



Quality PCB Service & Equipment

Europe, India & North America

vikingcorp.ltd

Introducing



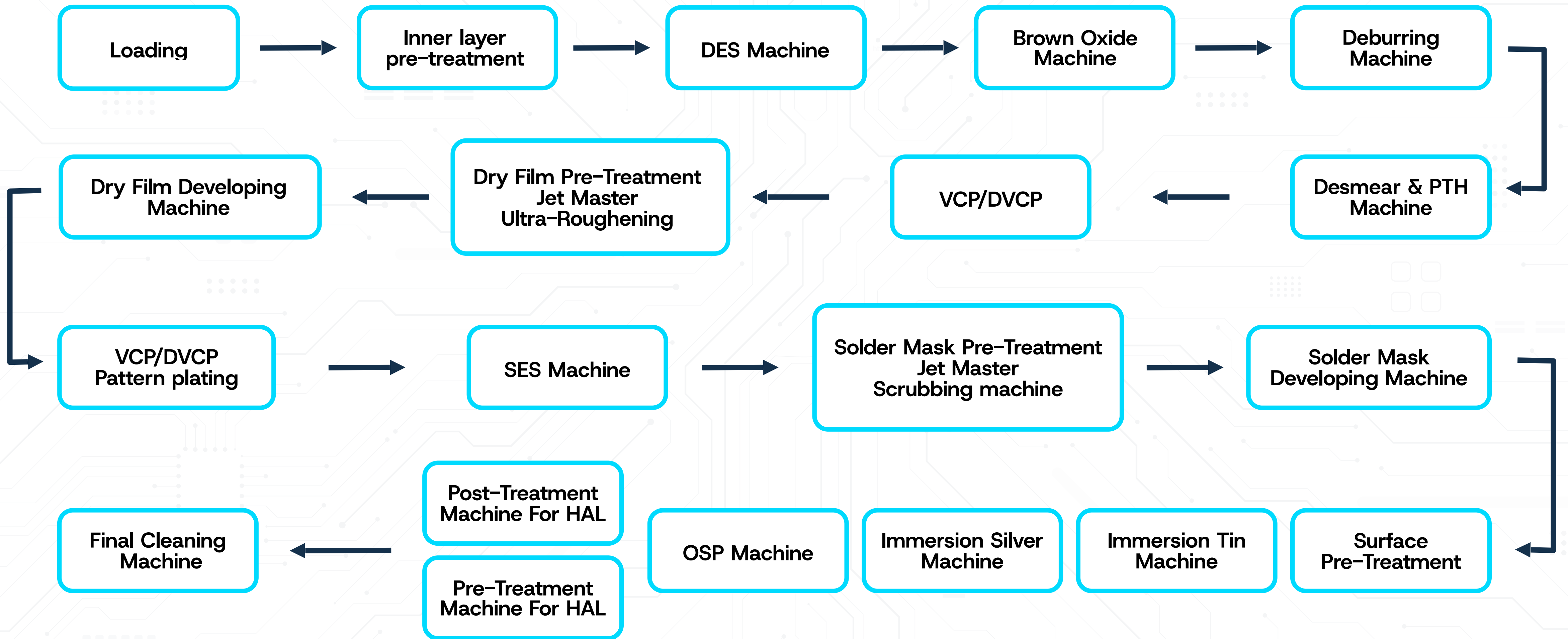
ULTRALINE

The new generation of wet process lines.

Proudly engineered by Viking, a global leader in advanced manufacturing solutions.

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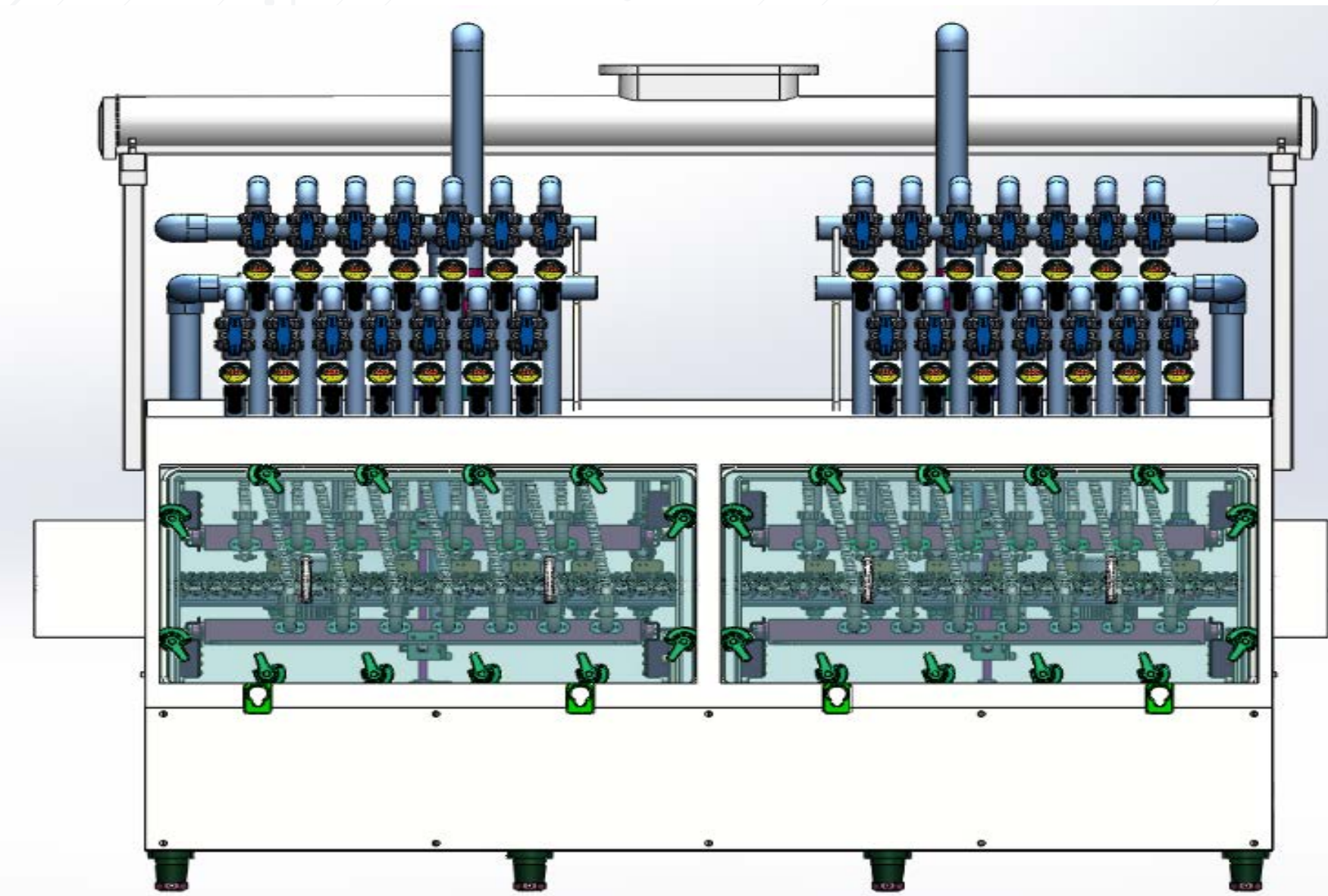
Wet Process



