# GR6150-1500

## Maxium Reach:1500 mm / Hollow Wrist / Max Payload:15 kg

### Highlights

A painting robot designed for China domestic SMEs, explosion-proof structure design;
Hollow wrist structure, easy for spray paint pipeline layout;
Large load, high rigidity, easy installation;
Standard painting software package, built-in peripheral I/O points, easy integration, simple programming;
Especially suitable for metal parts, furniture, 3C plastic parts and other irregular shape parts.

### Applications

Specially designed for small irregular shape parts painting: such as motor, reducer, water pump, valve, single cylinder engine, chair, nightstand, electric car, bicycle, motorcycle parts.

### Industries

Suitable for metal parts, furniture and other industries.

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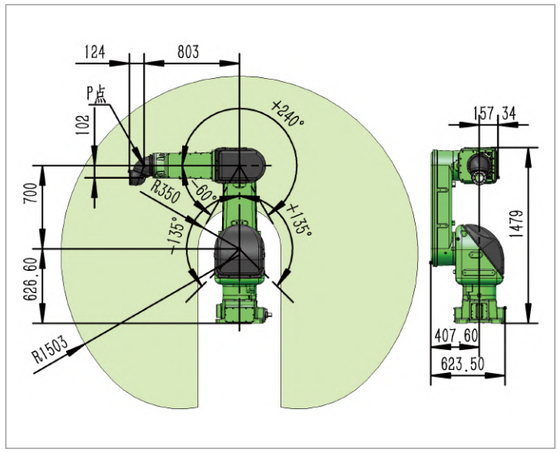
## SPECIFICATIONS

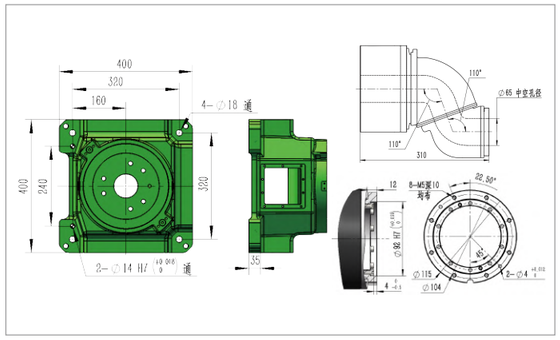
| | | | |
|---|---|---|---|
| **Max Payload at Wrist** | | 15 kg | |
| **Reach** | | 1500 mm | |
| **Repeatability** | | ±0.15 mm | |
| **Motion Range & Maximum Speed** | | **Motion Range** | **Maximum Speed** |
| | **J1** | ±160° | 180°/s |
| | **J2** | ±135° | 180°/s |
| | **J3** | -60°/+240° | 180°/s |
| | **J4** | ±540° | 360°/s |
| | **J5** | ±540° | 400°/s |
| | **J6** | ±540° | 450°/s |
| **Allowable Load Moment at Wrist** | **J4** | 44.2 N · m | |
| | **J5** | 28.8 N.m | |
| | **J6** | 15.1 N · m | |
| **Allowable Load Inertia at Wrist** | **J4** | 1.17 kg · m² | |
| | **J5** | 0.87 kg · m² | |
| | **J6** | 0.15 kg · m² | |

| | | |
|---|---|---|
| **Structure** | | 6-Axis Series Structure |
| **Installation** | | Floor,Upside-down,Wall,Angle mount |
| **IP Grade** | **Robot** | IP 65 |
| | **Cabinet** | IP 54 |
| **Explosion-Proof** | **GB-Gas** | Ex ib mb pxb IIC T4 Gb |
| | **GB-Dust** | Ex ib mb pxb IIIC T135℃ Db |
| | **ATEX-Gas** | II 2G Ex pxb IIC T4 Gb |
| | **ATEX-Dust** | II 2D Ex pxb IIIC T135℃ Db |
| **Environment Requirements** | **Voltage** | AC380V(±10%) |
| | **Power Capacity** | 5.0 kVA |
| | **Temperature** | 0-40 ℃ |
| | **Humidity** | 20-80RH (No Condensation) |
| **Arm Payload** | **Outer Arm** | 15 kg |
| | **Inner Arm** | 10 kg |
| **Weight** | **Robot** | 245 kg |
| | **Cabinet** | 140 kg |

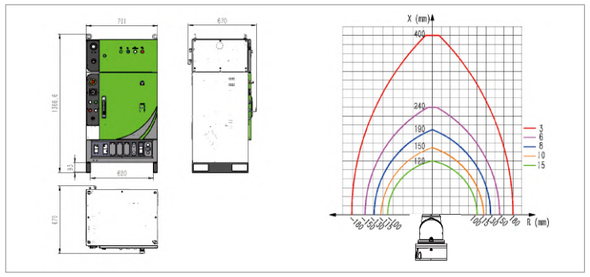
## OPERATING SPACE




## BASE& END FLANGE MOUNTING SIZE




## CONTROL CABINET SIZE&WRIST END LOAD MAP




## SELECTION&CONFIGURATION TABLE

| Item | Standard | Optional | |
|---|---|---|---|
| **Driver** | 6 Axes | 6+2 Axes | |
| **Connecter Cable** | Static:8 m | Max:20 m | |
| | / | Towing Cable:Max 20 m | |
| **Pendant** | 8 m | Max:20 m | |
| **DI/DO** | 16/16 | / | |
| **AI/AO** | / | Customized:Max 16 | |
| **Communication Mode** | Ethercat | ProfiNet | CClink |
| **Memory Capacity** | 1GB | / | |
| **Connecter** | Ethercat network port | / | |
| **Software Package** | Painting Package | / | |
| **Belt Tracking** | / | Optional | |
| **Color** | RAL6018 | Customized | |

Information Release Time 2023/06