

**Maxium Reach:2903 mm /
Hollow Wrist / Max Payload:15 kg**

Providing floor mount, invert mount, wall mount and other installation methods; the three-segment design of the upper arm covers and facilitates the disassembly, installation and integration.

The large diameter hollow wrist is configured and the paint pipe can be arranged inside the wrist for easy integration;

It supports the expansion of additional axis;

Optional offline programming studio, standard painting process application, built-in peripheral equipment I/O makes it easy to program and integrate;

Through the explosion-proof certification of China, EU and ITTC it can be used in zone 1 gas and zone 21 dust hazardous working environment.

Developed for automotive painting is suitable for interior, exterior and other automotive parts painting;
Suitable also for engineering vehicles, special vehicles and other large workpieces painting.

Suitable for auto and auto parts, commercial vehicles, special vehicles, two-wheeled and three-wheeled vehicles, rail transit, construction machinery, aviation, ships and other industries.



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Max. Payload on Wrist		15 kg	
Reach		2903 mm	
Repeatability		±0.15 mm	
Motion Range & Maximum Speed		Motion Range	Maximum Speed
	J 1	± 160°	100%/sec
	J 2	± 135°	100%/sec
	J 3	-65°/+245°	120%/sec
	J 4	± 540°	360%/sec
	J 5	± 540°	420%/sec
	J 6	± 540°	530%/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 R2903 robot arm, showing top and side views with dimensions.

Top View Dimensions:

- Horizontal distance from center to end effector: 450
- Horizontal distance from center to end effector: 1503
- Horizontal distance from center to end effector: 129
- Vertical distance from center to end effector: 102
- Angle from vertical to end effector: $+24.5^\circ$
- Angle from vertical to end effector: -13.5°
- Angle from vertical to end effector: $+13.5^\circ$
- Radius of the circular base: R1503
- Radius of the circular base: R1503
- Radius of the circular base: R2903
- Radius of the circular base: R1400
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Side View Dimensions:

- Horizontal distance from center to end effector: 400
- Horizontal distance from center to end effector: 780
- Horizontal distance from center to end effector: 212
- Vertical distance from center to end effector: 2394

[illegible]

*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
IP Grade	Robot	IP 65
	Cabinet	IP 54
Explosion-Proof	Gas	Ex db ib pxb IIC T4 Gb
	Dust	Ex ib pxb tb IIIC T135°C Db
Environment Requirements	Voltage	AC400V(±10%)
	Power Capacity	11 kVA
	Temperature	0-45 °C
	Humidity	RH≤80% (No Condensation)
Arm Payload	Outer Arm	15 kg
	Inner Arm	15 kg
Weight	Robot	650 kg
	Cabinet	160 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	/	
Software Package	Painting Package	/	
Belt Tracking	/	Optional	
Color	RAL6018	Customized	

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