

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

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.

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

Suitable for metal parts, furniture and other industries.



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Max. Payload on Wrist		15 kg	
Reach		1500 mm	
Repeatability		±0.15 mm	
Motion Range & Maximum Speed		Motion Range	Maximum Speed
	J 1	±160°	180°/sec
	J 2	±135°	180°/sec
	J 3	-60°/+240°	180°/sec
	J 4	±540°	360°/sec
	J 5	±540°	400°/sec
	J 6	±540°	450°/sec
Allowable Load Moment at Wrist	J 4	44.2 N•m	
	J 5	28.8 N.m	
	J 6	15.1 N•m	
Allowable Load Inertia at Wrist	J 4	1.17 kg•m ²	
	J 5	0.87 kg•m ²	
	J 6	0.15 kg•m ²	

Technical drawing of the R1503 robot arm, showing top and side views with dimensions.

Top View Dimensions:

- Horizontal distance from center to P point: 124
- Horizontal distance from P point to end effector: 803
- Vertical distance from center to end effector: 700
- Vertical distance from center to base: 626.6
- Radius of the circular workspace: R1503
- Radius of the inner circular workspace: R350
- Angles: $+240^\circ$, $+135^\circ$, -135° , 60°
- P point (P点)

Side View Dimensions:

- Horizontal distance from center to end effector: 157.34
- Vertical distance from center to end effector: 1479
- Horizontal distance from center to base: 407.6
- Horizontal distance from base to end effector: 623.5

*The final interpretation right belongs to EFORT Intelligent Robot Co., Ltd. Any updates will be made without prior notice.

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°C Db
	ATEX-Gas	II 2G Ex pxb IIC T4 Gb
	ATEX-Dust	II 2D Ex pxb IIIC T135°C Db
Environment Requirements	Voltage	AC380V(±10%)
	Power Capacity	5.0 kVA
	Temperature	0-40 °C
	Humidity	20-80RH (No Condensation)
Arm Payload	Outer Arm	15 kg
	Inner Arm	10 kg
Weight	Robot	245 kg
	Cabinet	140 kg

Item	Standard	Optional	
Driver	6 Axes	6+2 Axes	
Connector Cable	Static:8 m	Max:30 m	
	/	Towing Cable:Max 30 m	
Pendant	8 m	Max:30 m	
DI/DO	16/16	/	
AI/AO	/	Customized:Max 4	
Communication Mode	Ethercat	ProfiNet	Cclink
Memory Capacity	1GB	/	
Connector	Ethercat network port	/	
Software Package	Painting Package	/	
Belt Tracking	/	Optional	
Color	RAL6018	Customized	

Information Release Time 2025/04