

新松打磨套机系统

SIASUN GRINDING COMPLETE SET SYSTEM

超凡品质 · 轻松磨抛 · 经济实用 · 您最得力的磨抛帮手

Precision Engineering · Smart Grinding · Cost-effective Design · Your Ultimate Production Partner.



新松打磨机器人系统

SIASUN Robotics Grinding Robot System



控制器 Controller

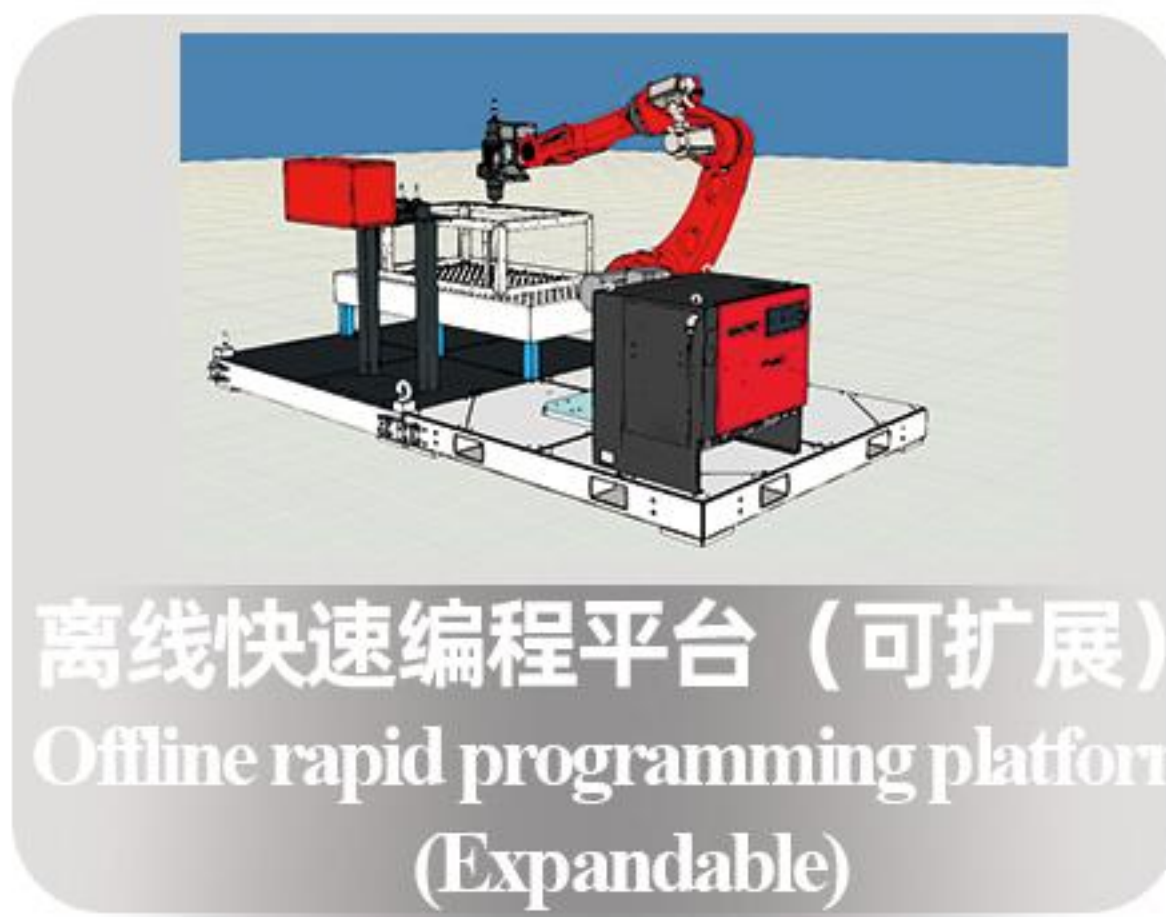


打磨工艺包
Grinding process package

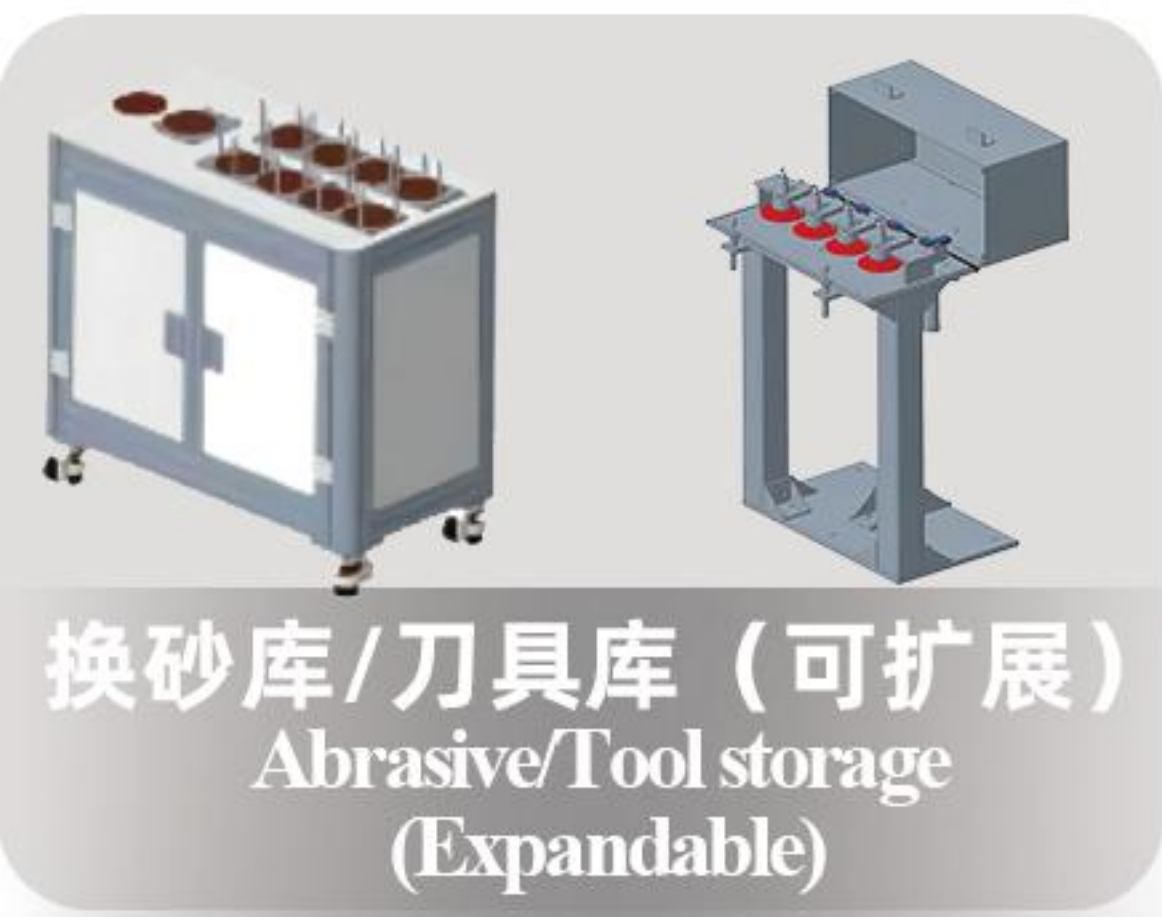
产品可配备独立单/多磨头打磨工具，实现更为精准的压力控制，同时支持任意姿态的打磨抛光，凭借优异的力控与浮动性能，显著降低了机器人轨迹精度的要求，从而让调试过程更加高效。
This product can be equipped with independent single/multi-head grinding tools, enabling enhanced pressure control and supporting grinding/polishing in arbitrary postures. Leveraging advanced force control and adaptive compliance, it significantly reduces robot trajectory accuracy requirements, thereby streamlining the debugging process.

- 单头式打磨头：轻量化主轴设计，高扭矩，高转速，打磨效果更好，价低质优
Single-Head Grinding Head: Lightweight spindle design with high torque and high-speed rotation delivers superior grinding performance at lower cost.
- 双头式打磨头：采用双磨料设计，一台主轴解决两道工艺，结构紧凑，投资回报率翻倍。
Dual-Head Grinding Head: Dual-abrasive design enables a single spindle to handle two processes, featuring compact structure and doubling ROI.
- 独立三头式打磨头：配备3组独立浮动力控系统，120°分布设计，体积紧凑，避免干涉。
Independent Tri-Head Grinding Head: integrate three independent floating force control systems, featuring a 120° distributed design, compact size, and interference-free operation.

打磨工具 Grinding tool



离线快速编程平台（可扩展）
Offline rapid programming platform
(Expandable)



换砂库/刀具库（可扩展）
Abrasive/Tool storage
(Expandable)

3大打磨场景

3 Grinding Scenario



应用举例：钣金焊缝、铝焊缝打磨等
Examples of Use: Metal Sheet Welding Seams, Aluminum Welding Seam Grinding, etc.



