

新松超低飞溅薄板焊接套机系统

SIASUN ULTRA-LOW SPATTE THIN PLATE WELDING SYSTEM

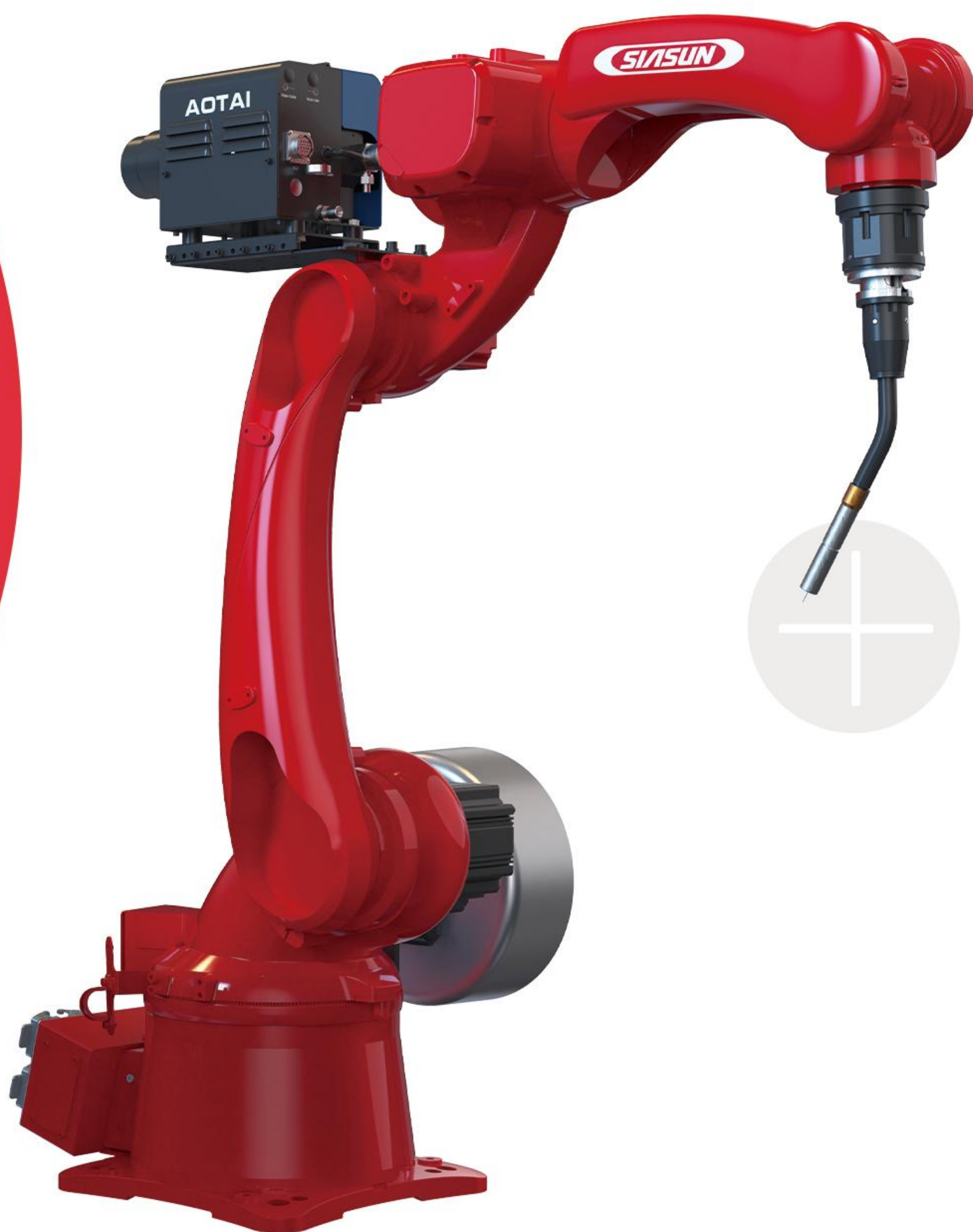
超低飞溅 · 高效焊接 · 极致温控 · 您最得力的焊接帮手

Ultra-Low Spatter · High-Efficiency Welding · Precision Temperature Control · Your Ultimate Production Partner



