



Wuxi Suhang Machinery Manufacturing Co., Ltd

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Continuous PU sandwich panel Production line SPDPU

Quotation & Technical Specification



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Wuxi Suhang Machinery manufacturing Co., Ltd. is a comprehensive enterprise combining production, sales and services. We are mainly engaged in providing machineries and equipments.

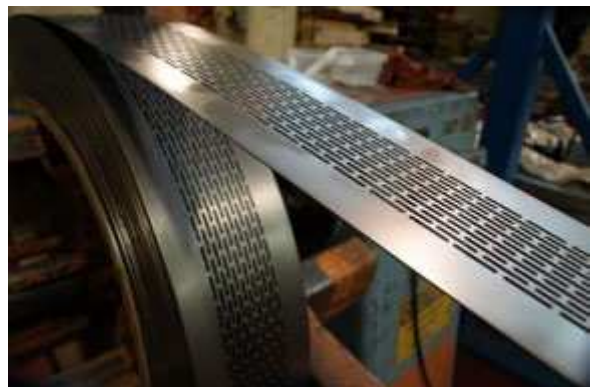
Owing to a professional teamwork, we are experienced in manufacturing, import and export, customers'



design, installation and test technical solution and after-sale services. We have shipped out our machines to more than 50 countries, and keep good business relationships with a large amount of worthy customers, contributing to our great business records and reputation.

We have our customers in different districts and continents. We sell products in the Middle East, Turkey, East Europe, Russia, South and East Asia and South America. Our factories are in Wuxi, which is just 100 km from Shanghai, just 45 min by the fast train. We have rich technology in design and manufacture for different requirements.

Our goal is to supply high quality products. We also try to guarantee timely delivery, all around services at reasonable cost. We have already established favorable relationships with many clients around the world. Working to extend our presence internationally, we are looking forward to cooperating with your company for mutual benefit. Please feel free to contact us.





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A The Main item.

The capacity of the PU Sandwich panel SPDPU6M is 300-500M² per day (8 hours)

- 1, The total amount price of above equipment is FOB Shanghai.
- 2, The electrical installation parts of the machine is used with CE approved material.
- 3, We offer 1 years warranty period for all of our machine.
- 4, Our services will include factory process designing, equipment Installation coaching, testing, commissioning and training for your operation staffs.
- 5, we provide the whole series of Chinese specification and English Reference books.

About the PU plant:

1. The workshop needs to be about 800m³-1000m³;
2. The producers of single shift need to be 5-6 persons.

B. Technical Data

B.1 The PU Panels Producing Line

B. Technical Data

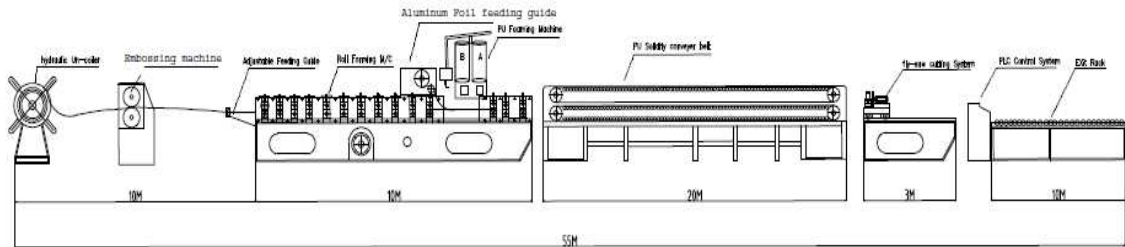
Continuous Production Line of PU Foaming Sandwich Panels with Aluminum Foil Facing

This production line is a kind of specialized equipment for producing sandwich panel with the middle layer of anti-combustion polyurethane and with roof(OR wall/ceiling) forming panel as the top face layer, aluminum foil as the bottom face layer. The sandwich panel is 18 mm in thickness, 1000mm in width, length determined by the customer. The sandwich panel is mainly used as keeping warm for wall and roof . Different insulating panels with other soft facing layers could also be produced on the line.

The operation principle of this line is as follows: raw materials of rigid-foam are delivered into the mixing head through the metering pump on the injection machine and then injected onto the bottom facing sheet going to conveyors along with the top superficial sheet. Between the upper and lower conveyors, the liquid materials are hardened into shape, after all for above actions are completed, by an automatic tracking cutting mechanism, cut into segments according to the preset length.

