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The Extrusion Technology For Prole & Panel



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GUANGDONG LIANSU MACHINERY MANUFACTURING CO.,LTD.

Serve the Needs of the Present to Forge a Bridge to the Future

LIANSU MACHINERY MANUFACTURING*
the extrusion technology for profile

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Company Profile

LIANSU Machine is a high-tech enterprise that specialized in researching, developing and manufacturing plastic extrusion equipments, extrusion dies and injection moldings, It dears complete and advanced systems in developing, manufacturing and testing.

LIANSU Machinery Company always insists on its business policy: "quality is life, science and technology is leading force, and customer's satisfaction is ultimate target", making effort to promote the technology and build up the world's first class brand name, The high quality single screw extrusion technology, newly developed double wall corrugated pipe line, Steel reinforced spiral corrugated pipe line, high capacity single screw extruder..etc;

LIANSU makes high quality of Plastic pipe production line for water supply system, Sewage system, Irrigation system, Plastic Profile extrusion line, Plastic sheet & pannel production line, turn-key project on various WPC profile, sheet, panel extrusion line.

LIANSU has established an international-level research and development center with a large investment to enhance its independent reseatch and development ability and to keep step with the world. Now it has a scientific research team of over 100 persons formed by doctors, masters, senior engineers, engineers, standing consultants, experts etc.,



LIANSU Machinery Company owns an excellent service team that leaded by professional engineers. All the equipments must be undertaking strict commissioning, only the eligible final product can leave out of factory. Company also assigns technicians to test and install aqipments on costumers site until they are completely satisfied. LIANSU machinery company not only inherits the conventional good after sales service, (Offering maintenance of equipment as well as accessories), helps customer solve problems on hard ware, but also professionally provides them project analysis on software and state of the art Industry infomation for propose of mastering the latest markettrend, and investing in the marketable product. It is quite evident that LianSu Machinery Company is and will be always putting customer's interest on the first place, unceasingly improving product technology & quality, providing customers with most competitive plastic machine and technology.

LIANSU researches and develops the latest technology in plastic industry so as to keep itself at the leading position in the plastic industry.

LIANSU MACHINERY MANUFACTURING



- Awarded as "Guangdong Famous Brand" in 2005
- Assessed as "National Hi-tech Enterprises" in 2007
- Assessed as "Guangdong Famous Brand Product" in 2008
- Awarded as "One of Top 100 Cultivating Enterprises in Guangdong Equipment Manufacturing Industry" in 2009
- China Plastic Machine Association Unit
- In 2004, large bore hollow spiral pipe production line as the science and technology critical project of Ministry of Construction.
- In 2006, "Technology research on PE spiral pipe internal and external thread connecting " gains the Shunde District financial support for the major technology project.
- In 2007, "LSP-1000 PE pipe production line" access to the third prize of Foshan City scientific and technological progress program.

- In 2008, " Research and development on PEX/PERT/EVOH multi-layer co-extrusion plastic pipe processing equipments" gains the Shunde District financial support for the major technology project.
- In 2009, "Technology reconstruction on low rotating speed high torque AC motor driving high output series extruder " gains the Guangdong provincial financial support for the equipments manufacturing industry technical reconstruction project.
- In 2010, received the construction project from Shunde District plastic extrusion equipments engineering and technology center.
- PE 1000 large bore pipe production line as the National Torch Program.
- PP-R pipe production line is the only one that enjoys the honor of " National Advanced Level" in plastic extrusion industry.



Honors & Certificates

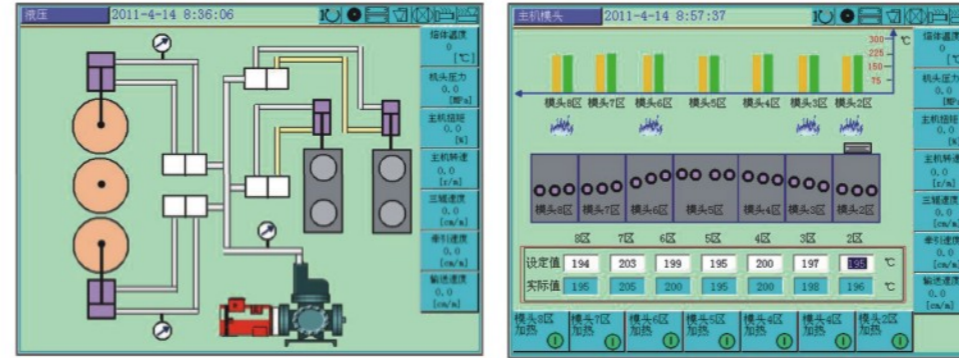


The Extrusion Technology For Profile & Panel

LS-Aluminum Plastic Composite Panel Production Line

Main Feature

- Screw is exhausting structured to avert of the bubble in the panel.
- Calender roller is multi-head spiral water way designed to get uniform roll surface temperature and better cooling effect
- Three calender rolls of the calender is driven by the separate motor, frequency variable speed regulate, moreover, the panel extension ratio is adjustable.
- Thermal composite roll is also multi-head spiral water way structured for uniform roll surface temperature and firmer bonding of the plastic plate and aluminium plate.
- Equipment suitable to produce ACP composite panel and PE sheet&panel product;

