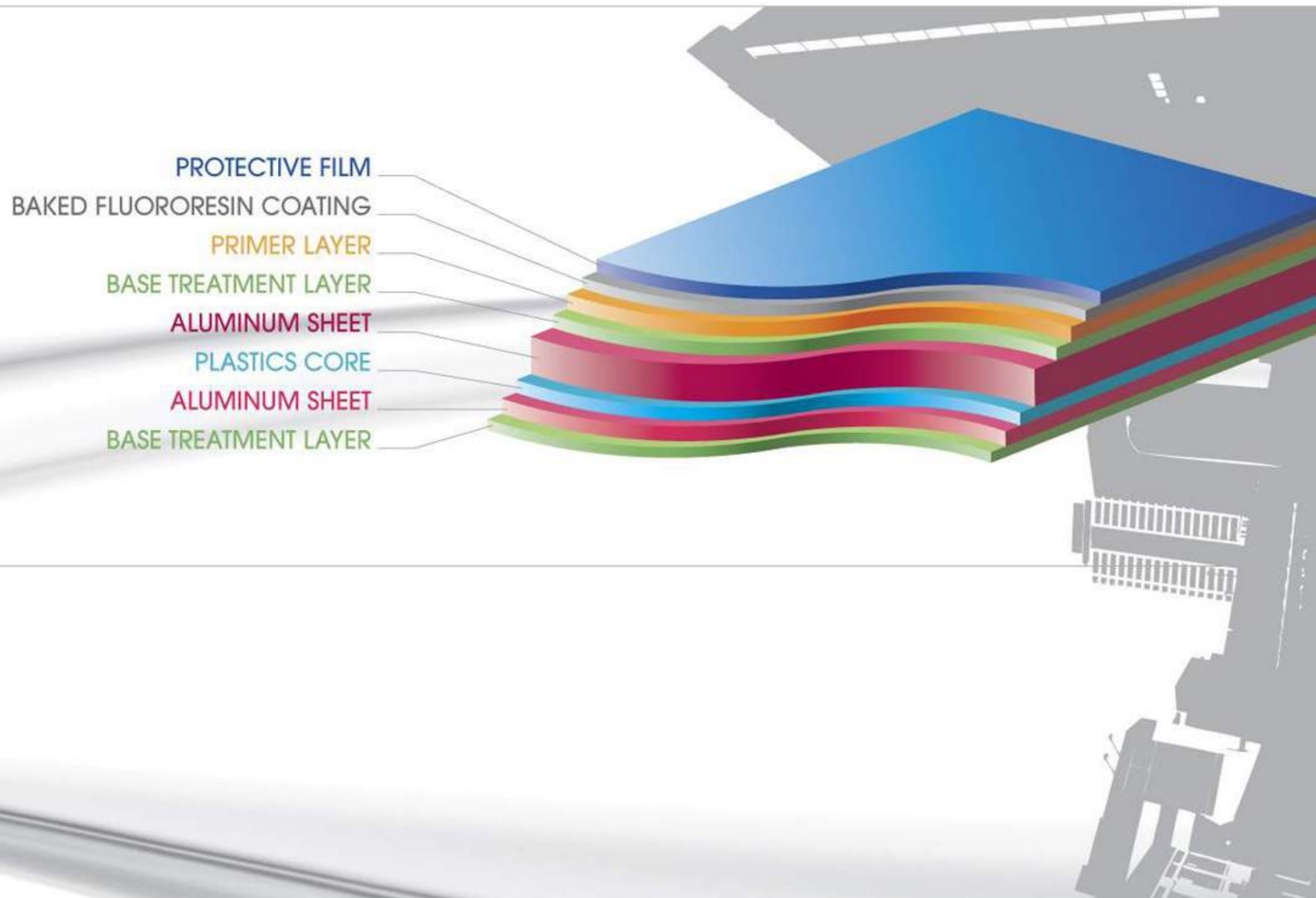


Alumax Industrial Co., Ltd. has nearly three decades of experience in building precision and reliable line equipments for Aluminum Composite Panels.

We have always dedicated ourselves in latest technology developments, such as we adopt NANO PVDF paint special technology in our aluminum coil coating line to give an added value to ACP. We have also developed special equipments for producing A2 safety grade fire retarded ACP to cope with most stringent safety demand and world trend.

According to customers' different requirements, our engineering team always design most suitable lines to win clients' utmost satisfaction. We provide warranty for our equipments and our after sales service is an unlimited commitment to customers.

Besides our main line in ACP equipments, we also supply metal forming machine, PU panel production line and aluminum ceiling tile line. Please contact us for technical discussion of your production requirement today.



WHAT IS A.C.P. ?

A.C.P. is aluminum composite panel, it is a new technology building material, the panel is a composite consisting of two layers of aluminum sheet sandwiching a polyethylene core produced from a continuous extrusion process.

