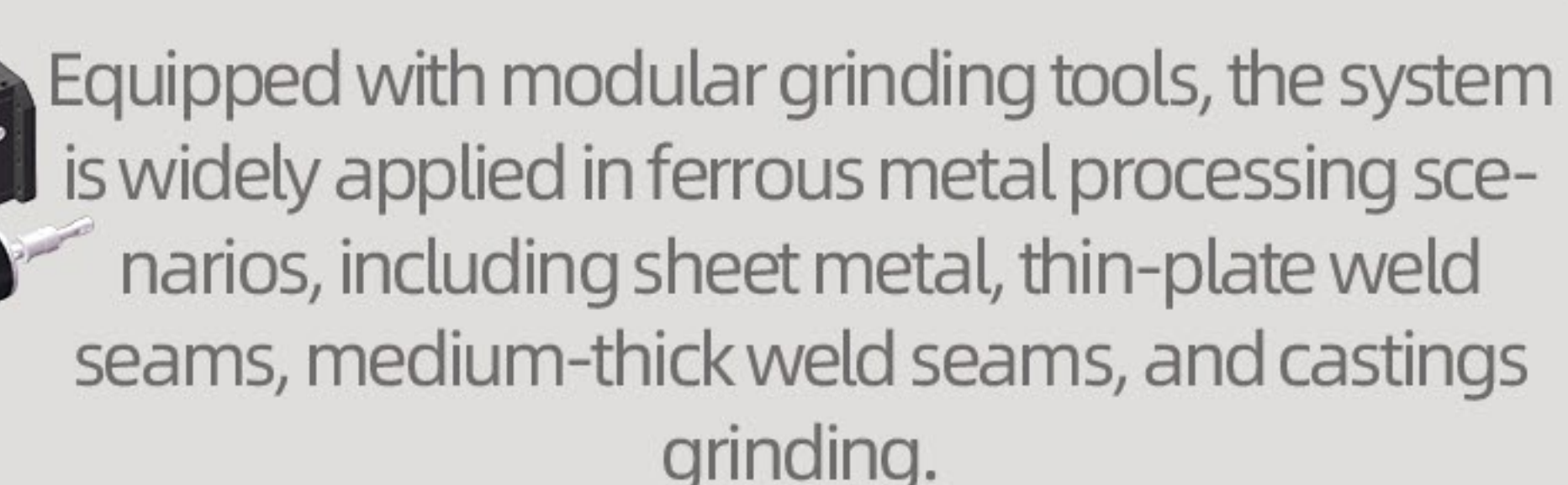


SIASUN 新松

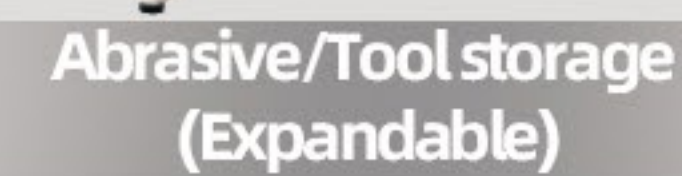
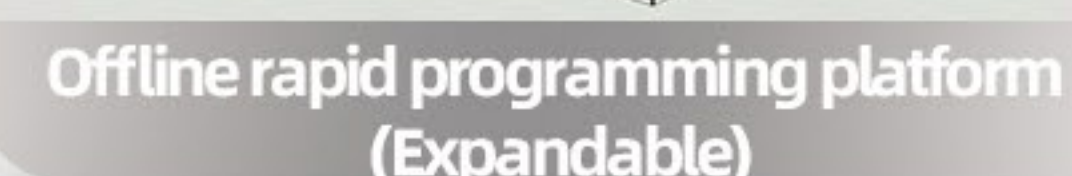
SIASUN FERROUS METAL GRINDING SYSTEM