Production process flow:

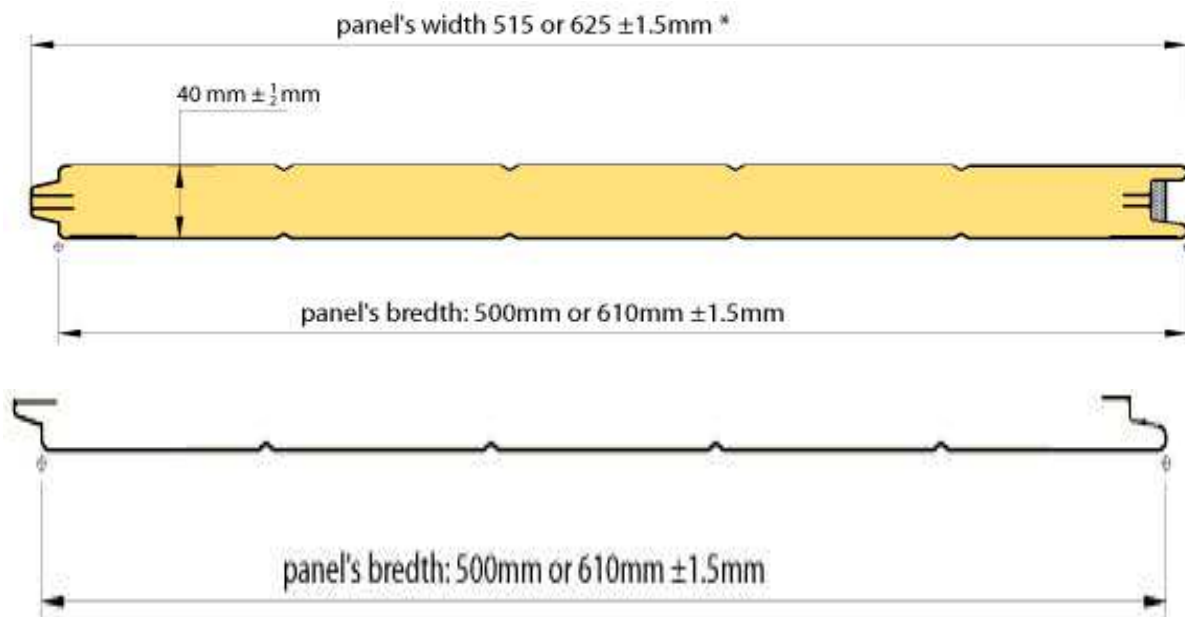
Heat-presering Ceiling Panel Line Producing Process Skrch



1) Primary technology parameters product line:

Drawing for ceiling PU sandwich panel (coil width:500 or 610mm)

Last profile will depend on customer's details and be designed



1. PU foam thickness: 18mm
2. Standard Sandwich Panel Size: max1000mm x 4000mm(Width x Length)
3. Linear Speed of production: 2-5 m/min
4. Maximum Roller Forming speed: 15 m/min
5. Reciprocating times of injection head per minute < 60
6. Production type: totally continuous production with PLC controlling

Finished panel Simple as:



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7. Composite structure : position fixed by double rubber tracker
8. Foaming system: totally automatically continuous foaming, quantity of foaming could be stepless adjustable
9. Main Power of production $\geq 35\text{KW}$
10. Cutting : pneumatic piston driving, non-stop cutting via sliding table
11. Electronic controlling system: full-frequency PLC controlling system

2) One embossing machine for metal plate(coil sheet)(Optional)



1. Embossing Pattern:



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----ACCORDING CUSTOMER'S SAMEPLE

2.Working Flow

Auto Hydraulic De coiler – Embossing

3.Raw Material: Aluminum Coil, carbon steel coil

4.Thickness of material: 0.5-0.8mm

5.Coil Width: 1220mm

6.Working Speed: 10-15m/min

7.Roller Material: Superior alloy steel (China code 42CrMo) forged parts

8.Process of roller: Quenching – Tempering at high temperature – Middle frequency cuttent quenching – Surface hardness HRC55-58

9.Roller Size: ϕ 400mmx W (Coil width)

10.Main Motor Power: 4 KW

➤ **Press Rollers:**



➤ **Embossing Machine:**



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3) De-coiler

1. Dimensions: 1700mm*1000mm*800mm
2. Width of feeding:max1300mm
3. Maximum loading coil weight :5000kg
4. Inter diameter: 450-510mm
5. Mode of expand &fight: inner expand &fight by Hydraulic
6. Way of feeding: manual

Sample photo for reference:



4) One Roller Forming machine for ceiling Panel

One Roller forming machine consists of main roller forming machine is equipped outside of



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the line, which is used to form on the coil of color steel of 1220 mm in width and 0.35~0.7mm in thickness while exerting certain pressing force.