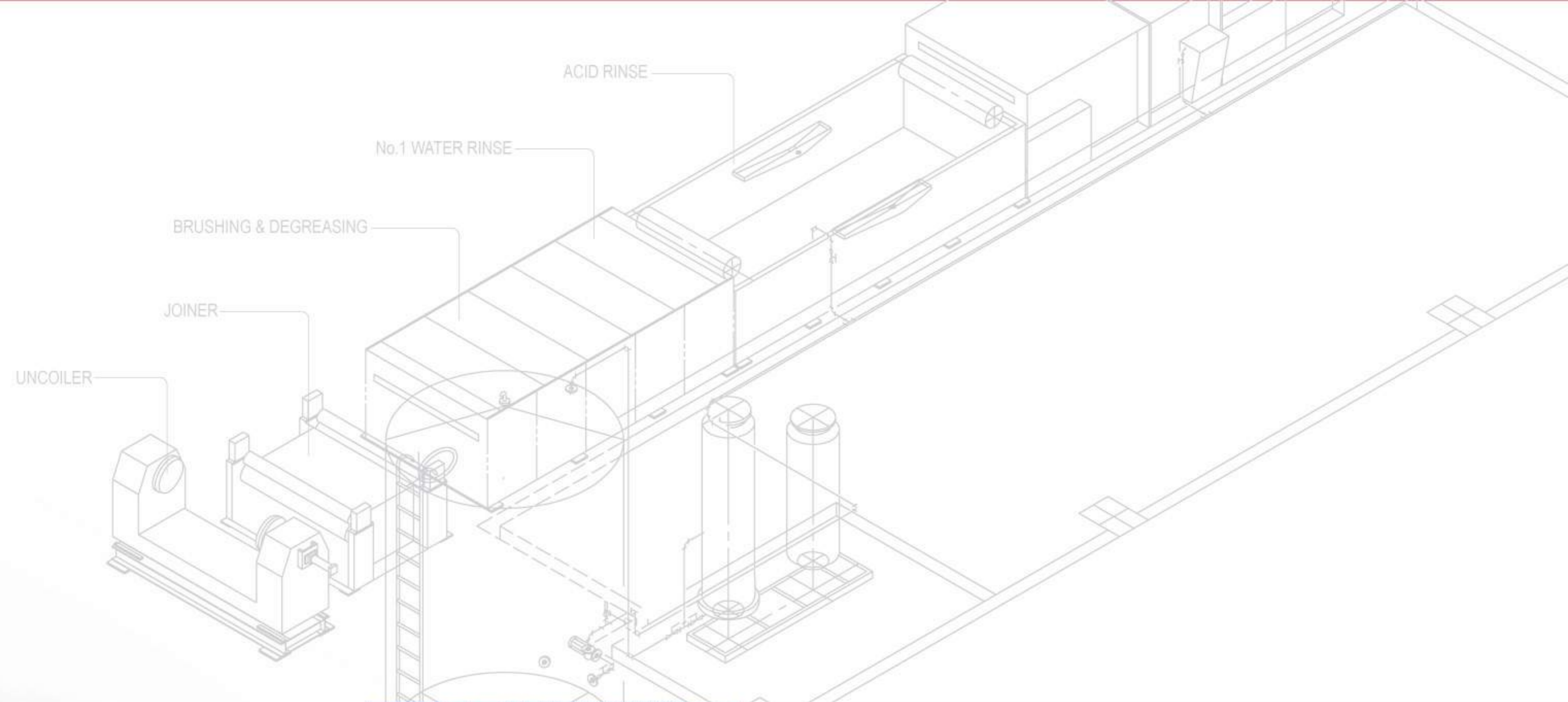
WHY USE ACP AS IDEAL CHOICE OF BUILDING MATERIAL ?

It is light in weight, versatile and rigid that can be fabricated and clad on flat or curved surface.

The outer aluminum sheet for exterior application panel is coated with PVDF Kynar 500 fluorocarbon coating, you can also choose to have special nano PVDF coating with self-clean feature instead of normal PVDF coating on the surface; the lower aluminum sheet is polyester coated.

Our technically advanced production equipments is designed with optional feature for producing A2 fire-proof grade ACP; to achieve safety standard of A2 fire-proof grade, a special composition of mineral and PE core must be used in extrusion process. Our optional extrusion machine is especially designed for continuous extrusion of such material.

Standard available size of ACP is from width 1200mm~1600mm with available thickness from 1mm~6mm. Our special designed ACP production line equipment – ACP2000 can produce up to 2000mm width of panel, hence providing more possibility and choice to cope with future market demands.



Why pre-clean metal?

Aluminum coil or galvanized steel strip is cleaned by hot water and treated with chemical in order to form an ideal surface for coating with PE or PVDF. Another purpose for pre-clean metal is to enhance anti-corrosion feature of metal as well as strengthen bonding between metal sheet and coating layer.

