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www.ls-extrusion.com

GUANGDONG LIANSU MACHINERY MANUFACTURING CO.,LTD

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GUANGDONG LIANSU MACHINERY MANUFACTURING CO.,LTD

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COMPANY PROFILE

Guangdong Liansu Machinery Manufacturing Co., Ltd. is a high-tech enterprise engaged in the R&D, production, sales and service of plastic extrusion equipment and auxiliary automation equipment. Established in 1994, the company is located in Liansu Daba Industrial Zone, Longjiang Town, Shunde. Covering an area of more than 86,000 square meters, it currently has more than 400 employees. With years of experience and technology accumulated in the plastics industry and continuous investment in technology R&D, Liansu Machinery has made exploration, research and innovative development continuously. In reliance on its excellent product quality and powerful technical strength, it has built corporate brands, developed domestic and overseas markets, and established a number of marketing and service outlets at home and abroad. Its products are mainly sold in countries and regions in South America, Europe, South Africa, North Africa, Southeast Asia, Central Asia and the Middle East. And its customers spread all over the world. Its products cover three series: extrusion production line; PVC powder and granular full-automatic feeding system; permanent magnet synchronous

Liansu Machinery has acquired 221 patents, including 34 invention patents, 187 utility model patents, and 2 design patents, making improvements and innovations in technologies and improving product technology and quality levels.

For 30 years, Liansu Machinery has been committed to the overall green and energy-efficient production of plastic extrusion processing equipment, equipment automation research, development and promotion (upstream centralized supply of raw materials for plastic extrusion processing and downstream automatic packaging for plastic extrusion processing), and data collection and analysis of plastic extrusion processing. It has made overall layout of the entire ecological chain of equipment automation and informationization from upstream to downstream of plastic extrusion processing.

1999-2002

In 1999, The first developed aluminum plastic pipe production line equipment come out In 1999, Yunan Liansu Machinery Co., Ltd founded In 2000, domestic first developed PPR production line come out

DELAISIBAO (China) plastic machinery Co.,Ltd (Sino German jointenture) founded in January 1st,2001 Guangdong Liansu Machinery Company New address Liansu Industrial A zone founded in January, 2002



2004-200

Company Passed the audit of quality, safety and environmental management system (QEO) in August 2004;and also honored as Europe CE certificate Liansu Machinery New address Liansu Industrial C zone founded in August,2007

Established in 1994



In 2014, 'Liansu injection molding machine was awarded as a famous brand product in Guangdong Province. The project of 'Research and development and industrialization of high-performance numerical control equipment based on plastic processing process' was accepted in 2016. In 2019, passed the clean production audit of Guangdong Province . In 2019, PVC intelligent mixing and dosing flexible integrated system won the national award.

In 2020, re-identified as a high-tech enterprise; Won the 'national high-tech enterprise Awarded 280 patents in 2012-2022.

FULL-DIRECTION SERVICE



LIANSL





1994-1998

Guangdong Liansu Machinery Manufacture Co.,Ltd In 1998, First passed ISO 9000 quality management system certification in the industry In 1998, New product developed" Conical twin





In 2009, Company awarded as Guangdong Province equipment manufacturing industry 100 cultivate enterprise In 2010, Honored as Guangdong Province machinery industry association standing council unit In 2011, honored as National high-tech enterprises



In 2012, honored as Guangdong Province work safety standardization three-level enterprise

Honored as Guangdong Province machinery industry association vice-chairman unit in 2012; Chinese Plastic machinery association council memberLiansu Machinery New address Liansu Daba Industrial zone founded



HONORS & CERTIFICATES

- First passed ISO9000 quality management system certification in the industry in 1998.
 New product develop 'conical twin extruder ' come out in 1998, on behalf of Liansu Machinery Manufacture Industry enter into conical twin era, Liansu Machinery leading the industry
- The first developed aluminum plastic pipe production line equipment come out in 1999.
- Domestic first developed PPR production line come out in 2000, marked Company product research and development technology higher. Research and development of PPR pipe extrusion production line is the only one honored by Construction Ministry as 'Nationa advanced level' in the industry.
- Again passed ISO9001 quality management system certification in the industry in 2002.
- New product developed PC sunlight sheet production line in 2002,rely on its excellent working performance and leading technology level to win the favor of customers.
- Large diameter hollow wall spiral pipe production line developed by company in 2004,be honored as '2004 science and technology key project' by Construction Ministry; PE 1000 large diameter pipe production line won the 'national torch plan project'.
- Company passed the audit of quality, safety and environmental management system (QEO) in August 2004; and also honored as Europe CE certificate.