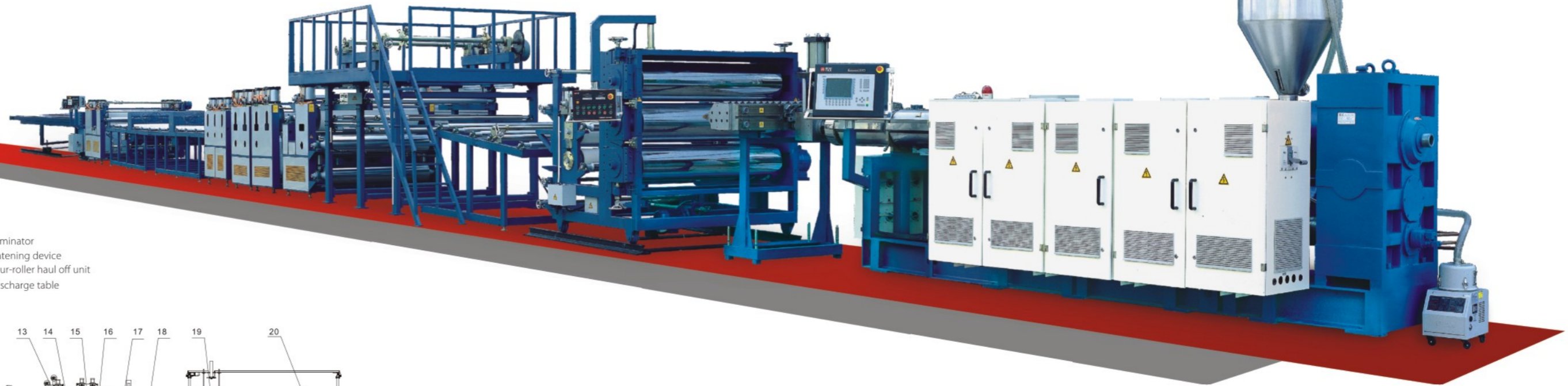
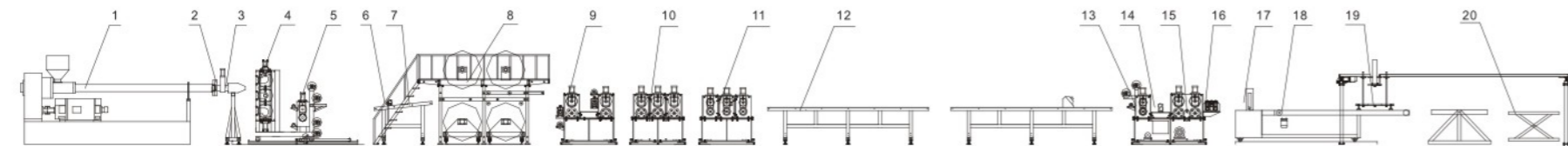


Main Technical Parameter

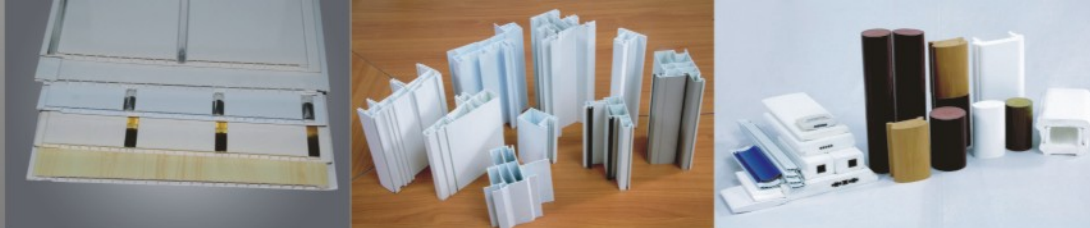
Model	LSACP-1300	LSACP-1600
Panel width (mm)	1300	1600
Panel thickness range(mm)	1-5	1-5
Extruder Model	LSS150-35	LSS170-35
Power(Kw)	250	250
Max output(kg/h)	500	700
Max line speed(m/min)	2.5	2.5
Line length	48	55
Installed power(kw)	550	650

Layout

- | | | | | |
|--------------------------------|---------------------------|------------------------|-----------------------|------------------------------|
| 01.extruder | 02.screenchanger | 03.T die | 04.calender | 05.laminator |
| 06.edge cutting unit | 07.front transition table | 08.aluminum discharger | 09.aluminum laminator | 10.flatening device |
| 11.six-roller cooling unit | 12.cooling table | 13.protective film | 14.edge cutting | 15.four-roller haul off unit |
| 16.three-roller flatening unit | 17.cutting unit | 18.conveying unit | 19.auto lifter | 20.discharge table |



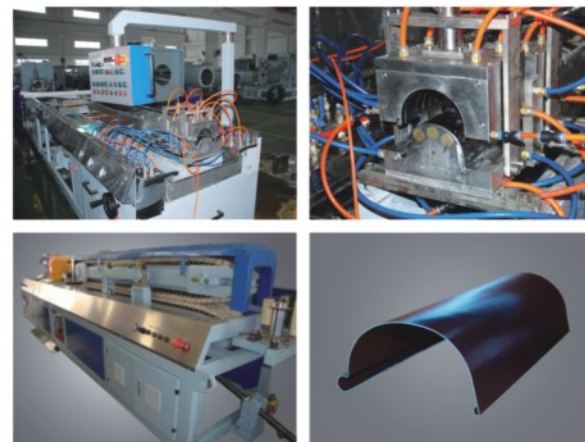
The Extrusion Technology For Profile & Panel



LS-Plastic Profile Extrusion Line

Main Feature

- Specified screw designed for profile gets better plasticizing effect and achieves stable extrusion procedure.
- Speedy cooling forming die supports the production line with faster linear speed and higher efficiency.
- With calibration table is fore-back, left-right, up-down adjustable, simplified operation.
- Upper and lower belt is driven by the separate motor, which ensures the stability and reliability of the haul-off unit hauling
- Saw cutting unit, speedy and stable cutting, with the smooth incision
- Liansu also offers the hauling and cutting combined unit, and it is a more compact and economical design.