新松焊接机器人系统

SIASUN Welding Engineer System



控制器Controller



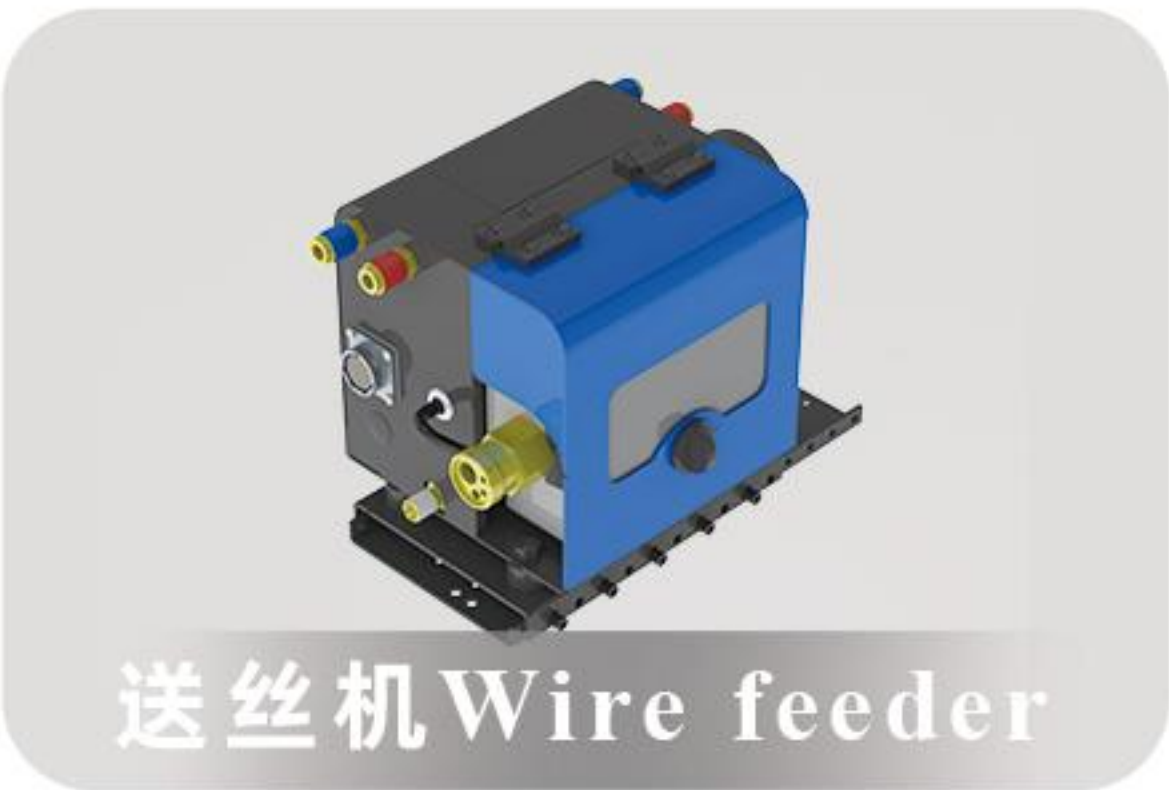
示教器Teach pendant



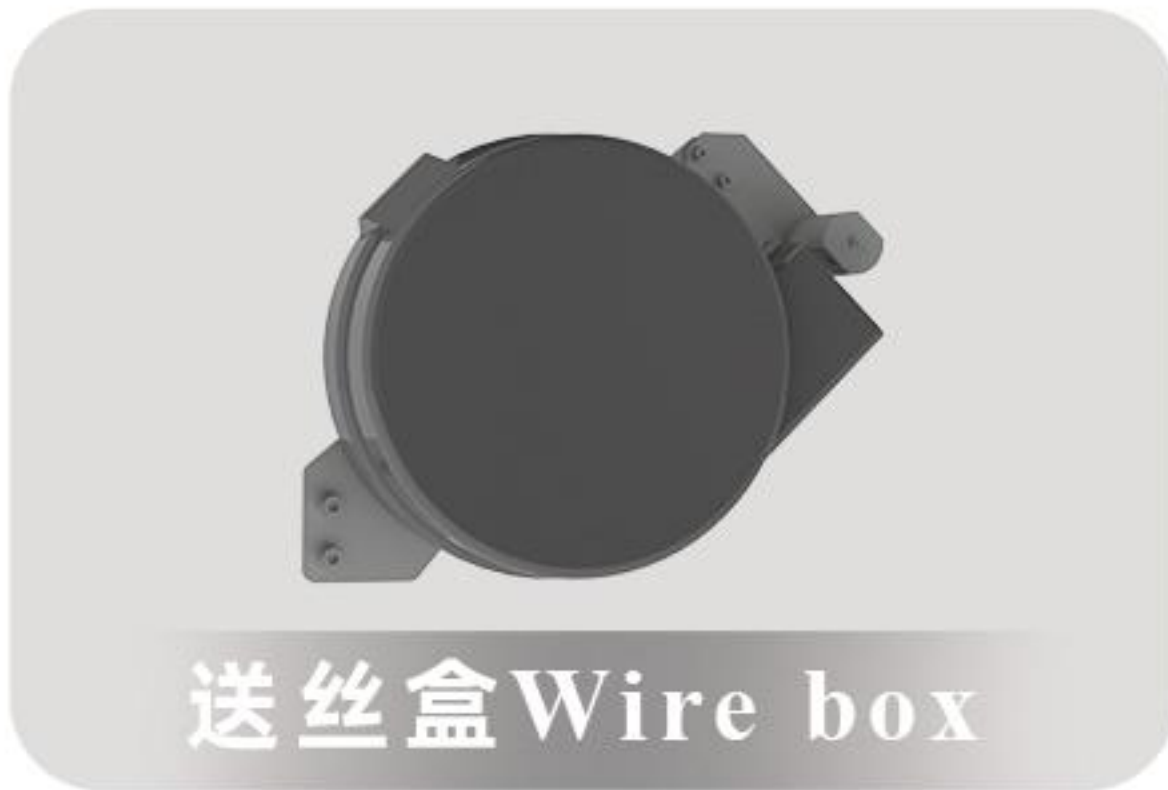
焊枪 Welding torch
GL350N-HDA
TRM352P



焊机Welding machine
MAG-350Pro Plus



送丝机Wire feeder



送丝盒Wire box

以SR系列工业机器人为核心，搭载新型智能焊接控制系统，专为170A以上大电流焊接环境设计，主要适用于薄板碳钢、普通低合金钢、镀锌板及不锈钢等材质，实现超低飞溅与高效稳定的自动化焊接。

SIASUN SR-series robot equipped with a new intelligent welding control system, this solution is specifically designed for high-current welding environments exceeding 170A. It is ideal for thin-gauge carbon steel, mild low-alloy steel, galvanized steel, stainless steel, and other materials, delivering ultra-low spatter and high-efficiency.