 Identified as 'Guangdong Province famous trademarks' in 2005
- In 2006, research of PE spiral internal and external screw thread connection technology, won the Shunde zone major scientific and technical project fiance support.
- In 2007, LSP-1000PE pipe production line won the scientific-technical progress Third Place of
- In 2008, research of PEX/PERT and EVOH multi-layer co-extrusion plastic pipe processing complete equipment got the Shunde zone major scientific and technical project fiance support.
- In 2008.honored as Guangdong Province Brand product .
- In 2009, Company awarded as Guangdong Province equipment manufacturing industry 100
- In2009, 'AC low-rotating speed high-torque motor drive high-yield screw extruder series technical transformation ' won the Guangdong provincial financial support for the equipment
- manufacturing industry technical transformation project.

 In 2009,research of PEX.PERT and EVOH multi-layer co-extrusion plastic pipe processing complete equipment honored as science and technology second place of Foshan city
- In 2010, won Shunde Zone plastic extrusion equipment engineering technology center construction project.
- In 2010, honored as Guangdong Province machinery industry association standing council unit.











APRASAL







- In 2010, honored as Shunde zone excellent enterprise growth project key supporting
- In 2011, won the Annual Provincial Government Quality Award.
- In 2011, plastic extrusion equipment engineering center was established.
- In 2011, honored as National high-tech enterprises.
- Honored as Guangdong Province machinery industry association vice-chairman unit in 2012; Chinese plastic machinery industry association council member.
- 2013 provincial famous product :Multi-layer co-extrusion casting film production line .
- In 2013, won the First prize of the Shunde science and Technology: torque motor single screw extruder
- In 2014, rated ad the second-class enterprise of safety production standardization in Guangdong Province. ■ In 2014, won the Third prize Foshan city science and Technology: torque motor single
- screw extruder.

 In 2014, 'single screw plastic extruder' won the Third prize of Guangdong Science and
- Technology Award. ■ In 2014, 'singe screw plastic extruder' won the Third prize of Foshan city Science and Technology Award.
- In 2014, 'Liansu injection molding machine 'was awarded as a famous brand product in Guangdong Province.
- Pass the 2015 creative application demonstration project inspection of first-generation numerical control mechanical products of Guangdong province.
- In 2015, rated as hundred intelligent manufacturing project pilot demonstration
- enterprises. ■ The project of 'Research and development and industrialization of high-performance numerical control equipment based on plastic processing process' was accepted in
- In 2016, 'LSCPE-2500 high-speed Wide-width Breathable Film production line ' won the provincial 'research and development and using of the first set with major
- In 2016, leading casting equipment won the first unit (set) award of Guanadona
- In 2017, 'PVC intelligent mixing and integration system ' won the provincial ' research and development and using of the first set with major technical equipment '.
- In 2017, re-identified as a high-tech enterprise;
- In 2019, passed the clean production audit of Guangdong Province.
- In 2019, PVC intelligent mixing and dosing flexible integrated system won the national
- In 2020, re-identified as a high-tech enterprise:
- Won the 'national high-tech enterprise
- Awarded 280 patents in 2012-2022.





LS-PVC Conduit

Four Pipe Production line

MAIN FEATURES

- The main machine is equipped with conical twin-screw extruder, and equipped with special
- permanent magnet synchronous servo motor for extruder, with high output and energy saving
- Equipped with on-line automatic packing mechanism, efficient and manpower saving.
- Production data acquisition and analysis system can be selected to realize transparent production management.









HAULING+CUTTING+PACKING COMBO VA

- Hauling+cutting+packing three in one design, saving space, stable.
- Simple and reliable swarfless cutting, stable performance.
- Vacuum alarm and automatic removal of waste pipe.
- Unique bundling & bagging design, stable pipe packing performance.

VACUUM

The vacuum of each tank is controlled independently, which can save energy and reduce noise. Vacuum alarm and send signal to automatically cut the waste pipe.



MOULD

 Suitable for electric cable duct production, reasonable flow channel design, large compression ratio, ensure plasticizing effect.





- Optional four pipe on-line socket machine.
- Double station, heating and socketing design.







