

新松薄板焊接套机系统

SIASUN THIN PLATE WELDING SYSTEM

超凡品质 · 轻松焊接 · 经济实用 · 您最得力的焊接帮手

Precision Engineering · Smart Welding · Cost-effective Design · 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
Dex2 350LDR
NBC-350RL



送丝机 Wire feeder



送丝盒 Wire box

以SR系列工业机器人为主体，搭载新型智能焊接控制系统，为您打造专属焊接设备，助您轻松实现焊接自动化。
SIASUN SR-series robot equipped with a new intelligent welding control system, creating exclusive welding equipment for you to easily achieve welding automation

焊机参数

Welding machine parameters

焊机型号Model	NBC-350RL	Dex2 350LDR
控制方式Control Method	全数字Fully Digital	全数字Fully Digital
额定输入电压/频率Rated Input Voltage/Frequency	三相 Three-phase 380V±10%/50Hz	三相 Three-phase 380 V±25%/40~70Hz
额定输入容量Rated Input Power	14kVA	13.7kVA
额定输入电流Rated Input Current	21A	36A
额定输出电压Rated Output Voltage	31.5V	31.5V
暂载率Rated Duty Cycle	60%	100%
输出空载电压No-Load Output Voltage	96V	77V
输出电流/电压Output Current/Voltage Range	60/17~350/31.5(A/V)	350A/31.5V
焊丝直径Wire Diameter	0.8mm、1.0mm、1.2mm	0.8mm、1.0mm、1.2mm
送丝速度Wire feeding speed	1~22 (m/min)	0.5~28 (m/min)
工作温度Working temperature	-10℃~40℃	-10℃~40℃(焊接电源-39℃可启机) Welding power supply can be started at -39℃
焊枪冷却方式Torch Cooling Method	风冷 Air Cooling	风冷 Air Cooling
外壳防护等级Shell Protection Level	IP23	IP23 S
绝缘等级Insulation Level	H	H
功率因数Power factor	0.77	0.92
外形尺寸Appearance size LWH	660mm×320mm×560mm	647mm*291mm*572mm
重量Weight	55kg	40kg