Developing Machine

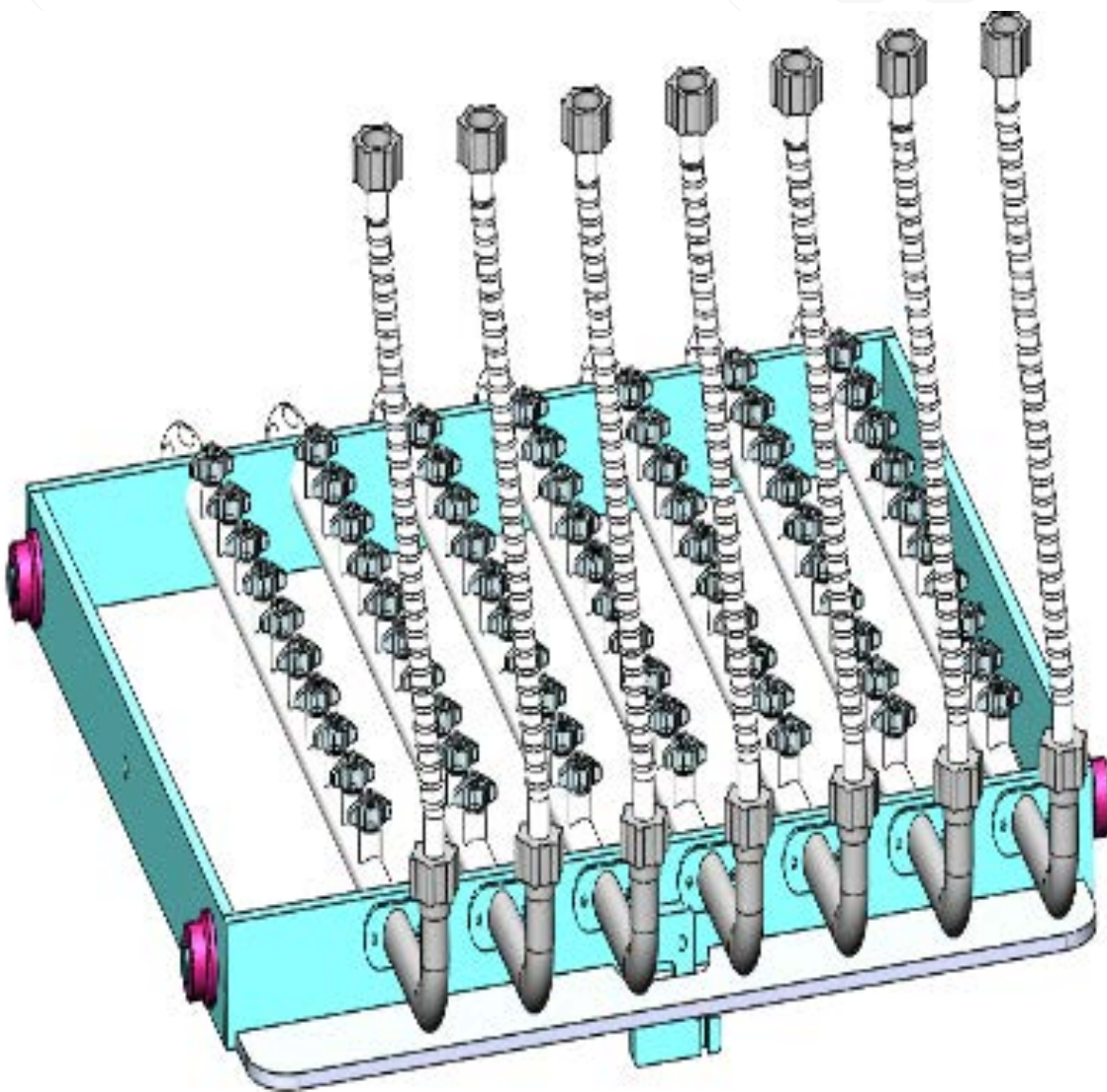
Equipment features

- 1. Independent spray adjustment to improve the developing effect.
- 2. Quick-release structure of the spray rack for easy maintenance.
- 3. Upper panel surface vacuum design to ensure neat line edges;
- 4. Umbrella-shaped + fan-shaped combined spray to improve the spraying effect.
- 5. High-efficiency oil-absorbing cotton + defoaming pump for double defoaming.



Equipment parameter

Panel Size(FPC):	500mmWx500mmL(max) 250mmWx250mmL(min) 0.012mm(core)+12/12um Cu~1.2mm
Panel Size(Rigid Board) :	630mmWx630mmL(max) 300mmWx300mmL(min) 0.025mm(core)+12/12um Cu~3.2mm
Panel Size(Back Panel)	1050mmWx1100mmL(max) 350mmWx350mmL(min) 0.5~12mm



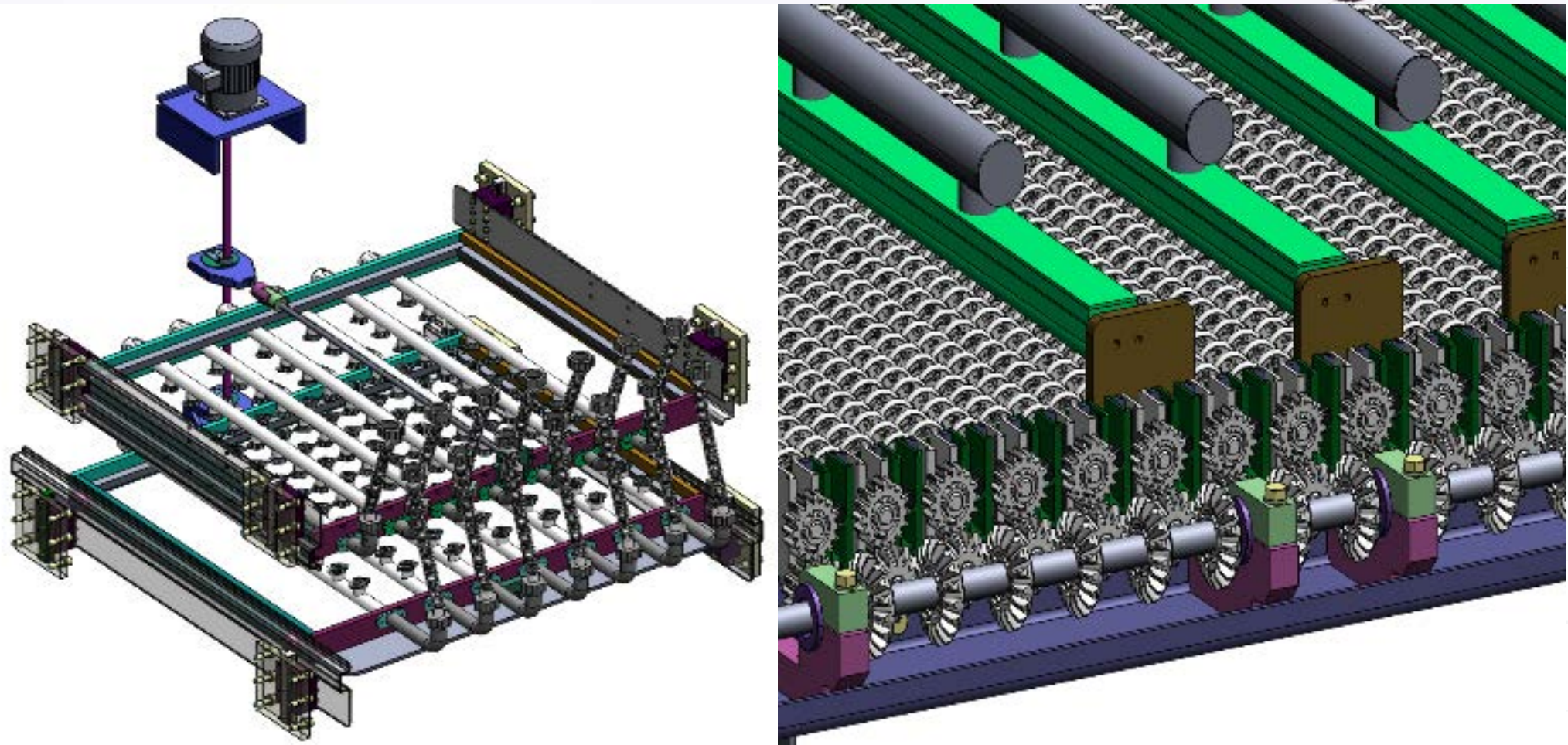
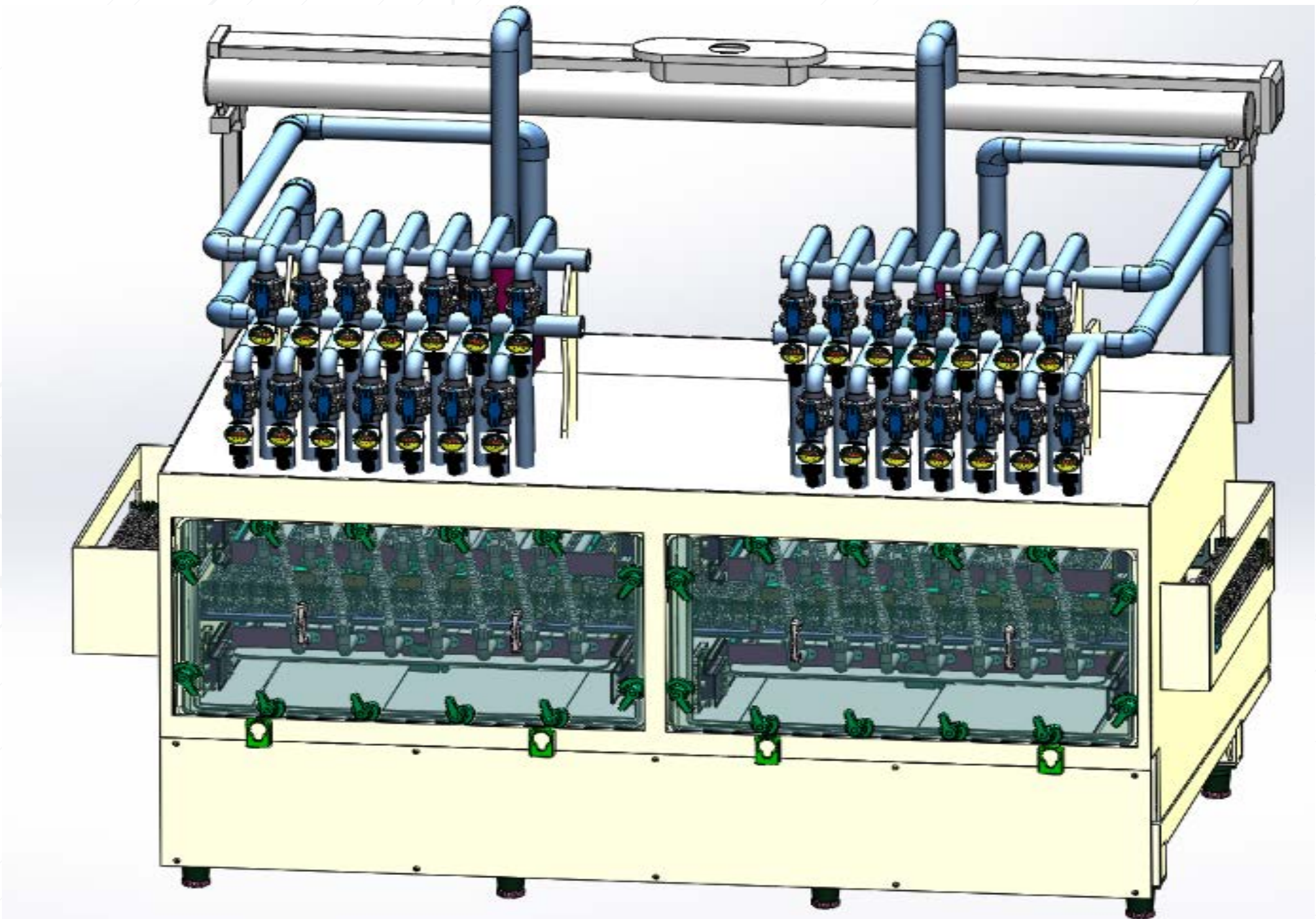
Etching Machine

Equipment features

- 1. Roller vacuum suction knife, effectively reducing the pool effect;
- 2. Etching 3 types of nozzles to improve etching uniformity;
- 3. Optional PC to record production data in real time;
- 4. Automatic pressure adjustment design, real-time automatic control;
- 5. Titanium spray rack quick-release structure, durable and non-deformed.