Main technical parameters:

- 1: Coil width: depend on last profile effective width: 1000mm
- 2: working speed: 12-15m/min
- 3: roll station: 13-15stations
- 4: material of roller: grade 45 steel, polished and coated with chrome
- 5:material of main shaft:45 # forge steel diameter roller: $\Phi 65$ mm
- 6: main power: 5.5KW
- 7: forming thickness: 0.3mm—0.7mm ,zinc and color steel, G250Mpa
- 8: Transmission: by single Chains 1.0 inch
- 9: feeding and guide: surface polished and coated with chrome
- 10: machine drive parts adopt protect cover
- 11: machine adopt new station with chrome
- 12: size of main machine: Appro6500x1300x1200(mm) L x W x H
- 13: weight: about 5000Kgs
- 14: color of machine: blue (also can choose by customer request)
- 15: machine should be with four legs (made from metal) in 350mm

Sample photo for reference:



5) One set Aluminum Foil paper feeding device

One Aluminum consisted of the frame of de-coiler, feeding guide is equipped inside of the line, which is used to convey the bottom face layer of aluminum foil of 1000 mm in width and 0.2~0.5mm in thickness while exerting certain tension force.

Main technical parameters:

1. Width of aluminum foil:1000mm
2. Thickness of aluminum foil:0.2-0.5mm
3. Diameter of decoiler roller:400mm
4. Maximum loading coil weight:3000kg



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5. Speed adjustment: adjustable following foaming speed



6) One Set of PU Foaming Machine

One set of PU two component Liquid mixing and injecting section for foaming : it adopt high pressure pump. It have the temperature control system and material-level monitoring system. The tank of the material is about 500L./Two tanks. Injecting proportion is A:B=1:125(A :black B:white).

Sample photo for reference:





1. High pressure P.U. foam dispensing machine complete with: VOLTAGE:THREE PHASE , 380V, 50HZ
2. 2 set of pumps mounted with separate motors
3. 1 set of Touch Screen Operator Panel with synoptic graphics and alarm messages and 1 set of PLC
4. 2 set of flow transducers
5. 2 set of 500 liter pressurized carbon steel Jacketed tank
6. 1 set of Temperature control system for each tank
7. 1 set of 2 component Mixing head:the mixing head speed can be adjusted steplessly .
8. Injection section: it also can adjusted toward left, right, front or back. There's rail for all the movement.

7) PU solidify Conveyor machine

1. The solidify of PU sandwich panel is be conveyed by double rubber belt.
2. The length of the BELT machine is about 24m, which consists of upper frame and lower frame, each frame has two sections.
3. The width of rubber board is 1100mm, the range of adjusting distance between upper and lower rubber board: 30mm,40mm,50mm .Horizontal distance between the two sides can not be adjusted.

Sample photo for reference:



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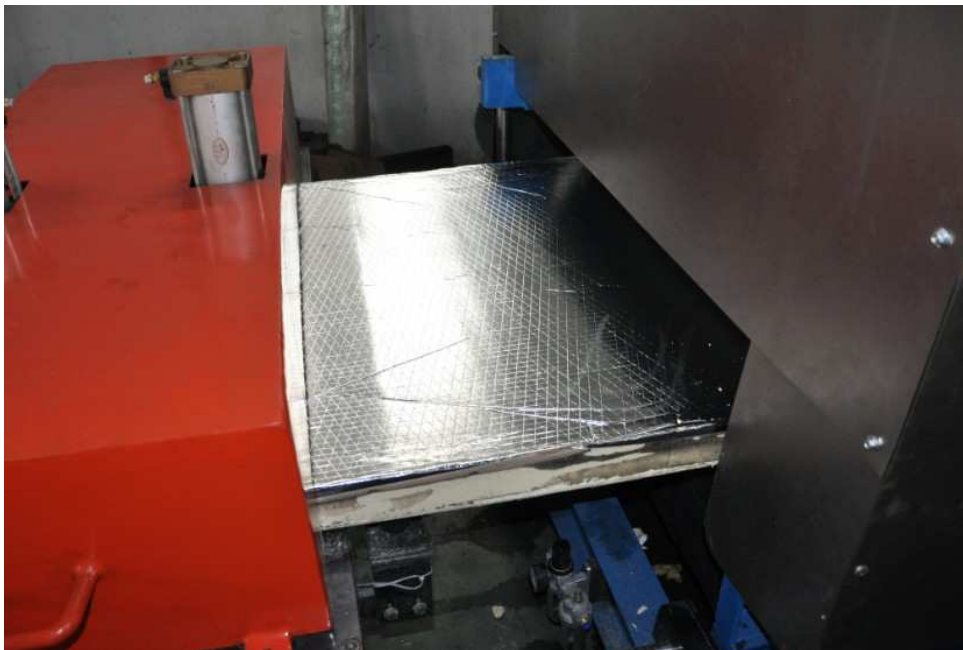
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8) Panel automatically cutting system

