

# GR680-2700

**Maximum Reach:2715 mm /  
Lemma Wrist / Max Payload:8 kg**

## Highlights

Lemma wrist, no singularity in the front, especially suitable for painting for in-the-front workpiece;  
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 irregular shape parts painting: such as engineering engines, engineering machinery accessories, etc;  
Also can be used for multi-size regular parts painting, such as containers.

## Industries

Suitable for auto parts, logistics and transportation industries.



EFORT INTELLIGENT EQUIPMENT CO.,LTD.

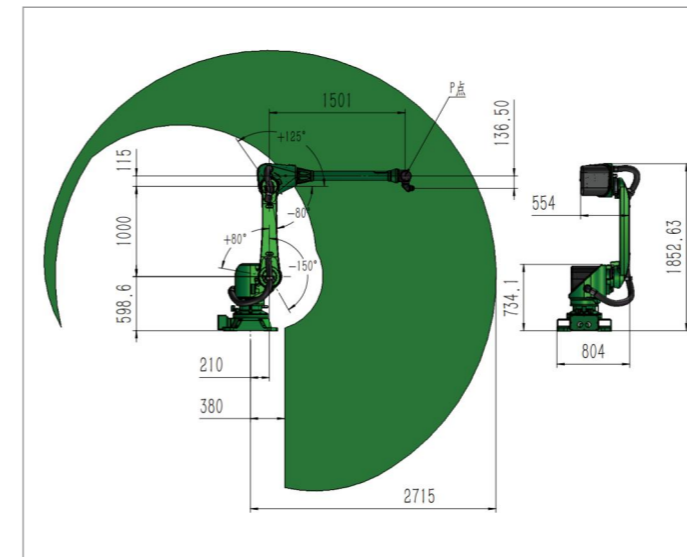
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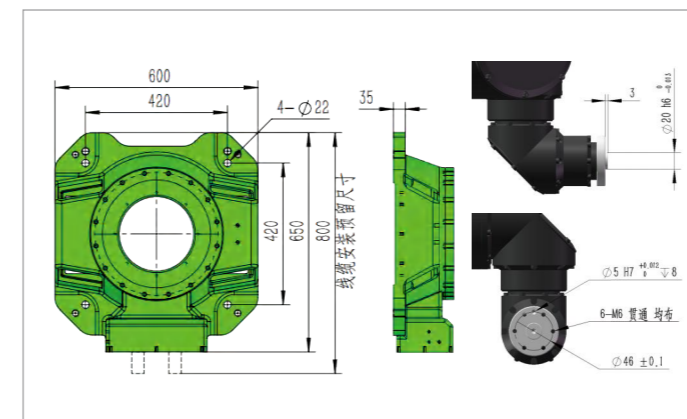
## SPECIFICATIONS

<b>Max. Payload on Wrist</b>	8 kg		
<b>Reach</b>	2715 mm		
<b>Repeatability</b>	±0.2 mm		
<b>Motion Range &amp; Maximum Speed</b>	<b>Motion Range</b>	<b>Maximum Speed</b>	
	<b>J1</b>	±175°	150°/sec
	<b>J2</b>	+80°/-150°	145°/sec
	<b>J3</b>	+125°/-80°	150°/sec
	<b>J4</b>	±360°	500°/sec
	<b>J5</b>	±360°	500°/sec
<b>Allowable Load Moment at Wrist</b>	<b>J4</b>	30 N·m	
	<b>J5</b>	25 N·m	
	<b>J6</b>	12 N·m	
<b>Allowable Load Inertia at Wrist</b>	<b>J4</b>	0.8 kg·m <sup>2</sup>	
	<b>J5</b>	0.59 kg·m <sup>2</sup>	
	<b>J6</b>	0.1 kg·m <sup>2</sup>	

## OPERATING SPACE



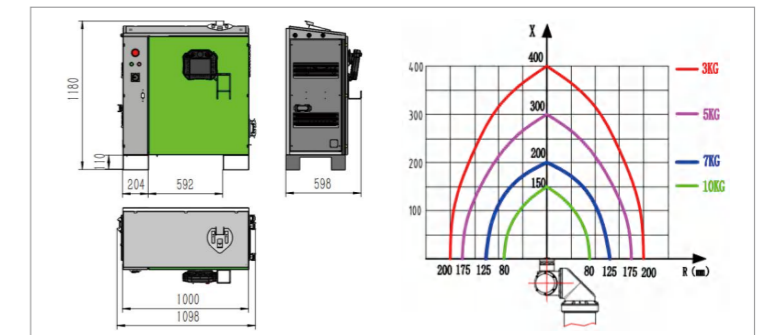
## BASE& END FLANGE MOUNTING SIZE



## GR-Series Painting Robot

<b>Structure</b>	6-Axis Series Structure		
<b>Installation</b>	Floor,Upside-down,Wall,Angle mount		
<b>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>	8 kg	
	<b>Inner Arm</b>	8 kg	
<b>Weight</b>	<b>Robot</b>	450 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	