Equipment parameter

Panel Size(FPC):	500mmWx500mmL(max) 250mmWx250mmL(min) 0.012mm(core)+12/12um Cu~1.2mm
Panel Size(Rigid Board) :	630mmWx630mmL(max) 300mmWx300mmL(min) 0.025mm(core)+12/12um Cu~3.2mm
Panel Size(Back Panel)	1050mmWx1100mmL(max) 350mmWx350mmL(min) 0.5~12mm
12um Cu, 15um D/F, L/S=30um/30um. Etching factor=3.0~3.5, Etching uniformity≥97%	



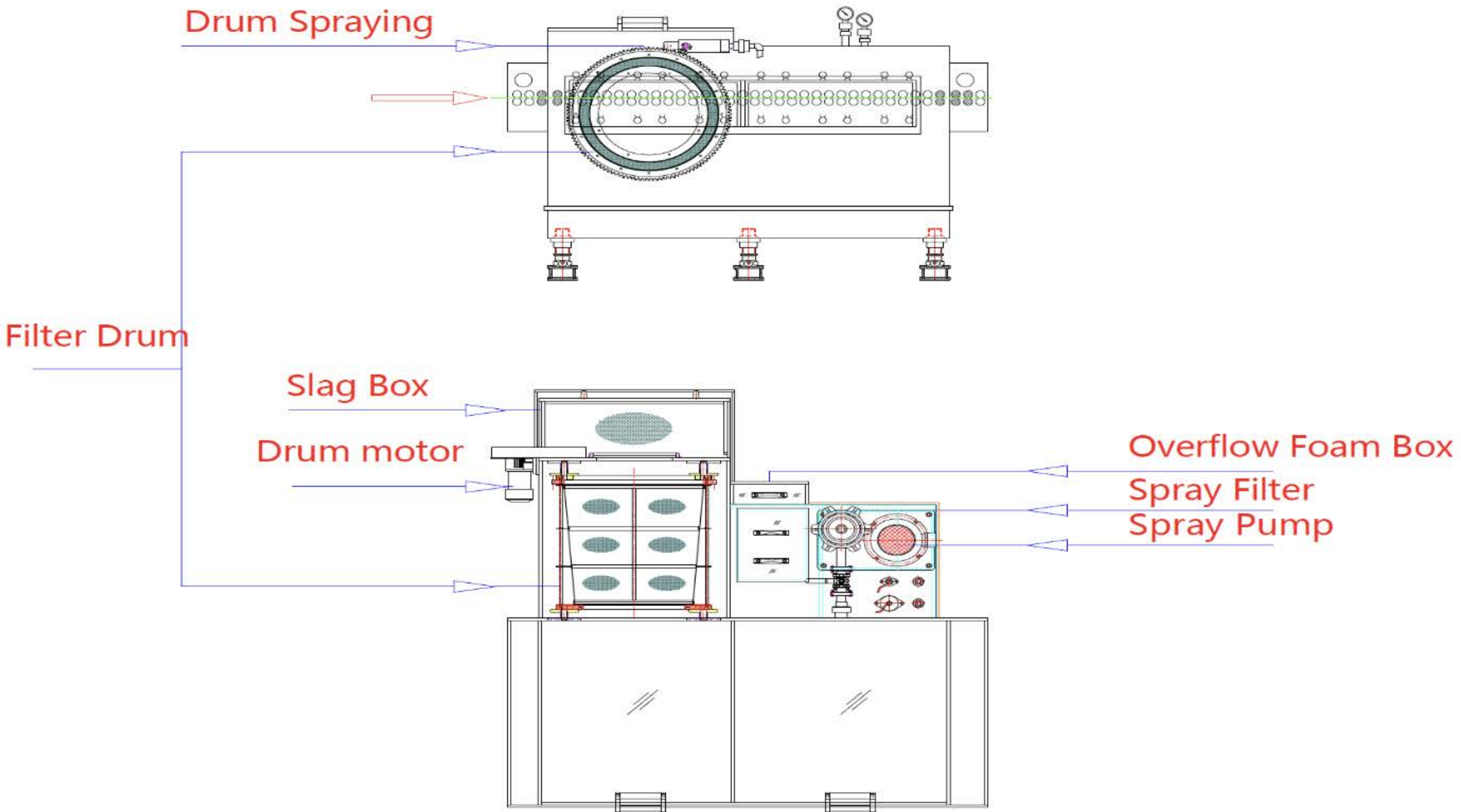
Film Stripping Machine

Equipment features

- 1. Drum filtration and automatic collection system for film residue;
- 2. Quick-release nozzle design for easy maintenance;
- 3. The drum is equipped with a spray device for effective cleaning;
- 4. The slag receiving box is equipped with a pneumatic pump to pump the chemical through the filter bag back for reuse.

Equipment parameter

Panel Size(FPC):	500mmWx500mmL(max) 250mmWx250mmL(min) 0.012mm(core)+12/12um Cu~1.2mm
Panel Size(Rigid Board) :	630mmWx630mmL(max) 300mmWx300mmL(min) 0.025mm(core)+12/12um Cu~3.2mm
Panel Size(Back Panel)	1050mmWx1100mmL(max) 350mmWx350mmL(min) 0.5~12mm



