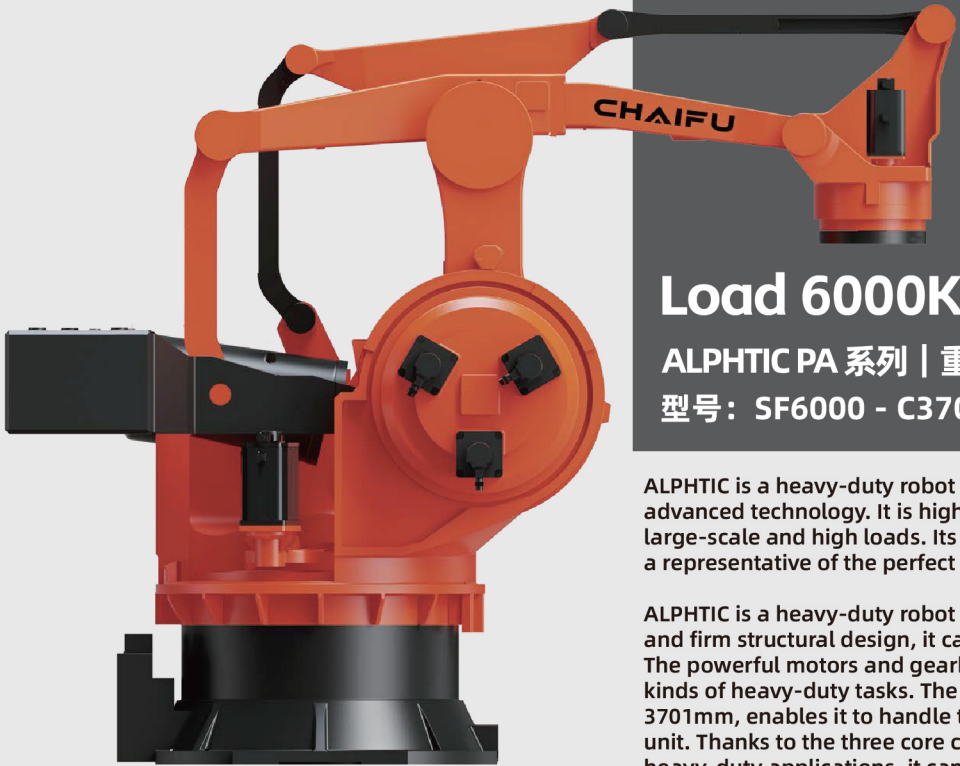




Load 6000Kg

ALPHTIC PA 系列 | 重载机器人  
型号: SF6000 - C3700 PA

ALPHTIC is a heavy-duty robot with more powerful strength and more advanced technology. It is highly suitable for various applications with large-scale and high loads. Its sturdy and durable structure makes ALPHTIC a representative of the perfect combination of strength and technology.

ALPHTIC is a heavy-duty robot of CHAIFU. With its ultra-high craftsmanship and firm structural design, it can perfectly match any application situation. The powerful motors and gearboxes will spare no effort to complete all kinds of heavy-duty tasks. The working stroke, which reaches up to 3701mm, enables it to handle tasks with ease even in a narrow working unit. Thanks to the three core components of CHAIFU, even in the field of heavy-duty applications, it can still convincingly achieve the characteristics of low cost, high efficiency, and low post-maintenance costs.

All series of ALPHTIC adopt the LIKEPRECISION technology. The RV reducer (Rotate Vector Reducer), a reducer with higher precision for the joint parts, allows the robot to fully exert its advantages even in a high-speed operation state.