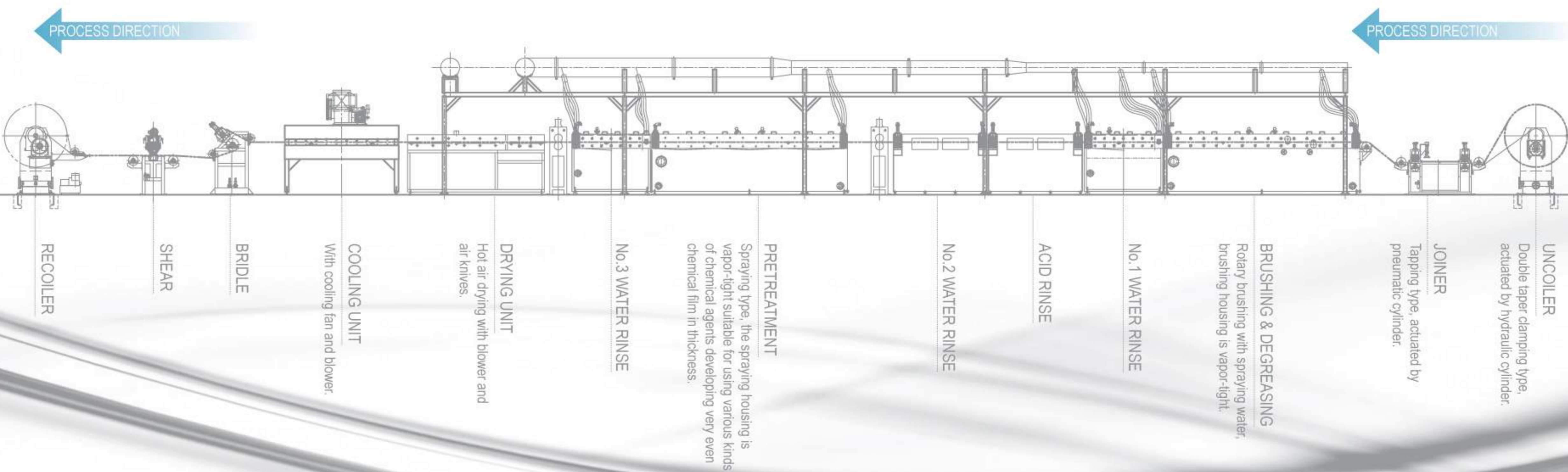
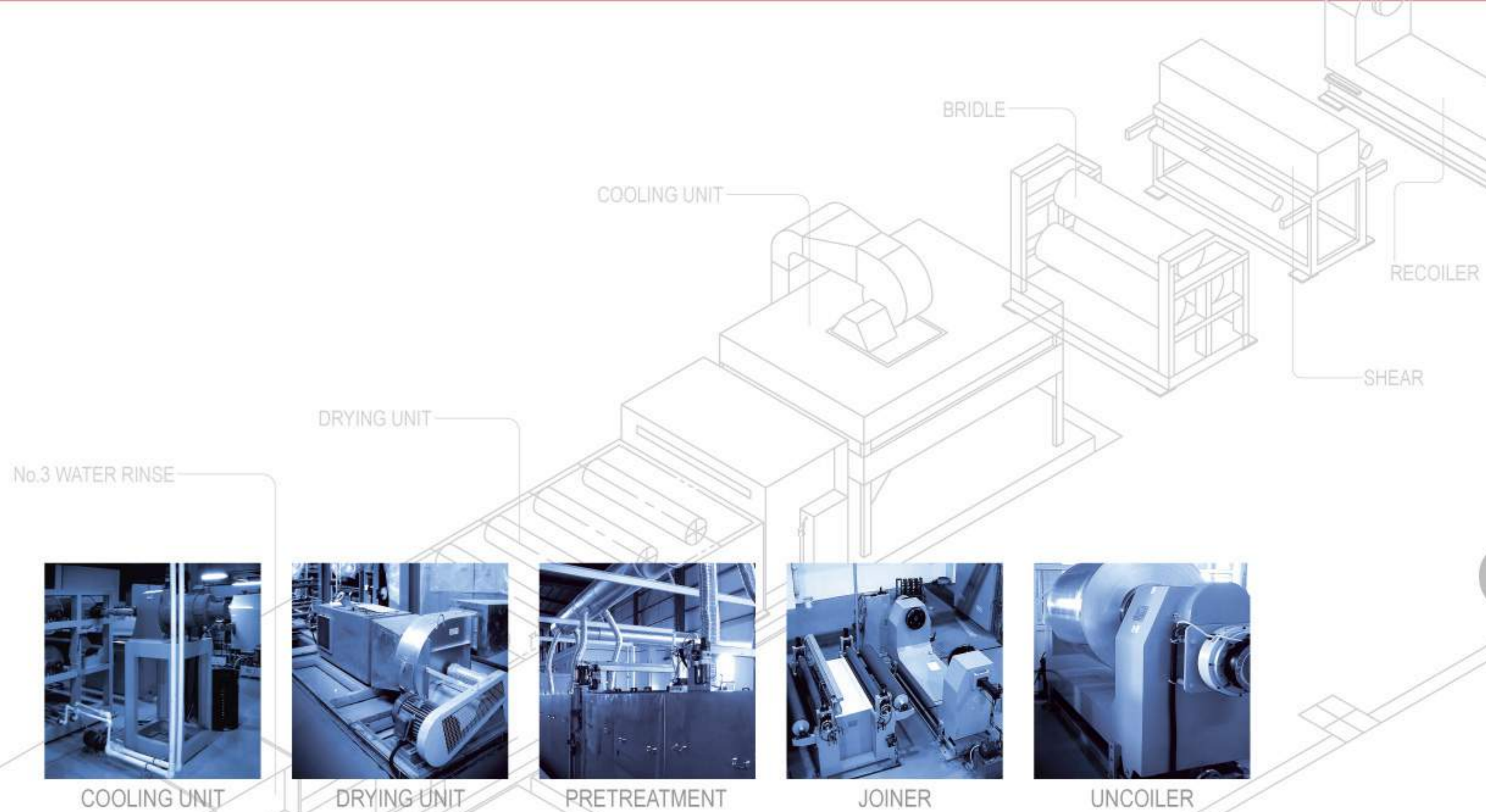