Your Ultimate Grinding & Polishing Partner



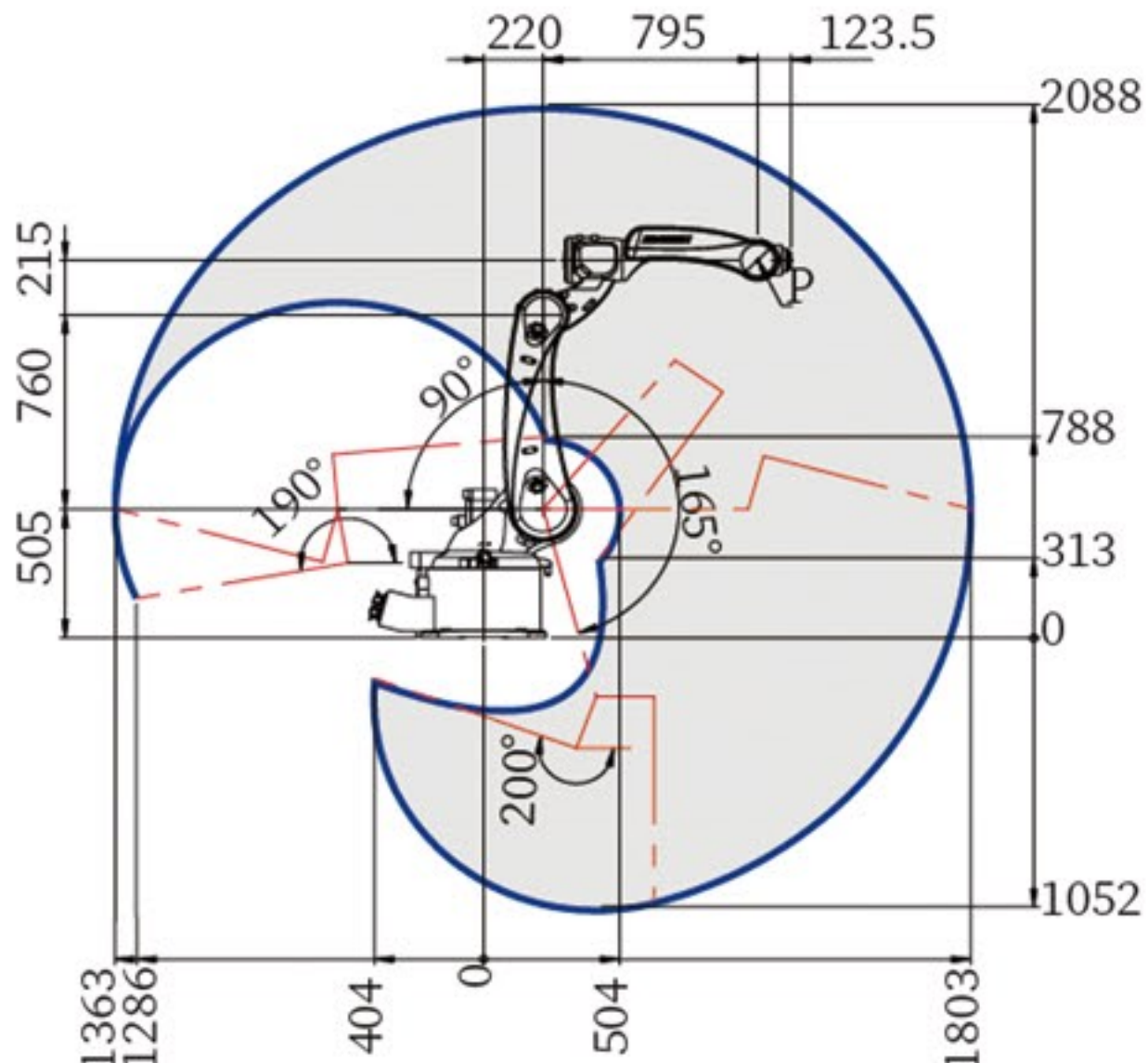
