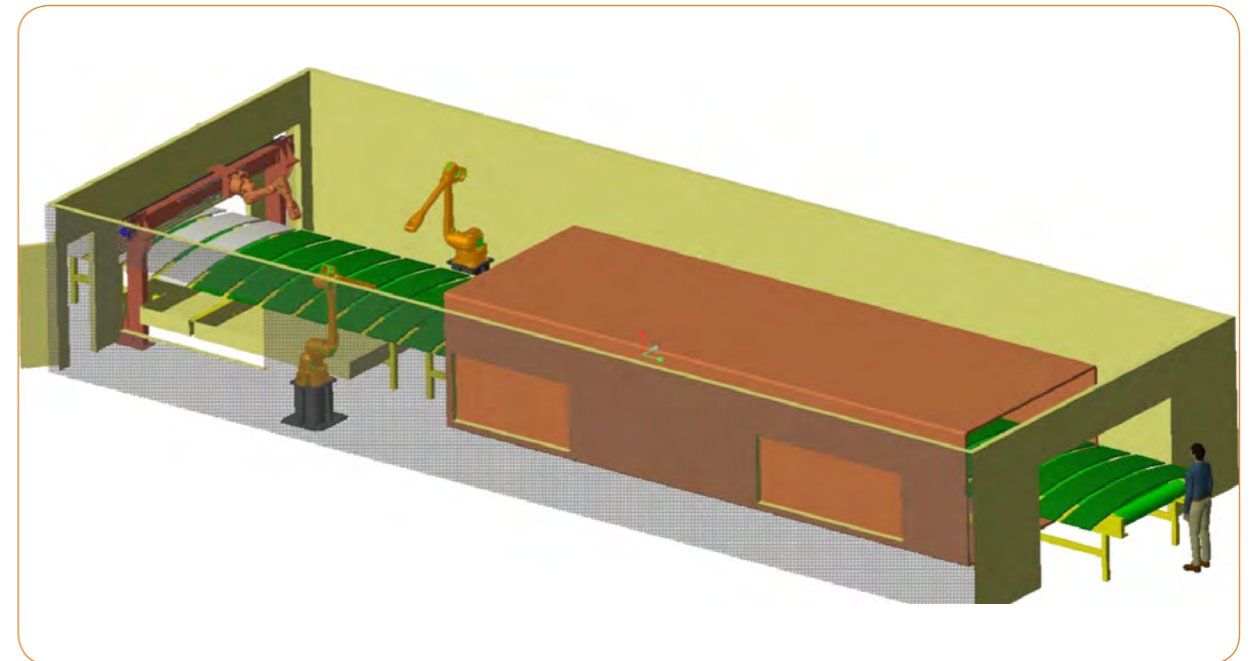


• Application of 4-station welding robot

### System Upgrade & Continuous Optimization

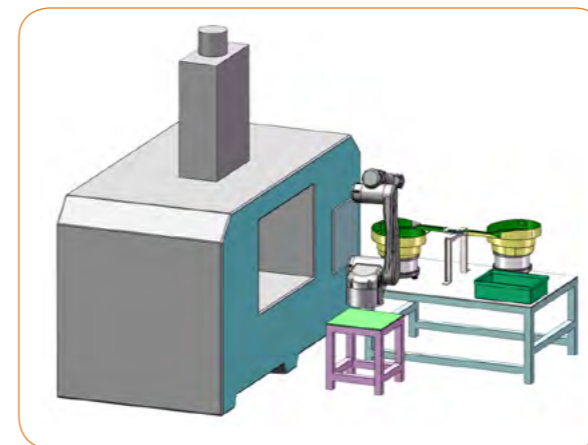
- Reduced equipment investment pressure, more product specifications and varieties, and improved quality;
- Continuous upgrade can ensure stable equipment operation and significantly enhance labor efficiency;
- System improvement makes the system run at higher speed and improves productivity;
- The integrity 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.

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

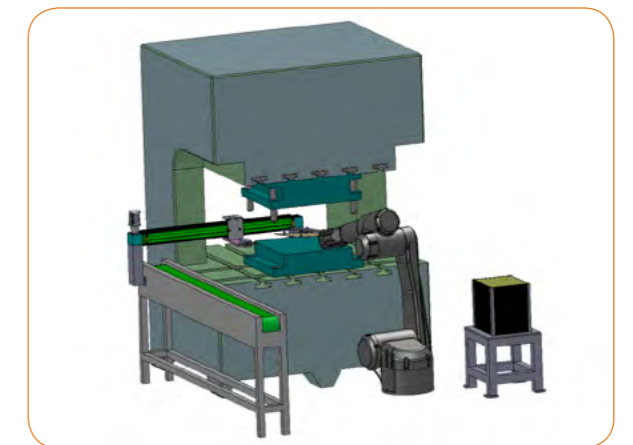


- Professional non-standard design engineering team, diverse design styles, and demonstration to customers in the form of 3D, CAD, animation, etc.;
- Non-standard design to support robot motions can enhance robot efficiency;
- Non-standard simulation can be introduced for project design, so that customers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

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