

## Bat-series Delta Robot

# Bat1600C-S6

It features high speed and agility, high positioning accuracy, and strong power, facilitating high-speed and high-precision flexible production.

#### Applicable industries

Sorting, handling, loading and unloading, boxing, gluing, and other links in electronics, food, medicine, daily chemicals, logistics, and new energy.

#### Product features

|                             |                 |
|-----------------------------|-----------------|
| Rated load                  | 6kg             |
| Working space diameter      | 1600mm          |
| Repeat positioning accuracy | $\pm 0.05$ mm   |
| Configuration               | Standard 3-axis |

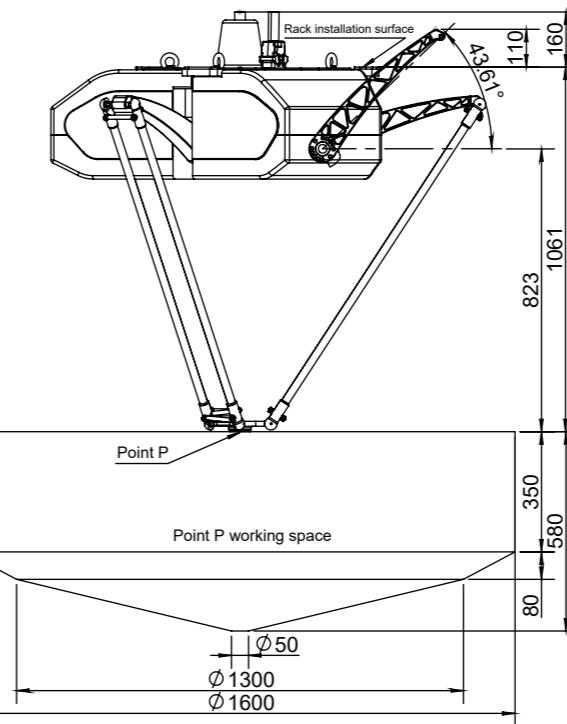


#### Specification

|                             | Bat1600C-S6   |       |
|-----------------------------|---|-------|
| Rated load                  | 6kg   |       |
| Max. load                   | 14kg  |       |
| Working space diameter      | 1600mm  |       |
| Number of axes              | 3   |       |
| Repeat positioning accuracy | $\pm 0.05$ mm   |       |
| 25/305/25                   | 0.1kg   | 0.25s |
|                             | 1kg   | 0.31s |
|                             | 3kg   | 0.32s |
|                             | 6kg   | 0.37s |
| 90/400/90                   | 0.1kg   | 0.37s |
|                             | 1kg   | 0.37s |
|                             | 3kg   | 0.42s |
|                             | 6kg   | 0.46s |
| Power supply voltage        | Three-phase AC 380 V $\pm 10\%$ , 50/60 Hz  |       |
| Rated power                 | 5.6KW   |       |
| Ambient temperature         | 0-45°C  |       |
| Relative humidity           | 5-95%   |       |
| Degree of protection        | IP54  |       |
| Safety                      | Equipped with monitoring, emergency stop, and installation functions  |       |
| Radiation                   | EMC shielding   |       |
| Installation method         | Suspended type  |       |
| Weight of the robot body    | 150kg   |       |
| I/O interface               | 4-channel configurable digital I/O<br>8-channel universal digital I/O (8 additional I/O channels can be added)<br>2-channel encoder input |       |
| Ethernet                    | 2   |       |
| USB                         | 2   |       |
| RS232/RS485                 | 1   |       |
| EtherCAT                    | 1   |       |
| Communication protocol      | Modbus-RTU/TCP、Socket   |       |
| Certification               | CE  |       |

\*: For specific requirements regarding line selection, interface configuration, and other optional needs, please consult the technicians of RobotPhoenix.