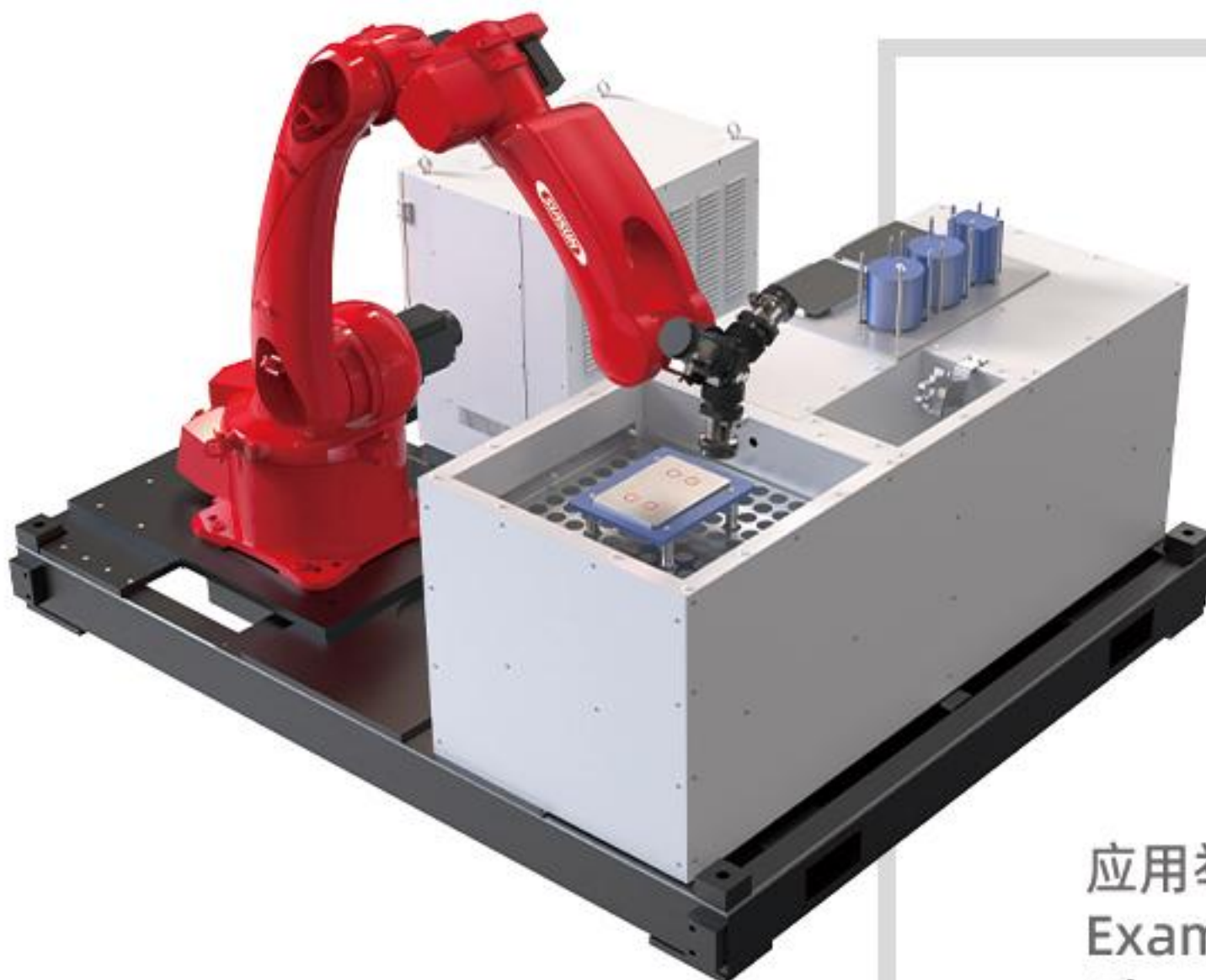
轻量化打磨场景
Lightweight
SR25A-35/1.80



应用举例：中厚板焊缝，铸件分模线冒口清理等
Examples of Use: Medium and Heavy Plate Welding Seams, Casting Parting Line Riser Cleaning, etc.



中/重型打磨场景
Medium/heavy-duty
SR50A-70/2.15



应用举例：3C电子注塑件，铸铝件抛光等
Examples of Use: 3C Electronics Injection Molded Parts, Casting Aluminum Parts Polishing, etc.



表面抛光场景
Surface Polishing
SR25A-25/1.80

工具型号 Tool Model	单头式 Single-Head
功率 Power rating	1.3kw
最大转速 Maximum speed	6000RPM
额定转速 Rated speed	3000RPM
打磨力 Grinding force	0~300N
额定扭矩 Rated torque	3.9N/m
径向浮动 Radial float	35mm
总重量 Weight	12.8kg

工具型号 Tool Model	双头式 Dual-Head
功率 Power rating	2.2kw
最大转速 Maximum speed	8000RPM
额定转速 Rated speed	6000RPM
打磨力 Grinding force	0~500N
额定扭矩 Rated torque	3.6N/m
径向浮动 Radial float	35mm
总重量 Weight	26kg