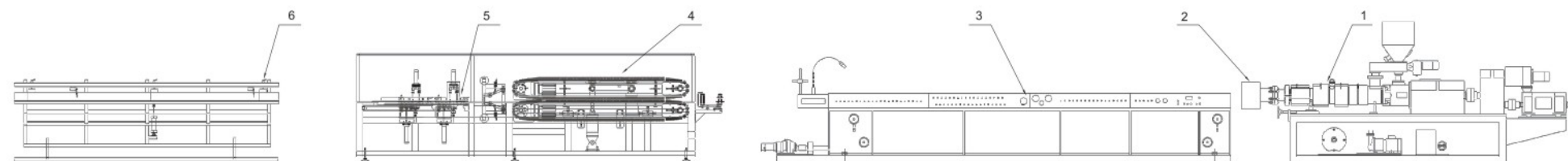


Main Technical Parameter

Model	F-150	F-250	F-850
Product range(wxh)mm	150x50	250x60	850x35
Max output(kg/h)	120	250	450
Max line speed(m/min)	12	5.3	5.3
Installed power(kw)	80	120	220
Line length	22	26	25

Layout

- 01.Extruder
- 02.tool
- 03.vacuum calibration unit
- 04.haul off unit
- 05.cutting unit
- 06.Stacker

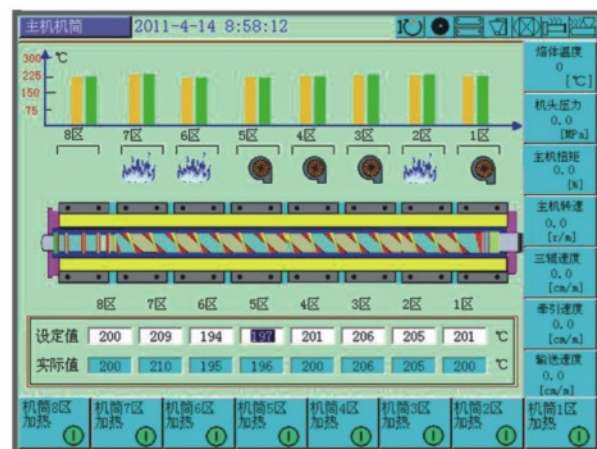




LS-PVC Door Panel Production Line

Main Future

- specified screw ensures the stable plastication and extrusion that application of the high filling formula.
- Speedy cooling forming die supports the production line with faster linear speed and higher efficiency.
- With calibration table is fore-back, left-right, up-down adjustable, simplified operation.
- Double caterpillar haul-off unit provides enough hauling force for more stable and reliable hauling.
- Lateral moving cutting unit with lifter ensures the speedy and stable cutting.
- This equipment is applied for door board, window board and partition board production.

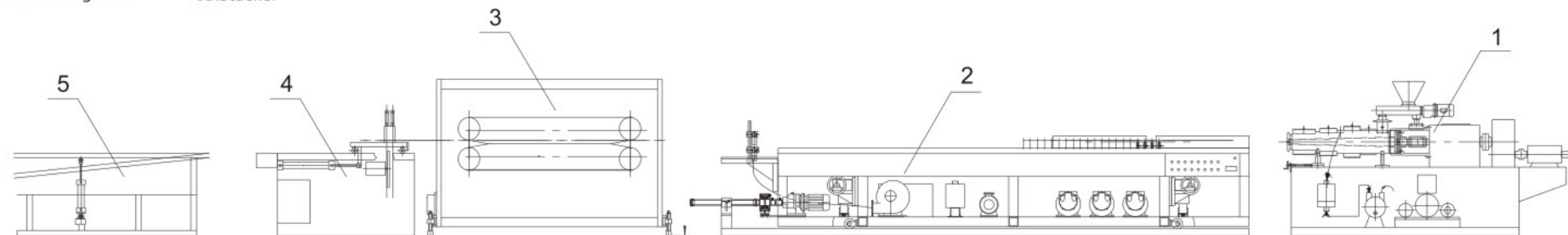


Main Technical Parameter

Model	F-850
Product range (wxh)mm	850x35
Max out put(kg/h)	450
Max line speed(/min)	5.3
Installed power(Kw)	220
Line length(m)	25

Layout

- 01.Extruder
- 02.vacuum calibration
- 03.haul off unit
- 04.cutting unit
- 05.Stacker



The Extrusion Technology For Profile & Panel



LS-PE/PP Plastic Sheet Production Line

Main Future

- Special designed screw ensures the good material plasticizing effect and good panel quality.
- Calender roller is multi-head spiral water way designed for more uniform roll surface temperature and better product surface quality.
- Three calender rolls of the calender is driven by the separate motor, frequency variable speed regulate, moreover, the panel extension ratio is adjustable.
- Multi-group cooling rolls configuration ensure the full cooling of the thick panel.
- Lateral movable cutting device corrects the panel width timely.
- This set is equipped with auto vacuum sucker device for product stacking.

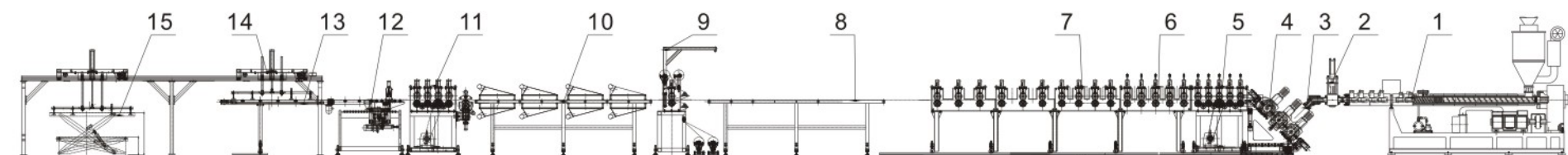


Main Technical Parameter

Model	LSB-1500PP	LSB-1800PP
Max out put(kg/h)	600	600
Panel size	1500mm	1800mm
Thickness	3-25mm	3-25mm
Installed Power(Kw)	500	769
Hauling Speed(m/min)	2	2

Layout

- 01.Extruder
- 02.screen changer
- 03.die
- 04.three-calender
- 05.drive flatening device(hot)
- 06.ten-roller flatening device
- 07.cooling table
- 08.protective film
- 09.fan cooling table
- 10.eight-haul off unit
- 11.cutting unit
- 12.conveying unit
- 13.auto lifter
- 14.hydraulic discharge table