MAIN TECHNICAL PARAMETER

MODEL	EXTRUDER MODEL	MAX HAULING SPEED (m/min)	MAX OUTPUT (kg/h)	TOTAL INSTALLED POWER (kw)	PRODUCTION LINE LENGTH (m)
LSFP-32PVC	LSE-80	18	450	165	25
LSFP-32PVC	LSE-65	18	280	110	23

LS-PVC

Double Pipe Production line

MAIN FEATURES

- The main machine is equipped with large L/D ratio parallel double screw and conical double screw extruder, and equipped with special permanent magnet synchronous servo motor for extruder, with high output and energy saving.
- The vacuum adopts frequency conversion closed-loop control, which is energy-saving and stable.
- Equipped with on-line automatic packing mechanism, efficient and manpower saving.
- Production data acquisition and analysis system can be selected to realize transparent production management.





MOULD

- Reasonable runner design ensures large extrusion and compression ratio of mould.
- The mould structure is convenient for quick installation and disassembly.



EXTRUDER

Provides high output conical twin screw extruder and parallel twin screw extruder for selection, high output and energy-saving. Realize online pigment feeding and flexible color change.





CUTTER

Double station cutting independent control, using swarfless cutting, clean and smooth incision.





HAUL-OFF UNIT

■ Each hauling station is controlled independently and adopts servo control to ensure large speed regulation range.







VACUUM

Double tank body vacuum independent control, adopts variable frequency closed-loop control, great energy saving and reduces noise.



MODEL	PIPE RANGE (m)	EXTRUDER MODEL	MAX HAULING SPEED (m/min)	MAX OUTPUT (kg/h)	TOTAL INSTALLED POWER (kw)	PRODUCTION LINE LENGTH (m)
LSDP-63PVC	Ø16-Ø63	LSE-65/132	25x2	280	110	25
LSDP-75PVC	Ø16-Ø75	LSE-80/156	25x2	450	160	26
LSDP-110PVC	Ø75-Ø110	LSE-80/156	14x2	450	200	26
LSDP-110PVC	Ø75-Ø110	LSE-95/191	14x2	1000	390	36

LS-UPVC

MAIN FEATURES

- The main machine is equipped with large L/D ratio parallel double screw and conical double screw extruder, and equipped with special permanent magnet synchronous servo motor for extruder, with high output and energy saving.
- The vacuum adopts frequency conversion closed-loop control, which is energy-saving and stable.
- Equipped with on-line automatic packing mechanism, efficient and manpower saving.
- Production data acquisition and analysis system can be selected to realize transparent production management.
- With online socket machine.



CUTTING MACHINE

 Planetary cutting adopts multi-point clamping structure, lens type sealing, self balancing counterweight and automatic profiling structure to ensure uniform chamfering and good dust collecting effect.



VACUUM

Adopts inverter drive closed-loop control, great energy saving and reduces noise.



EXTRUDER

High output and energy-saving. Realize online pigment feeding flexible online color change.



PIPE WEIGHING STACKER

Stacker with weighing and data acquisition function, open source data integration.

VACUUM TANK DIE HEAD **EXTRUDER** STACKER **CUTTER** HAUL - OFF UNIT **VACUUM TANK**



HAUL-OFF UNIT

Synchronous servo drive scheme is adopted for hauling and winch device to ensure more than 50 times of stable large speed regulation range, stable speed and reduce waste products.

MAIN TECHNICAL PARAMETER

MODEL	PIPE RANGE (m)	EXTRUDER MODEL	MAX OUTPUT (kg/h)	MAX HAULING SPEED (m/min)	TOTAL INSTALLED POWER (kw)	PRODUCTION LINE LENGTH (M)
LSP-63PVC	Ø16-Ø63	LSE-55	180-230	25	90	24
LSP-110PVC-I	Ø20-Ø110	LSE-65	280-350	15	110	24
LSP-110PVC-II	Ø40-Ø110	LSE-80	450-550	12	180	25
LSP-160PVC	Ø63-Ø160	LSE-80	450-550	8	175	25
LSP-250PVC-]]	Ø63-Ø250	LSE-80	450-550	6.5	195	25
LSP-400PVC	Ø110-Ø400	LSE-92	750-820	2.4	290	32
LSP-630PVC	Ø160-Ø630	LSE-92	750-820	1.6	330	33
LSP-800PVC	Ø280-Ø800	LSE-95	1000-1050	1.6	380	46
LSP-1000PVC	Ø630-Ø1000	LSE-95	1000-1050	0.6	540	50



MOULD

 Reasonable design of flow channel ensures large extrusion and residence time of melt in mould.