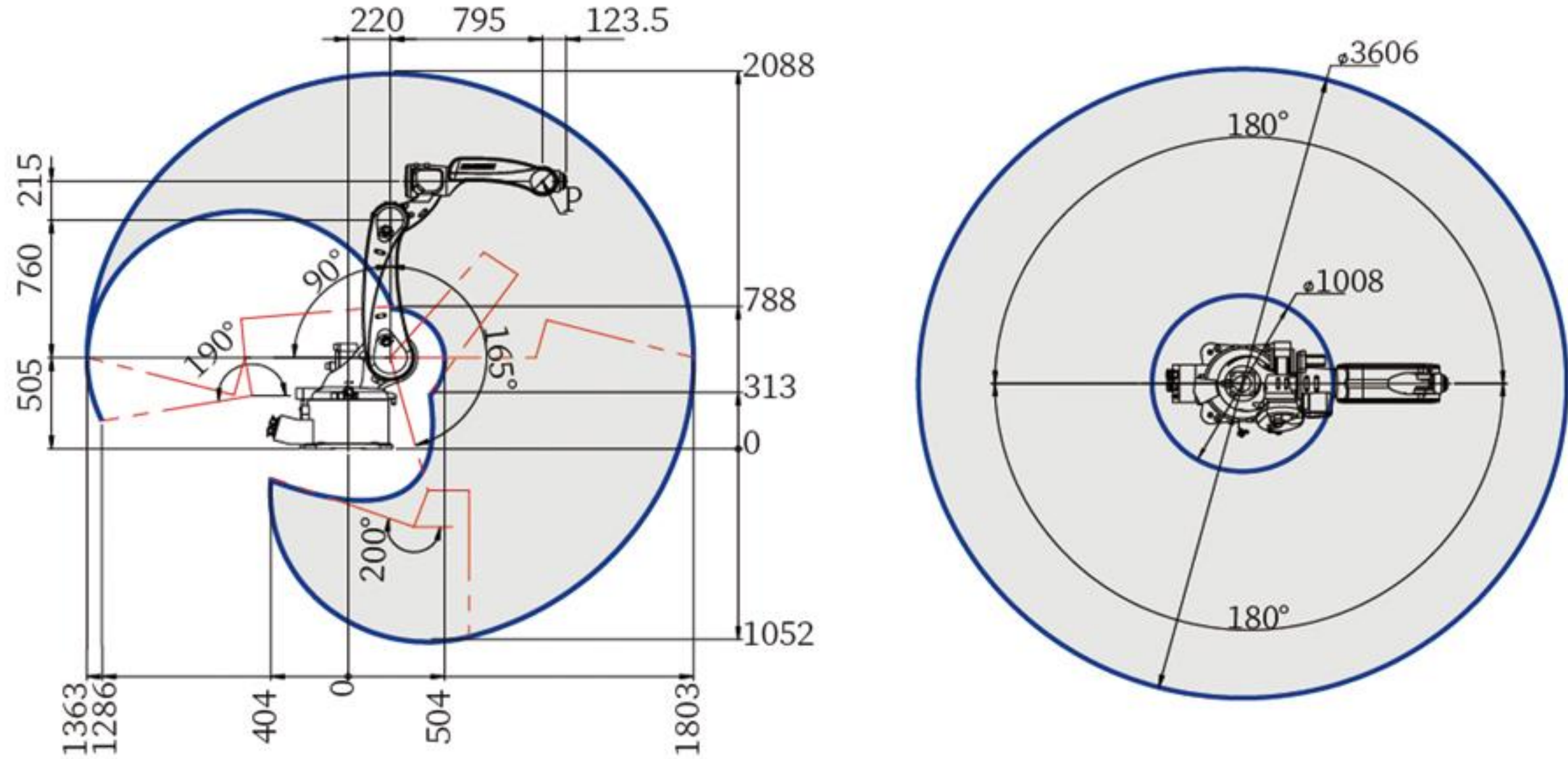
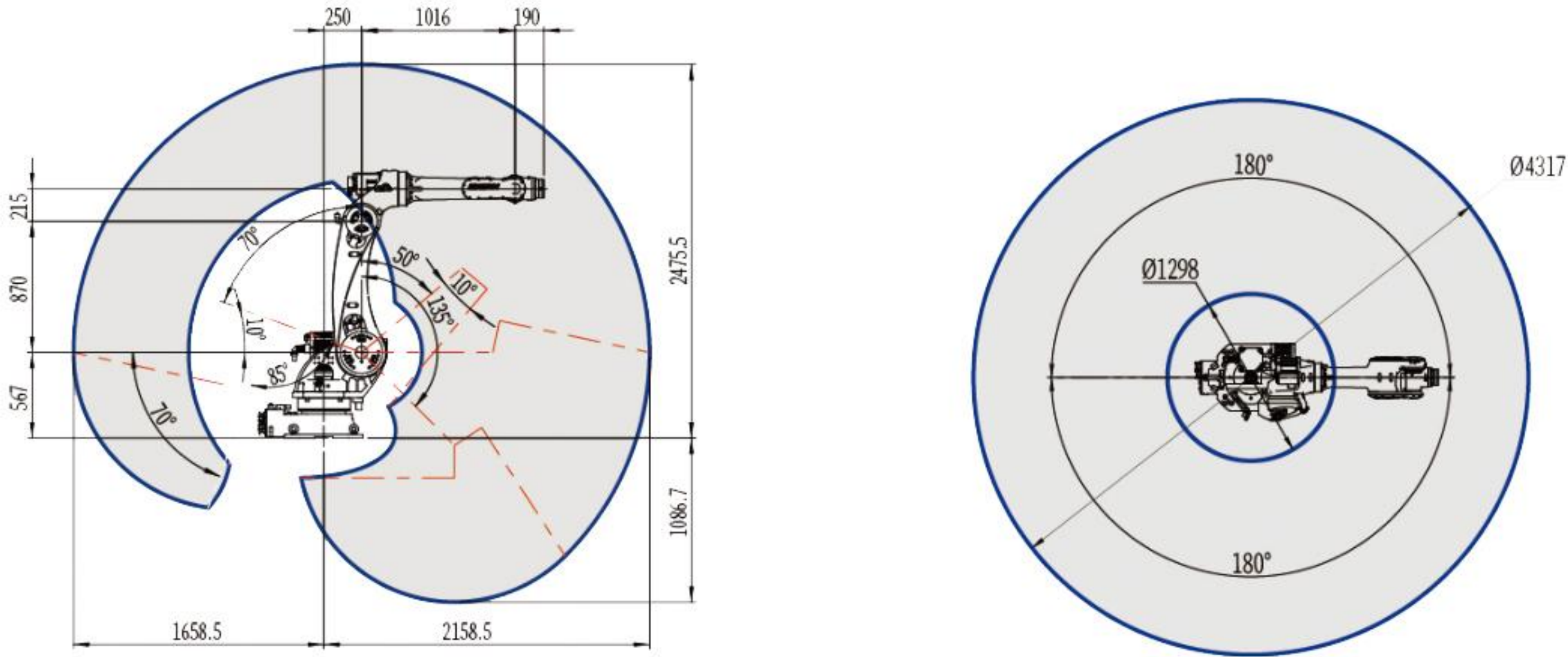
工具型号 Tool Model	独立三头式 Tri-Head
转速 Rotational Speed	9000RPM
气源 Air Supply	压缩空气 (0.4 - 0.55MPa) Compressed Air
偏心距 Eccentricity	5mm
磨盘尺寸 Grinding Disc Size	3*3英寸 in
力控范围 Force Control Range	0-50N
浮动行程 Floating Stroke	10mm
总重量 Weight	7kg

