

# GR6100-3800

EFORT

**Maximum Reach:3750 mm /  
Lemma Wrist / Max Payload:10 kg**

### Highlights

Wider painting range, with lemma 3R wrist at the robot end, no singularity in the front;  
The electric control cabinet complies with EN ISO13849 PLd security level and supports aux axis;  
Standard painting application software, built-in I/Os, easy integration, simple programming;  
ATEX explosion-proof certification of China and Eu, can be used in zone 1 gas and zone 21 dust dangerous operation environment.

### Applications

Specially designed for large flat workpiece painting: such as wooden door, window frame, pipe;  
Also can be used for multi-size irregular parts: such as large vehicles.

### Industries

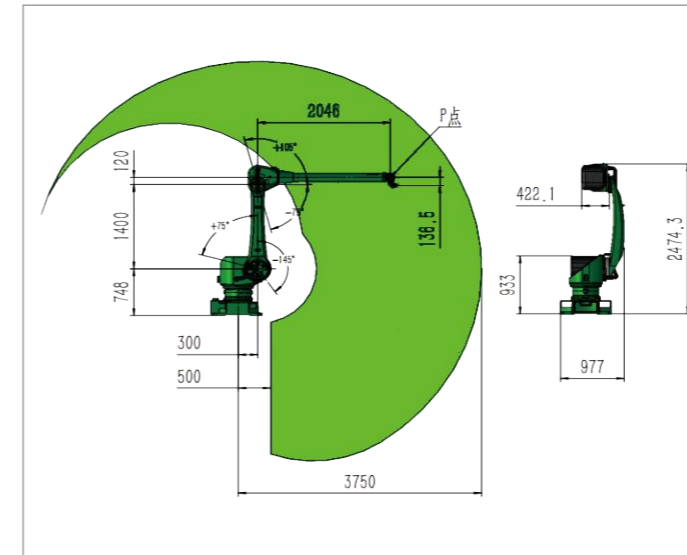
Suitable for furniture, automobile and other industries.



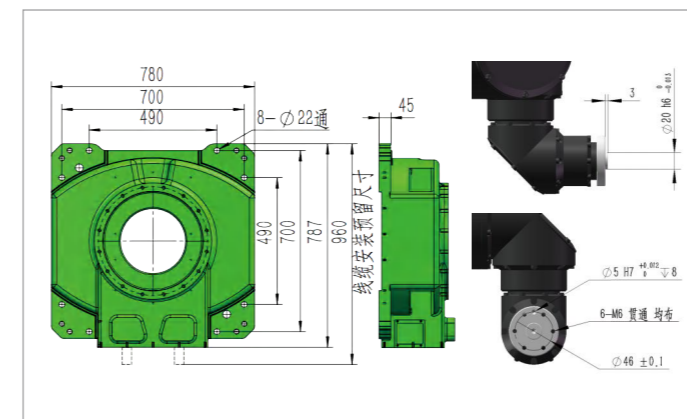
### SPECIFICATIONS

|   |                     |                        |          |
|---|---------------------|------------------------|----------|
| <b>Max. Payload on Wrist</b>            | 10 kg               |                        |          |
| <b>Reach</b>                            | 3750 mm             |                        |          |
| <b>Repeatability</b>                    | ±0.5 mm             |                        |          |
| <b>Motion Range &amp; Maximum Speed</b> | <b>Motion Range</b> | <b>Maximum Speed</b>   |          |
|   | <b>J1</b>           | ±155°                  | 130°/sec |
|   | <b>J2</b>           | +75°/-145°             | 150°/sec |
|   | <b>J3</b>           | +105°/-75°             | 150°/sec |
|   | <b>J4</b>           | ±360°                  | 600°/sec |
|   | <b>J5</b>           | ±360°                  | 600°/sec |
| <b>Allowable Load Moment at Wrist</b>   | <b>J4</b>           | 33.2 N·m               |          |
|   | <b>J5</b>           | 27.6 N·m               |          |
|   | <b>J6</b>           | 15.1 N·m               |          |
| <b>Allowable Load Inertia at Wrist</b>  | <b>J4</b>           | 1.17 kg·m <sup>2</sup> |          |
|   | <b>J5</b>           | 0.62 kg·m <sup>2</sup> |          |
|   | <b>J6</b>           | 0.15 kg·m <sup>2</sup> |          |