The mould structure is convenient for quick installation and disassembly.







SOCKET MACHINE

Double-layer heating inside and outside the pipe, double heating furnace to ensure the quality and efficiency of socket.

LS-PPR

Pipe Production Line

MAIN FEATURES

- The extruder adopts large L/D ratio screw,equipped with dedicated permanent magnet synchronous servo motor to realize high output and energy saving.
- The vacuum adopts frequency conversion closed-loop control, which is energy-saving and stable.
- Haul off adopts servo control to ensure stable production in large speed regulation range.
- Equipped with online straight pipe, coil pipe automatic packing mechanism, efficient and save labor.
- Production data acquisition and analysis system can be selected to realize transparent production management.



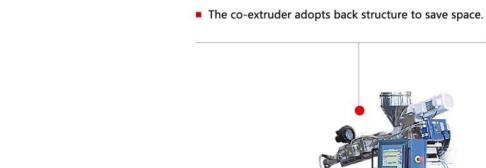
CUTTER

 Using flying knife swarfless cutting, cutting stable, fixed length accurate



HAUL-OFF

The hauling adopts servo control to ensure more than 50 times of stable speed regulation range, high speed and stable hauling.



CO-EXTRUDING FOR

COLOR STRIP



PACKING

 Automatic packing online to reduce labor cost.



Vacuum adopts negative pressure closed

loop to automatically adjust vacuum degree, improve pipe production quality and reduce noise.

EXTRUDER

 The extruder adopts 40 L/D ratio high-output screw, energy saving and low noise.



CUTTER

HAUL - OFF UNIT





MAIN TECHNICAL PARAMETER

MODEL	PIPE RANGE (mm)	EXTRUDER MODEL	MAX OUTPUT (kg/h)	MAX HAULING SPEED (m/min)	TOTAL INSTALLED POWER (kw)	LINE LENGTH (m)
LSP-63PPR	Ø16-Ø63	LSS-50-40	250	25	165	53
LSP-110PPR	Ø20-Ø110	LSS-50-40	250	18	215	53
LSP-160PPR	Ø32-Ø160	LSS-65-40	300	12	225	53

VACUUM TANK

DIE HEAD

EXTRUDER





MOULD

- Spiral die head structure, uniform wall thickness.
- The setting die adopts sleeve structure, with forced water cooling at the inlet, which is stable at high speed.

7

LS-PPR

MAIN FEATURES

- The extruder adopts large L/D ratio screw,equipped with dedicated permanent magnet synchronous servo motor to realize high output and energy saving.
- The vacuum adopts frequency conversion closed-loop control, which is energy-saving and stable.
- Hauling adopts servo control to ensure stable production in large speed regulation range.
- Equipped with online straight pipe, coil pipe automatic packing mechanism, efficient and save labor.
- Production data acquisition and analysis system can be selected to realize transparent production management.

HAUL-OFF

■ The hauling adopts servo control to ensure more than 50 times of stable speed regulation range, high speed and stable hauling.





BATH TANK

CUTTER

Double station independent control, using large inertia flying knife servo motor, fixed length using "PLC free control", simple & reliable