Aluminum Coil Cleaning Line

Aluminum Coil Cleaning Line

LINE SPECIFICATIONS

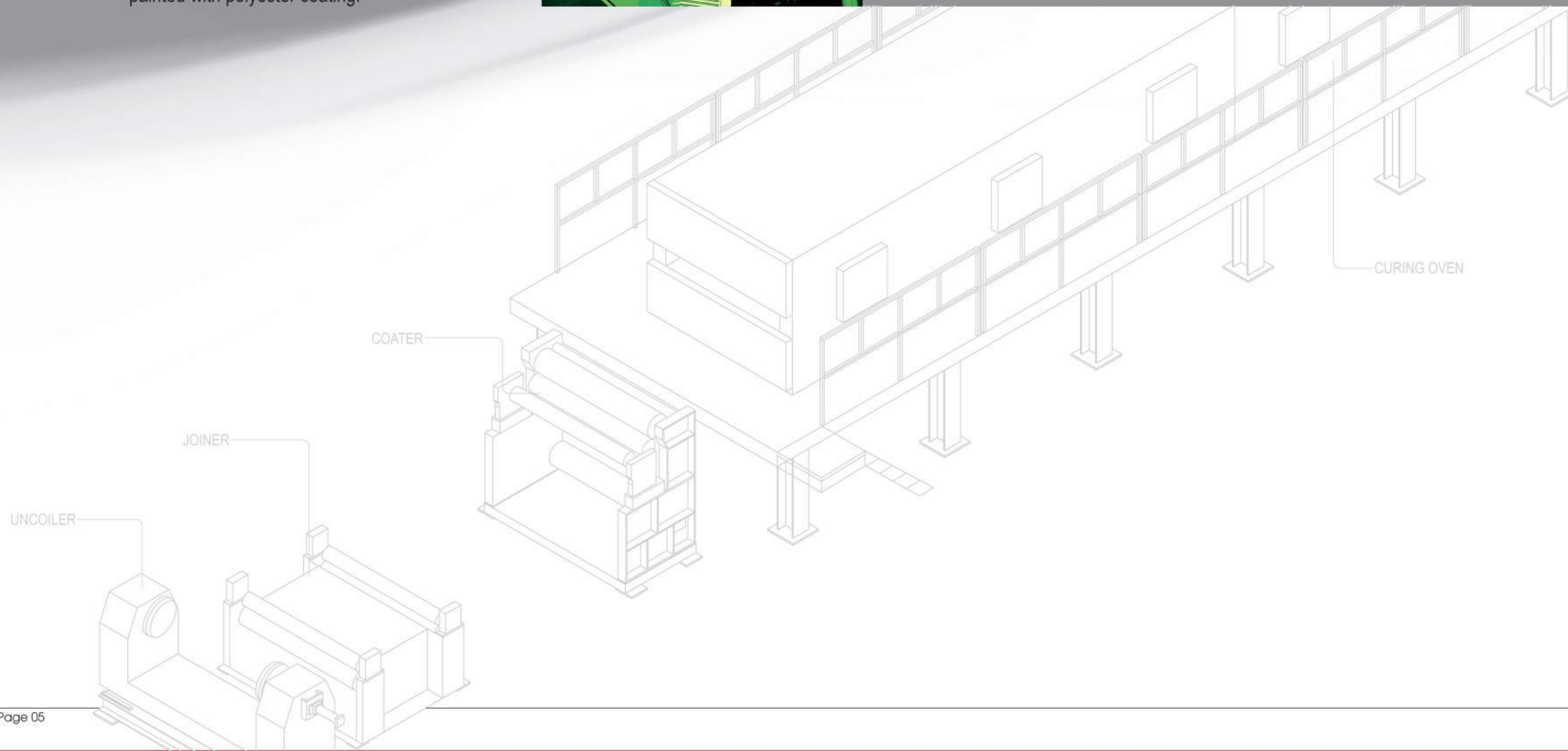
Raw material	
Aluminum coil thickness	0.2–0.5 mm
Width	910–1600 mm (2000mm)
Chromated weight	20–80 mg/square meter
Line Speed	Variable to 15 M/min
Occupied area	42 M (L) x 8 M(W) x 4 M(H)
Line weight	32,000kgs
Product data	Product thickness 0.2–0.5 mm
Width	910–1600mm (or 2000mm)