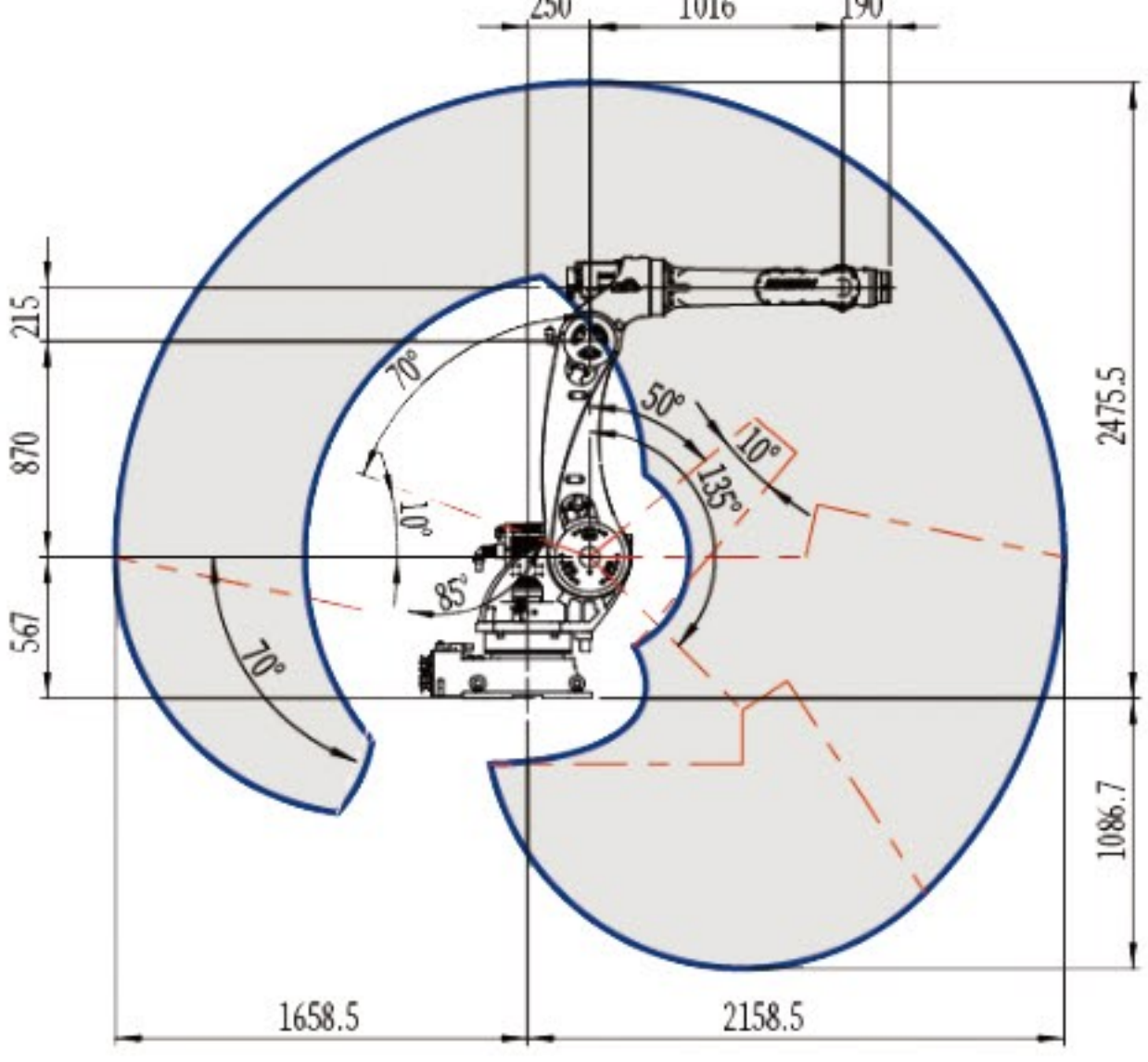
