Pre-Treatment System for Automatic Aluminum Profile Powder Coating Line

No	Equipment Description	Specifications	Quantity
I	**Spray Pre-Treatment System Dimension**	**L52500×W1800×H4400+700（mm）**	**1 set**
(1)	**Pre-Cleaning Dimension**	**L6000×W1800×H4400+700（mm）**	**1 set**
1	**Spray chamber**	L6000×W1800×H4400 mm; Stainless steel 304: side/top δ1.5mm, bottom δ2.0mm	1 set
2	Transition baffle	Stainless steel 304 δ1.2mm	1 set
3	Nozzles	PP board	Included
4	Circulation pipeline	PPR material	Included
5	Circulation pump	KD-65VK-155NF-IF-OC-OB;20m head; 23m³/h; 3kW	1 pc
6	Solution tank	L800×W2400×H700 mm; SS304: tank δ2.5mm; cover δ1.2mm; 10-mesh SS304	1 pc
7	Chamber rail support	L6000×W1200×600（mm） 40×80 square tube δ2.0mm	1 set
8	Chamber support frame	L6000×W1200×H700（mm） 100×100 square tube δ2.0mm	1 set
9	Water/heating fittings	Valves, pressure gauge, overflow pipe, tees, plugs, etc.	Included
(2)	**Main Degreasing Section**	**L10500×W1800×H4400+700（mm）**	**1 set**
1	Spray chamber	L10500×W1800×H4400（mm） Stainless steel 304: side/top δ1.5mm, bottom δ2.0mm	1 set
2	Transition baffle	Stainless steel 304 δ1.2mm	1 set
3	Nozzles	PP board	Included
4	Circulation pipeline	PPR material	Included
5	Circulation pump	KD-65VK-155NF-IF-OC-OB;20m head;75.2m³/h flow; 7.5kW	1 pc
6	Solution tank	L2000×W2400× H700 mm SS304: tank δ2.5mm; cover δ1.2mm; 10-mesh SS304	1pc
7	Chamber rail support	L10500×W1800×600（mm） 40×80 square tube δ2.0mm	1 set
8	Chamber support frame	L10500×W1800×H700（mm） 100×100 square tube δ2.0mm	1 set
9	Water/heating fittings	Valves, pressure gauge, overflow pipe, tees, plugs, etc.	Included

No	Equipment Description	Specifications	Quantity
(3)	**Water Rinse Section 1**	**L8500×W1800×H4400+700（mm）**	**1 set**
1	Spray chamber	L8500×W1800×H4400（mm） Stainless steel 304: side/top δ1.5mm, bottom δ2.0mm	1 set
2	Transition baffle	Stainless steel 304 δ1.2mm	1 set
3	Nozzles	PP board	Included

4	Circulation pipeline	PPR material	Included
5	Circulation pump	KD-65VK-155NF-IF-OC-OB;20m head,23m^3/h flow, 3KW	1 pc
6	Solution tank	L800×W2400×H700（mm） SS304: tank δ2.5mm; cover δ1.2mm; 10-mesh SS304	1 pc
7	Chamber rail support	L8500×W1800×600（mm） 40×80 square tube δ2.0mm	1 set
8	Chamber support frame	L8500×W1800×H700（mm） 100×100 square tubeδ2.0mm	1 set
9	Water/heating fittings	Valves, pressure gauge, overflow pipe, tees, plugs, etc.	Included
(4)	**Water Rinse Section 2**	**L6500×W1800×H4400+700（mm）**	**1 set**
1	Spray chamber	L6500×W1800×H4400（mm） Stainless steel 304: side/top δ1.5mm, bottom δ2.0mm	1 set
2	Transition baffle	Stainless steel 304 δ1.2mm	1 set
3	Nozzles	PP board	Included
4	Circulation pipeline	PPR material	Included
5	Circulation pump	KD-65VK-155NF-IF-OC-OB;20m head,23m^3/h flow, 3KW	1 pc
6	Solution tank	L800×W2400×H700（mm） SS304: tank δ2.5mm; cover δ1.2mm; 10-mesh SS304	1 pc
7	Chamber rail support	L6500×W1800×600（mm） 40×80 square tube δ2.0mm	1 set
8	Chamber support frame	L6500×W1800×H700（mm） 100×100 square tubeδ2.0mm	1 set
9	Water/heating fittings	Valves, pressure gauge, overflow pipe, tees, plugs, etc.	Included
No	**Equipment Description**	**Specifications**	**Quantity**
(5)	Chromating	**L11500×W1800×H4400+700（mm）**	**1 set**
1	Spray chamber	L11500×W1800×H4400（mm） Stainless steel 304: side/top δ1.5mm, bottom δ2.0mm	1 set
2	Transition baffle	Stainless steel 304 δ1.2mm	1 set
3	Nozzles	PP board	Included
4	Circulation pipeline	PPR material	Included
5	Circulation pump	KD-65VK-155NF-IF-OC-OB;20m head：75.2m^3/h flow,7.5KW	1 pc
6	Solution tank	L2000×W2400×H700（mm） SS304: tank δ2.5mm; cover δ1.2mm; 10-mesh SS304	1 pc
7	Chamber rail support	L11500×W1800×600（mm） 40×80 square tube δ2.0mm	1 set