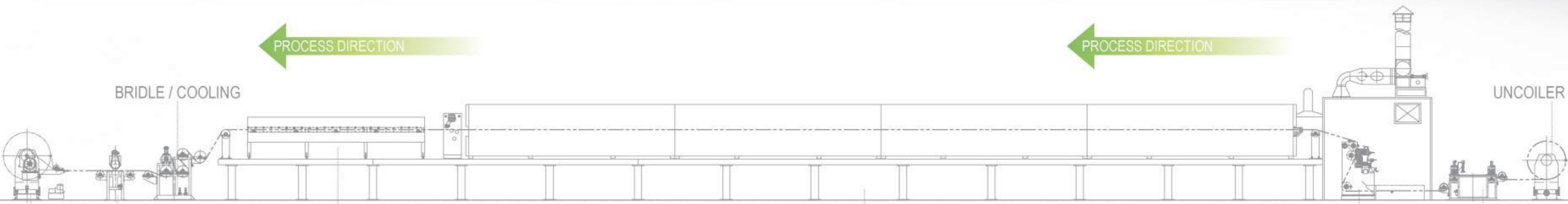


Aluminum Coil Coating Line

Why coat metal?

Aluminum coils or galvanized steel strip is painted and baked twice in coating lines to ensure high resistance and appealing appearance. For exterior grade panels, it is painted with PVDF Kynar 500 fluorocarbon coating. For interior grade panels, it is painted with polyester coating.





RECOILER SHEAR AIR QUENCH
Air cooling by blower and circulation water pump.

CURING OVEN
Tunnel type with curing temperature up to 250°C temperature controlled by P.I.D., stable temperature within $\pm 1^\circ\text{C}$.

COATER
Reverse roll coating, traverse by hydraulic cylinder system with paint agitator and feeding device, even coating thickness within tolerance $\pm 2 \mu\text{m}$.

JOINER UNCOILER

LINE SPECIFICATIONS

Coating paints	Polyester , PVDF
Production speed	8-20 M/min. for polyester 8-12 M/min. for PVDF
Occupied area	60M(L) x 7M(W) x 5.5M(H)
Line weight	36,000 kgs
Product data	Thickness: 0.2 – 0.5 mm Width: 910 – 1600 mm (2000mm)
Capacity of product output	20 M/min. for polyester 12 M/min. for PVDF



BRIDLE



COOLING



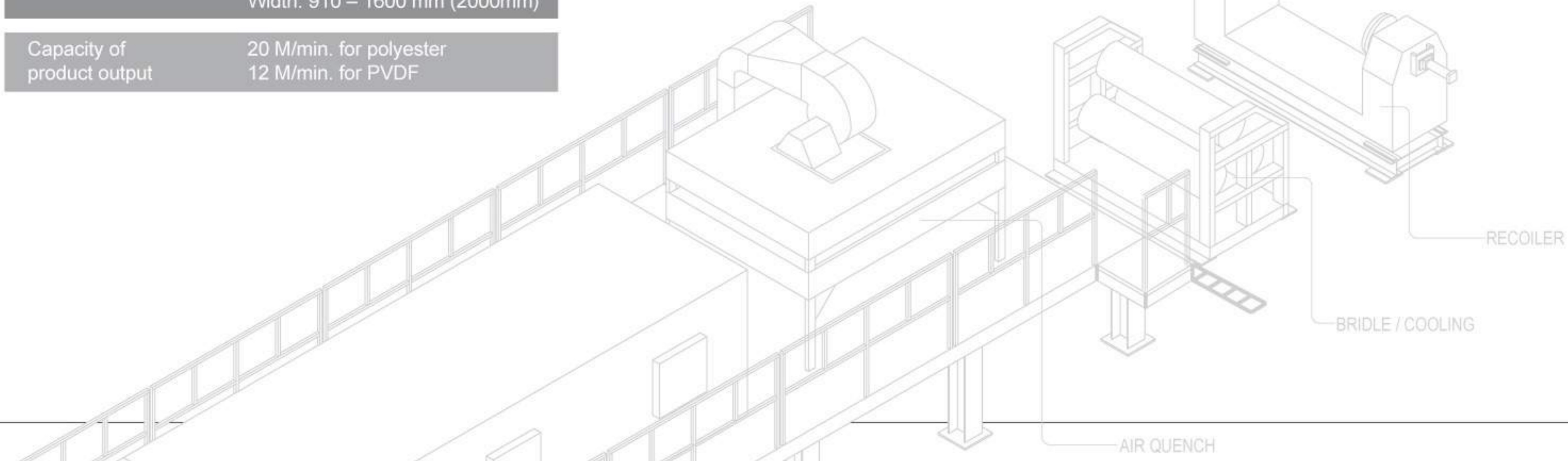
AIR QUENCH



CURING OVEN



COATER



**Aluminum
Coil Coating Line**

Depending upon the final products and customer's requirements, the specification and arrangement of the line may vary. Fast in production speed, superior flatness on surface, highly resistance to impact and corrosion.