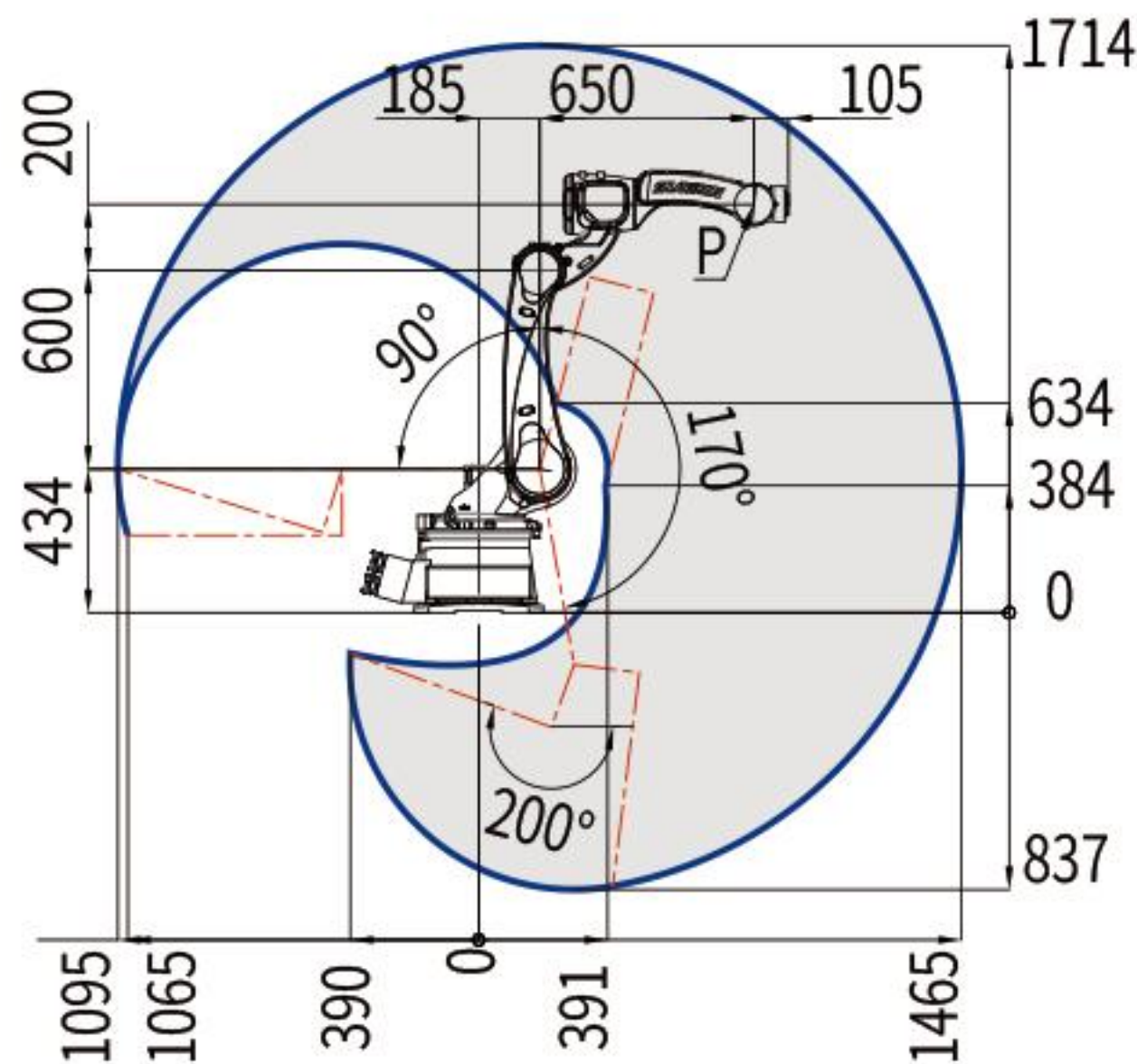