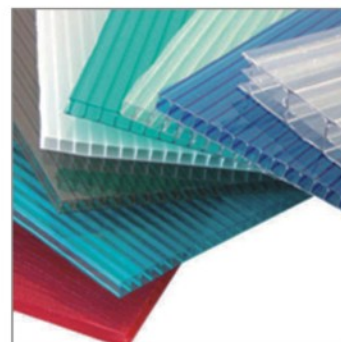




LS-PP/PC Hollow Panel Production Line

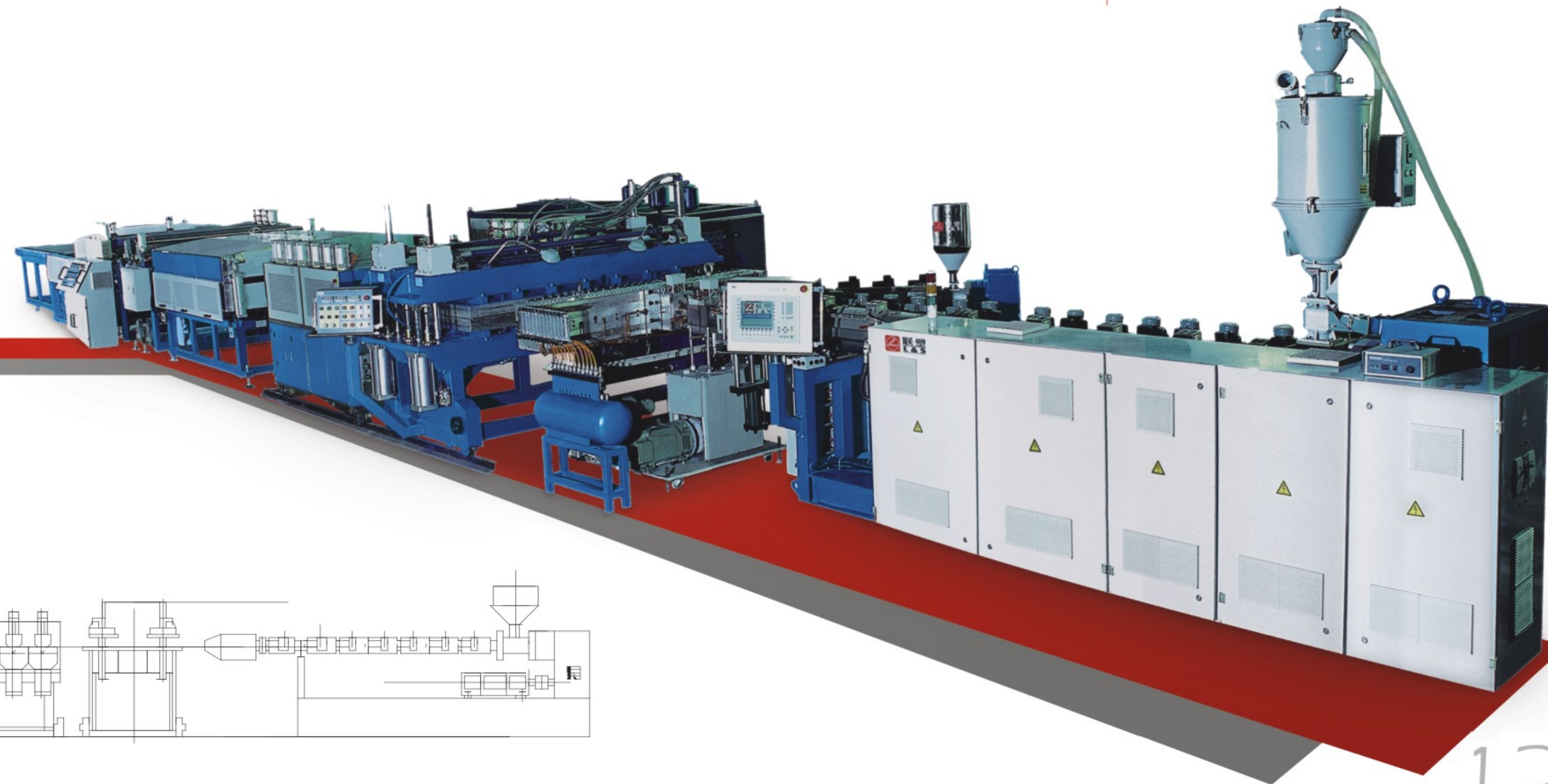
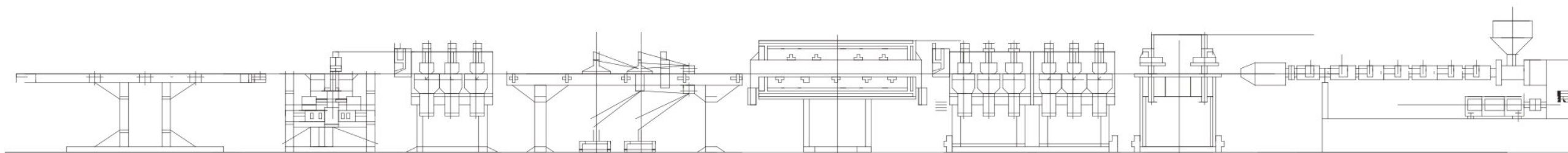
Main Feature

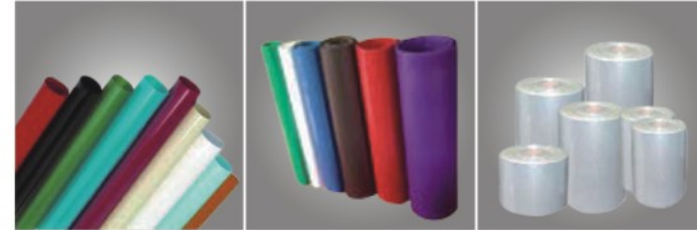
- Special screw structure ensures the good plasticizing effect of the material and the high transparent grade of the panel.
- Speedy cooling forming die supports the production line with faster linear speed and higher efficiency.
- Heat treatment device can eliminate the inter stress of the PC/PMMA product to avert of product warp or crack.
- The PP/PC hollow panel product of this equipment is widely used in recycling bin, acoustic panel, greenhouse, courtyard scaffold, etc