Aluminum Composite Panel Production Line



HYDRAULIC LIFTING TABLE



PANEL SAWING MACHINE



EDGE SAWING MACHINE



TAKE OFF UNIT



COOLING CHAMBER



4M COOLING CONVEYOR



No. 3 ROLLING UNIT

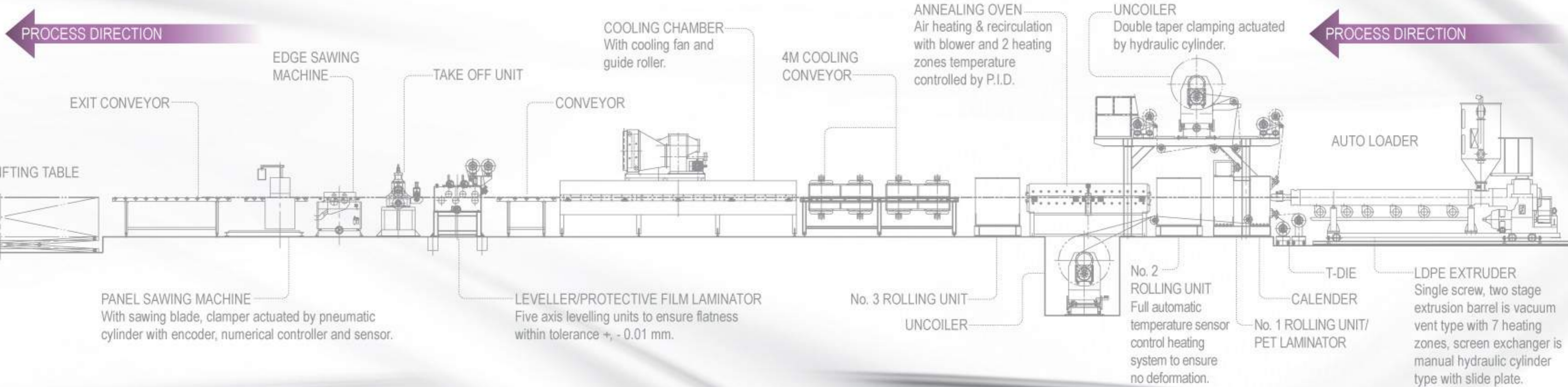


CALENDER



LDPE EXTRUDER

STACKER CUT TO LENGTH TAKE OFF EDGE TRIMMING COOLING OVEN HEATING OVEN LAMINATE COIL UN-WINDER CALENDERING T-DIE EXTRUDER



LINE SPECIFICATIONS

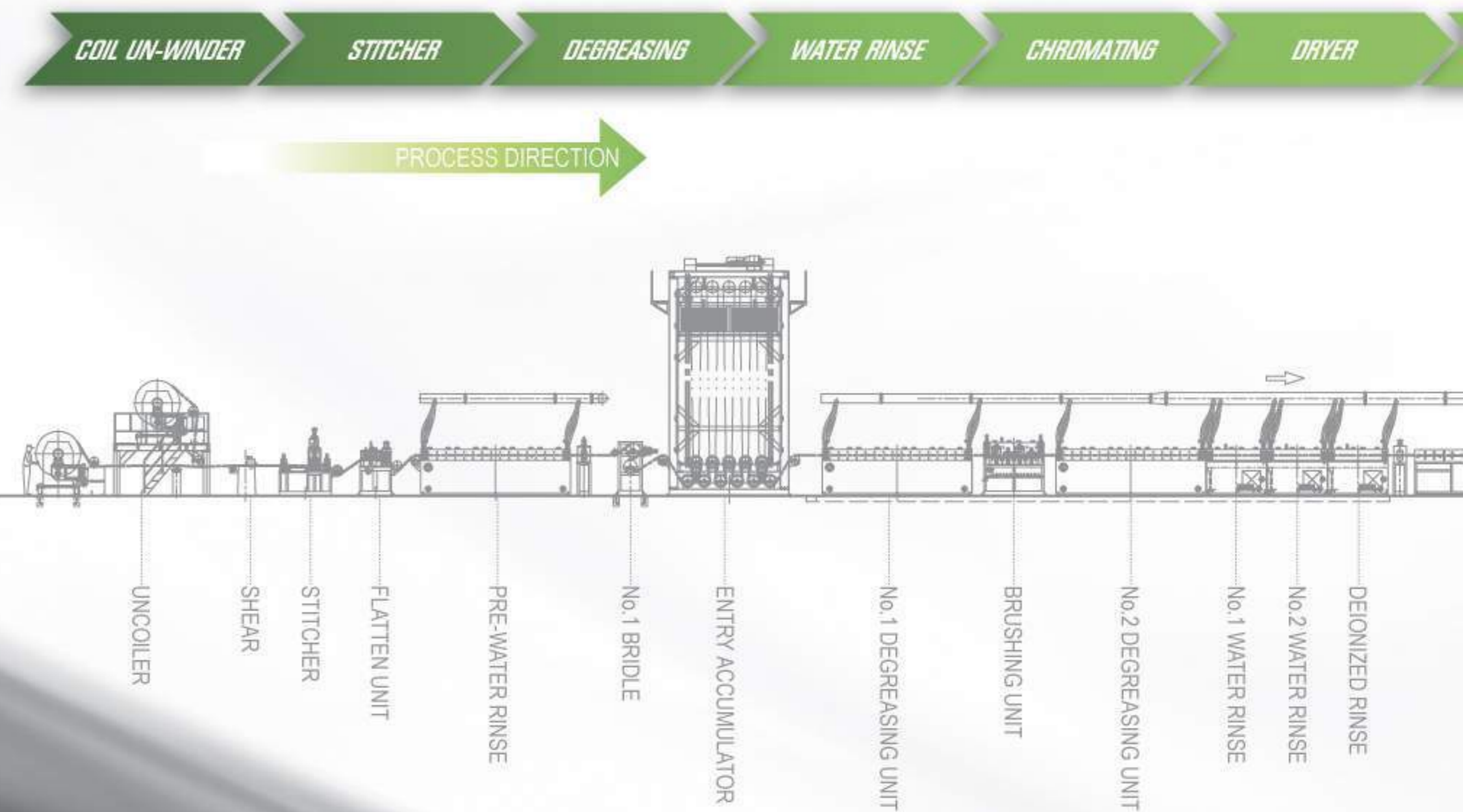
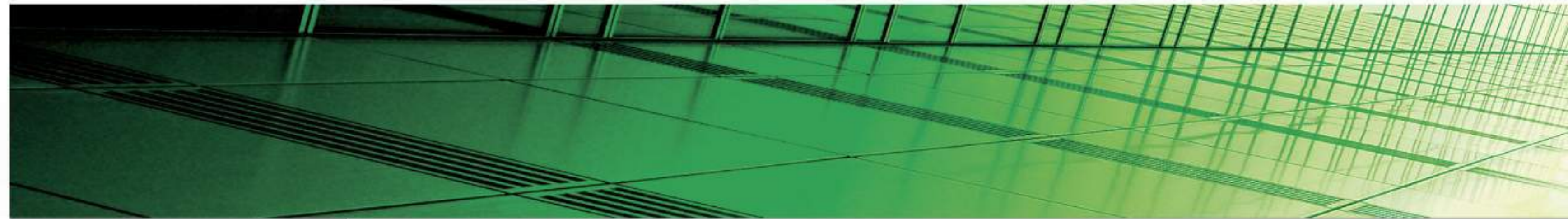
Raw Material	
Aluminum coil	Thickness: 0.2–0.5 mm Width: 1600 mm (or 2000mm)
Coating paint	Polyester , PVDF
Adhesive film	
PE resin	
Protective film	
Line speed	1.3–3.0 M/min (based on 1220mm width, 3mm thick ACP) 1.1–2.5 M/min (based on 1220mm width, 4mm thick ACP)
Line space	50 M(L) x 10 M(W) x 4.5 M(H)
Line weight	46,000kgs