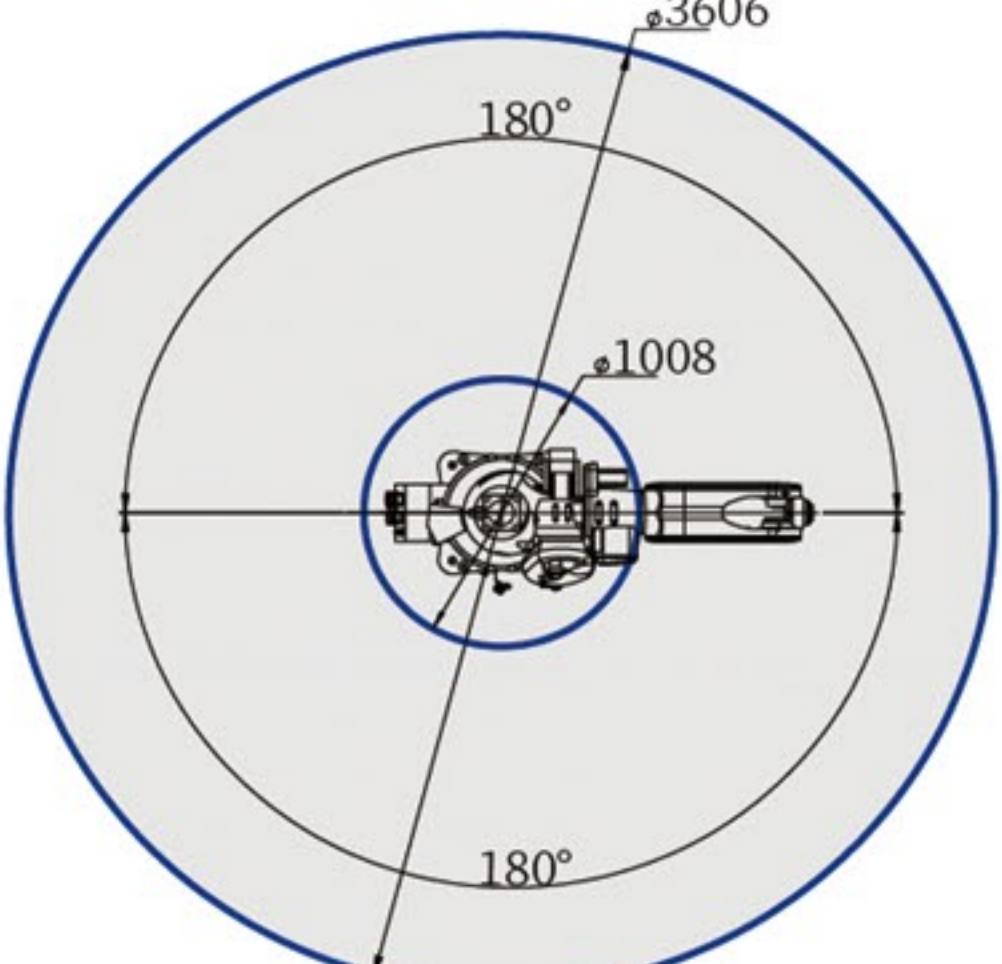
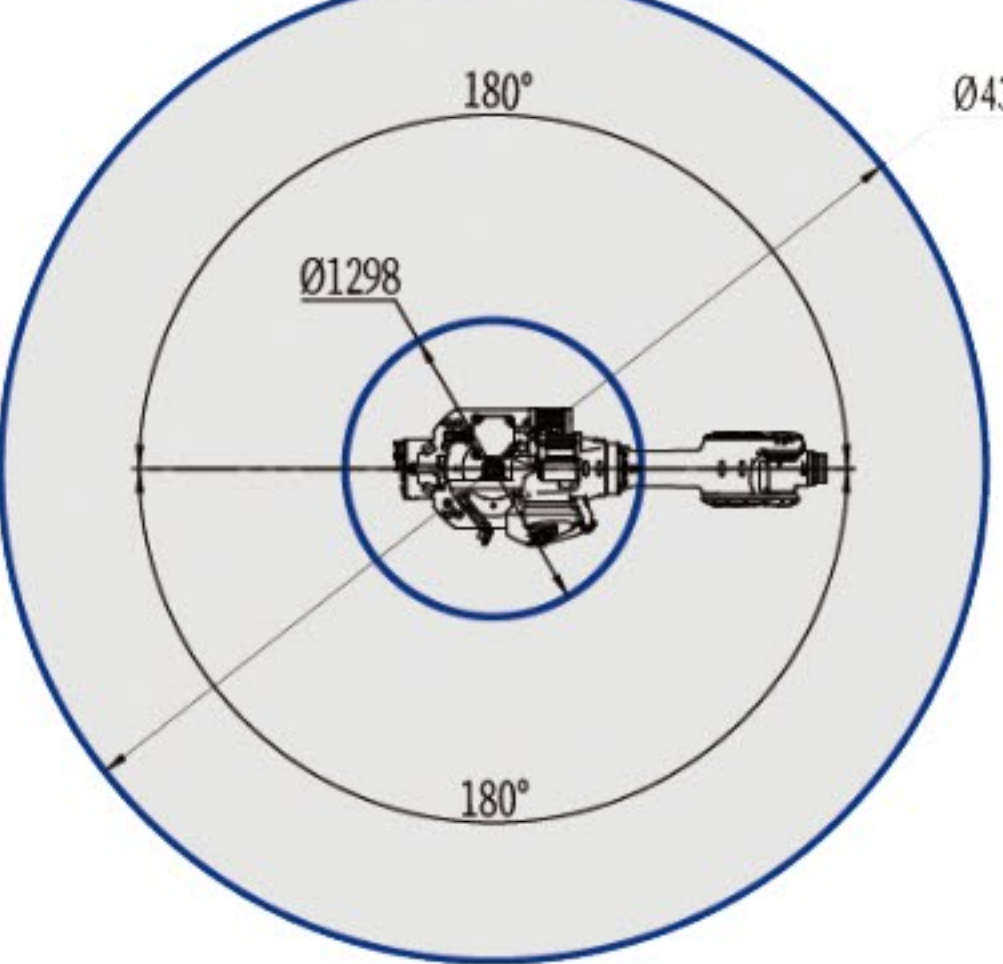