Main Technical Parameter

Model	LSYG-2100-PC/PP	
Product width(mm)	2100	
Product thickness(mm)	4-12	
Extruder Model	lss-120-35	lss-45-30
Max output (kg/h)	540	
Max line speed(m/min)	2.5	
Line length(m)	27	
Total installed power(kw)	600	





The Extrusion Technology For Profile & Panel

Main Technical Parameter

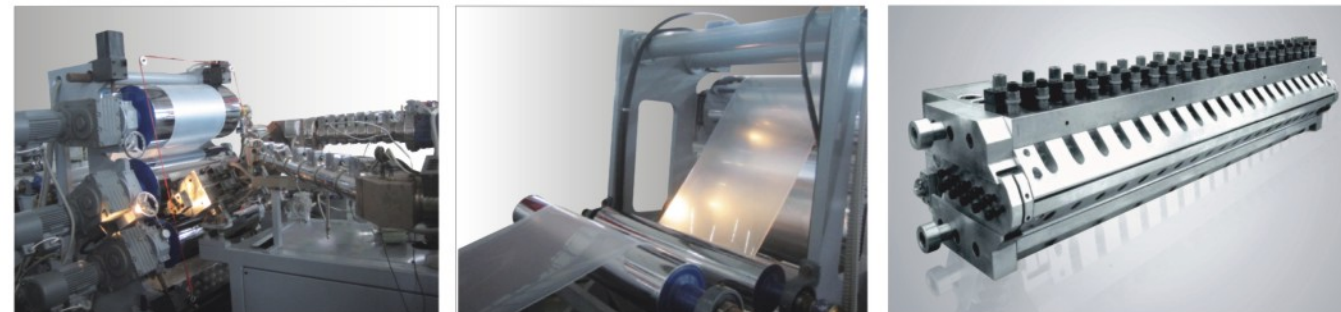
Model	LSP-1200	LSP-1600	LSB-1500PVC	LSBP-650PS/PP
PRODUCT WIDTH(mm)	1200	1600	1500	650
PRODUCT Thickness(mm)	0.2-3	0.2-3	0.2-3	0.2-3
Max output(kg/h)	400	600	600	250
Line speed(m/min)	20	20	20	20
Line length(m)	30	35	30	17
Total installed power(kw)	330	350	410	190



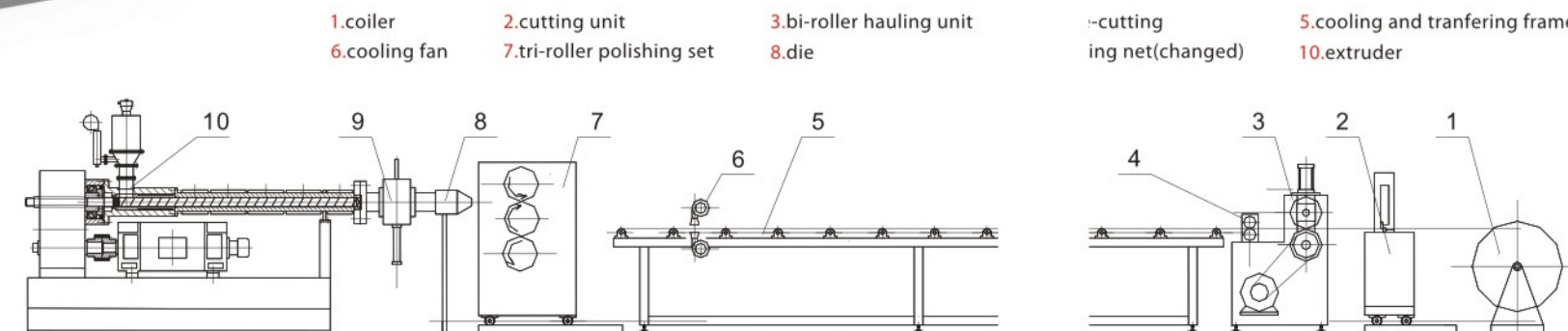
LS-Plastic Sheet Production Line

Main Feature

- On account of the different plastic material, Liansu designs the corresponding screw ensures the good plasticizing effect and good product quality. such as PVC, PP, PE, PET, ABS and so on
- Calender roller is multi-head spiral water way designed for more uniform roll surface temperature and better product surface quality
- Three calender rolls of the calender is driven by the separate motor, frequency variable speed regulate, moreover, the panel extension ratio is adjustable



Layout



The Extrusion Technology For Profile & Panel



LS-Wood Plastic Composite Profile Production Line

Main Features

- WPC is new kind of environmental protection material, which is combined by utilizing wood fiber, (including saw dust, straw, rice shells etc) and thermoplastic. The advantages of it is given below: vermin proof and anticorrosion; good processing, stretch and impact property as plastic; good cutting and nail property with the woody out look. It is a good substitute for the wood in the field of furniture, packing and construction
- Wood-plastic profile and panel production line is mainly divided into two categories: PVC foam production line and PE/PP plastic production line. The extruder of it has the following advantages: low temperature plastification, low shear rate, high torque, and sufficient air exhaustion