Product data	
Product	Polyester painted ACP for interior : 3–4 mm thickness PVDF painted ACP for exterior : 4–6 mm thickness
Product thickness	3–6 mm
Width	1000–1600mm (or 2000mm)
Capacity	1,200,000 square meters/annually (Max.) (3 shifts/24hours/300 days per year)

Aluminum
Composite
Panel
Production
Line

In order to achieve faster coating speed, better coating effect and capable of coating marble or wood pattern (by using special roller on 2nd coating), we present a more sophisticated design of coating line, it is called:

TwoCoat TwoBakeLine



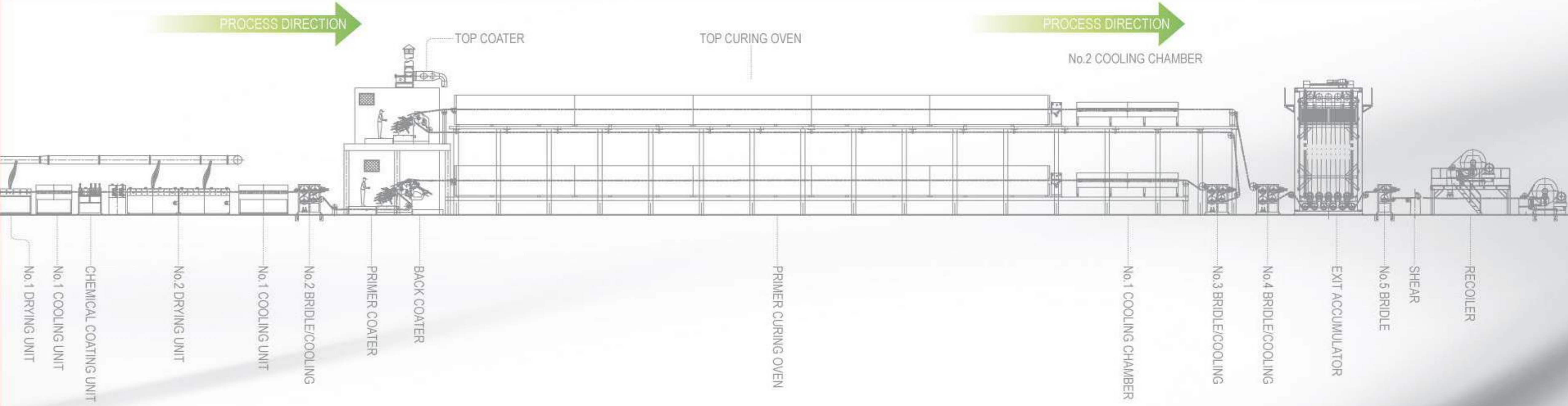
FEATURES

1. The strip tension of whole line is controlled by automatic P.I.D.(program interlocked digital) controller to ensure steady unwind & rewind and coating process.
2. Special designed reverse coater can ensure bright paint coating on surface and even thickness of dry film.
3. Fast production speed, better coating effect than standard coating line, with better T-Bend test result.
4. Curing oven temperature controlled by P.I.D., temperature controlled within $\pm 1^{\circ}\text{C}$.