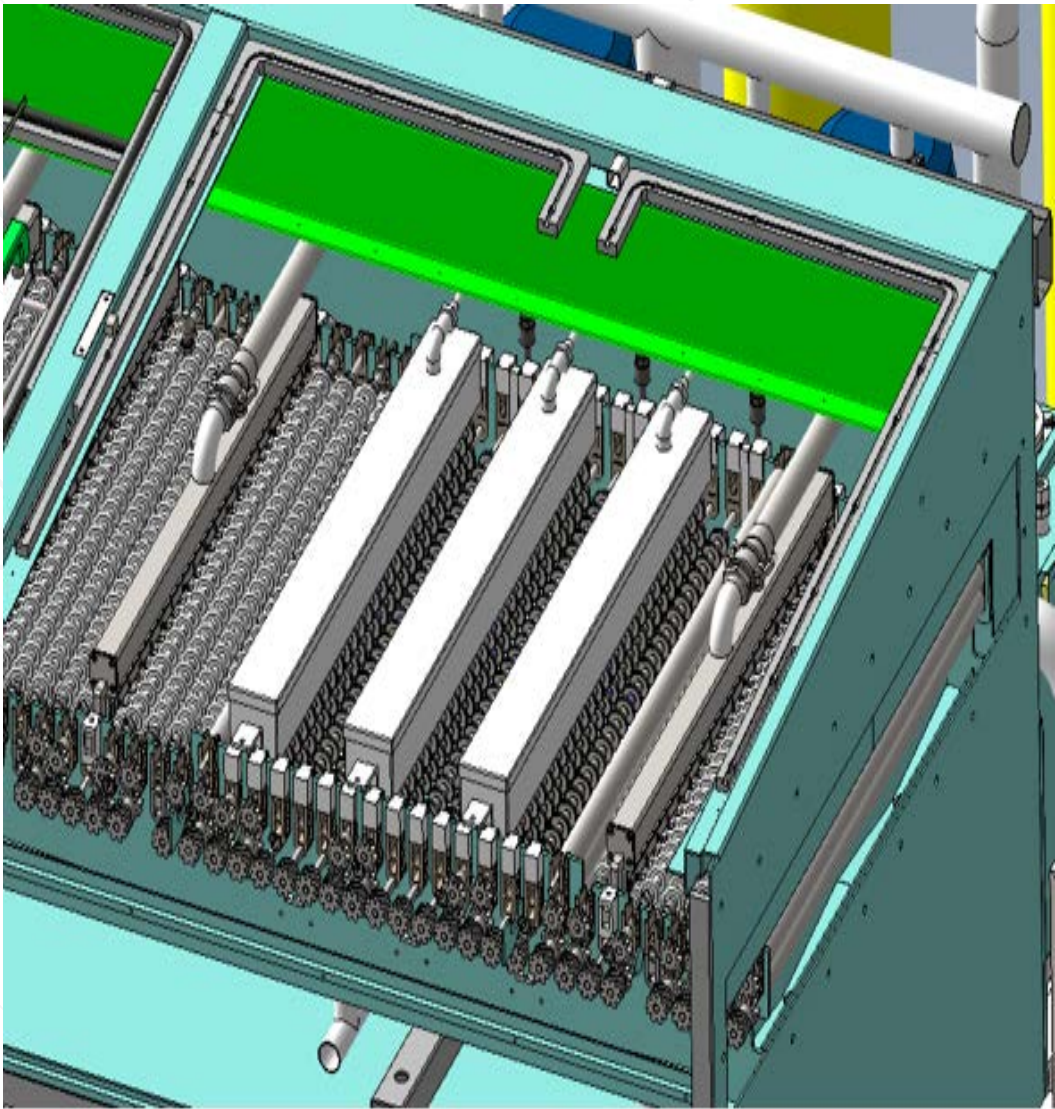
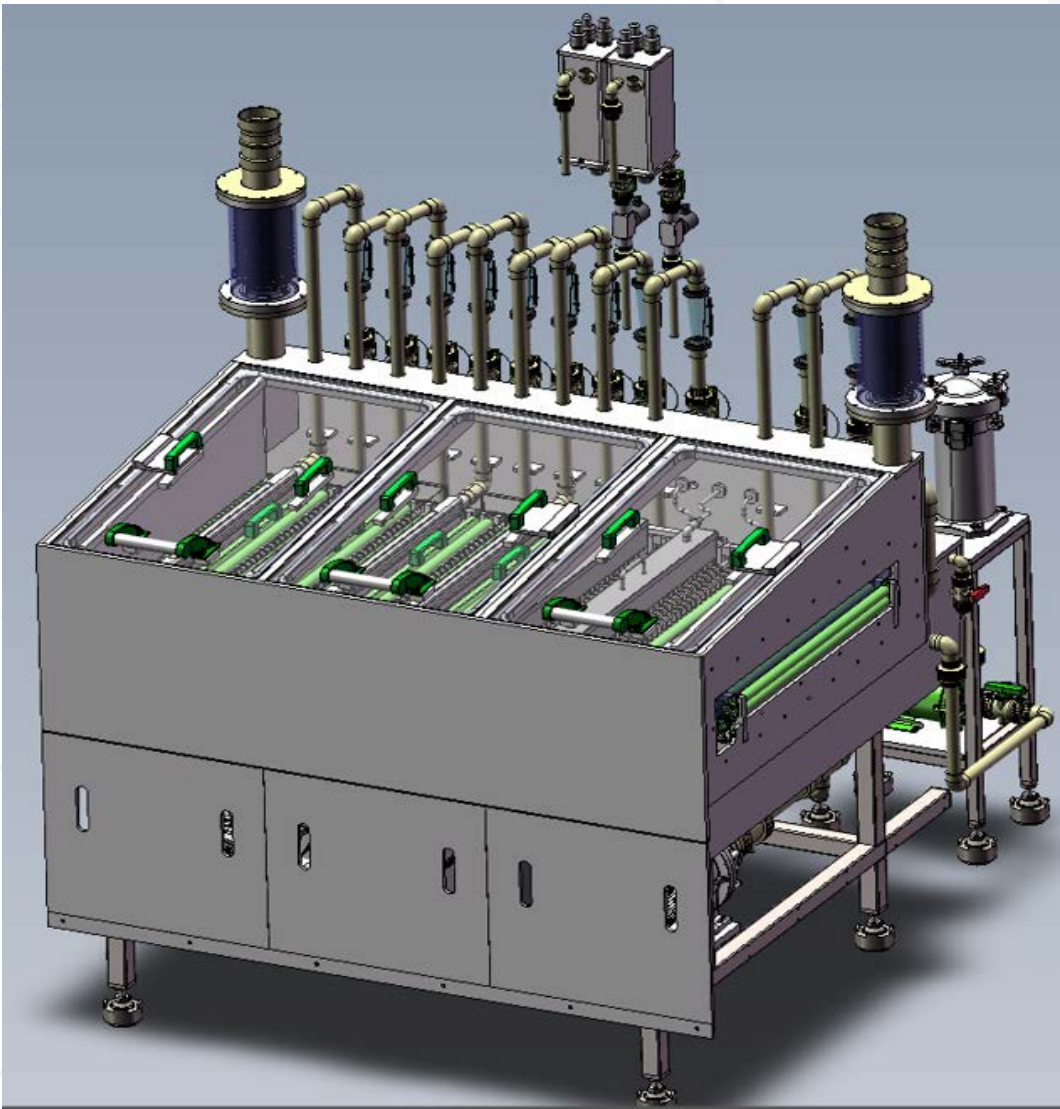
Desmear Machine

Equipment features

- 1. Hole-type + slot-type water jet combination, strong filling capacity;
- 2. Side wall water spray pipe (adjustable angle) to prevent crystallization;
- 3. Ultrasonic vibrator + staggered water jet design to achieve high efficiency of hole rectification ability;
- 4. Activated solution reflux and light-proof design prolongs the service life of chemical and reduces the running cost;
- 5. Efficient regeneration system design, directly regenerate Mn6+to Mn7+, effectively control the service life of the chemical.

Equipment parameter

Panel Size(FPC):	560mmWx610mmL(max) 250mmWx250mmL(min) 0.012mm(core)+12/12um Cu~1.2mm
Panel Size(Rigid Board) :	560mmWx610mmL(max) 300mmWx300mmL(min) 0.025mm(core)+12/12um Cu~3.2mm
Aspect Ratio:	1.2:1(Blind Hole Φ0.075mm) 25:1(Through Hole Φ0.2mm)