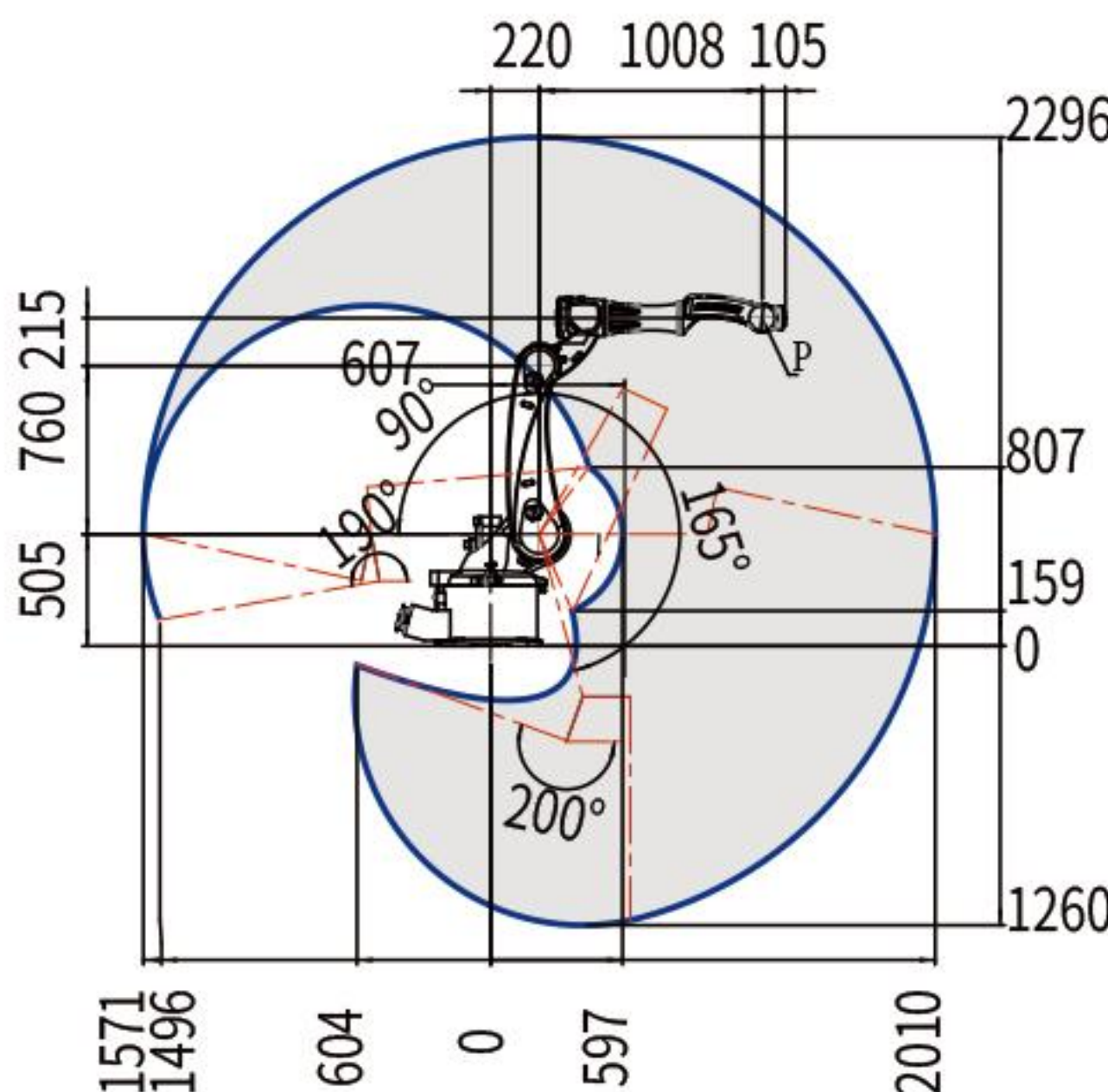
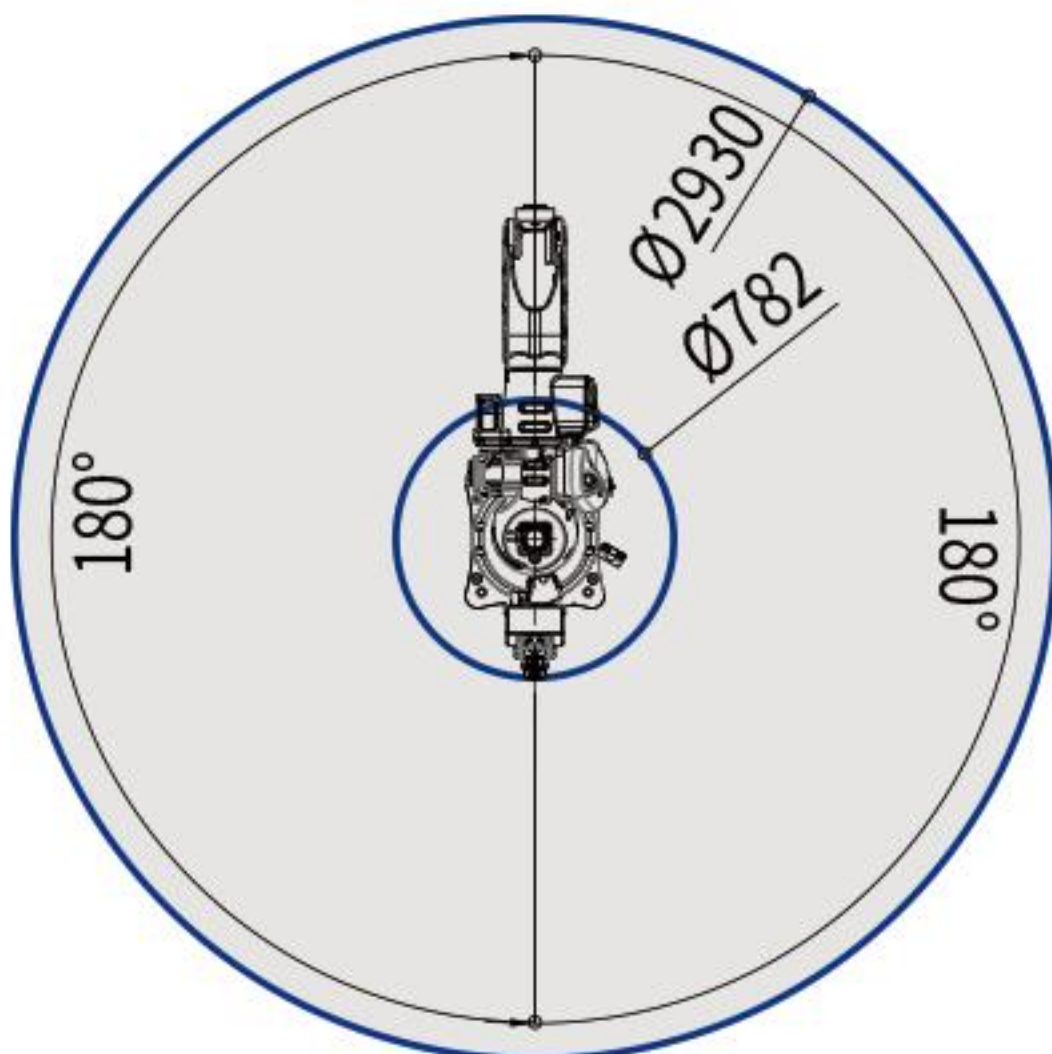