焊机参数

Welding machine parameters

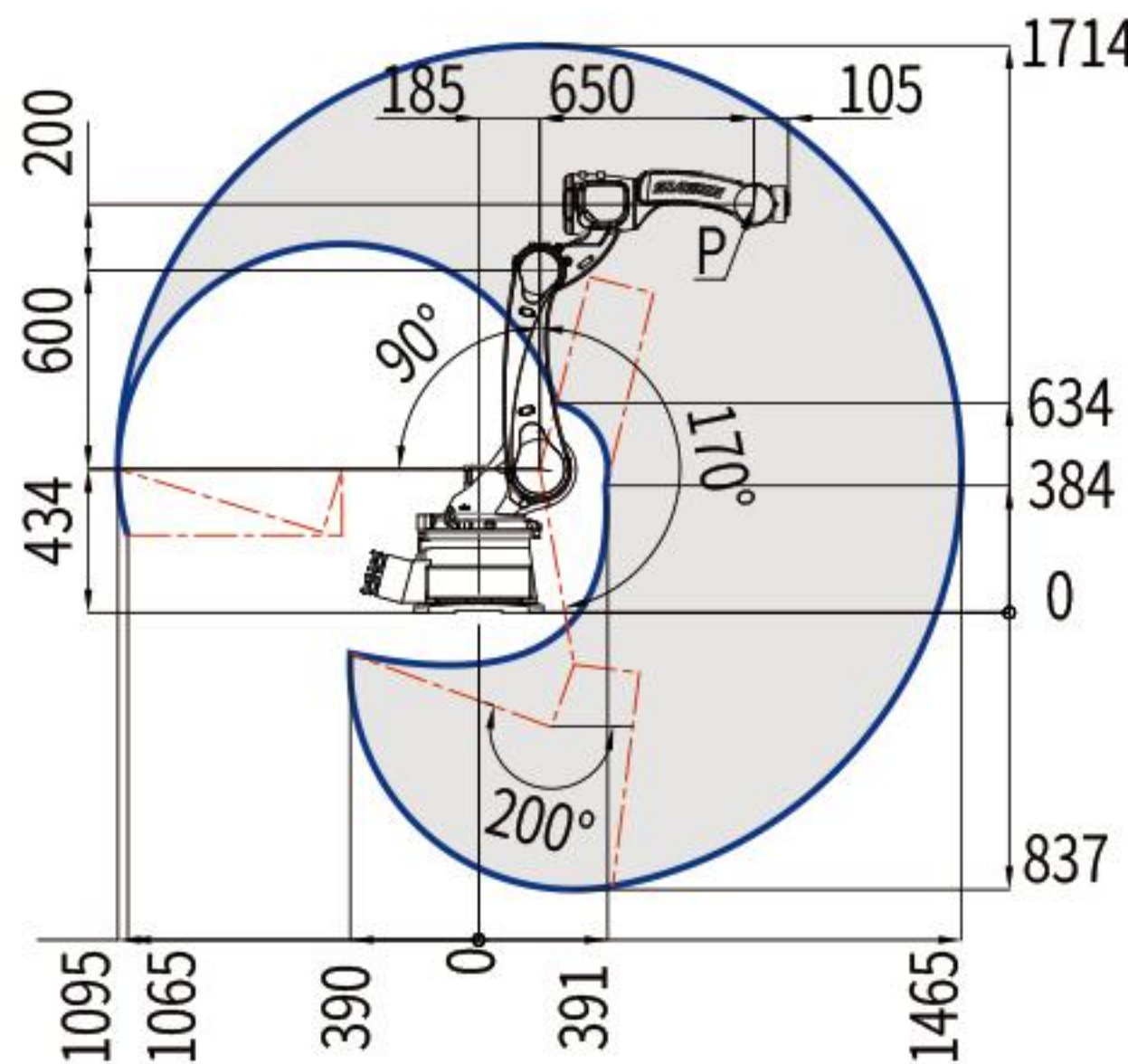
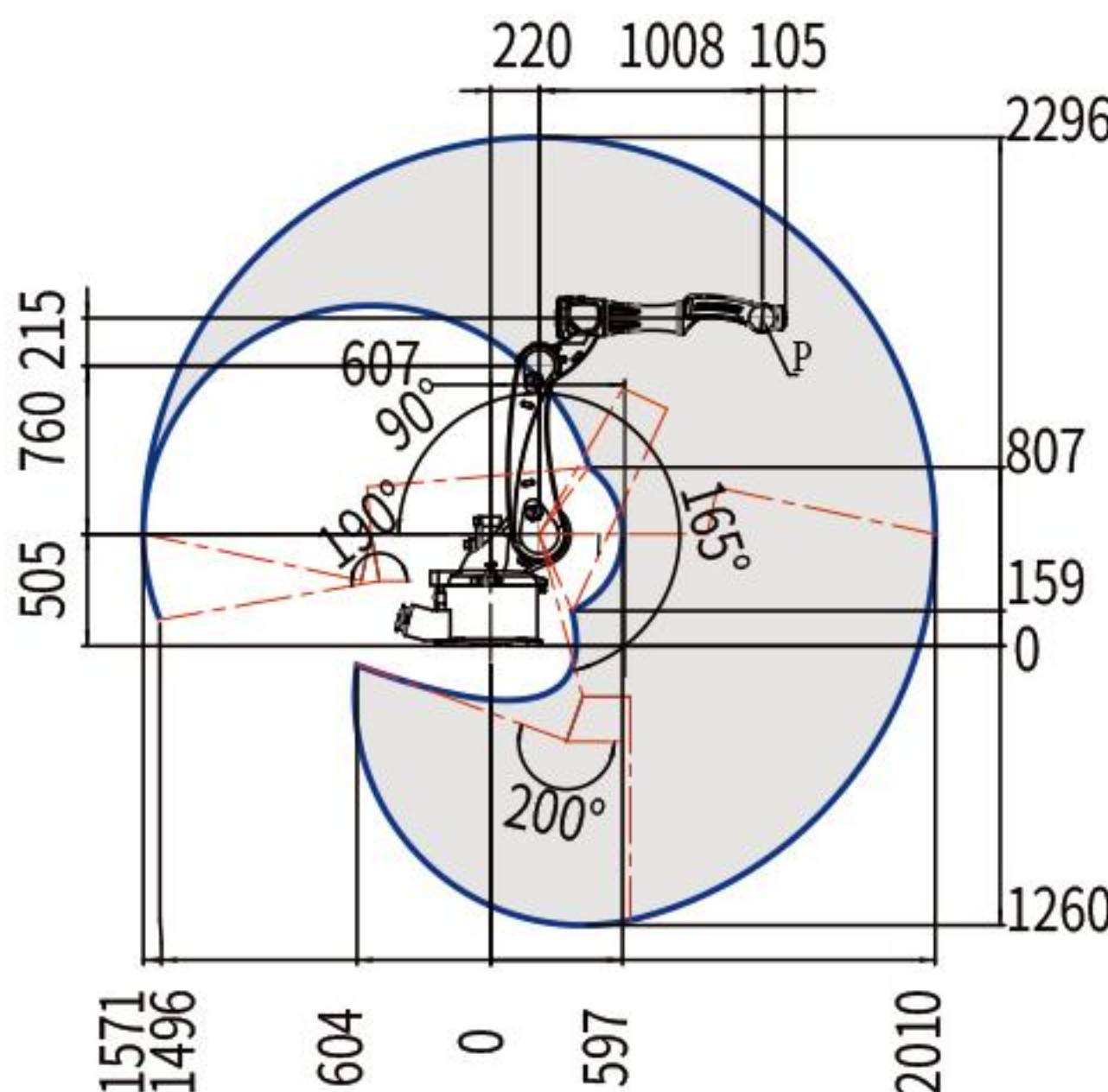
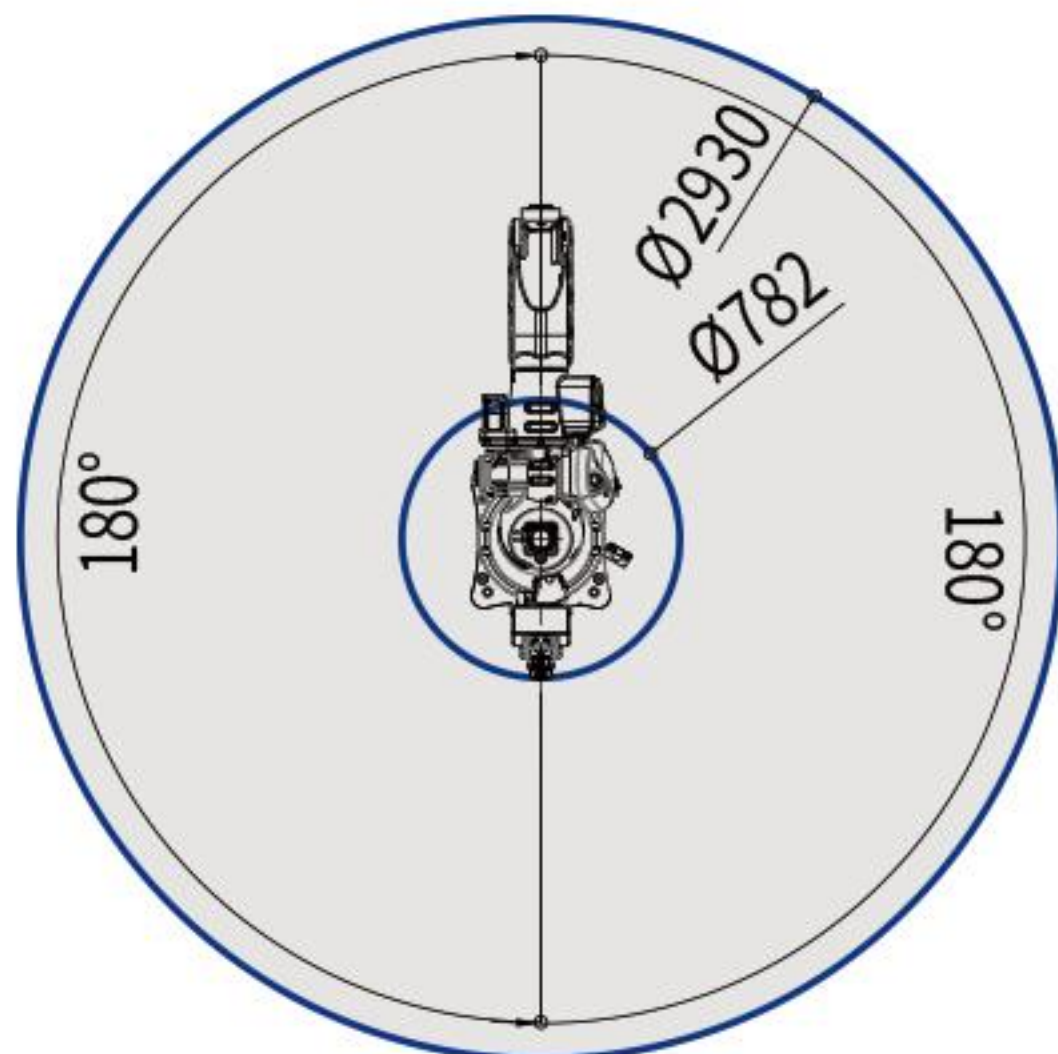
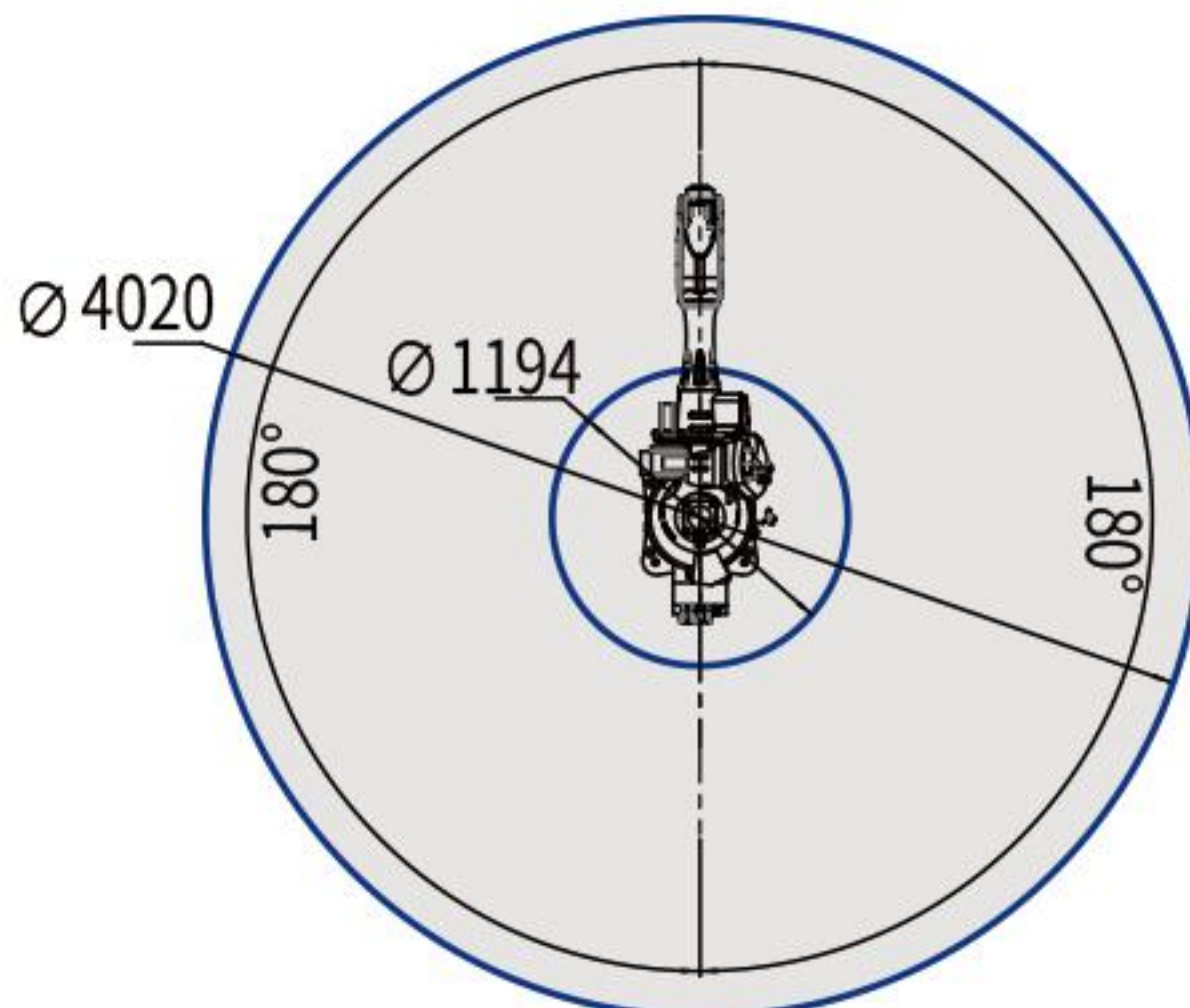
焊机型号Model	MAG-350Pro Plus
额定输入电压/频率Rated Input Voltage/Frequency	三相Three-phase 380V±20%/50Hz
额定输入容量Rated Input Power	14kVA
额定输入电流Rated Input Current	28A
额定输出电压Rated Output Voltage	31.5V
额定负载持续率Rated duty cycle	100%
输出空载电压No-Load Output Voltage	75V
输出电流/电压Output Current/Voltage Range	60/17~350/31.5(A/V)
焊丝直径Wire Diameter	0.8mm、1.0mm、1.2mm
送丝类型Wire feed type	推丝Push wire feed
气体流量Gas flow rate	15~20 (L/min)
焊枪冷却方式Torch Cooling Method	气冷Air Cooling
外壳防护等级Shell Protection Level	IP23
绝缘等级Insulation Level	H
外形尺寸Appearance size LWH	63.5cm×32cm×63cm
重量Weight	60kg