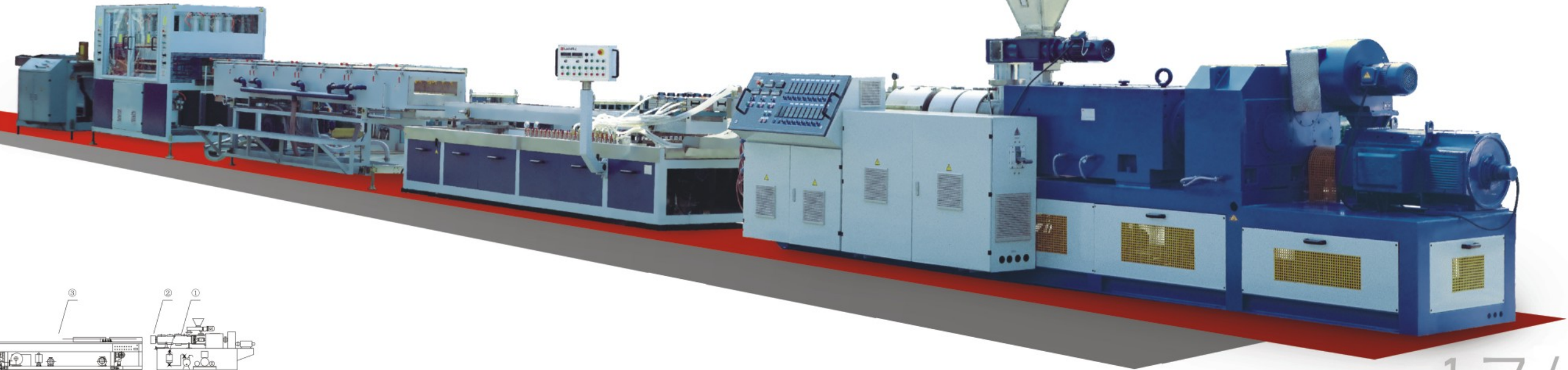
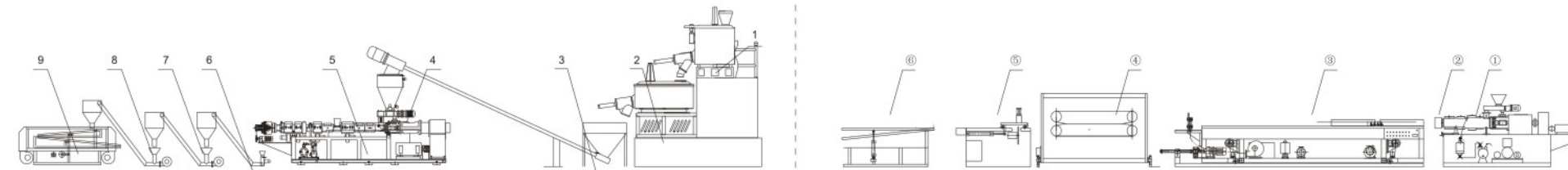


Main Technical Parameter

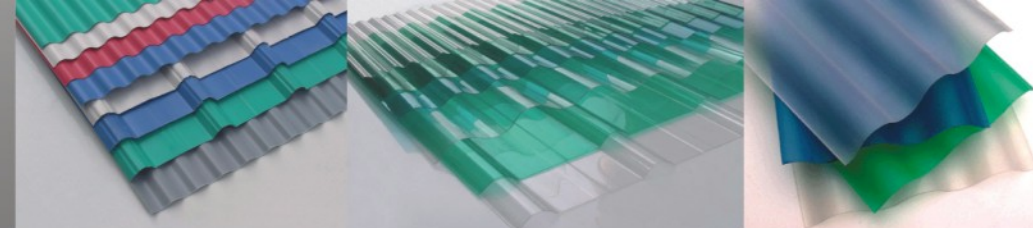
Model	WPC-150	WPC-250	WPC-D250
Product range (wxh)mm	150x50	250x120	250x120 (Double station)
Product thickness(mm)	120	200	400
Max line speed(m/min)	5	3	3
Max output(kg/h)	80	120	180
Max line speed(m/min)	22	26	30

Layout

- 1/2. Compound Mixer 3/4. Feeder 5. Twin Parallel Screw
 6. cooling fan 7.1# air tank 8.2# air tank 9. vibrator
 ① Conical Twin Screw Extruder ② die ③ vacuum calibration unit
 ④ haul off unit ⑤ cutting unit ⑥ stacker



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LS-PVC/PC Corrugated Tile Production Line