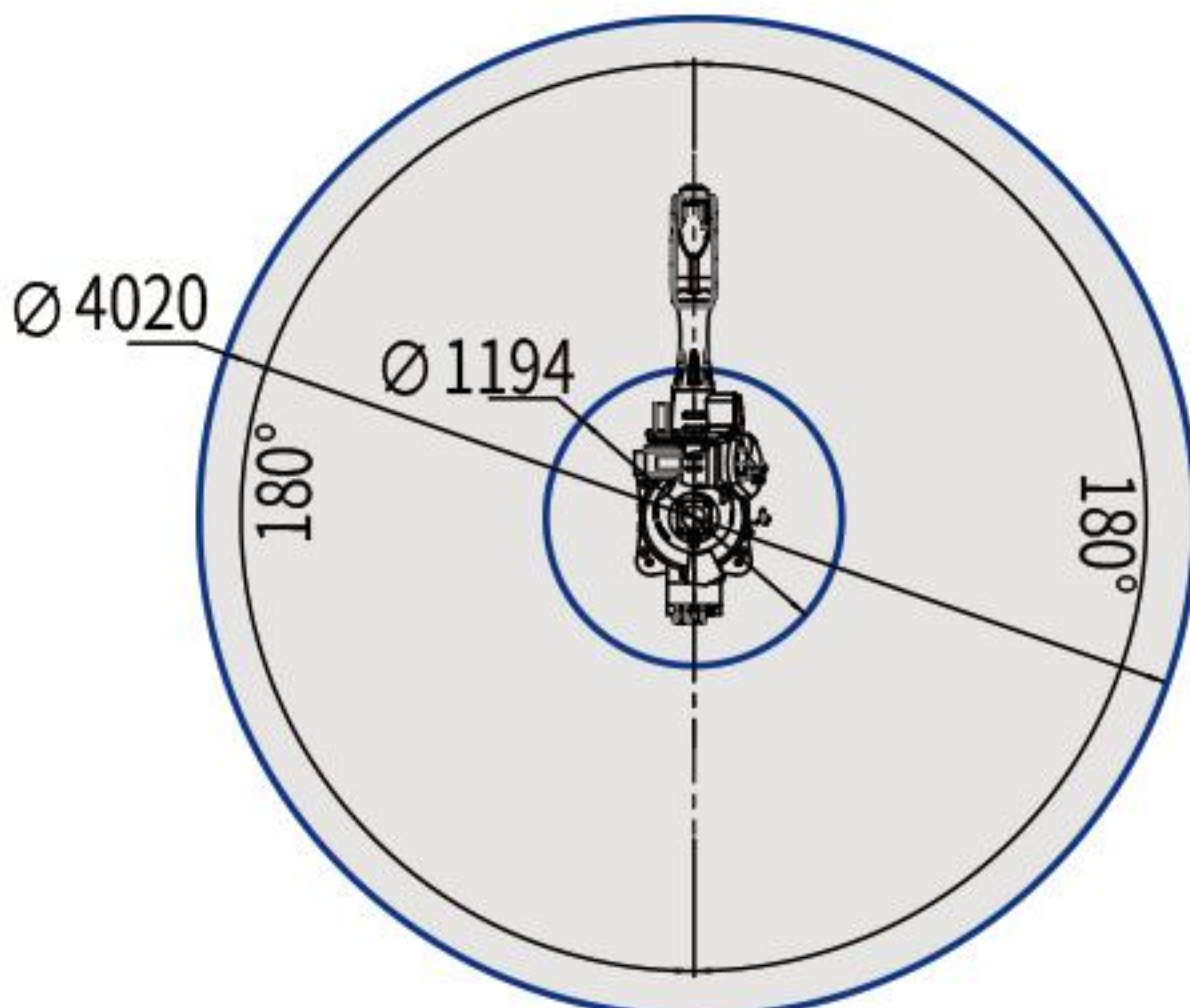