8	Chamber support frame	L11500×W1800×H700（mm） 100×100 square tubeδ2.0mm	1 set
9	Water/heating fittings	Valves, pressure gauge, overflow pipe, tees, plugs, etc.	Included
(6)	Pure Water Rinse Section	**L9500×W1800×H4400+700（mm）**	**1 set**
1	Spray chamber	L9500×W1800×H3100（mm） Stainless steel 304: side/top δ1.5mm, bottom δ2.0mm	1 set
2	Transition baffle	Stainless steel 304 δ1.2mm	1 set
3	Nozzles	PP board	Included
4	Circulation pipeline	PPR material	Included
5	Circulation pump	KD-65VK-155NF-IF-OC-OB;20m head,23m^3/h flow, 3KW	1 pc
6	Solution tank	尺寸:L800×W2400×H700（mm） SS304: tank δ2.5mm; cover δ1.2mm; 10-mesh SS304	1 pc
7	Chamber rail support	L9500×W1800×600（mm） 40×80 square tube δ2.0mm	1 set
8	Chamber support frame	L9500×W1800×H700（mm） 100×100δsquare tube 2.0mm	1 set
9	Water/heating fittings	Valves, pressure gauge, overflow pipe, tees, plugs, etc.	Included
(7)	Drip Tray	**L7000×W400×H200（mm）** **Stainless steel 304 δ1.2mm**	**1 set**

No	Equipment Description	Specifications	Quantity
II	Moisture Drying Oven		**1 set**
1	Moisture Drying Oven	Moisture drying oven body — L23000 ×W1800 ×H4200 mm; inner plate: δ0.5 mm SUS201 stainless steel; outer plate: δ0.5 mm color steel; insulation layer: 150 mm sandwich panel	1 set
2	Inner corner wrapping	δ1.0 mm galvanized sheet	1 set
3	Outer corner wrapping	δ1.5 mm cold-rolled sheet	1 set
4	Air curtain device	fan motor 3 kW	2 sets
5	Base frame	L23000×W1800×H200 mm; 10×100 square tube, δ2.0 mm	Included
6	Auxiliary materials	anchor bolts, fasteners, etc.	Included
III	**Natural Gas Drying Tunnel with Electric Central Heating Furnace**		**1 set**
1	Heating furnace insulated body	inner plate: δ1.5 mm stainless steel; frame: No.5 angle steel + No.8 square tube; outer plate: δ0.8 mm corrugated sheet; insulation thickness: 200 mm; corner wrapping: δ1.5 mm cold-rolled sheet	1 set
2	Supply air duct	δ1.2 mm galvanized sheet	1 set
3	Return air duct	δ1.2 mm galvanized sheet	1 set
4	Supply air duct insulation	120 mm insulation board	1 set
5	Return air duct insulation	120 mm insulation board	1 set
6	Circulating fan	inserted type GW-6C, 11 kW	1 unit

