

**CRP-RH20-06-W(PRO)**  
**CRP-RH20-06-W**  
**INDUSTRIAL ROBOT WELDING APPLICATION**



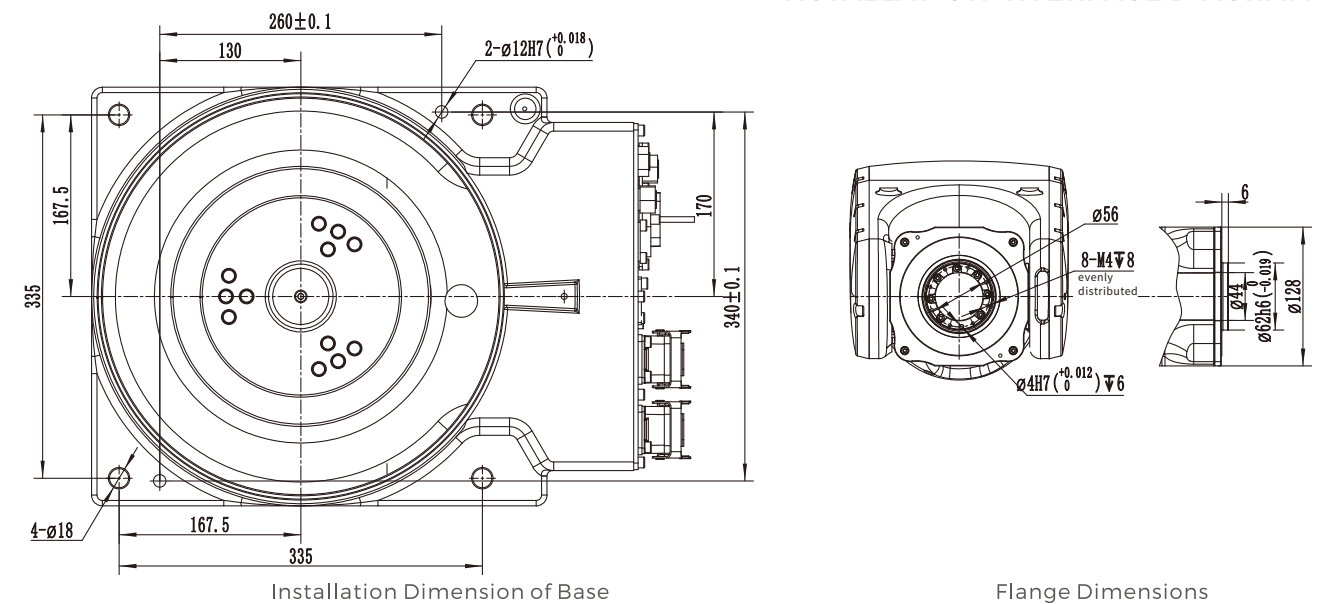
## ROBOT BODY TECHNICAL PARAMETERS

| Model                         |                     | CRP-RH20-06-W/CRP-RH20-06-W(PRO)                                                                                  |
|-------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------|
| Arm form                      |                     | Vertical multiple joints                                                                                          |
| Degree of freedom             |                     | 6 axis                                                                                                            |
| Maximum payload               |                     | 6kg                                                                                                               |
| Maximum coverage              |                     | 2012mm                                                                                                            |
| Maximum travel                | Axis 1              | Formal/inverted-165°~165°,wall mounting-30°~30°                                                                   |
|                               | Axis 2              | 0°~175°                                                                                                           |
|                               | Axis 3              | -80°~150°                                                                                                         |
|                               | Axis 4              | -190°~190°                                                                                                        |
|                               | Axis 5              | -110°~130°                                                                                                        |
|                               | Axis 6              | -210°~210°                                                                                                        |
| Maximum speed                 | Axis 1              | 159°/S                                                                                                            |
|                               | Axis 2              | 159°/S                                                                                                            |
|                               | Axis 3              | 169°/S                                                                                                            |
|                               | Axis 4              | 280°/S                                                                                                            |
|                               | Axis 5              | 240°/S                                                                                                            |
|                               | Axis 6              | 520°/S                                                                                                            |
| Allowable torque              | Axis 4              | 24N.m                                                                                                             |
|                               | Axis 5              | 24N.m                                                                                                             |
|                               | Axis 6              | 14N.m                                                                                                             |
| Allowable moment of inertia   | Axis 4              | 1.4kg.m <sup>2</sup>                                                                                              |
|                               | Axis 5              | 1.4kg.m <sup>2</sup>                                                                                              |
|                               | Axis 6              | 0.2kg.m <sup>2</sup>                                                                                              |
| Repeated positioning accuracy |                     | ±0.08mm                                                                                                           |
| Robot body weight             |                     | 291kg                                                                                                             |
| Installation mode             |                     | Formal/inverted/wall mounting                                                                                     |
| Body interface                | Reserved IO         | 16Pin                                                                                                             |
|                               | Reserved gas        | 2"φ8mm                                                                                                            |
| Installation environment      | Ambient temperature | 0~45℃                                                                                                             |
|                               | Relative humidity   | 20%~80%RH(No condensation)                                                                                        |
|                               | Vibration           | Under 0.5G                                                                                                        |
|                               | Others              | Robot installation must be away from: flammable or corrosive liquids or gases, electrical sources of interference |
| IP level                      |                     | Body IP54 Wrist IP67                                                                                              |
| Advantage features            |                     | Compact structure, high speed, high precision, high expansibility and easy operation                              |
| Application                   |                     | Welding                                                                                                           |
| Matching electrical cabinet   |                     | C9A/C9S                                                                                                           |

## FUNCTIONAL FEATURES

- **High Performance:** Large working envelope, high operating speed, and excellent repeatability, making it ideal for a wide range of welding applications.
- **Enhanced Safety:** Features a dedicated safety relay board independent of the main control system, providing dual-channel emergency stop circuits for maximum reliability.
- **Robust Cabling:** Utilizes high-flexibility, robot-specific cables on the manipulator.
- **Improved EMI/EMC:** Built-in filters effectively enhance electromagnetic compatibility and reduce interference.
- **Integrated Utilities:** The manipulator provides dual air circuits to meet welding process requirements.
- **Large Through-Hole:** A 44mm inner diameter hollow bore through the 6th axis accommodates installations such as water-cooled torches and bellows-style torches.

## INSTALLATION INTERFACE DIAGRAM



## WORKING RANGE DIAGRAM