工业机器人

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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·m²	0.4kg·m²
	J5	0.38kg·m²	0.38kg·m²
	J6	0.1kg·m²	0.1kg·m²
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.

Timing diagram for the welding process. The diagram shows a sequence of pulses and gaps. The pulses are labeled "Welding" and the gaps are labeled "Dry Run". The sequence is: Welding, Dry Run, Welding, Dry Run, Welding, Dry Run, Welding. Below the diagram, the text "焊缝 Weld Seam" is shown with an arrow pointing to the right.

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.

Reservation function: According to the actual needs of the user to design their own special booking box (multiple, booking boxes need to be equipped with another) corresponding to multiple stations, each booking box has a start button, each start button corresponds to a job, the user can press the start button in the order to start each button corresponding to the job.

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.



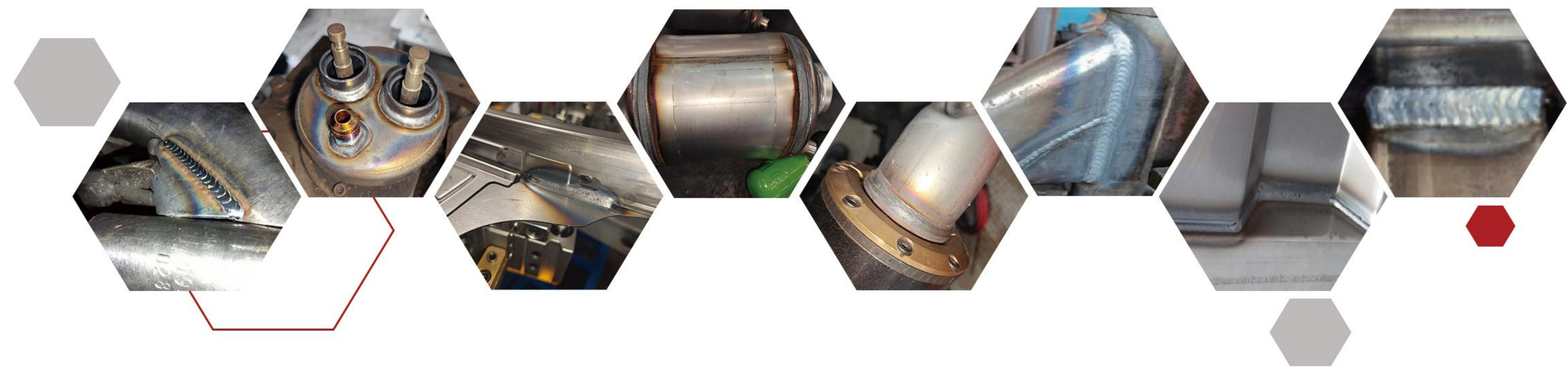
极佳的焊接性能

Exceptional Welding Efficiency

- 110KHZ高频硬件系统结合专利算法，实现精准“斩波”控制，极大降低了液桥爆断及电磁排斥带来的飞溅，让熔池更平静、焊缝成型更加美观。
 - 电弧柔和、飞溅细小，飞溅附着少，相比普通直流焊机飞溅重量降低90%。
 - 熔滴过渡平稳，熔池平静，热输入低，搭桥能力强，适合大间隙薄板焊接。
 - 低飞溅区域宽：薄板碳钢、 $\phi 1.2\text{mm}$ 焊丝，低飞溅区域可至210A。
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- The 110kHz high-frequency hardware system, integrated with proprietary algorithms, enables precise 'chopping' control, significantly reducing spatter caused by liquid bridge rupture and electromagnetic repulsion. This results in a smoother molten pool and more aesthetically pleasing weld bead formation.
 - Soft arc, fine spatter, less spatter adhesion, 90% less spatter weight compared to ordinary DC machines.
 - Smooth molten droplet transfer, calm molten pool, low heat input, strong bridging capability, suitable for large-gap thin plate welding.
 - Wide low-spatter range: Thin-sheet carbon steel, 1.2mm wire; low-spatter performance up to 210A.