工业机器人

Industrial robot

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！

Streamlined design, a high-rigidity and lightweight body paired with powerful driving force, achieves ultimate speed and precision. The seamless integration of high-quality hardware configuration and exceptional cost-performance ratio delivers a stable, efficient, and reliable user experience!

				
型号Type		SR25A-25/1.80	SR25A-35/1.80	SR50A-70/2.15
负载能力Max payload		25kg	35kg	70kg
重复定位精度Repeatability		±0.05mm	±0.05mm	±0.05mm
最大工作半径Max.reach		1803mm	1803mm	2158mm
运动范围 Motion Range	J1	±180°	±180°	±180°
	J2	+ 90°, -165°	+ 90°, -165°	+ 90°, -135°
	J3	+ 160°, -85°	+ 160°, -85°	+ 185°, -80°
	J4	±180°	±180°	±360°
	J5	±180°	±180°	±125°
	J6	±360°	±360°	±360°
最大运动速度 Maximum Speed	J1	200°/s	185°/s	165°/s
	J2	220°/s	180°/s	160°/s
	J3	220°/s	220°/s	188°/s
	J4	380°/s	350°/s	260°/s
	J5	420°/s	275°/s	260°/s
	J6	550°/s	410°/s	365°/s
手腕允许力矩 Moment	J4	52 N·m	110 N·m	308 N·m
	J5	52 N·m	110 N·m	308 N·m
	J6	32 N·m	62 N·m	150 N·m
手腕允许惯量 Inertia	J4	2.40 kg·m²	4.0 kg·m²	30 kg·m²
	J5	2.40 kg·m²	4.0 kg·m²	30 kg·m²
	J6	1.20 kg·m²	1.50 kg·m²	12 kg·m²
本体重量Weight		250kg	260kg	530 kg
防护等级(腕部) Protection(wrist)		IP65	IP65	IP65
SR25A-25/1.80，SR25A-35/1.80			SR50A-70/2.15	
				

Force Control Process Software:Real-time display of tool ID, set force, actual force, axial floating distance.Configure grinding force warnings, engagement/retraction force parameters, control parameters, displacement alert thresholds.Control force-controlled actuator functions: weighing, calibration, displacement reset.Grinding-specific robot commands to operate force-controlled actuators and tools.Connect/disconnect/reconnect robots with force-controlled actuators without relying on PLC/PC.

