5 Axis Automatic Painting Machine		
During spraying, the 5A reciprocating machine smoothly transitions along curved paths with no impact and low vibration, achieving stable and precise spraying on complex workpieces and improving coating quality. Firm and slip–resistant, safety factor MAX. Equipped with an electromagnetic brake device, the machine automatically stays in place during power loss or malfunctions to prevent hazards.		
Section Category	Component / Parameter	Specification / Brand
1. Frame Section	Main Frame	100×100×5T square tube, painted finish
	Electrical Cabinet	Made of 1.2T steel plate
	Recovery Tray	Made of 1.2T stainless steel
2. Turntable Section	Self–Rotation Cylinder	AirTAC (2 units), rotation: ±180° forward/reverse
	Indexer (Public Rotation)	Model 110 type (1 unit), rotation: ±180° forward/reverse
	Drive Motor	400W three–phase AC variable–frequency motor (1 unit)
	Indexer Brand	Xin Jian Cheng (own brand)
	Motor Brand	Taiwan Rong Bang
3. Rail Section	X–Axis Rail	1 rail
	Y–Axis Rail	2 rails
	Z–Axis Rail	2 rails
	Rail Brand	Taiwan HIWIN
4. Belt Section	X–Axis Drive	1 belt
	Y–Axis Drive	2 belts
	Z–Axis Drive	Rack and pinion drive
	Origin Brand	Imported Italian brand
5. Drive Motor Section	X–Axis Motor	750W (1 unit)
	Y–Axis Motor	1000W (1 unit)
	Z–Axis Motor	400W (1 unit)

	R-Axis Motor	100W (1 unit)
	Motor Brand	Taiwan Delta
6. Air Supply System	Supply Fan	3KW high-quality centrifugal fan
	Air Supply Box	Welded from 50×50×3T square tube
	Filter Cotton	30MM filter cotton
	Pressure Chamber	Made of 50MM sandwich panel
7. Exhaust System	Exhaust Fan	1.5KW high-quality axial flow fan (2 sets)
8. Water Curtain Section	Water Tank	Made of 2.0T stainless steel plate
	Water Curtain Plate	Made of 1.0T stainless steel plate
	Water Pump	1HP high-quality sewage-treatment pump
9. Electrical Control	PLC	Japanese brand controller
	Relay	Schneider 24V relay
	Sensor Switch	Taiwan Yang Ming brand
	Touch Screen	Taiwan Weintek 7-inch color touch screen
	Inverter	Taiwan Delta brand
	Circuit Breaker, Contactor & Switches	1 set, brand: CHINT
10. Oil Supply Section	Components	Pneumatic Oil Pump, Mixer & Oil Pipe (1 set)
	Brand	Taiwan San Feng
11. Pneumatic Section	Components	Regulator, Solenoid Valve & Air Tube (1 set)
	Brand	AirTAC
12. Spray Gun Section	Automatic Spray Gun	Model WA-200, 1.4mm nozzle (1 unit)
	Origin Brand	Japan IWATA
Control System Specifications – X-Axis Sliding Platform	Structure	Linear rail and modular sliding table
	Max. Speed	1.5 m/s
	Repeatability / Positionir	1 mm
	Max. Travel	300 cm
	Effective Travel	240 cm
	Drive Motor	Taiwan Delta 1000W servo motor
	Quantity	1 set

Control System Specifications – Y–Axis Sliding Platform	Structure	Linear rail and modular sliding table
	Max. Speed	1.5 m/s
	Repeatability / Positionir	1 mm
	Max. Travel	170 cm
	Effective Travel	120 cm
	Drive Motor	Taiwan Delta 1000W servo motor
	Quantity	2 sets (with synchronizing linkage)
Control System Specifications – Z–Axis Lifting Mechanism	Structure	Screw–less design with linear rail and modular sliding table
	Max. Speed	30 cm/s
	Positioning Accuracy	High precision, long service life
	Max. Travel	80 cm
	Effective Travel	40 cm
	Drive Motor	Taiwan Delta 400W servo motor
	Quantity	1 set
Control System Specifications – R–Axis Gun Rotation Mechanism	Motor Housing	Sealed enclosure with double collet clamping
	Gun Mount Options	Various flange adapters available
	Low–Pressure Gun Exter	Included for spraying narrow gaps on small/medium workpieces
	Rotation Range	0—270°
	Drive Motor	Taiwan Delta 100W servo motor with reducer
	Quantity	1 set
Control System Specifications – W Self–	Drive	AirTAC cylinder for angle switching (±180°)
	Quantity	2 sets
Control System Specifications – Public Rotation Mechanism	Drive	Inverter–controlled gear–reduction motor with 110–type indexer
Control System Specifications – Oil Supply Unit	Components	Pneumatic diaphragm pump, automatic mixer, flow–stabilizing valve