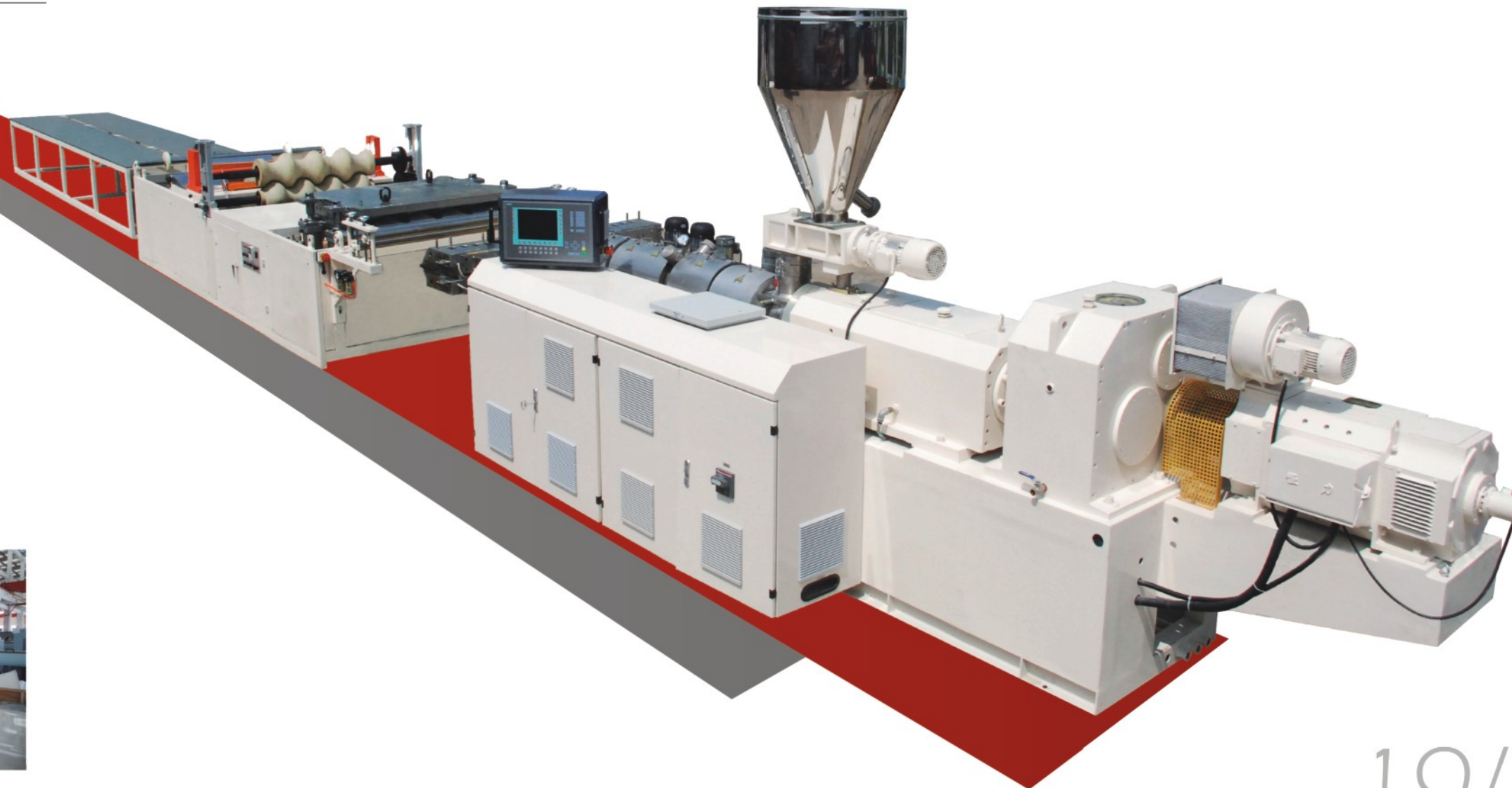
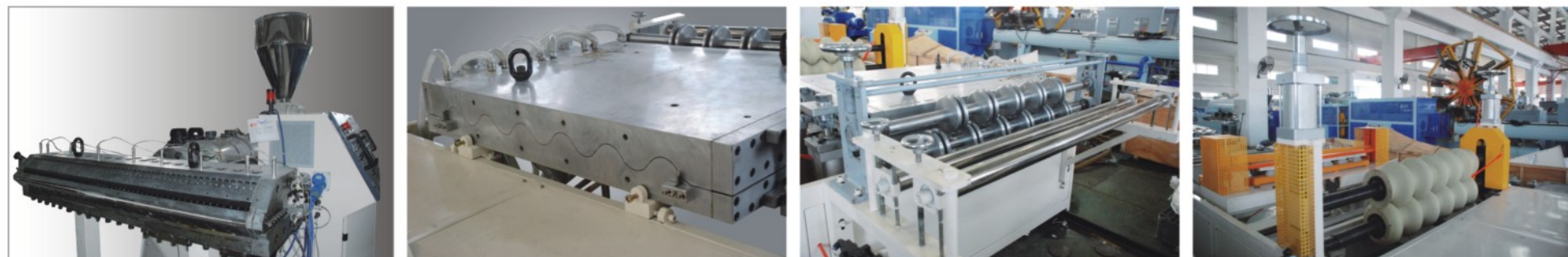
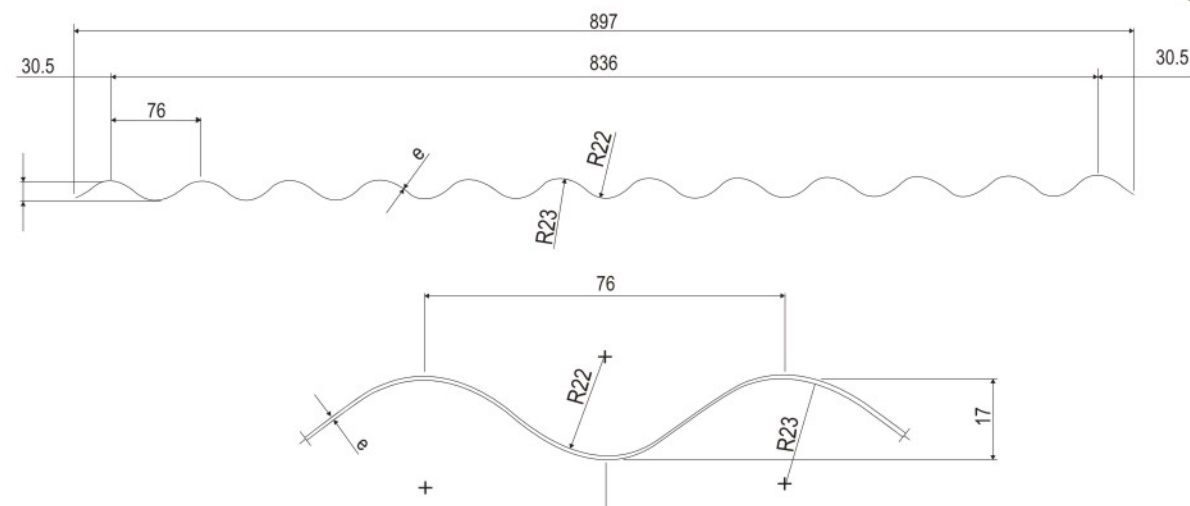


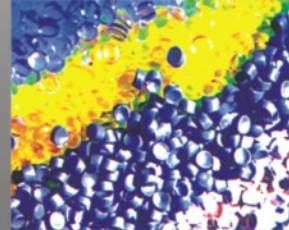
Main Technical Parameter

Model	LSBV1050,PC-UV-II	LSB1130
Extruder model	LSS100-35,LSS45-30	LSE80/156
Product with(mm)	1050	1130
Product thickness(mm)	0.8-3	1-2.5
Line speed(m/min)	0.25-5	0.15-3
Line length(m)	18.5	18.5
Power(kw)	412	100

Main Features

- For the high filling formula, Liansu developed high filling special screw accordingly to ensure the good plasticizing effect under the low cost formula, manufacturing good quality product
- Cloth-hanger die makes the material flow smoothly
- Stereotypical mold cools down fast, easy adjustment
- Hydraulic cutter with speedy & safe cutting and smooth notch