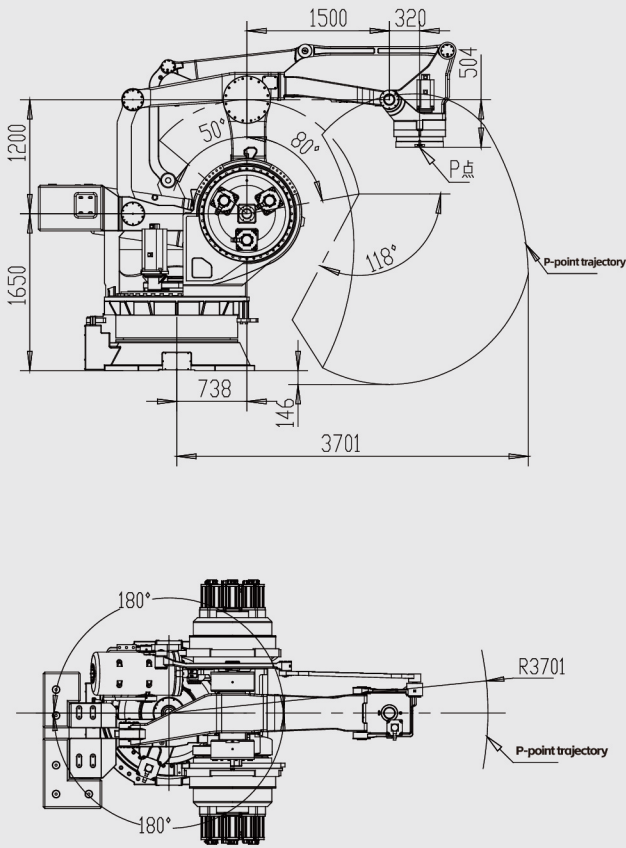
Applications



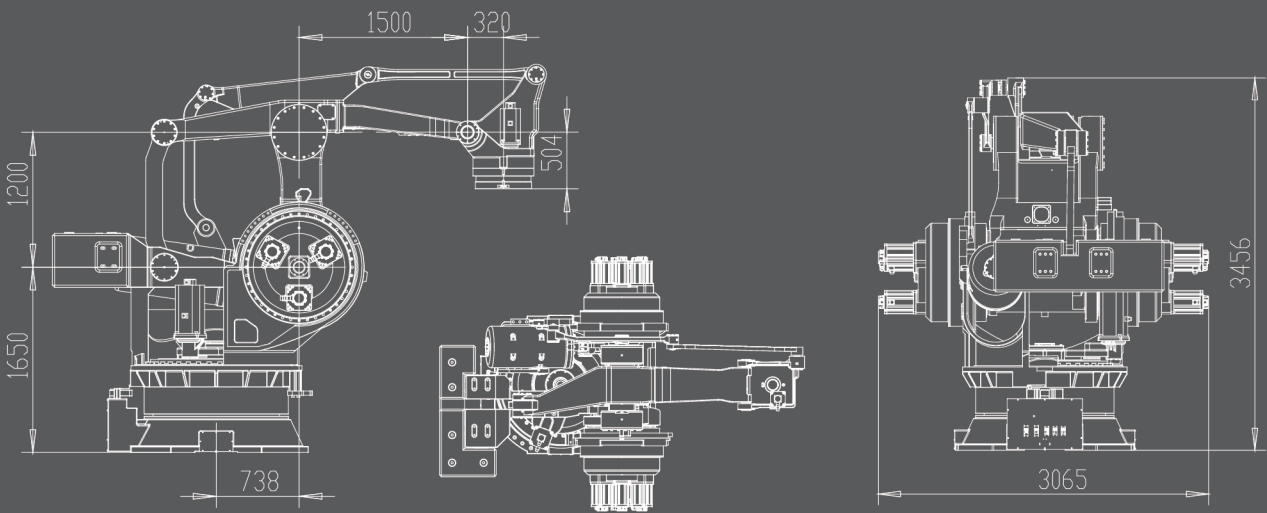
SF6000-C3700 PA Range of Motion

|                      |           |                           |
|----------------------|-----------|---------------------------|
| Model                |           | SF6000-C3700 PA           |
| Structure            |           | Vertically Articulated    |
| Number of Axis       |           | 4                         |
| Radius               |           | 3701mm                    |
| Payload              |           | 6000kg                    |
| Repeatability        |           | ±1mm                      |
| Drive Mode           |           | AC Servo Motor            |
| Maximum Speed        | J1        | 10°/s                     |
|                      | J2        | 8°/s                      |
|                      | J3        | 8°/s                      |
|                      | J4        | 15°/s                     |
|                      | J5        | /                         |
|                      | J6        | /                         |
| Range of Motion      | J1        | ±180°                     |
|                      | J2        | +50°/-80°                 |
|                      | J3        | -118°/+22°                |
|                      | J4        | ±360°                     |
|                      | J3-J2     | -60°≤J3-J2≤+60°           |
| Allowable Moment     | J4        | 46890N·m                  |
|                      | J5        | /                         |
|                      | J6        | /                         |
| Allowable Inertia    | J4        | 9156kg·m <sup>2</sup>     |
|                      | J5        | /                         |
|                      | J6        | /                         |
| Protection Rating    |           | IP 65, Wrist IP 67        |
| Operating Conditions | Temp.     | 0-45°C                    |
|                      | Humidity  | Below 95%RH               |
|                      | Vibration | Below 4.9m/s <sup>2</sup> |
|                      | Other     | Eliminate Signal Noise    |
| Base Size            |           | 1580*1660mm               |
| Height               |           | 3683mm                    |
| Weight               |           | 16690KG                   |
| Mounting Positions   |           | Floor                     |
| Power Consumption    |           | 18kVA                     |

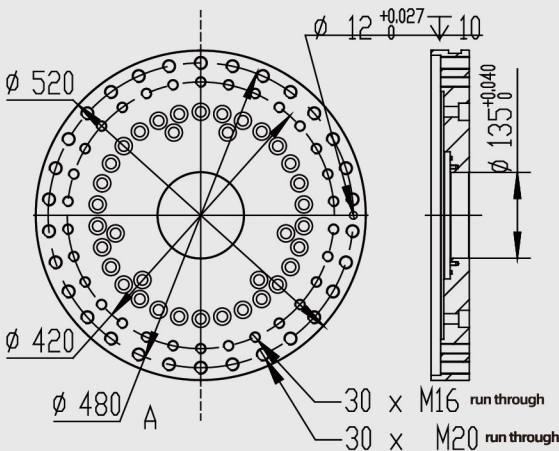
SF6000-C3700 PA Range of Motion



SF6000-C3700 PA External & Installation Dimensions



A-Way Diagram (End Flange Mounting Dimensions)



B-Way Diagram (Base Mounting Dimensions)