通信参数

控制器编号 1

通信参数

系统标定

控制参数

实时数据

I/O 配置

版本信息

☒ IP: 192 368 3 100 Port: 4008

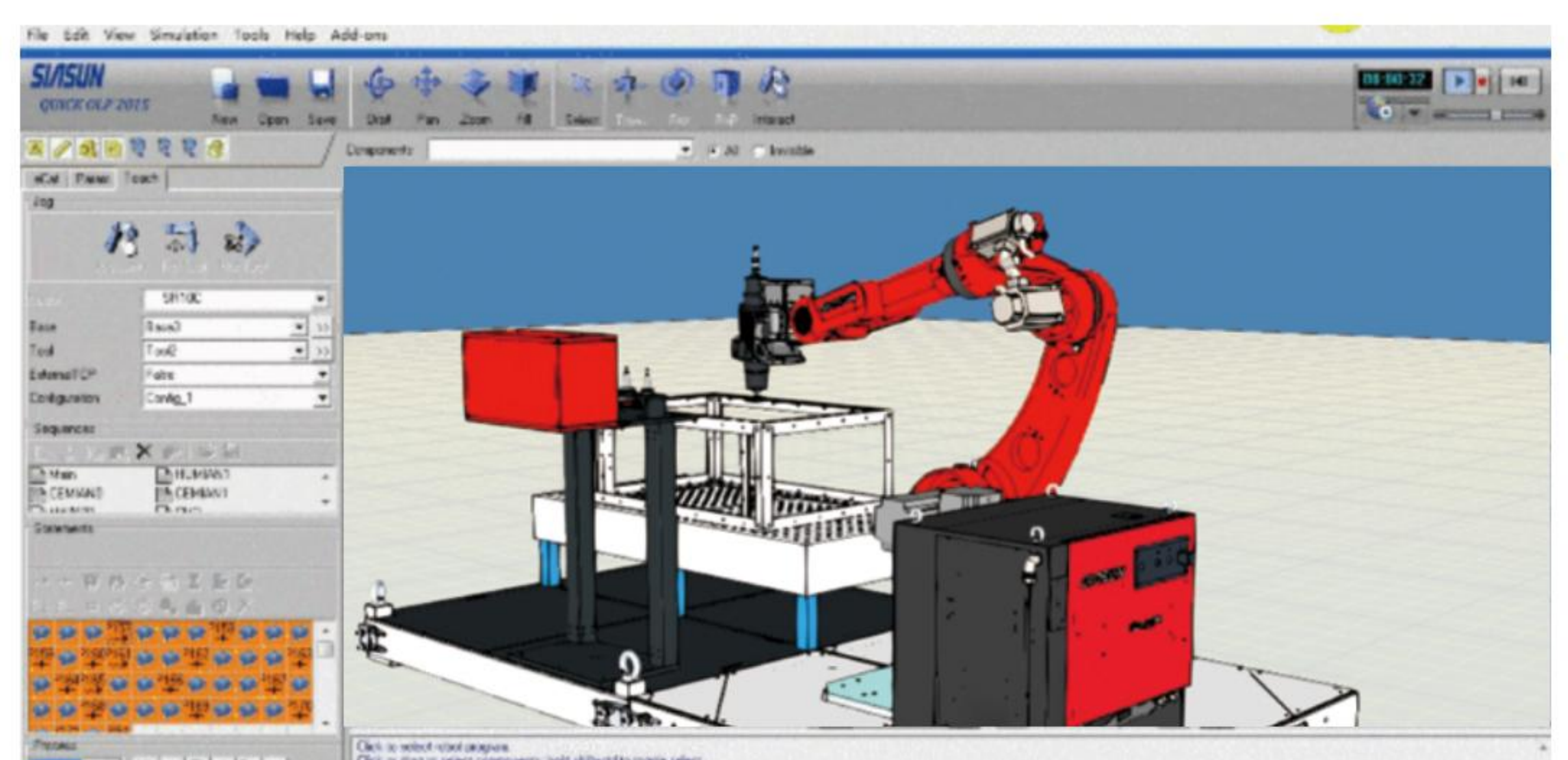
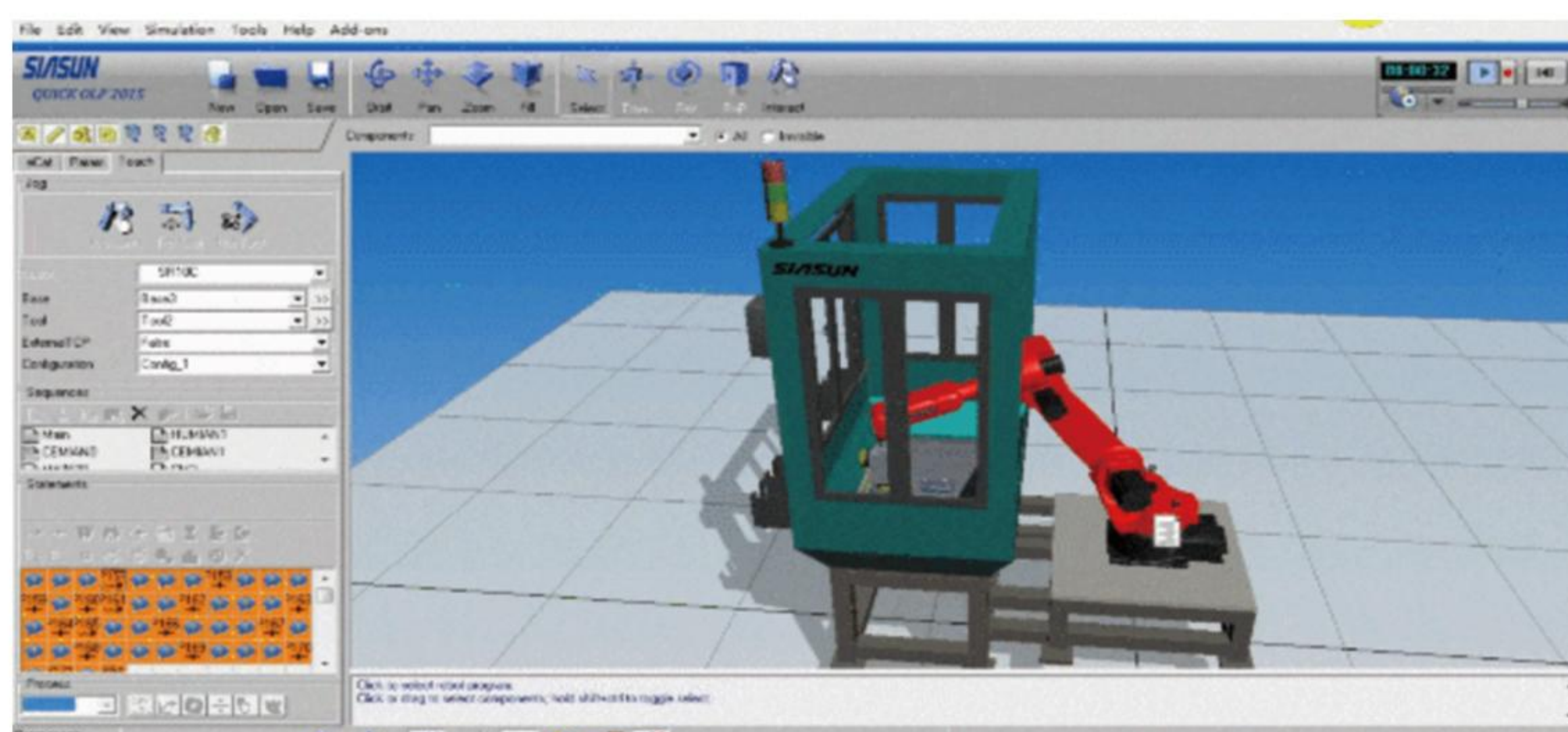
连接状态: 已连接/未连接