7	Burner	440,000 kcal, Riello	1 set
IV	**Automatic Powder Spray Booth**	**L7000×W2000×H4250（mm）**	**1 set**
1	Side & top plates	δ1.5 mm SUS201 stainless steel	1 set
2	Bottom plates	δ2.0 mm SUS201 stainless steel	1 set
3	Bottom frame	100×100 square tube, δ2.0 mm	1 set
4	Automatic powder-blowing system	incl. solenoid valves & mushroom nozzles	1 set
5	Electrical control system		1 unit
6	Electrical control system	L1300×W800×H600 mm;δ2.0 mm tread plate; 100×100×δ2.0 mm tube support; full safety guardrails (Φ40 tube)	2 units
7	Top rail support	100*100 square tube,δ2.0 mm	1 set
V	**High-Efficiency Cyclone + Filter Cartridge Powder Recovery System**		**1 set**
1	Cyclone recovery chamber	ϕ1400 mm,δ2.75 mm hot-rolled steel	1 unit
2	Support frame	100*100 square tube δ2.0mm	1 set
3	Filter-cartridge recovery chamber	L2100×W1800×H5200（mm） δ2.75mm hot-rolled steel	1 unit
4	Solenoid Valve	Type DCF-B	20 sets
5	Pulse Controller	Type CMK-B	1 unit
6	Pulse Filter Cartridge	ϕ325*H900mm	20 pc
7	Back-flushing Tube	ϕ120*H700mm	20 pc
8	Recovery Fan	4-72-6A 30KW	1 unit
9	Air Tank & Internal Air Circuit Assembly	Cold-rolled sheet δ2.0 mm	1 set
10	Recovery Air Duct	Cold-rolled sheetδ1.5mm	1 set
11	Powder Collection Box	L600×W600×H500 mm A3 steel plate δ1.5 mm	1 pc
12	Support Frame	100*100 square tube δ2.0mm	1 set
VI	**Powder Supply Center**		**1 set**
1	Vibrating Sieve		1 set
2	Powder Tubes and Powder Pumps		1 set
3	Powder Feeder		1 set
4	Powder Storage Tank (with fluidization)		1 set
5	Lifting Device		1 set
6	Automatic Air-blow Cleaning System		1 set
7	Control Interface	PLC touch screen	1 set
VII	**Reciprocator**	Stroke 2500 mm	**2 units**
VIII	**Automatic Powder Spray Guns**		**12 sets**
1	High-voltage Electrostatic Spray Gun	High-voltage module	12 pcs
2	Electrostatic Main Unit	Built-in type	12 units
3	Powder Pump	Venturi type	12 pcs
4	Combined Control Cabinet	A3 steel	1 set

5	Powder Supply Tank	Stainless steel	1 pc
6	Powder and Air Lines		12 sets
IX	Manual Powder Coating System	**2 sets**	
1	High-voltage Electrostatic Spray Gun	Built-in HV module	2 pcs
2	Powder Supply Tank	Stainless steel	2 pcs
3	Powder Pump	Venturi type	2 pcs
4	Flat Cart	A3 steel	2 units
5	Powder and Air Lines		2 sets
X	**Explosion-proof Equipment & Control System:** 0 sets (Not supplied by buyer at present)		
1	Explosion-proof Isolation Valve	Cyclone separator port D-flap 500, carbon-steel body	
2	Explosion Relief Panel	FX-410*410	
3	Valve Locking & Ash Discharge Device	PN1.0 MPa, wear-resistant rubber seat, QT450 body; waste powder bucket capacity ≤ 5 kg	
4	Differential Pressure Transmitter (Explosion-proof)	Model CYH-130/ Range: 0–3000 Pa/ Output: 4–20 mA (2-wire) Voltage: DC24V/ Explosion-proof Grade: Exd II BT4	
5	Temperature Transmitter (Explosion-proof)	Model MIK-P8/ Range: 0–200°C/ Output: 4–20 mA Voltage: DC24V/ Explosion-proof Grade: Exd II BT4	
6	Pressure Transmitter (Explosion-proof)	Model MIK-P8/Range: 0–0.8 MPa/Output: 4–20 mA Voltage: DC24V/Explosion-proof Grade: Exd II BT4	
7	Flame Detector (Explosion-proof)	Model A705 UV Flame Detector/ Voltage: DC24V/ Explosion-proof Grade: Exd II BT4	
8	Compressed Air Pressure Regulating Valve	Model AW-60A System	
9	Fire Extinguishing Spray system	Spray pipes + constant-pressure water supply	
10	Electrical Control System	PLC touch-screen centralized control	
11	Control Cabinet	Central display with audio-visual alarm	
12	Electrical Components	CHINT brand	
13	Busbar Trunking & Cable Tray	50-type bridge	
14	Power Cable	Jiangyang Cable	
15	**Other Accessories**		
XI	Shielded Room	**L10000×W7000×H6000（mm）**	buyer can supply
1	Room Panels	50 mm rock wool sandwich board	
2	Frame	50×100 & 50×50 square tubes δ2.0 mm	
3	Windows	Aluminum alloy + 8 mm tempered glass	
4	Manual Door	Steel plate + 5 mm tempered glass	
5	External Trim Corners	Cold-rolled sheet δ1.5 mm	
6	Lighting	LED lights	
XII	**Powder Curing Oven**		**1 Set**
1	**Oven body**	L40000×W1100×H4200 mm Inner plate: 0.7 mm stainless steel 201 Outer plate: 0.5 mm color steel Insulation: 150 mm sandwich panel	1 set