Grinding tool



INDUSTRIAL ROBOT

SIASUN "Grinding & Polishing Expert Series" industrial robots are exclusively engineered for ferrous metal grinding and polishing. Featuring a streamlined design with a high-rigidity lightweight structure and a high-performance drive system, they achieve exceptional speed and precision. The integration of premium hardware components and unparalleled cost-effectiveness delivers stable, efficient, and reliable operation.

			
Type		SR25A-35/1.80	SR50A-70/2.15
Max payload		35kg	70kg
Repeatability		±0.05mm	±0.05mm
Max.reach		1803mm	2158mm
Motion Range	J1	±180°	±180°
	J2	+ 90°, -165°	+ 90°, -135°
	J3	+ 160°, -85°	+ 185°, -80°
	J4	±180°	±360°
	J5	±180°	±125°
	J6	±360°	±360°
Maximum Speed	J1	185°/s	165°/s
	J2	180°/s	160°/s
	J3	220°/s	188°/s
	J4	350°/s	260°/s
	J5	275°/s	260°/s
	J6	410°/s	365°/s
Moment	J4	110 N·m	308 N·m
	J5	110 N·m	308 N·m
	J6	62 N·m	150 N·m
Inertia	J4	4 kg·m²	30 kg·m²
	J5	4 kg·m²	30 kg·m²
	J6	1.5 kg·m²	12 kg·m²
Weight		260kg	530 kg
Protection (wrist)		IP65	IP65
SR25A-35/1.80		SR50A-70/2.15	
			
			

GRINDING APPLICATION FEATURES >

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.



Breakpoint Recovery Function

Automatically resume grinding near the breakpoint after process interruptions (e.g., alarms), enabling intermittent continuation without restarting the entire program.

Oscillatory Grinding Function

Specialized arc oscillation commands simulate manual grinding techniques to enhance surface finish quality.

Residual Height Detection

Use built-in displacement sensors in force-controlled devices for data acquisition, combined with algorithmic residual height detection, to achieve closed-loop grinding control.

Safety Control Module

Safety interlock between grinding tools and robots activates upon system abnormalities (e.g., overload, tool jamming).