保存

控制参数		控制参数 1	
打圈应用			
通用参数			
系统绑定			
控制参数			
实时数据			
I/O 配置			
版本信息			

选配功能
Optional function

Offline Programming System: Synchronous execution, online monitoring, simulation, cycle time analysis, motion trajectory planning, 3D visualization. Enables rapid offline task planning for grinding operations.



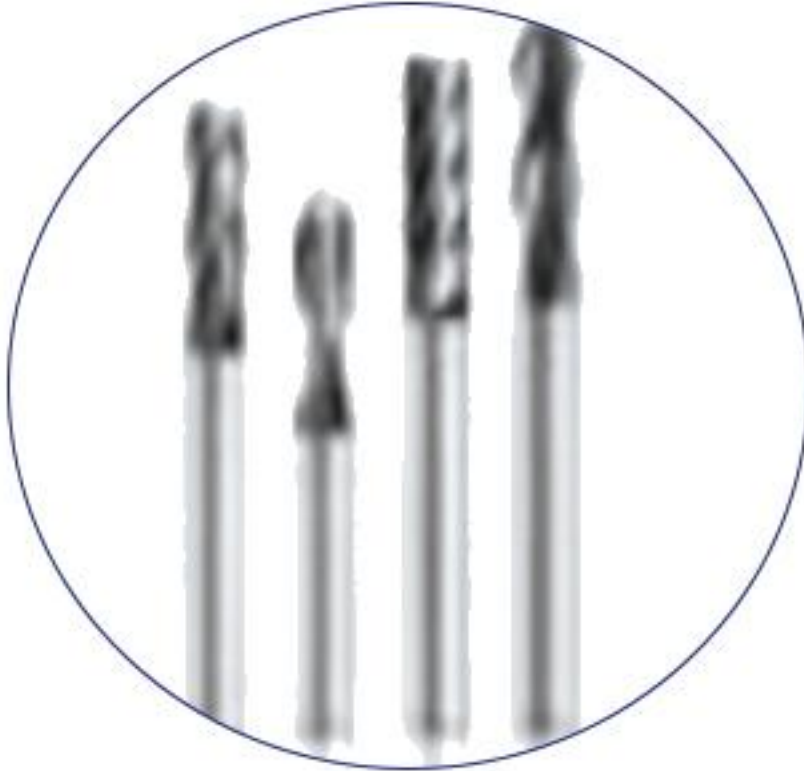
适配耗材库

Compatible consumables library

与知名耗材厂家（3M/舒能）建立深度合作
Strategic partnership with leading consumable manufacturers (3M/Shuneng)