CUTTER



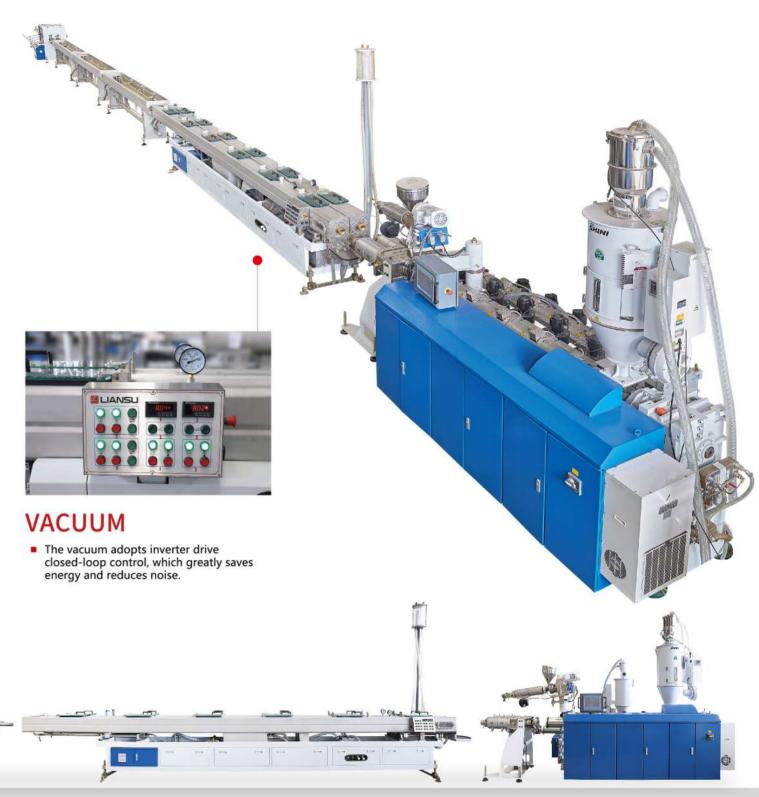
HAUL-OFF UNIT BATH TANK





MAIN TECHNICAL PARAMETER

MODEL	PIPE RANGE (mm)	EXTRUDER MODEL	MAX OUTPUT (kg/h)	MAX HAULING SPEED (m/min)	TOTAL INSTALLED POWER (kw)	LINE LENGTH (m)
LSDP-32PPR	Ø16-Ø32	LSS50-40 / LSS65-40	160+300	40	260	50



VACUUM TANK





EXTRUDER

DIE HEAD





- Single or multi spiral die head structure, single or multi-layer structure can be provided, uniform wall thickness.
- The setting die adopts sleeve structure, with forced water cooling at the inlet, which is stable at high speed.

EXTRUDER

- The extruder adopts 40 L/D ratio high-output screw, energy saving and low noise.
- Matching online color masterbatch addition, flexible production of single layer and double layer PPR pipes.

LS-HDPE

Pressure and Gas Pipe Production Line

MAIN FEATURES

- The extruder is equipped with special permanent magnet synchronous servo motor to achieve high output and energy saving.
- The die body adopts spiral structure and equipped with exhaust mechanism to ensure stable melt temperature under high output and reduce cooling length.
- The vacuum adopts frequency conversion closed-loop control, which is energy-saving and stable.
- Hauling adopts servo control to ensure stable production in large speed regulation range.
- Adopt swarfless cutting mechanism, accurate fixed length, beautiful incision.
- Production data acquisition and analysis system can be selected to realize transparent

HAUL-OFF UNIT

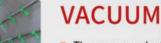
 Synchronous servo drive scheme is adopted for hauling and pipe leading device to ensure more than 50 times of stable large speed regulation range, stable speed and reduce waste products.

SWARFLESS CUTTER

Fully automatic one button change diameter ,simple,efficieney







■ The vacuum adopts negative pressure closed loop to automatically adjust the vacuum degree, which can stabilize the pressure, improve the quality of pipe production, greatly save energy

HEAD



MOULD

The die body adopts spiral structure, which is suitable for pipe extrusion in various pressure ranges. The large die body adopts internal air-cooled die to save cooling

VACUUM TANK



EXTRUDER

■ The extruder adopts 40 L/D ratio high output screw, energy saving and low noise.



EXTRUDER

MAIN TECHNICAL PARAMETER

MODEL	PIPE RANGE (mm)	EXTRUDER MODEL	MAX OUTPUT (kg/h)	MAX HAULING SPEED (m/min)	TOTAL INSTALLED POWER (kw)	PRODUCTION LINE LENGTH (m)
LSP-63PE	Ø16-Ø63	LSS50-40	300	25	165	53
LSP-110PE	Ø20-Ø110	LSS50-40	300	18	180	55
LSP-160PE-I	Ø40-Ø160	LSS65-40	600	12	240	59
LSP-250PE	Ø50-Ø250	LSS65-40	600	6.5	250	52
LSP-450PE	Ø110-Ø450	LSS80-40	820	4.5	375	63
LSP-630PE	Ø160-Ø630	LSS100-40	1150	1.6	515	73
LSP-800PE	Ø280-Ø800	LSS100-40	1150	1	535	66
LSP-1000PE	Ø400-Ø1000	LSS80-40x2	1600	0.8	675	70
LSP-1200PE	Ø500-Ø1200	LSS80-40x2	1600	0.6	685	71
LSP-1600PE	Ø800-Ø1600	LSS120-40	1400		940	71

