GR630-1900

Maxium Reach:1929 mm / Lemma Wrist / Max Payload:3 kg

Highlights

Self-teaching function with user friendly interface;
Lemma wrist, no singularity in the front, especially suitable for painting for in-the-front workpiece;
Painting application software is default in robot, with online tracking function, and aux axis integration possibilty;
ATEX explosion-proof certification of China and EU, can be used in Zone 1 gas and Zone 21 dust dangerous operation environment;
Especially suitable for hardware parts, furniture, 3C plastic parts and other irregular shape parts.

Applications

Self-teaching function supported. 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, auto parts, furniture, motorcycle parts and other industries.

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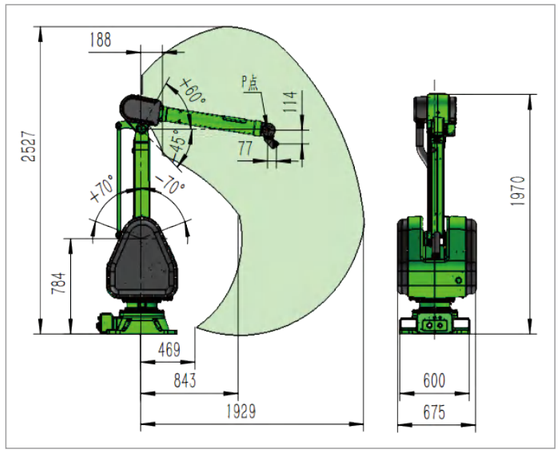
SPECIFICATIONS

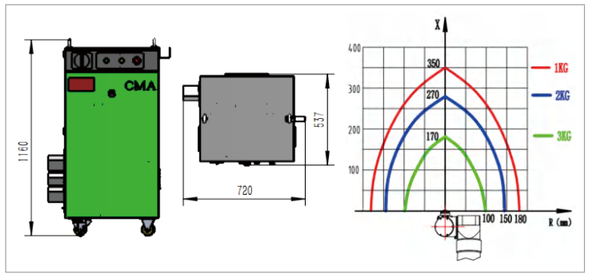
Max. Payload on Wrist		3 kg	
Reach		1929 mm	
Repeatability		±1 mm	
Motion Range & Maximum Speed		**Motion Range**	**Maximum Speed**
	J1	±120°	120°/sec
	J2	±70°	120°/sec
	J3	+60°/-45°	120°/sec
	J4	±360°	540°/sec
	J5	±360°	540°/sec
	J6	±360°	540°/sec
Allowable Load Moment at Wrist	**J4**	9.8 N·m	
	J5	8.4 N·m	
	J6	3 N·m	
Allowable Load Inertia at Wrist	**J4**	0.12 kg·m²	
	J5	0.08 kg·m²	
	J6	0.02 kg·m²	

Structure		6-Axis Series Structure
Installation		Floor, Upside-down
Safety Level		EN ISO13849 PLd
IP Grade	**Robot**	IP 65
	Cabinet	IP 52
Explosion-Proof	**China**	Ex ib mb px IIC T4 Gb
	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	4.0 kVA
	Temperature	0-45 ℃
	Humidity	20-80RH (No Condensation)
Arm Payload	**Outer Arm**	3 kg
	Inner Arm	3 kg
Weight	**Robot**	400 kg
	Cabinet	90 kg

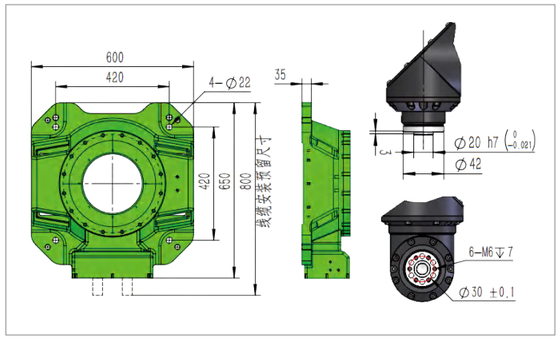
OPERATING SPACE



CONTROL CABINET SIZE&WRIST END LOAD MAP



BASE& END FLANGE MOUNTING SIZE



SELECTION&CONFIGURATION TABLE

Item	Standard	Optional	
Driver	6 Axes	6+1 Axes	
Connecter Cable	Static	Static	Flexible
	8 m	Max:16 m	
Pendant	10 m	Max:20 m	
DI/DO	16/16	Customized	
Safety DI/DO	8/4	Customized	
AI/AO	/	Customized	
Communication Mode	ProfiNet	EtherCAT	
Memory Capacity	512 Mb	/	
Connecter	USB/TCPIP	/	
Software Package	Painting Package	Visual Programming	
Program Mode	Pendant	/	
Color	RAL6018	Customized	

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

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