工业机器人

Industrial robot

新松“焊接工程师”系列工业机器人，专为焊接领域定制设计！
流线型外观、高刚性轻量化的机身配合强劲的驱动力，实现极致速度精度。高质量硬件配置与超高性价比的完美融合，带给您稳定、高效、可靠的使用体验！
The SIASUN SR series industrial robots are specially designed for the welding field.
Streamlined appearance,high rigidity and lightweight body,combined with strong driving force,achieve ultimate speed and accuracy.

			
型号Type		SR12A-12/1.46	SR25A-12/2.01
负载能力Max payload		12kg	12kg
重复定位精度Repeatability		±0.03mm	±0.07mm
最大工作半径Max.reach		1465mm	2010mm
运动范围 Motion Range	J1	±180° *	±180°
	J2	+ 90°, -170°	+ 90°, -165°
	J3	+ 150°, -90°	+ 160°, -85°
	J4	±180°	±180°
	J5	+ 145°, -160°	+ 145°, -160°
	J6	±360°	±360°
最大运动速度 Maximum Speed	J1	200°/s	200°/s
	J2	200°/s	220°/s
	J3	220°/s	220°/s
	J4	400°/s	400°/s
	J5	430°/s	430°/s
	J6	720°/s	720°/s
手腕允许力矩 Moment	J4	23N·m	23N·m
	J5	20N·m	20N·m
	J6	9N·m	9N·m
手腕允许惯量 Inertia	J4	0.4kg·m ²	0.4kg·m ²
	J5	0.38kg·m ²	0.38kg·m ²
	J6	0.1kg·m ²	0.1kg·m ²
本体重量Weight		130kg	250kg
防护等级(腕部)Protection(wrist)		IP65	IP65
走线方式Wiring method		内置走线built-in wiring	
SR12A-12/1.46		SR25A-12/2.01	
			
			
*侧装时J1轴运动范围为±30°			

Flight welding function: According to the pre-arcing and pre-arcing time set by the user, the arcing and reversing process is started in advance.

The diagram illustrates a welding sequence on a horizontal axis. It consists of five rectangular pulses representing welding, each labeled "焊接" (Welding) above and "焊缝" (Weld Seam) below. Between these pulses are four gaps representing dry runs, each labeled "空走" (Dry Run) above and "Dry Run" below. The sequence starts with a welding pulse, followed by a dry run, and ends with a welding pulse. The entire sequence is labeled "焊缝 Weld Seam" at the bottom.

Rotation mirror translation function:The function of rotating image translation can directly convert the point data of the specified range of the specified job to improve the teaching efficiency. Including job offset, image offset, Angle input offset.

Breakpoint recovery function: In view of the situation that there is an alarm or other reasons to stop the robot welding process, when the welding robot program starts again, the break point recovery function can be performed near the break point for intermittent welding.

选配功能
Optional function



极佳的焊接性能

Exceptional Welding Efficiency



「 超低飞溅，超短弧脉冲，恒熔深 」
Ultra-low spatter, Ultra-short arc pulse, Constant penetration depth 」

Ultra-low spatter

超低飞溅

传统低飞溅工艺飞溅量降低80%，超过170A大电流焊接时，易产生较大飞溅量。新松超低飞溅套机采用Pro标配斩波器，飞溅更小，低飞溅工艺范围更宽。

Traditional low-spatter processes reduce spatter by 80%, but when welding with currents exceeding 170A, larger spatter amounts are prone to occur. SIASUN's ultra-low-spatter system adopts the Pro-standard chopper, achieving even lower spatter and a broader applicable range for low-spatter processes.

Intelligent process

智能工艺

优化的引弧、收弧及去球功能，内置焊接专家数据库，可自动智能匹配最佳参数组合。

Optimized arc initiation, arc termination, and crater control functions, coupled with a built-in welding expert database, enable automatic and intelligent matching of optimal parameter combinations.

Ultra-short arc pulse

超短弧脉冲

采用短弧脉冲工艺，可精确控制熔滴短路过渡，电弧降低，电弧更稳定，焊接速度更快，热输入更低。

By adopting the short-arc pulsed process, it enables precise control over the short-circuiting transfer of molten droplets, reduces arc length, ensures a more stable arc, achieves faster welding speeds, and lowers heat input.