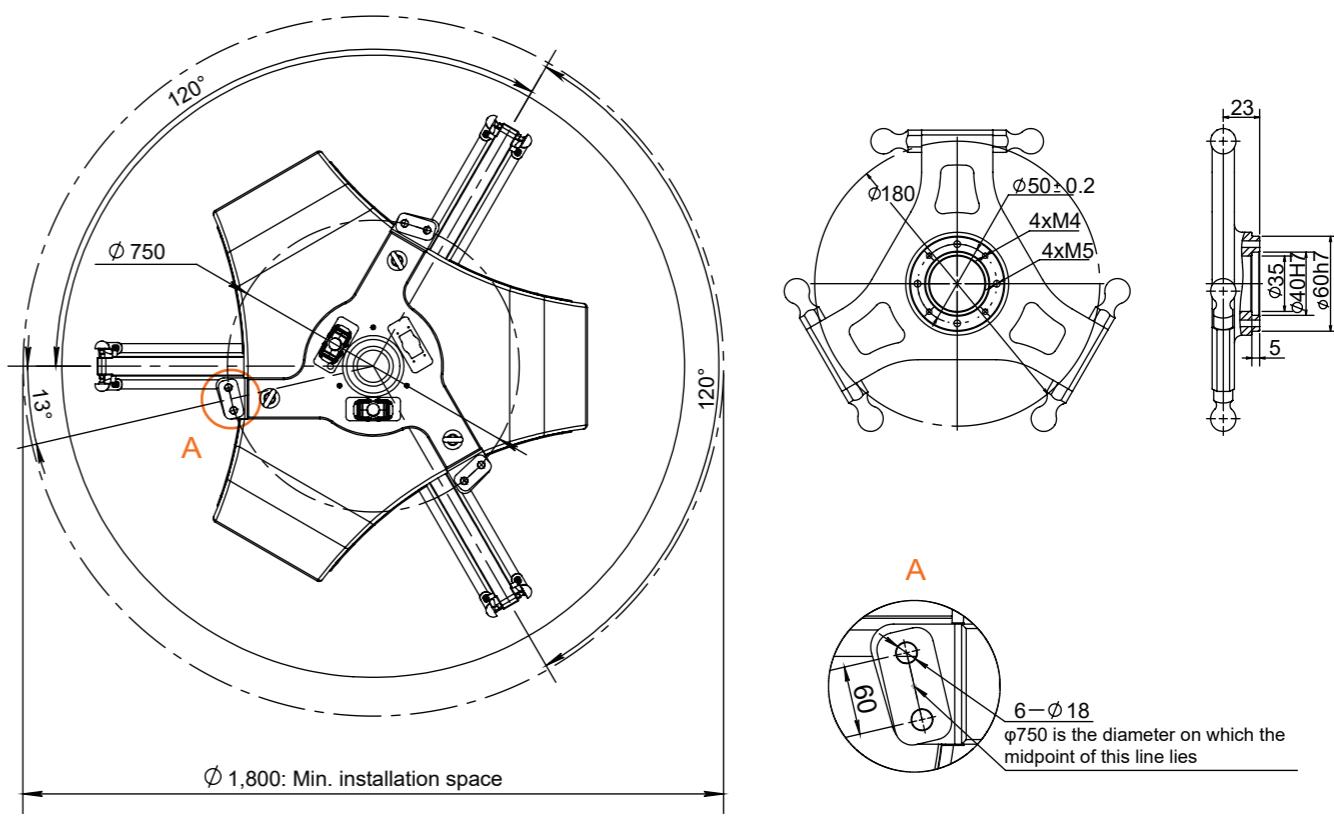
#### Working range



#### Model

|  |             |
|--|-------------|
| Model  | Bat1600C-S6 |
| Distance from installation surface to top of equipment                         | 160mm       |
| Max. upper arm elevation and horizontal plane angle                            | 43.61°      |
| Max. elevation of the upper arm to the height of the installation surface      | 110mm       |
| Distance from installation surface to upper plane of working space             | 1061mm      |
| Distance from the reducer shaft center to the upper plane of the working space | 823mm       |
| Total height of the upper and lower limits of the working space                | 580mm       |
| Height of the cylindrical part of the working space                            | 350mm       |
| Height of the conical frustum part of the working space                        | 80mm        |
| Transition diameter of the conical column in the working space                 | 1300mm      |
| Bottom diameter of the conical column in the working space                     | 50mm        |
| Diameter of the circular table part of the working space                       | 1600mm      |
| Min. installation size of the robot body                                       | 1800mm      |

#### Installation size



\*: Any changes resulting from upgrading our products will not be notified separately.