效果展示

Effect Demonstration



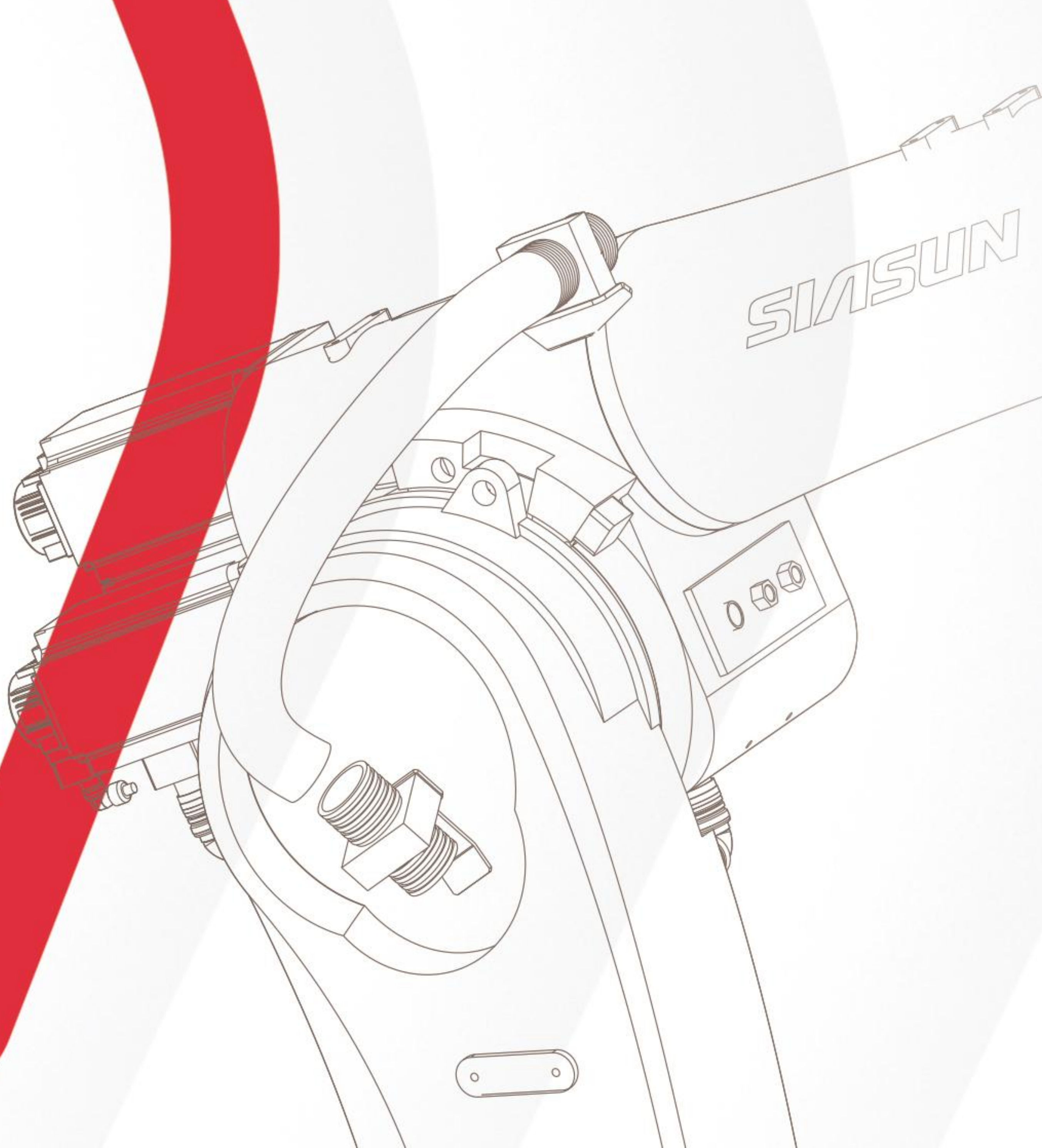
典型案例

Application





SIASUN



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