1. Cutting adopts tracking cutting.
2. Band saw (or fly saw) of the cutting machine can move transversely 1500mm, Cutting machine moves longitudinally and transversely along the slide way.
3. Cutting machine adopts one-side blade band saw manner, cutting and revolving after cutting. The cutting saw can revolve, so cutting in two directions is realizable.
4. There is panel tight-pressing system (pneumatic) in the cutting machine;
5. There is location limiter to limit longitudinal and transverse motion of cutting machine.





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C TRANSPORTATION

All goods will be shipped to your country, containers number will be decided with how many machines you would choose

D. Installation of the machine

The individual components of the machine are installed according to the layout and prepared for the commissioning.

The installation comprises of:

- Installation by Suhang service technicians.
- The following services are included:
- Installation of the machine components.
- Adjustment of the machine components.
- Connection of all motors to the control cabinet.
- Installation of the required safety devices.

Delivery extent does not comprise of:

- Media supply (electrics, compressed air, etc.)to the machine(control cabinet)
- Raw material, process material and fuels
- Raw material for test blocks
- Transport and lifting devices
- Auxiliary staff.

The operators of the plant should be present during the installation in order to become familiar with the new machines.

E. Commissioning of the machine

The components of the machine are commissioned one after the other. At the end of the commissioning the machine is ready for production and is handed over.

The commissioning comprises:



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-
- Commissioning by Suhang service technicians
 - Training at the machine
 - The following services are rendered
 - Run up of the machine components
 - Testing of all functions of the machine components
 - Start of a fully automatic molding process
 - Execution of machine acceptance

Delivery extent does not comprise of:

- Raw materials, process materials and consumables
- Raw material for test blocks
- Transport and lifting devices

The operators of the plant should be present during the commissioning in order to become familiar with the new machines.

F. Our After-Sales Service Commitments

Suhang hereby solemnly promises: We implement the “three guarantees” service policy for any equipments sold by Suhang, provide free of charge installation guidelines, commissioning and maintenance of the equipments, training of the Buyer’s relevant Operators; and provide technical requirements for the installation and operation of the equipments, technical layout diagrams and other related information, provide a lifetime supply of maintenance and spare parts. The detailed measures are as follows:

1. Guidelines for installation and commissioning of equipments:

Based on the actual situation, to assist and guide the Buyer and Buyer’s technical personnel in the overall installation location, the installation of equipments, and provide Buyer with answers to their questions and related issues;

2. Provide training for operation and maintenance personnel:

Based on the Buyer’s request, Suhang will provide free of charge training of the operation and maintenance personnel;

a) The User (Buyer) can send their operation and maintenance personnel to our factory for learning and training;

b) When Suhang is doing the installation and test running of the equipments for the Buyer, the Buyer can send their personnel to participate.

3. If failure occurs in any of the machines during the “three guarantees” period(one year), then, upon the Buyer’s request, Suhang will eliminate the failure;

4. Suhang will inform all its Buyers about any upgrades and significant product improvements. Suhang will provide equipment modifications based on their costs. Suhang will provide Buyers with high-quality after-sales services in a careful and responsible attitudes, provide very strong guarantee for the Buyer’s normal production.

We provide quick and satisfactory customer service, and promise to respond within 24 hours after receiving your complaints by phone or email.

F. Commercial conditions



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Quotation: FOB Shanghai

Delivery time: Approx 120-150 days after technical clearance and down payment

Payment: 1. first payment: 40 % by T/T
2. second payment: 60% by T/T, after the successful inspection at seller's workshop, and before delivery

Assembly and commissioning: Two engineers will visit Buyer's workshop for install, commission and training, The customer should ensure the pre-installation being carried out appropriately. The buyer has to pay USD50/per day, per engineer.

Warranty: 12 months warranty, Starting from the date of the successful installation and commissioning of the equipments.

Best Regards,

Spring Wu

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