2	Internal Trim Corners	1.0 mm galvanized sheet	1 set
3	External Trim Corners	1.5 mm cold-rolled sheet	1 set
4	Air Curtain Device	3kW each	2 sets
5	**Base Frame**	L40000 × W1100 × H200 mm 100×100 square tube δ2.0 mm	Included
6	Auxiliary Materials	Anchors, bolts, etc.	Included
XIII	Gas Heating System for Curing Tunnel		**2 sets**
1	Heating Furnace Body	Inner plate: 1.5 mm stainless steel Frame: No.5 angle steel + No.8 square tube Outer plate: 0.8 mm corrugated sheet Insulation: 150 mm Trim corners: 1.5 mm cold-rolled sheet	2 sets
2	Supply Air Duct	1.2 mm galvanized sheet	2 sets
3	Return Air Duct	1.2 mm galvanized sheet	2 sets
4	Supply Duct Insulation	120 mm insulation board	2 sets
5	Return Duct Insulation	120 mm insulation board	2 sets
6	Circulation Fan	Inserted type GW 5C 15 kW	2 units
7	Burner	500,000 kcal	2 sets
XIV	Exhaust Gas Treatment System (Curing Tunnel Outlet)	Activated carbon treatment, 8000 m^3/h	**1 set**
1	Suction Duct	0.6 mm galvanized spiral duct	1 set
2	Treatment Unit	δ1.5mm galvanized sheet	1 unit
3	Exhaust Fan	7.5kW	1 unit
4	Activated Carbon	Honeycomb type	1 set
5	Exhaust Duct	δ0.6mm galvanized spiral duct	15m
xv	Overhead Conveyor Chain	**QXG250** Type	**1 chain**
1	Conveyor Chain	QXG250 Type	305m
2	Straight Track	80*80 δ4.0mm	270m
3	Drive Unit	4kW	2 sets
4	Tensioning Unit	R3000mm	2 sets
5	Primary Hangers		710 pcs
6	Lubrication Unit		1 set
7	Horizontal Bend Track	R3000mm 90º	4 sets
8	Horizontal Bend Track	R3000mm 30º	2 pcs
9	Up-Down Curve Track	R3000mm 25º	3 pairs
10	Clamps		104 sets
11	Expansion Track (inside oven)		10 sets
12	Supports & Columns	100×100 square tube δ2.0 mm	supplied
13	Auxiliary Materials	Anchors, bolts, etc.	Included
XVI	**Electrical Control Cabinet**		**1 set**
1	Control Cabinet	Centralized control, distributed operation, automatic temperature control	1 unit
2	PLC & Touch Screen	CHINT brand	Included
3	Electrical Components	CHINT brand	Included

4	Cables & Cable Trays		Included