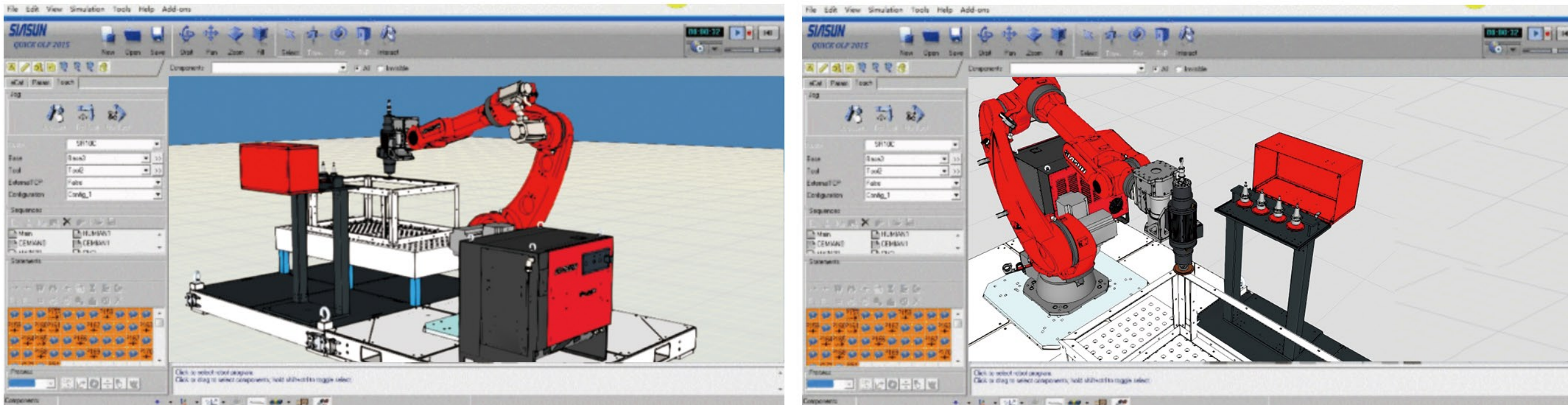
Rapid Path Planning

Operators can generate grinding paths by recording minimal teaching points and setting path density through a dedicated interface, requiring no specialized programming skills – only process knowledge.

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.

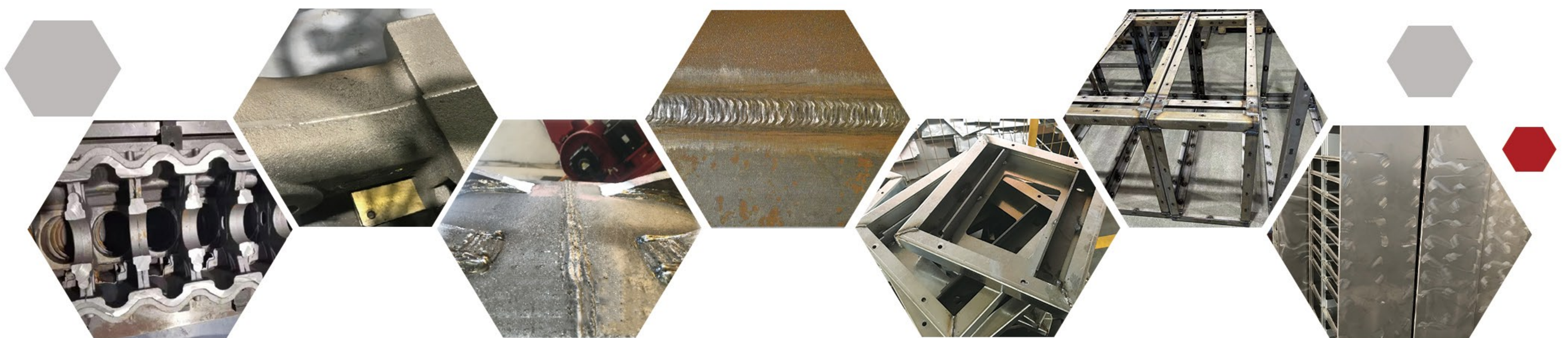


A close-up photograph of the tip of a diamond drill bit, showing the textured, diamond-encrusted surface. The bit is positioned horizontally, and the image is framed by a thin black circle.