旋转挫（侧）
Side-grinding rotary burr



铣刀（立）
Vertical milling cutter



金刚石砂轮（侧）
Side-mounted diamond grinding wheel



金刚石磨片（立）
Vertical diamond grinding disc



砂纸耗材（立）
Vertical sandpaper consumables



百叶片（立）
Vertical flap disc



钢纸磨片（立）
Vertical steel-backed abrasive disc



千叶轮（侧）
Side-mounted Krone wheel



仿形金刚石砂轮
Contoured diamond grinding wheel



盘式钢刷轮（侧）
Side-mounted disc-type steel wire brush



碗式杜邦丝刷（立）
Vertical cup-style DuPont fiber brush



碗式钢丝刷（立）
Vertical cup-style steel wire brush



杜邦丝轮（侧）
Side-mounted DuPont fiber wheel



拉丝轮（侧）
Side-mounted wire drawing wheel



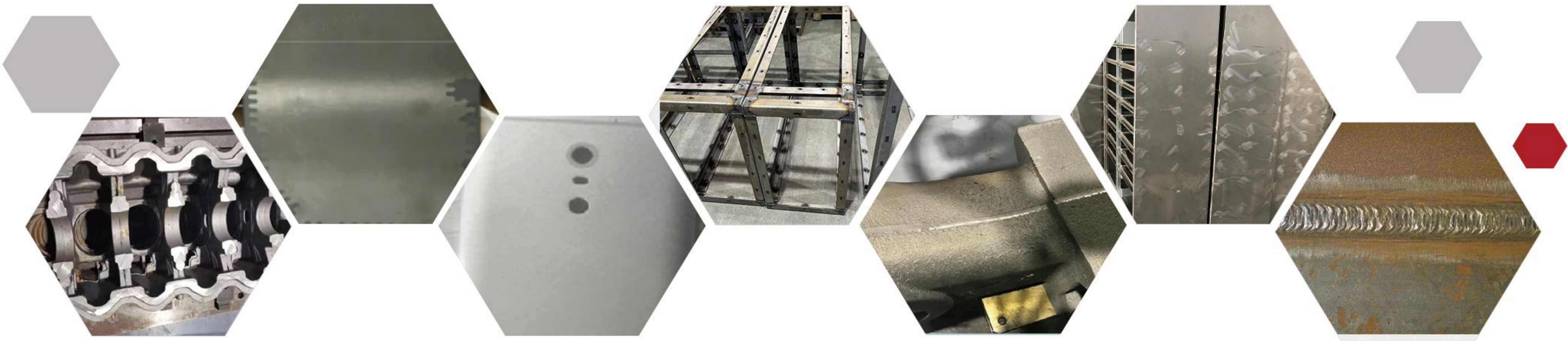
砂带轮（侧）
Side-mounted abrasive belt wheel



砂带（砂带机用）
Abrasive belt (for belt grinders)

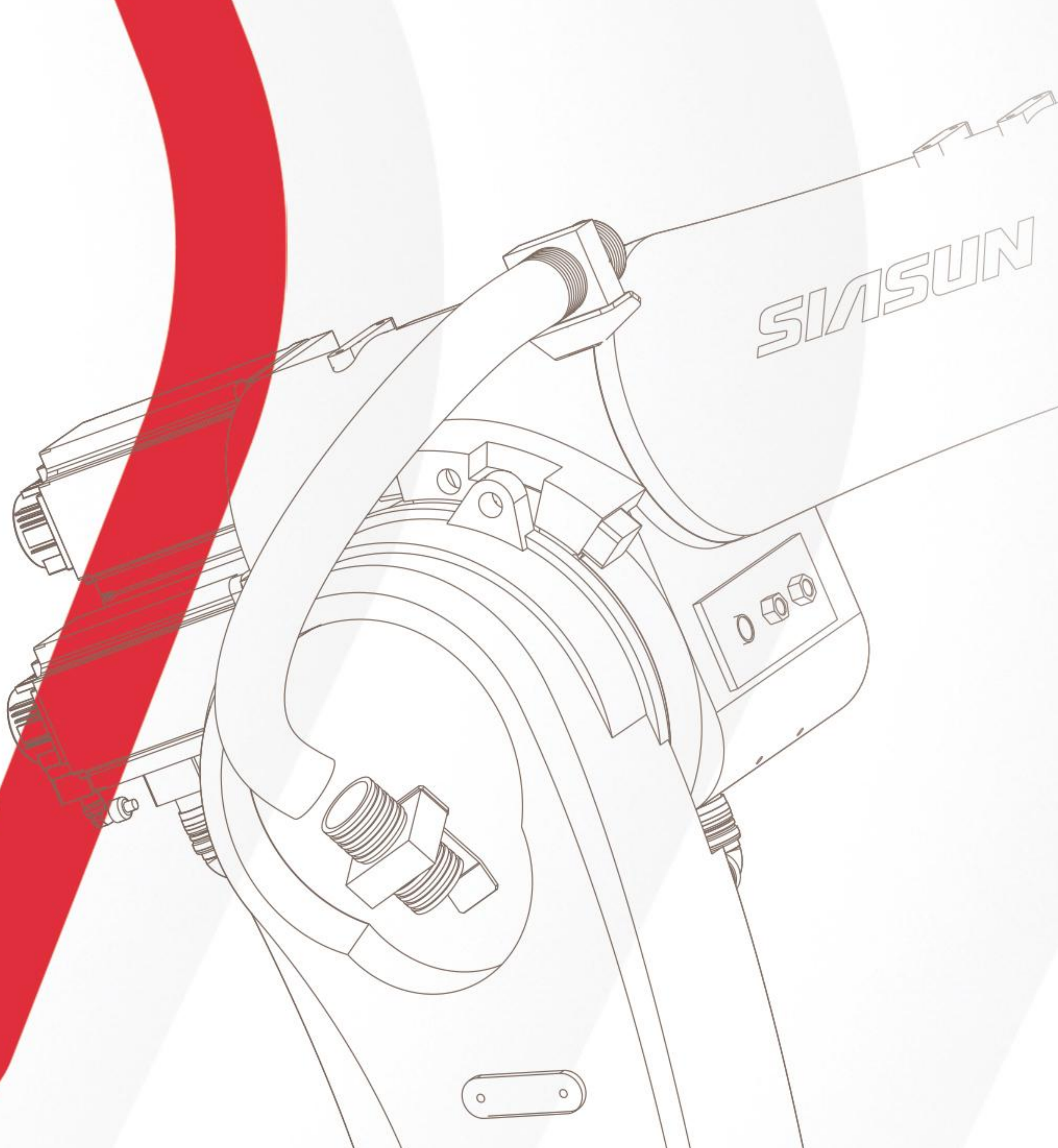
适用场景

Applicable scenarios





SIASUN



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