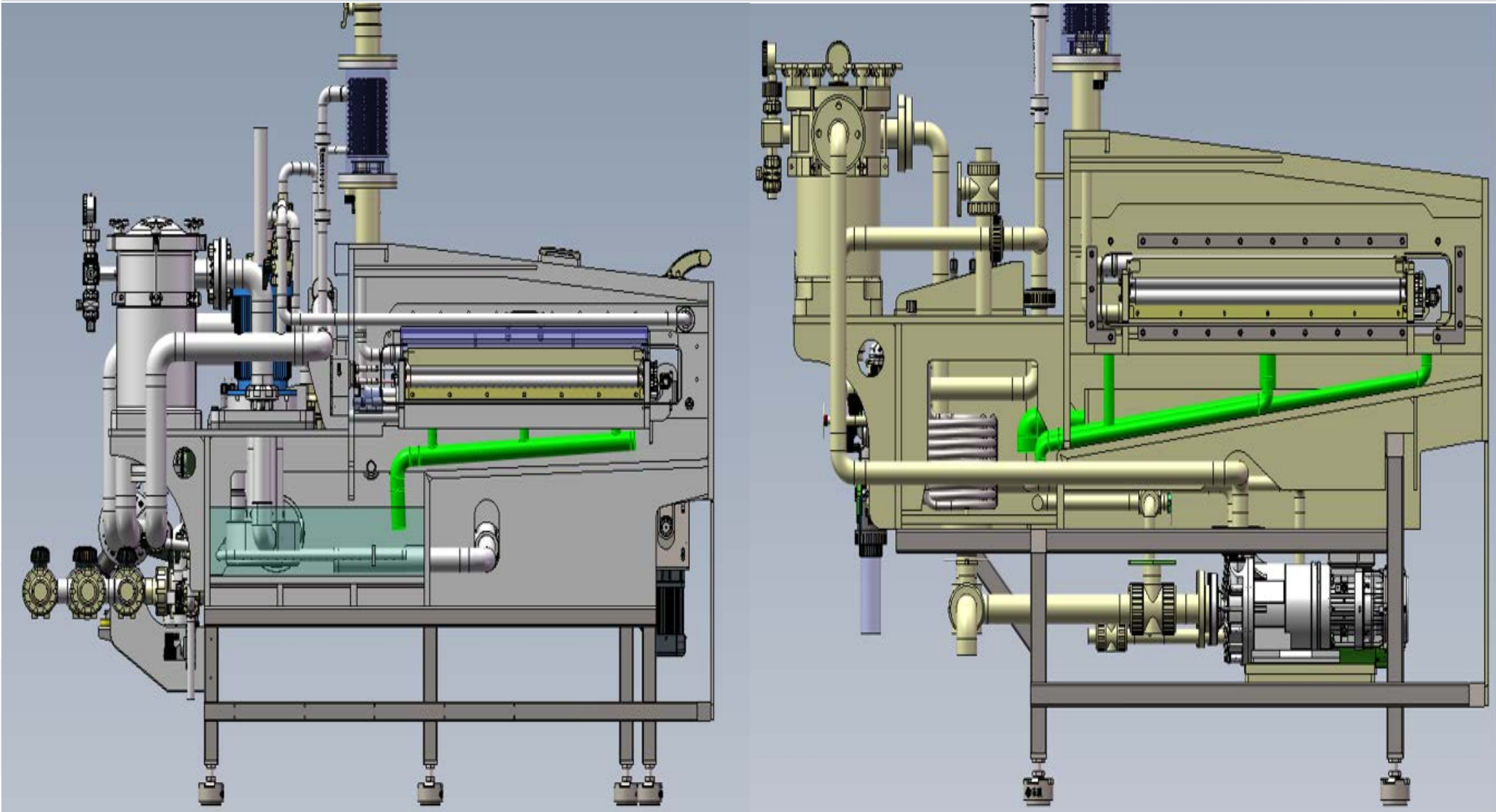
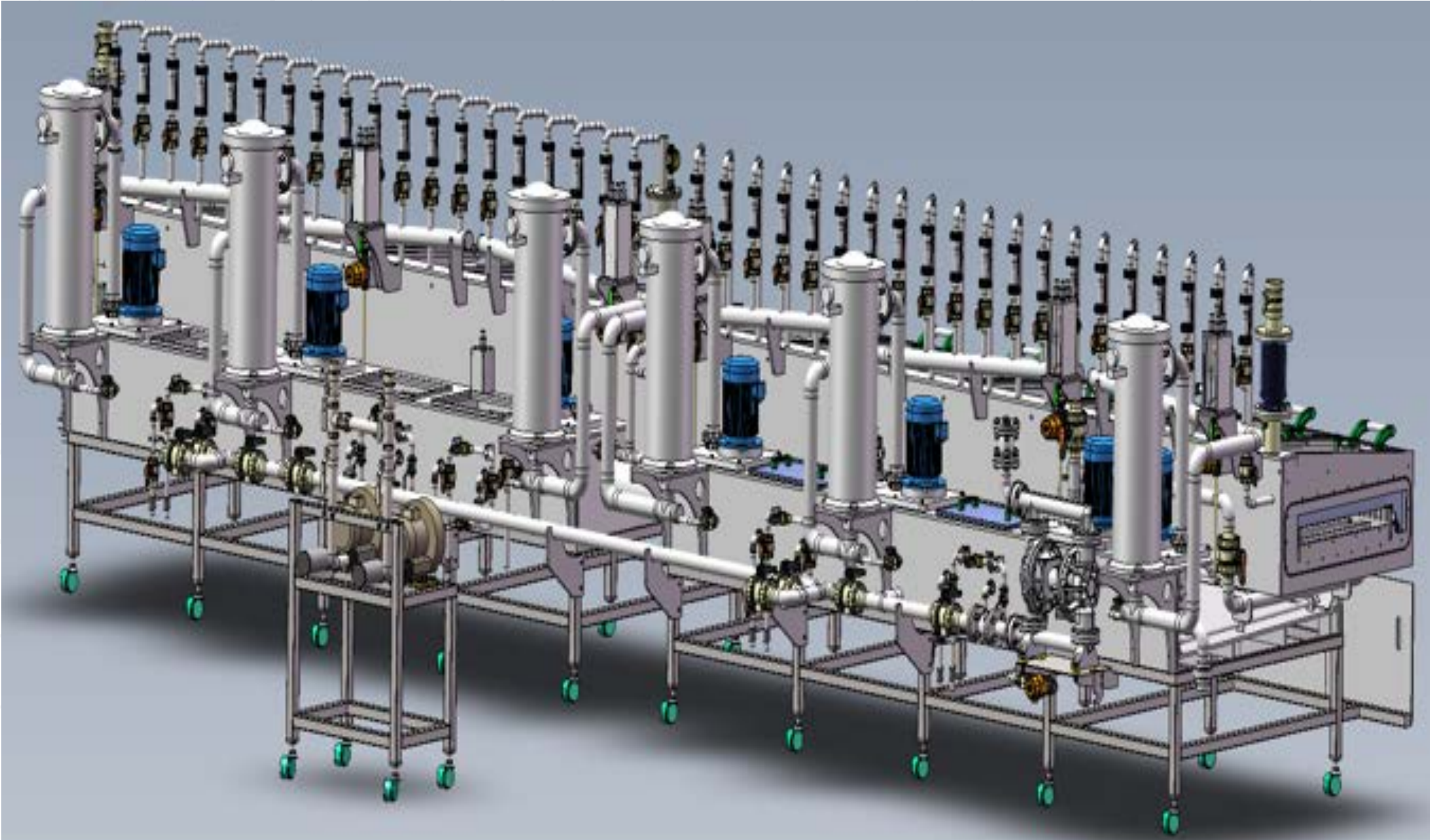
Pth Machine

Equipment features

- 1. The machine design can effectively prevent the crystallization of chemicals;
- 2. The bottom side of the main groove is designed with an inclination, which will not cause chemical surge ;
- 3. The medicine liquid circulates in a spiral way, flows smoothly, reduces the generation of foam, and extends the service life of chemical;
- 4. Water knives are distributed in a staggered manner, and the chemical is sprayed evenly.

Equipment parameter

Panel Size(FPC):	560mmWx610mmL(max) 250mmWx250mmL(min) 0.012mm(core)+12/12um Cu~1.2mm
Panel Size(Rigid Board) :	560mmWx610mmL(max) 300mmWx300mmL(min) 0.025mm(core)+12/12um Cu~3.2mm
Aspect Ratio:	1.2:1(Blind Hole Φ0.075mm) 25:1(Through Hole Φ0.2mm)



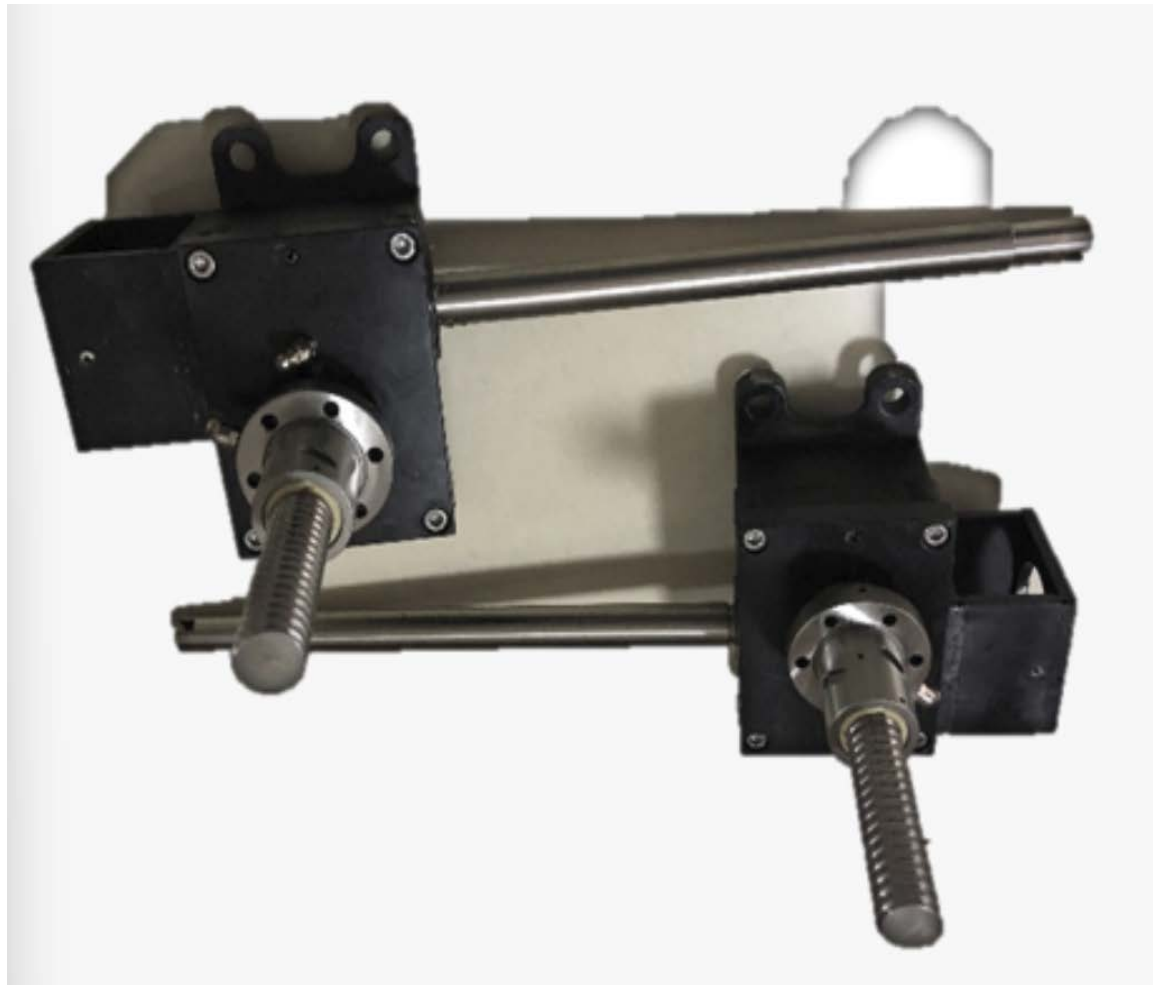
Scrubbing Machine

Equipment features

- 1. Automatically measure the panel thickness and adjust the pressure automatically;
- 2. The upper steel roller automatically rises and falls according to the panel thickness;
- 3. Automatically add lubricating oil to extend the service life;
- 4. Ball screw lifting and lowering, stable grinding performance.