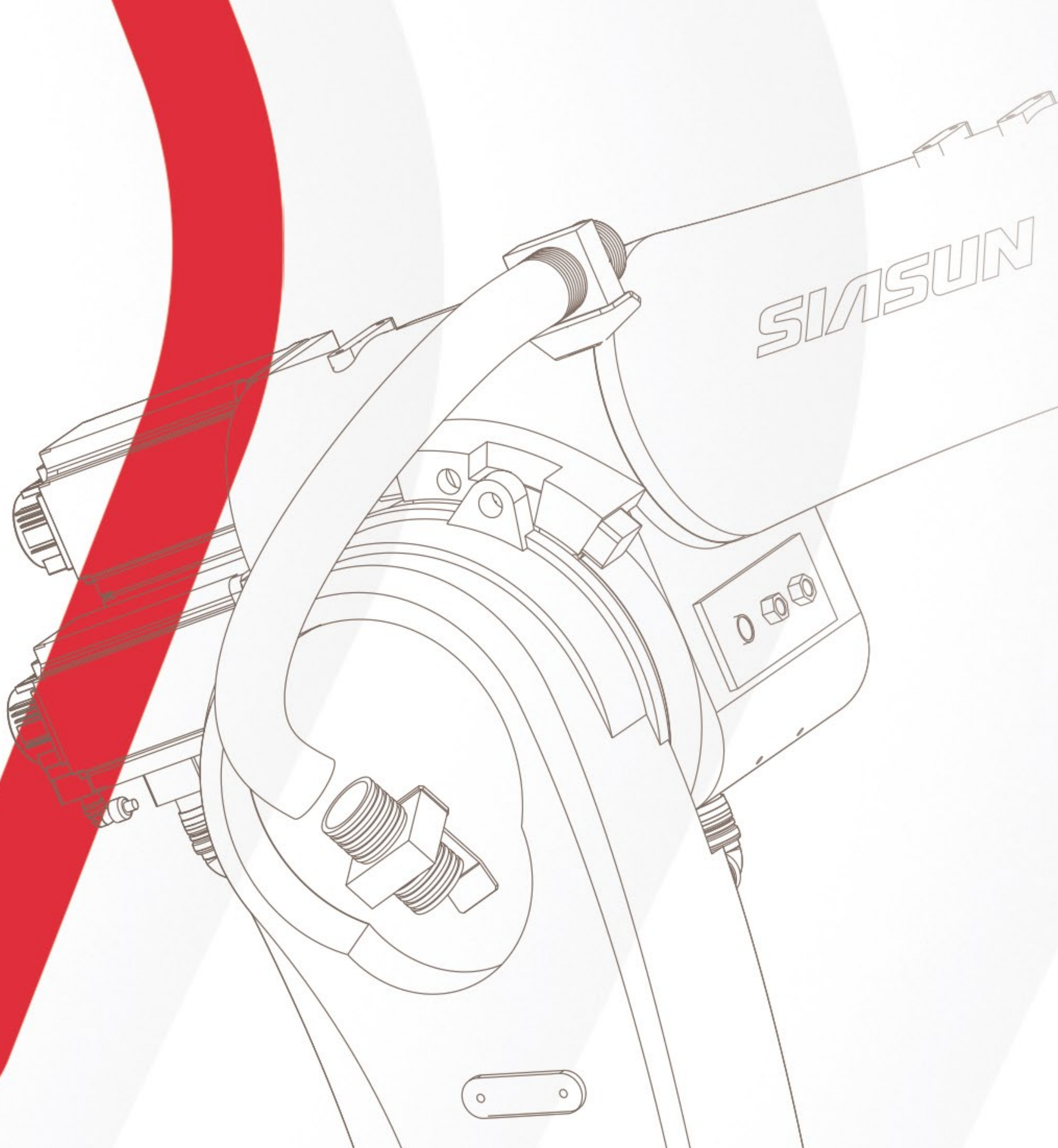
Abrasive belt
(for belt grinders)

APPLICABLE SCENARIOS





SIASUN



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