

# GR6150-1500

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

**EFORT**

## 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.



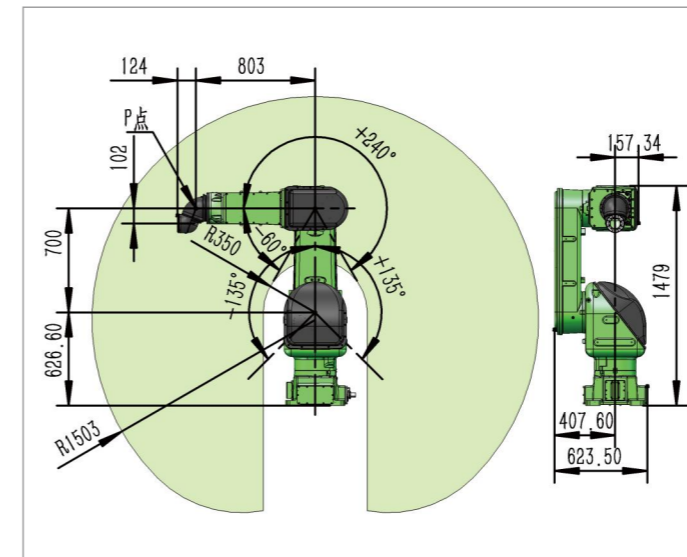
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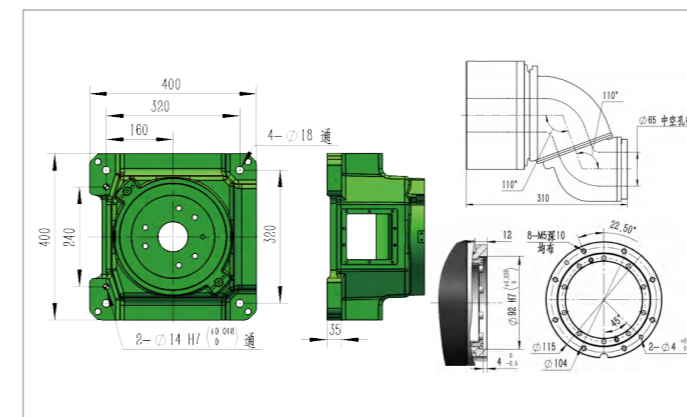
## SPECIFICATIONS

<b>Max. Payload on Wrist</b>	15 kg		
<b>Reach</b>	1500 mm		
<b>Repeatability</b>	±0.15 mm		
<b>Motion Range &amp; Maximum Speed</b>	<b>Motion Range</b>	<b>Maximum Speed</b>	
	<b>J1</b>	±160°	180°/sec
	<b>J2</b>	±135°	180°/sec
	<b>J3</b>	-60°/+240°	180°/sec
	<b>J4</b>	±540°	360°/sec
	<b>J5</b>	±540°	400°/sec
<b>Allowable Load Moment at Wrist</b>	<b>J4</b>	44.2 N·m	
	<b>J5</b>	28.8 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>	0.87 kg·m <sup>2</sup>	
	<b>J6</b>	0.15 kg·m <sup>2</sup>	

## OPERATING SPACE



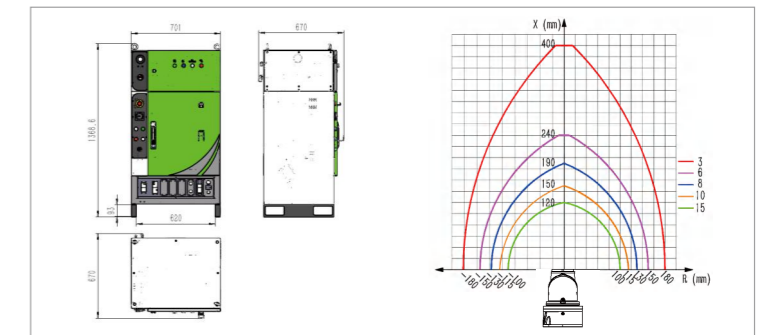
## BASE& END FLANGE MOUNTING SIZE



## GR-Series Painting Robot

<b>Structure</b>	6-Axis Series Structure	
<b>Installation</b>	Floor,Upside-down,Wall,Angle mount	
<b>IP Grade</b>	<b>Robot</b>	IP 65
	<b>Cabinet</b>	IP 54
<b>Explosion-Proof</b>	<b>GB-Gas</b>	Ex ib mb pxb IIC T4 Gb
	<b>GB-Dust</b>	Ex ib mb pxb IIIC T135°C Db
	<b>ATEX-Gas</b>	II 2G Ex pxb IIC 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>	0-40 °C
	<b>Humidity</b>	20-80RH (No Condensation)
<b>Arm Payload</b>	<b>Outer Arm</b>	15 kg
	<b>Inner Arm</b>	10 kg
<b>Weight</b>	<b>Robot</b>	245 kg
	<b>Cabinet</b>	140 kg

## CONTROL CABINET SIZE&WRIST END LOAD MAP



## SELECTION&CONFIGURATION TABLE

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