Equipment parameter

Panel Size(FPC):	630mmWx630mmL(max) 300mmWx300mmL(min) 0.2~3.2mm
Panel Size(Rigid Board) :	1050mmWx1100mmL(max) 350mmWx350mmL(min) 0.5~6.3mm



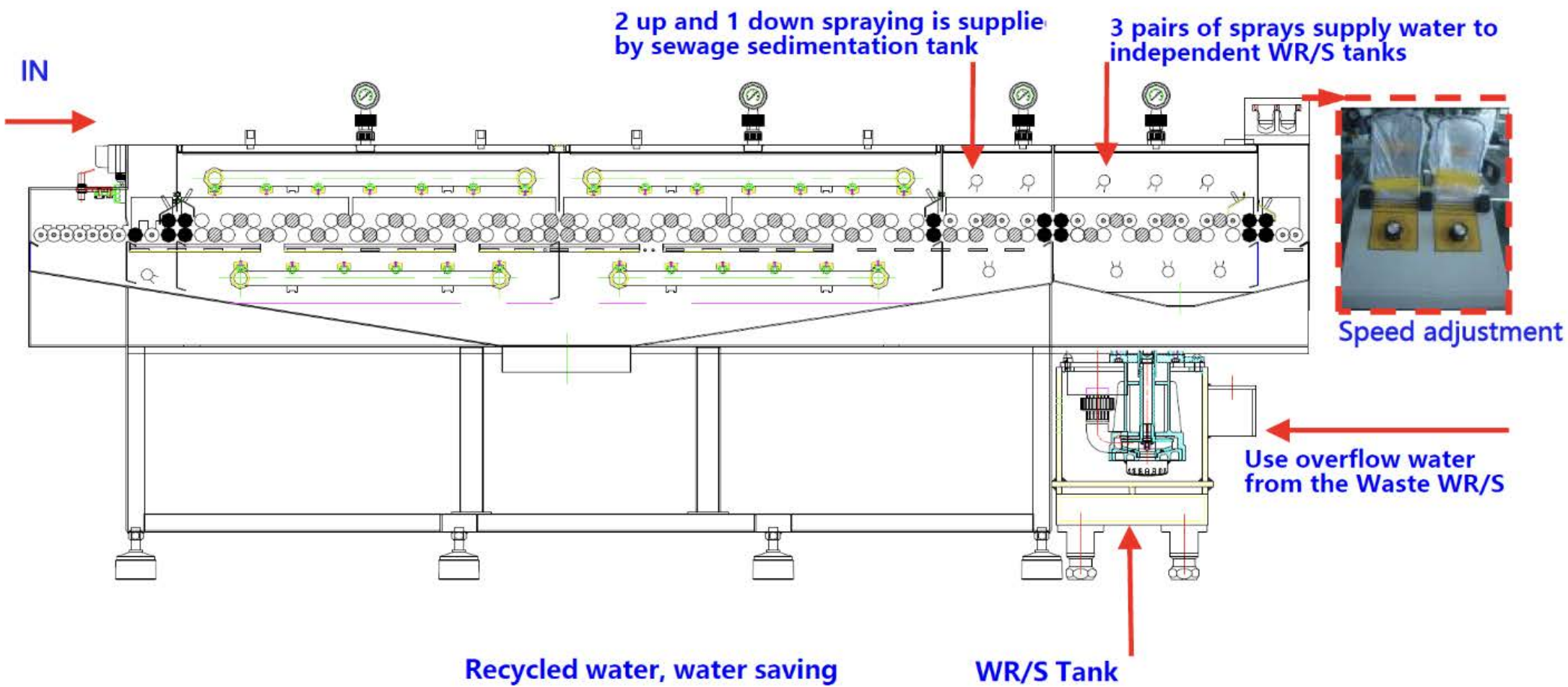
Jet Master Machine

Equipment features

- 1.The spray pipe with quick-connect design, which is convenient for maintenance;
- 2.Side wall flushing + double-layer dust baffles prevent sand leakage;
- 3.High-efficiency multi-stage separator fully separates sand and water;
- 4Automatic sand discharge function makes it easy to separate sand and water and recycle water.

Equipment parameter

Panel Size(FPC):	500mmWx5000mmL(max) 250mmWx250mmL(min) 0.012mm(core)+12/12um Cu~1.2mm
Panel Size(Rigid Board) :	630mmWx630mmL(max) 75mmWx75mmL(min) 0.025mm(core)+12/12um Cu~3.2mm
Panel Size (Back Panel)	1050mmWx1100mmL(max) 350mmWx350mmL(min) 0.5~12mm



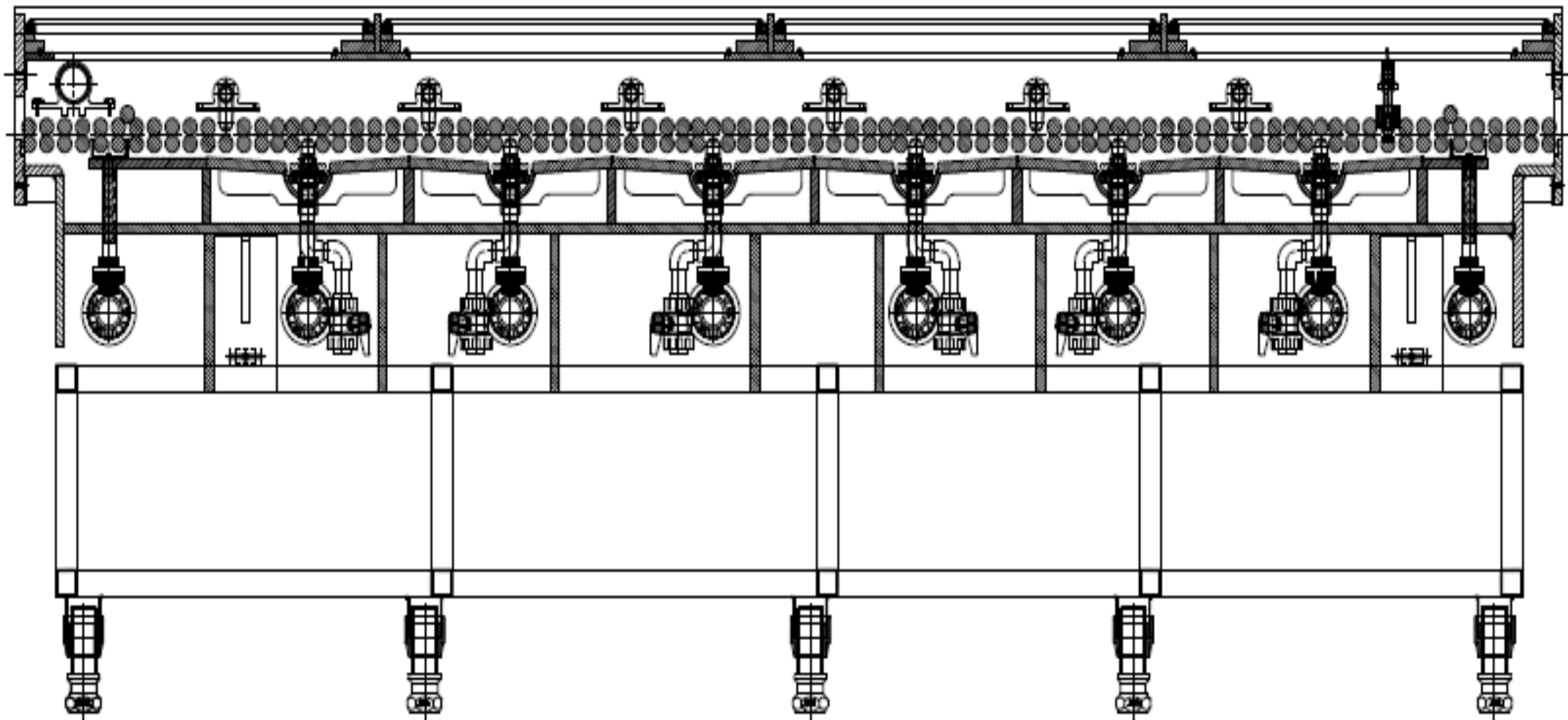
Immersion Tin Machine

Equipment features

- 1.Modular transmission bearing seat, with water retaining plate, to reduce crystallization of transmission gears ;
- 2.Immersion Tin connector uses titanium plate reinforcement design to prevent the connector from cracking due to thermal expansion and contraction, which may cause leakage;
- 3.Air baffle at the immersion tin connection to prevent the gas from entering the front module and polluting the water quality;
- 4.The cross-circulation pump design increases the circulation volume of the chemical and ensures the uniformity and stability of the chemical.