### OPERATING SPACE

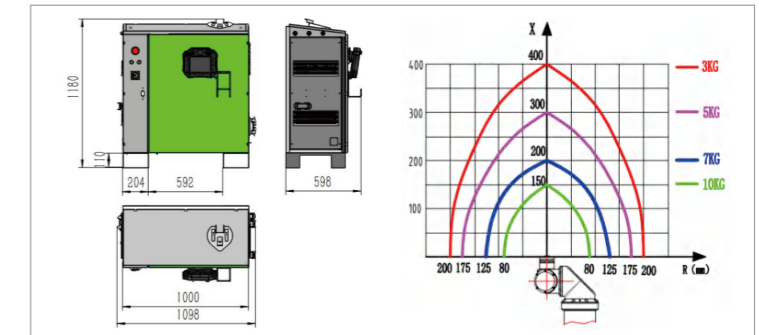


### BASE& END FLANGE MOUNTING SIZE



|                                 |                         |                             |
|---------------------------------|-------------------------|-----------------------------|
| <b>Structure</b>                | 6-Axis Series Structure |                             |
| <b>Installation</b>             | Floor, Upside-down      |                             |
| <b>Safety Level</b>             | EN ISO13849 PLd         |                             |
| <b>IP Grade</b>                 | <b>Robot</b>            | IP 65                       |
|                                 | <b>Cabinet</b>          | IP 54                       |
| <b>Explosion-Proof</b>          | <b>China</b>            | Ex d ib px IIB T4 Gb        |
|                                 | <b>ATEX-Gas</b>         | II 2G Ex pxb IIB T4 Gb      |
|                                 | <b>ATEX-Dust</b>        | II 2D Ex pxb IIIC T135°C Db |
| <b>Environment Requirements</b> | <b>Voltage</b>          | AC380V(±10%)                |
|                                 | <b>Power Capacity</b>   | 5.0 kVA                     |
|                                 | <b>Temperature</b>      | 0-45 °C                     |
|                                 | <b>Humidity</b>         | 20-80RH (No Condensation)   |
| <b>Arm Payload</b>              | <b>Outer Arm</b>        | 10 kg                       |
|                                 | <b>Inner Arm</b>        | 10 kg                       |
| <b>Weight</b>                   | <b>Robot</b>            | 920 kg                      |
|                                 | <b>Cabinet</b>          | 160 kg                      |

### CONTROL CABINET SIZE&WRIST END LOAD MAP



### SELECTION&CONFIGURATION TABLE

| Item                      | Standard         | Optional           |                |
|---------------------------|------------------|--------------------|----------------|
| <b>Driver</b>             | 6 Axes           | 6+2~4 Axes         |                |
| <b>Connector Cable</b>    | Static           | Static             | Flexible       |
|                           | 8 m              | Max:30 m           |                |
| <b>Pendant</b>            | 10 m             | Max:30 m           |                |
| <b>DI/DO</b>              | 12/12            | Customized         |                |
| <b>Safety DI/DO</b>       | 8/4              | Customized         |                |
| <b>AI/AO</b>              | /                | Customized         |                |
| <b>Communication Mode</b> | TCP/IP           | ProfiBus Slave     | ProfiNet Slave |
| <b>Memory Capacity</b>    | 1GB              | /                  |                |
| <b>Connector</b>          | USB/TCP/IP       | /                  |                |
| <b>Software Package</b>   | Painting Package | Visual Programming |                |
| <b>Program Mode</b>       | Pendant          | Touch Panel        |                |
| <b>Color</b>              | RAL6018          | Customized         |                |