LS-Multi Layer

Pipe Co-Extrusion Line

MAIN FEATURES

- HAUL-OFF UNIT VACUUM TANK **EXTRUDER**
- The extruder is equipped with special permanent magnet synchronous servo motor to achieve high output and energy saving.
- The mould body adopts the independent screw mechanism of each layer to ensure the uniformity of each layer.
- The vacuum adopts frequency conversion closed-loop control, which is energy-saving and stable.
- Hauling adopts servo control to ensure stable production in large speed regulation range.
- Adopt automatic size free swarfless cutting mechanism which is easy to adjustment and fixed length accuracy and the incision is beautiful.
- Equipped with online straight pipe, coil pipe automatic packing mechanism, efficient and save labor.
- Production data acquisition and analysis system can be selected to realize transparent production management.
- Single layer/multi-layer pipe production line with pipe diameter of 20-1200mm can be selected;







CUTTING MACHINE

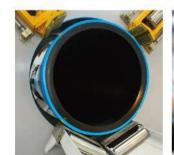




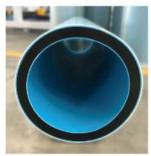
HAUL-OFF UNIT

Synchronous servo drive scheme is adopted for hauling and pipe leading device to ensure more than 50 times of stable large speed regulationrange, stable speed and reduce waste products.

PRODUCTS









Two-layer HDPE pipe Three-layer HDPE co-extruding pipe

Four-layer HDPE co-extruding pipe Ø800Five-layer PERT thermal insulating pipe

VACUUM The vacuum adopts negative pressure closed loop to automatically adjust the vacuum degree, which can stabilize the pressure, improve the quality of pipe production, greatly save energy and reduce noise **EXTRUDER** ■ The extruder adopts 40 L/D ratio high output screw, energy saving and low noise.







MOULD • Adopt spiral basket structure, easy maintenance, accurate thickness of each layer.



LSP-PERT

MAIN FEATURES

- Dedicated PERT screw design.
- The high speed design of the whole line can meet the production speed of 40m/min.
- Suitable for single layer, multi-layers PERT pipe extrusion production line





COILER

Automatic winding integrates automatic strapping and discharging, high degree of automation.



SPRAY TANK **VACUUM TANK** DIE HEAD EXTRUDER









CUTTER

Fly cutting, smooth incision, servo reset, accurate length counting.

HAUL-OFF UNIT

■ The haul-off unit adopts permanent magnet synchronous motor to ensure more than 50 times of stable speed range and realize the stable hauling of pipes.



MAX OUTPUT MAX HAULING SPEED TOTAL INSTALLED POWER LINE LENGTH PIPE DIAMETER RANG MODEL EXTRUDER MODEL (kg/h) (m/min) LSP-32PERT-EVOHØ16-Ø32 140 LSS65-34x1 LSS40-30x2 280 35 36 LSP-32PERT-EVOHØ16-Ø32 LSS65-34x1 LSS40-30x1 36





VACUUM

 Vacuum adopts negative pressure closed loop to automatically adjust vacuum degree, stable pressure, improve pipe production quality, low noise and energy saving.



MOULD

- Adopt spiral structure, simple maintenance, accurate thickness of each layer.
- The setting die adopts sleeve structure, with forced water cooling at the inlet, which is stable at high speed.

LS-Pex

Aluminum Plastic Composite Pipe Production Line

MAIN FEATURES

- Unique co-extrusion technique, ensure stable and high quality extrusion
- High quality ultrasonic welding machine guarantees stable performance,
- Supplied with aluminum sheet feeding device to ensure continuous and
- Double station winder with automatic winding displacement, tension control, to achieve compact and nice coils of pipe.
- Supplied with Siemens Profibus central control system to achieve good syncrhonization and stable production.



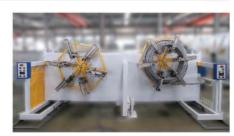


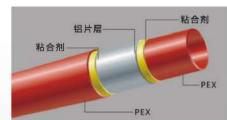




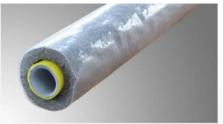












structure diagram of polyethylene-aluminum PPR firberglass pipe. composite pipeline /PAP pipe.