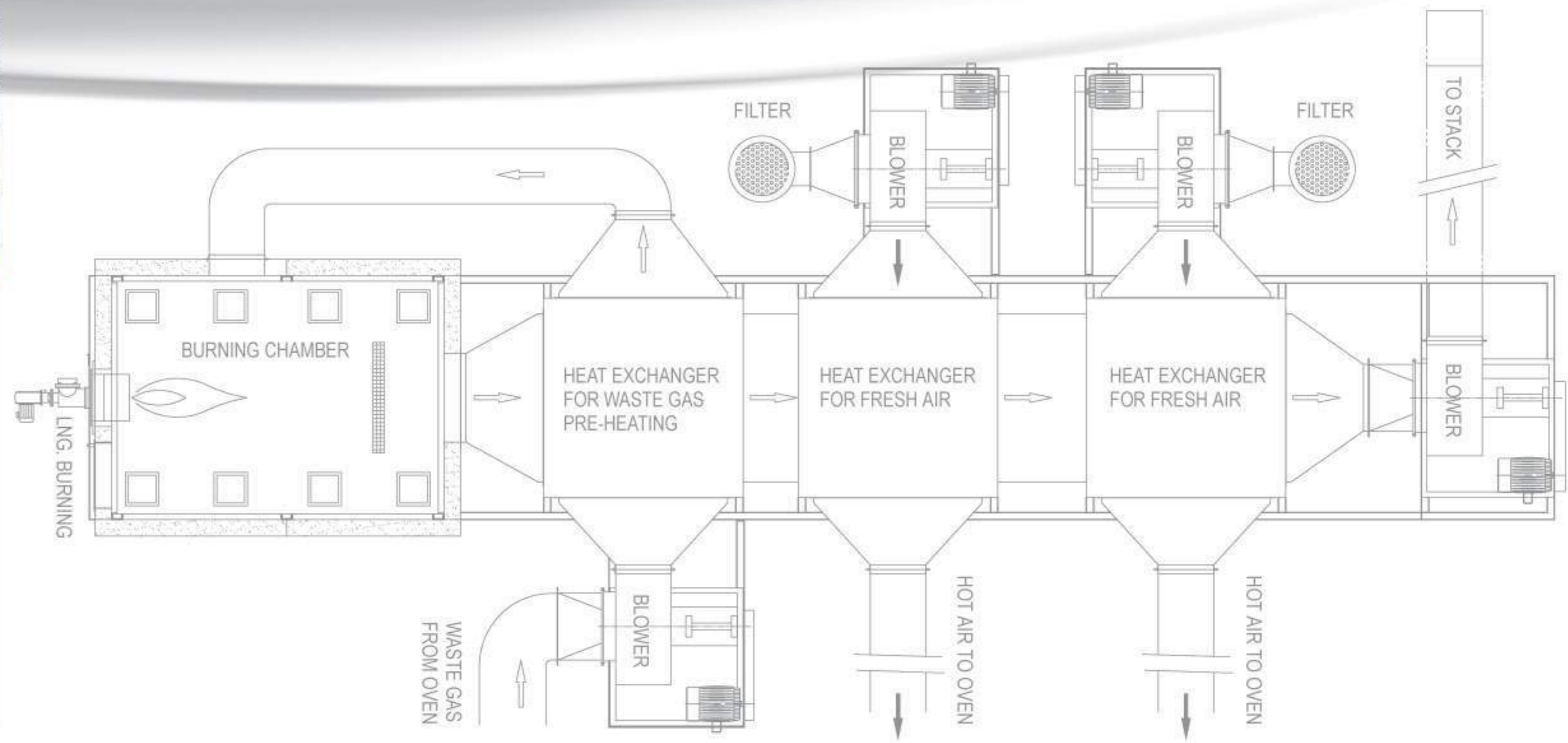
LINE SPECIFICATIONS

Coating paints	Polyester, PVDF
Production speed	20, 30, 40, 60 M/min. (Max.)
Occupied area	90 M(L) x 12 M(W) x 8 M(H)
Product data	Thickness: 0.2-0.5mm
	Width: 910-1600mm (2000mm)





Fume Incinerator & Heat Recovery System



SPECIFICATIONS

Incinerate Capacity	225 M ³ /Min.
Solvent release	75 litre/hour
Heating fuel	Liquid Natural Gas (LNG) or Liquid Propane (LPG)

In order to incinerate up to 225 M³/Min. of oven exhaust fume, incinerate temperature up to 760 o C with minimum 0.5 second retention time.