High-efficiency welding

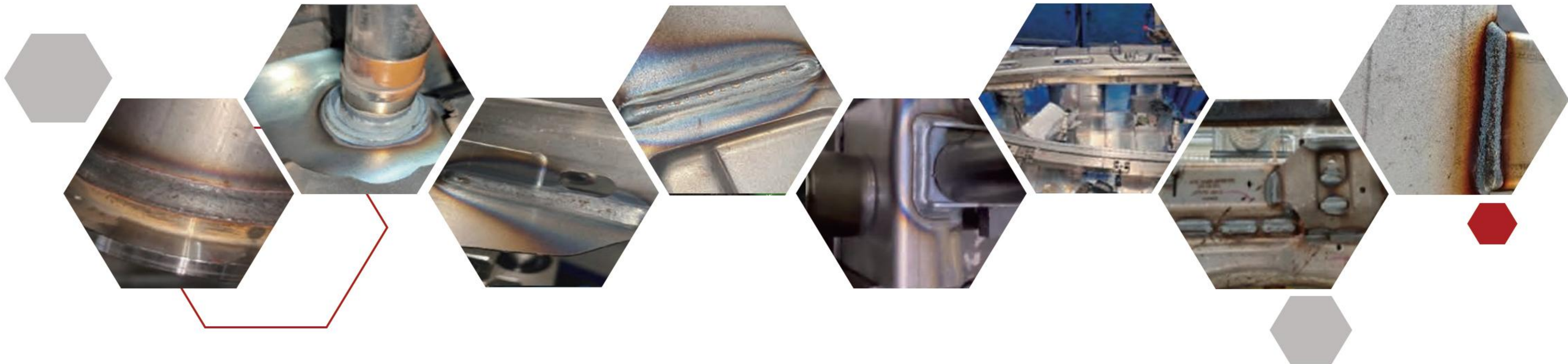
高效焊接

具有超高动态响应速度，系统运算时间提升至纳秒级，实现精细化电弧控制，电弧稳定性高，焊接一致性强。

Features an ultra-high dynamic response speed, with system operation time upgraded to the nanosecond level for refined arc control. This ensures high arc stability and consistent welding performance.

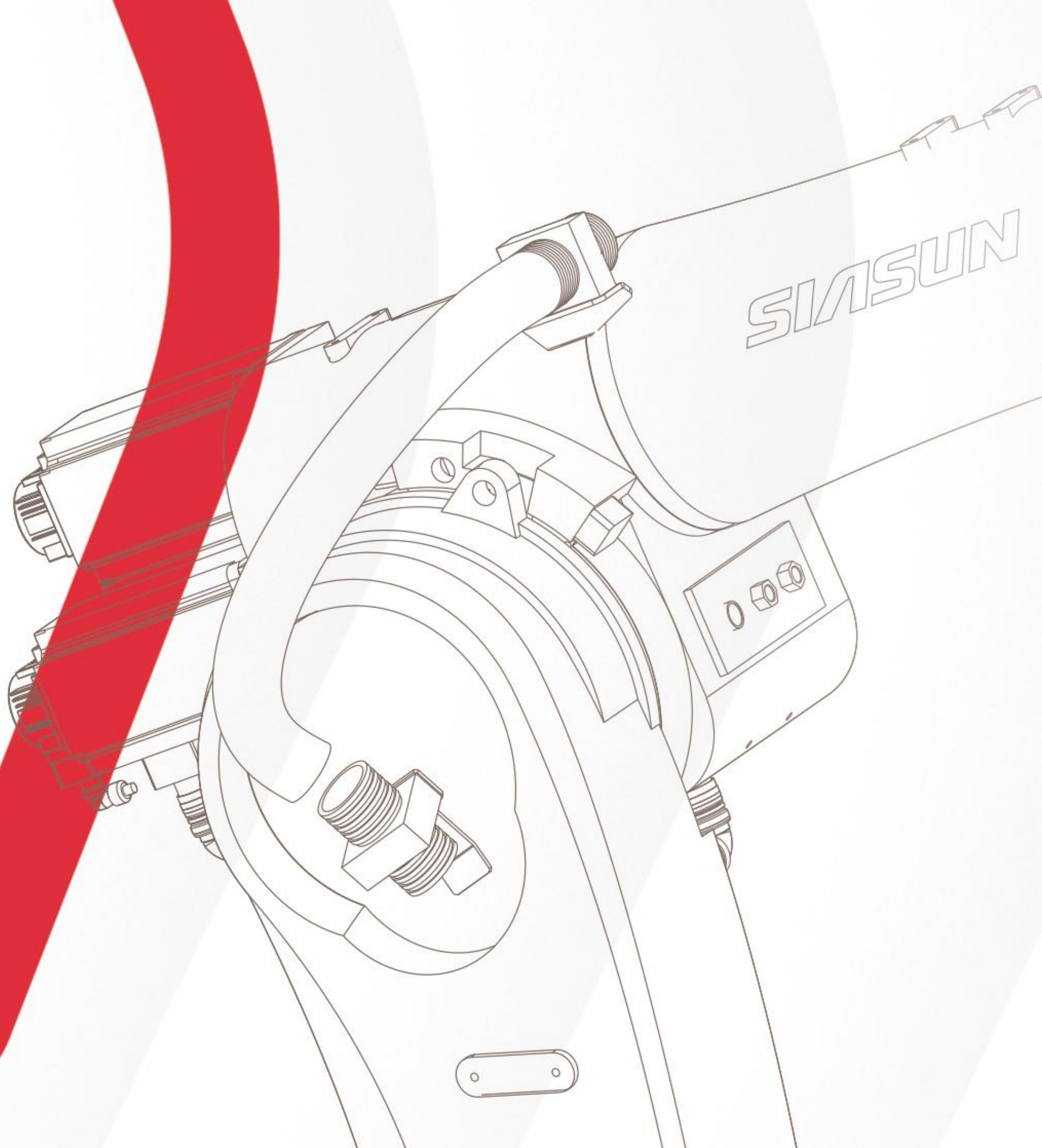
效果展示

Effect Demonstration





SIASUN



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