Equipment parameter

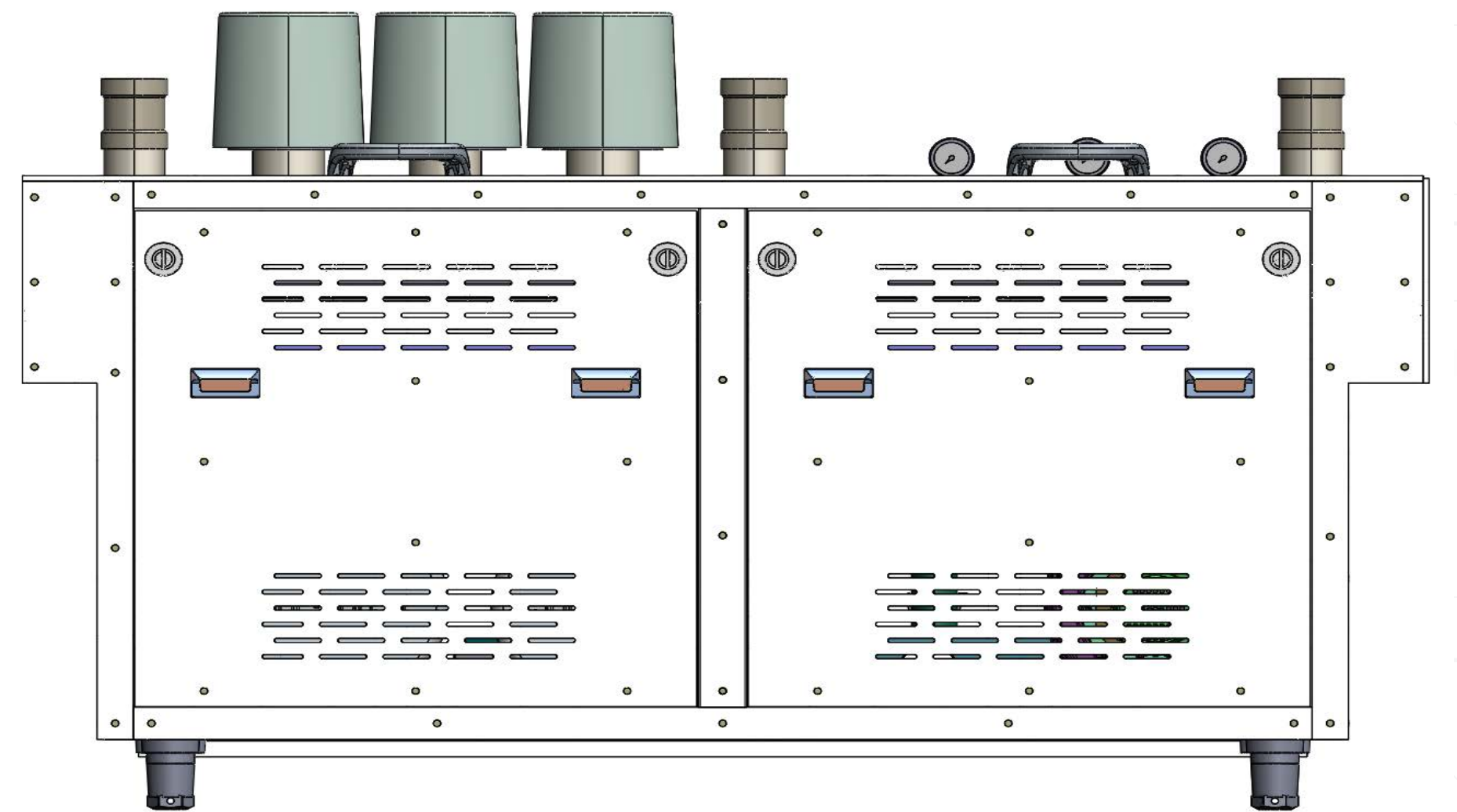
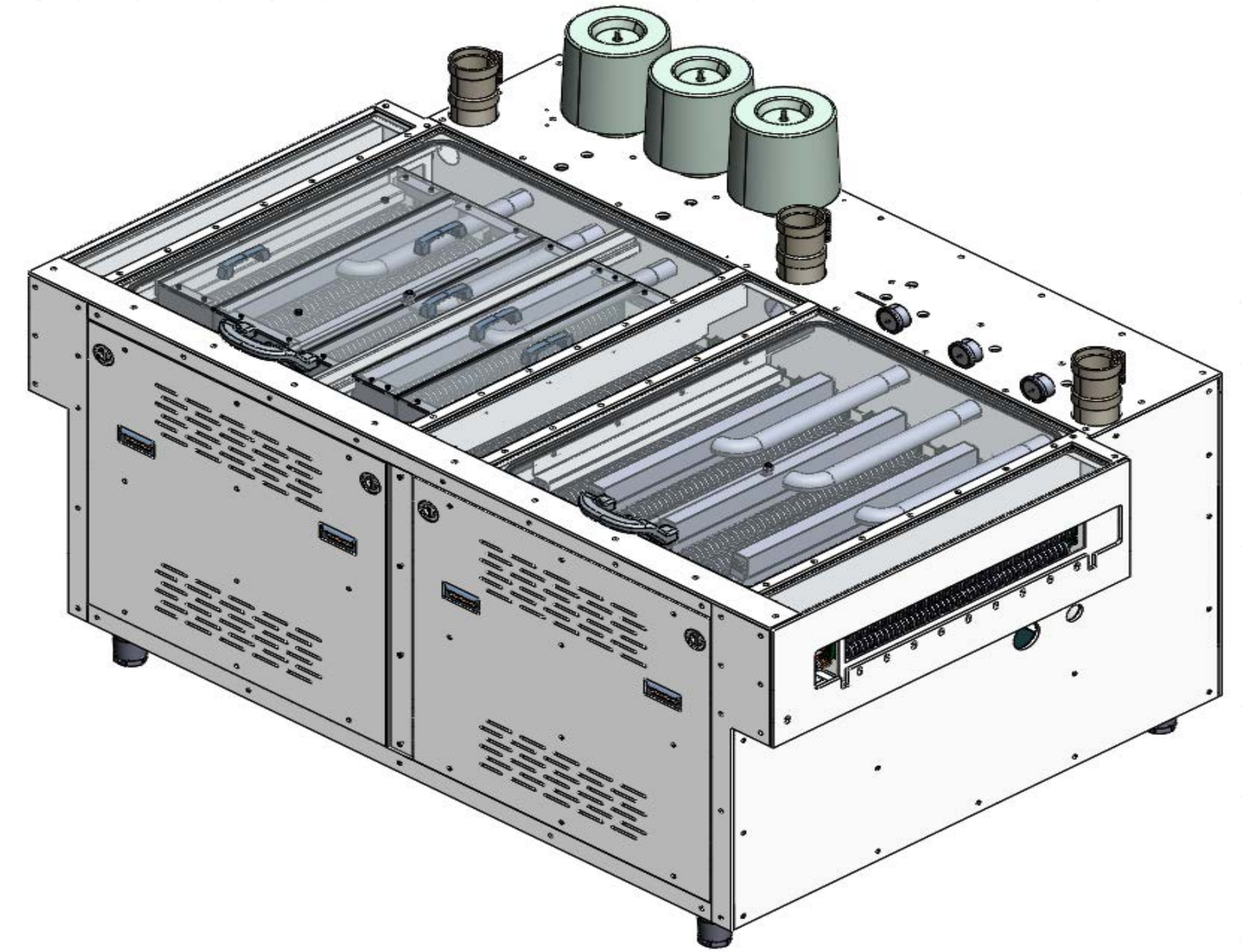
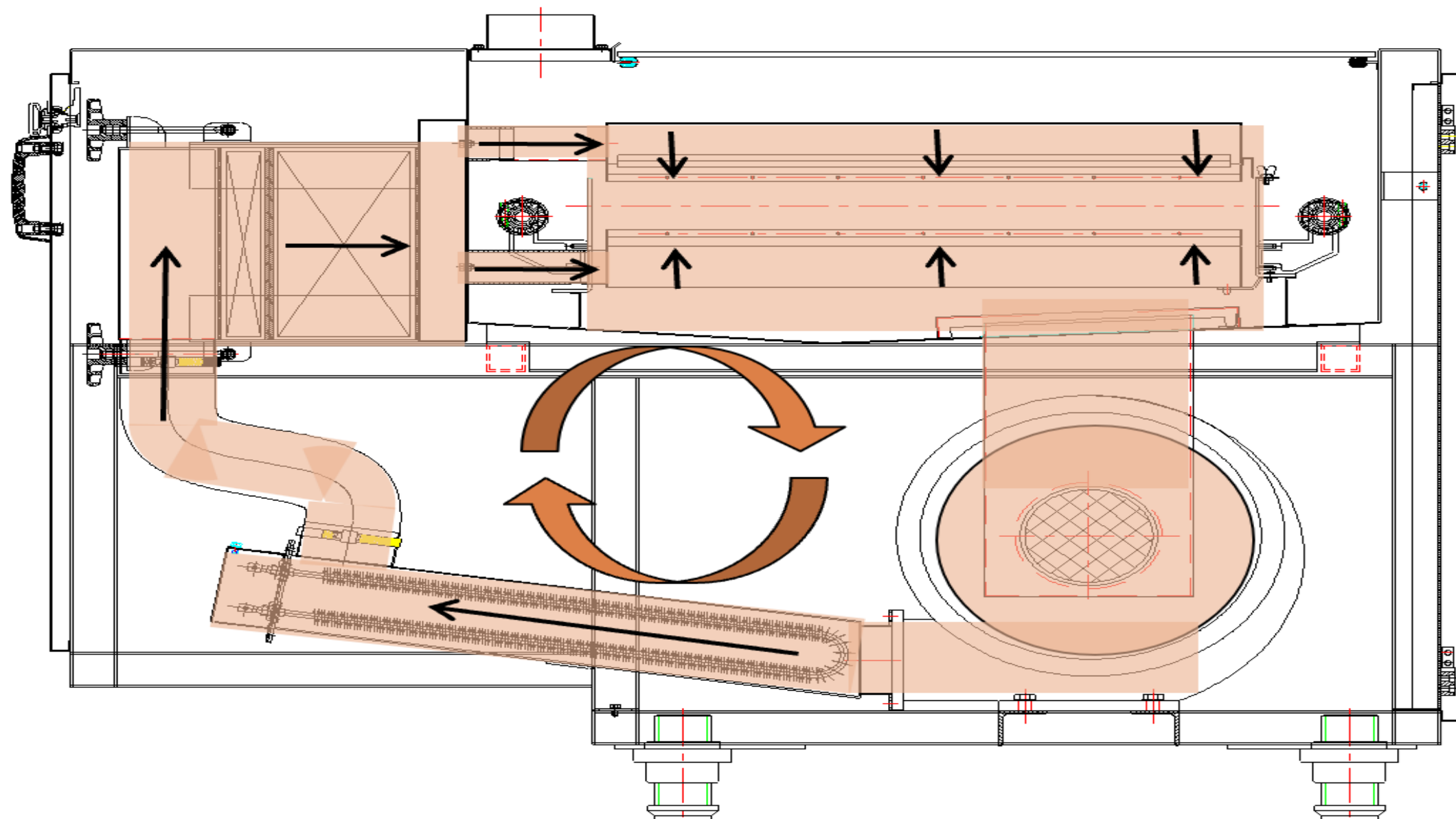
Panel Size(FPC):	630mmWx630mmL(max) 100mmWx100mmL(min) 0.3mm~3.2mm
Aspect Ratio:	1.5:1(Blind Hole Φ0.1mm) 16:1(Through Hole Φ0.2mm)