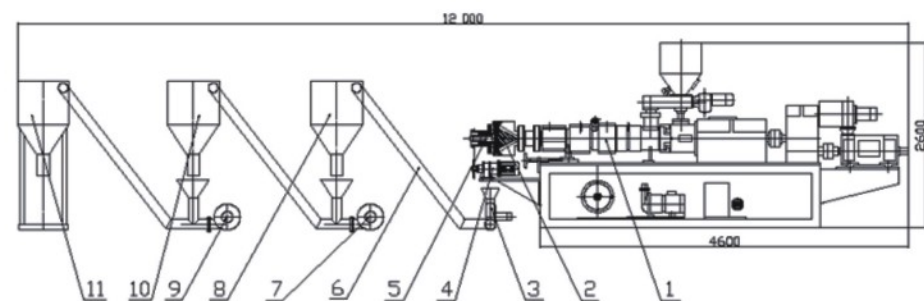




LS-PVC/PE/PPR Pelletizing Line

Main Features

- Special pelletizing screw with high output and good mixing effect.
- Simple die structure and smooth flow avert of the material remaining in the die.
- Open-type flange makes the screen changing quicker and more convenient, completing the screen changing process by manual within 2 minutes.
- Cooling air tank is made of stainless steel, rust corrosion resistance.



- (1) twin conical extruder
- (2) pelletizing die head
- (3) 1 # cooling fan
- (4) cutting motor
- (5) pellet cutting unit
- (11) 3 # air tank
- (6) cooling air hose
- (7) 2 # cooling fan
- (8) 1 # air tank
- (9) 3 # cooling fan
- (10) 2 # air tank

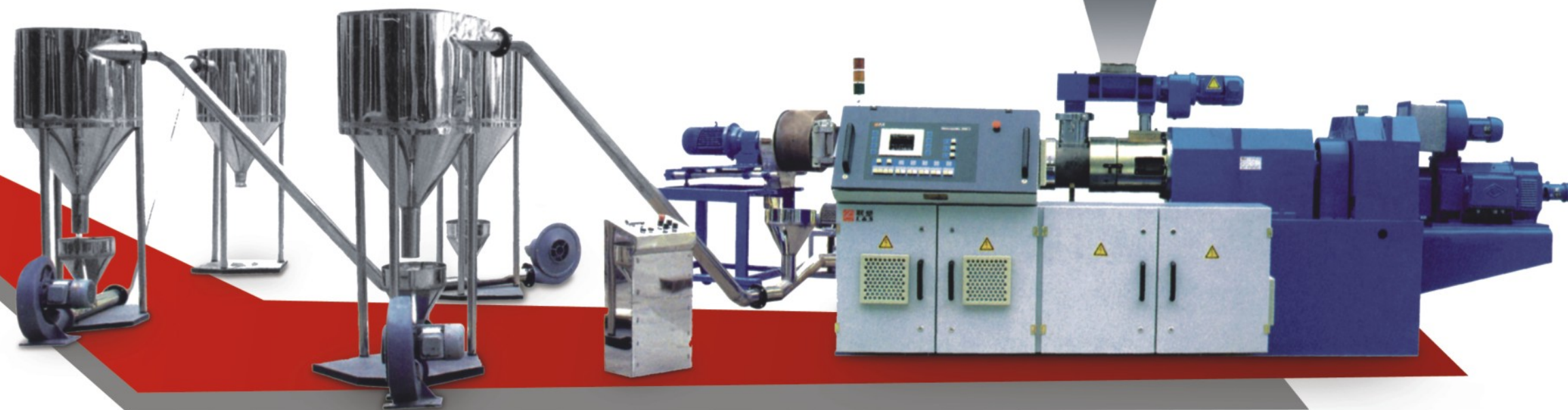
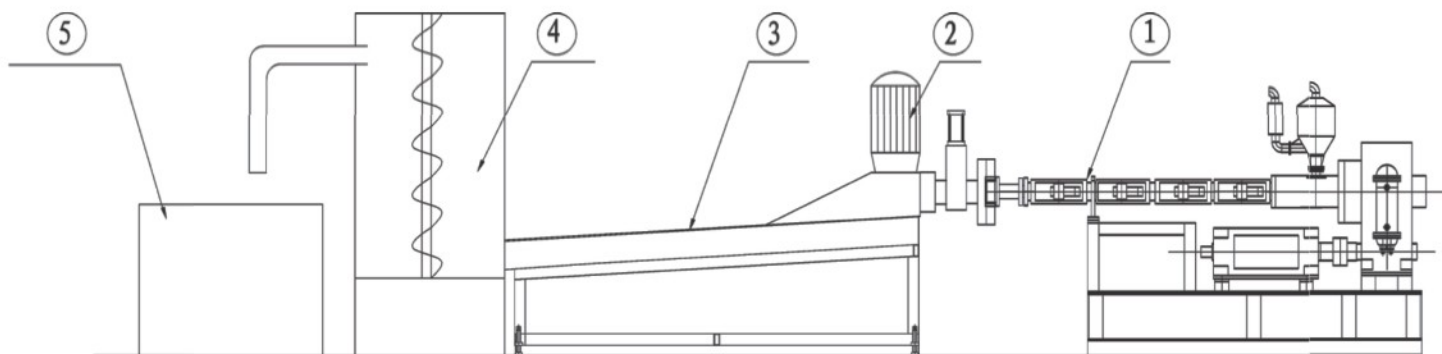
Main Technical Parameter

Model	LSE-65PVC	LSE-80PVC	LSE-92PVC
Capacity (kg/h)	280	450	1000
Total Installed power(kw)	88	170	250
Main Machine	LSE-65	LSE-80	LSE-95
Pallet Cutting Type	Heat cutting	Heat cutting	Heat cutting

Model	LSZL-PPR65	LSZL-80	LSZL-100PE
Capacity (kg/h)	180	350	700
Granular size	Ø3	Ø3	Ø3
Total installed power (kw)	120	160	260
Main Machine	LSS-65-34	LSS-80-34	LSS-100-34
Pallet cutting type	Cooling cutting	cooling cutting	Water cutting

Layout

01.LSS-80-35 single extruder 02.Water cycling machine 03.Cooling tank 04.Centrifugal hydroextractor 05.Storage tank





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