

The SF ALPHTIC is the most powerful and technologically advanced heavy-duty robot, ideal for large, high-load applications, and its construction makes the SF ALPHTIC the perfect combination of power and technology.

The SF ALPHTIC is CHAIFU's heavy-duty robot perfectly matched to any application due to its ultra-high craftsmanship and rugged structural design. The powerful motors and gearboxes are designed to perform a wide range of heavy-duty tasks. The long working stroke of 3,121 mm allows it to fit comfortably in small work cells.

The three core components of the CHAIFU convince with their low cost, high efficiency, and low maintenance, even in heavy-duty applications.

All SF ALPHTIC series are equipped with LIKEPRECISION technology and the highest precision joint part reducer, RV Reducer, which enables the robot to take full advantage of its advantages even in high-speed operation.

Applications

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Glazing

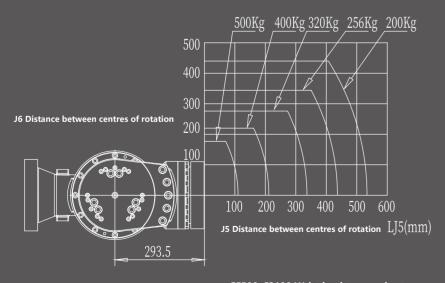








Picking/Packing Stamping

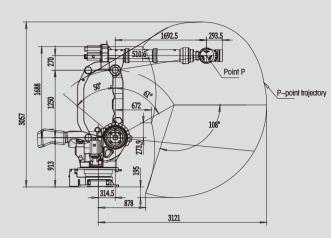


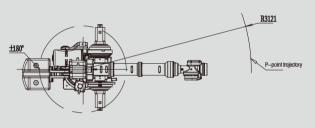
SF500-C3100 Wrist load torque chart

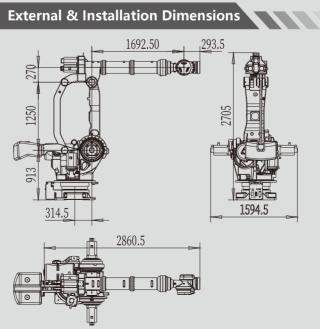
SF500-C3100 Data Overview

| Model | | SF500-C3100 |
|----------------------|----------------------------------|---|
| Structure | | Vertically Articulated |
| Number of Ax | ris | 6 |
| Radius | | 3121mm |
| Payload | | 500kg |
| Repeatability | | ±0.3mm |
| Drive Mode | | AC Servo Motor |
| Maximum Speed | J1 J2 J3 J4 J5 J6 | 100° /s 85° /s 85° /s 80° /s 80° /s 160° /s |
| Range of Motion | J1 J2 J3 J4 J5 J6 | ±180° +50° /-85° -120° /+25° ±360° ±115° ±360° |
| Allowable Moment | J4 J5 J6 | 1980N.M 1980N.M 865N.M |
| Allowable Inertia | J4 J5 J6 | 152kg.m2 152kg.m2 122kg.m2 |
| Protection Ra | ting | IP 65, Wrist IP 67 |
| | Temp. | 0-45°C |
| Operating | Humidity | Below 95%RH |
| Conditions | Vibration | Below 4.9m/s2 |
| | Other | Eliminate Signal Noise |
| Base Size | | 910*739mm |
| Height | | 2695mm |
| Weight | | 2780KG |
| Mounting Pos | | Floor |
| Power Consur | nption | 9.5kVA |

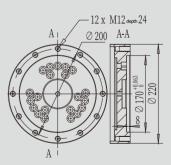
SF500-C3100 Range of Motion







A-Way Diagram (End Flange Mounting Fimensions)



B-Way Fiagram (Base Mounting Dimensions)