Drying Module

Equipment features

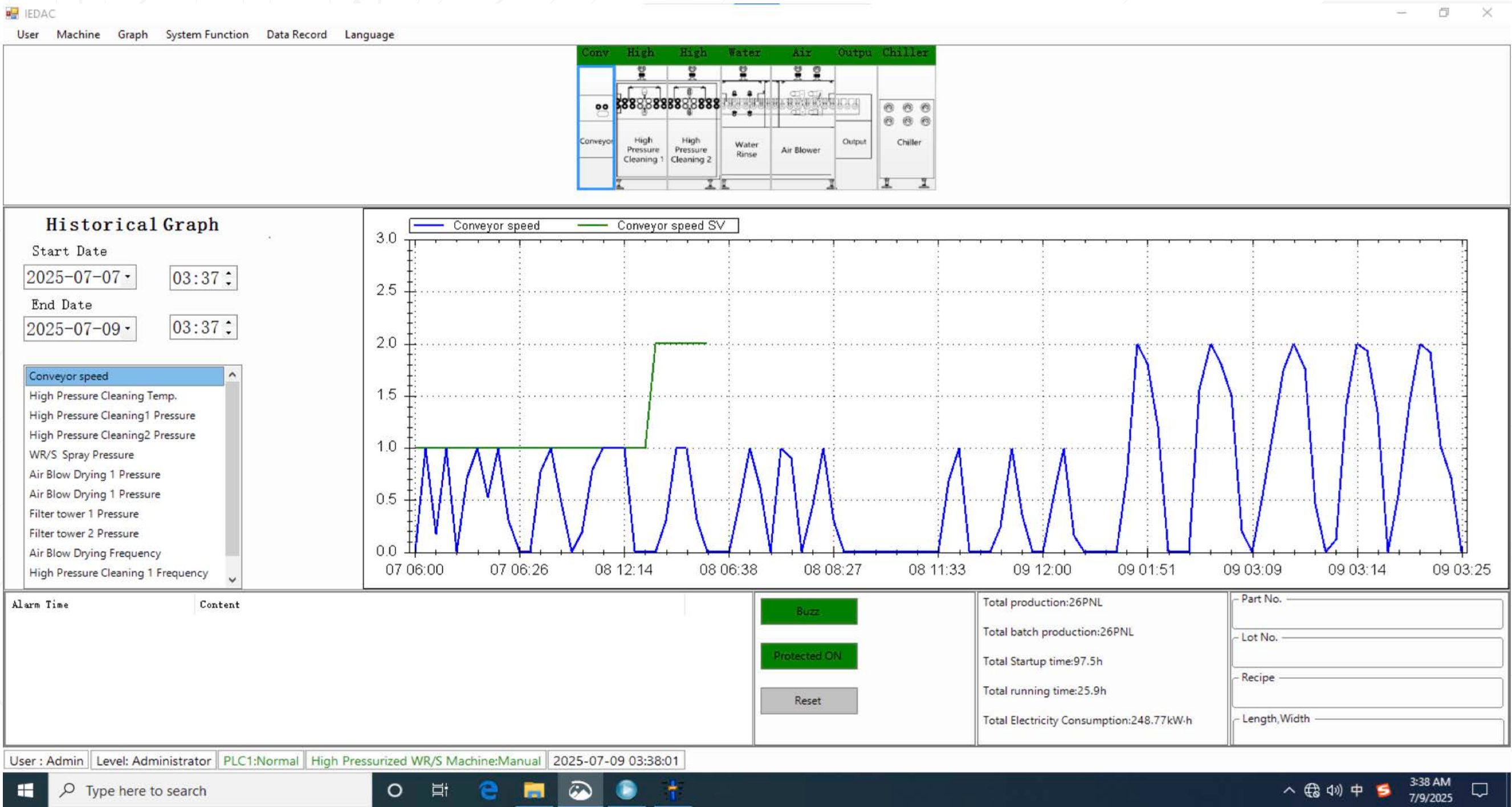
1. Hot air drying module with thermal insulation cotton to reduce heat loss;
2. Double-glazed design for hot air drying module reduces heat consumption;
3. Strong air/hot air uses an air filter design to improve the cleanliness of the air blowing to the board surface;
4. Solid rollers and wind shields between strong air and hot air to reduce mutual interference and ensure stable and evenly distributed temperature in the hot air dryer.



PC Control

Equipment features

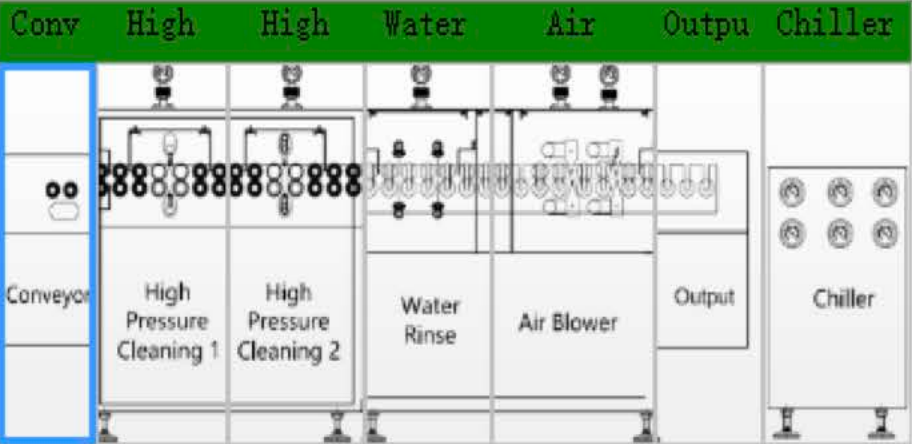
- 1.PC management: including user management and printing of historical data;
- 2.Recording function: including querying production data and recording production materials;
- 3.Display function: Display the speed, temperature, chemical dosing and other real-time and historical data of each module.



PLC Interface

IEDAC

User Machine Graph System Function Data Record Language



Previous Search Total 1 Pages 1/1 Next

- | | | |
|---|---|---|
| X000000 ☐ Input Signal | X000001 ☒ Emergency Stop | X000002 ☒ Conveyor Inverter Failure |
| X000003 ☐ Motor Overload | X000004 ☐ Start button | X000005 ☒ Stop button |
| X000006 ☐ Distance measurement Signal | X000007 ☐ High Pressure relay pump filter cover open | X000010 ☒ WR filter cover open |
| X000011 ☒ High pressure WR sub tank low liquid level | X000012 ☐ High pressure WR sub tank high liquid level | X000013 ☒ Filter relay tank low liquid level |
| X000014 ☒ Filter relay tank Middle liquid level | X000015 ☐ Filter relay tank high liquid level | X000016 ☒ WR low liquid level |
| X000017 ☒ High pressure WR 1 top cover open | X000020 ☒ High pressure WR 2 top cover open | X000021 ☒ Air Blower Inverter Failure |
| X000022 ☐ Output Signal | X000023 ☒ High pressure oscillation inverter Failure | X000024 ☒ Manual/Auto button |
| X000025 ☐ Alarm reset button | X000026 ☒ High pressure pump 1 inverter Failure | X000027 ☒ High pressure pump 2 inverter Failure |
| X000030 ☒ High pressure W/R 1A ball valve open/close | X000031 ☐ High pressure W/R 1B ball valve open/close | X000032 ☒ High pressure W/R 2A ball valve open/close |
| X000033 ☐ High pressure W/R 2B ball valve open/close | X000034 ☒ High pressure relay pump inverter Failure | X000035 ☒ High pressure pump 1A On/Off signal |
| X000036 ☐ High pressure pump 1B On/Off signal | X000037 ☒ High pressure pump 2A On/Off signal | X000040 ☐ High pressure pump 2B On/Off signal |

Alarm Time	Content	Buzz Protected ON Reset	Total production:26PNL Total batch production:26PNL Total Startup time:97.6h Total running time:25.9h Total Electricity Consumption:248.77kW·h	Part No. Lot No. Recipe Length,Width
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Thank You

sales@vikingcorp.ltd

01420 485 960

vikingcorp.ltd