MAIN TECHNICAL PARAMETER

MODEL	PIPE DIAMETER RANG (mm)	EXTRUDER MODEL	MAX OUTPUT (kg/h)	MAX HAULING SPEED (m/min)	TOTAL INSTALLED POWER (kw)
LSAP-32	Ø16-Ø32	LSS45-34 2set LSS40-25 2set	200	9	130

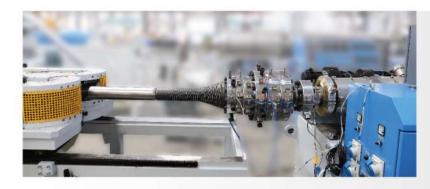
LS-Single Wall

Corrugated Pipe Extrusion Line

MAIN FEATURES

- Enclosed track design and no chain connected between mold blocks to facilitate the replacement of mold block.
- Mold block is through 40Cr nitrogen treatment, more wear-resistant, durable.
- Pipe is forming by air pressure.
- Corrugator is with protection device for power cut off and axis broke off, the corrugator with auto set back to disconnect the mold block and machine head function.
- Equipped with double-station winder.









MAIN TECHNICAL PARAMETER

MODEL	PIPE DIAMETER RANG (mm)	EXTRUDER MODEL	MAX OUTPUT (kg/h)	MAX HAULING SPEED (m/min)	TOTAL INSTALLED POWER (kw)	LINE LENGTH (m)
LSBP-50PE	Ø16-Ø50	LSS65-30	120	25	75	25
LSBP-50PVC	Ø16-Ø50	LSE-55	180	25	70	25

LS-Double Wall

Corrugated Pipe Extrusion Line

MAIN FEATURES

- Shuttle drive design, vacuum forming system, adopts Siemens control system, more accurate control.
- Pipe vacuum forming.
- The forming mould block adopts water cooling with good cooling effect.
- The water jacket is made of aluminum alloy electroplating, better heat transfer performance.







SPRAY TANK





COOLING TANK

MOULD

■ PVC800-1000 double-wall extrusion die head.

MAIN TECHNICAL PARAMETER

MODEL	PRODUCT SERIES (mm)	EXTRUDER MODEL	MAX OUTPUT (kg/h)	MAX HAULING SPEED (m/min)	TOTAL INSTALLED POWER (kw)	LINE LENGTH (m)
LSBP-250PE	Ø75 - Ø 250	LSS-80-34 LSS-65-34	670	5	380	25
LSBP-500PE	Ø160-Ø 500	LSS-100-34 LSS-80-34	1170	3.5	530	28
LSBP-800PE	Ø400-Ø 800	LSS-100-34 LSS-80-34	1170	2.5	650	40
LSBP-1000PE	Ø500-Ø 1000	LSS-150-34 LSS-100-34	2050	1.5	830	40
LSBP-160PVC	Ø110-Ø160	LSE-65	280	5	140	30
LSBP-500PVC	Ø200-Ø500	LSE-92	750	4.5	300	30
LSBP-1000PVC	Ø630-Ø1000	LSE-95	1000	1	485	36

ONLINE INJECTION SOCKET



CORRUGATOR



EXTRUDER



LS-PVC Soft

Hose Extrusion Line



MAIN FEATURES

- Simplified structure and convenient operation.
- The produced hose is in high grade of transparent, with bright surface.
 Liansu offers transparent hose, garden net pipe, gas hose, water hose, reinforced hose and steel spiral hose.

COOLING









CO-EXTRUSION





PRODUCTS







LS-HDPE

Spiral Cable Duct Prodution Line



MAIN FEATURES

- Separate type and mixing head screw structure make better plastication and mixing effect.
- Inner layer is silicon co-extrusion, so anti-electromagnetic interference for the pipe is available.
- External pipe single-wall spiral structure makes the pipe anti-bending and compression resistant.

















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MAIN TECHNICAL PARAMETER

MODEL	EXTRUDER MODEL	MAX OUTPUT (kg/h)	TOTAL INSTALLED POWER (kw)	LINE LENGTH (m)
LSP110-PE	LSS65-34 2set LSS45-30 1set	400-500	260	45X8X4

LS-Double Wall

Spiral Pipe Production Line

MAIN FEATURES

- Easier exchange of spiral head
- Spiral head actuated by distribution gearbox connecting with universal joint, with more stable transmission effect.
- Cutting device with internal and external thread cutting, so that the production of the pipe connection is more convenient, meanwhile to enlarge the forming unit's production span; accurate synchronization counting to ensure accurate automatic synchronization cutting.













MAIN TECHNICAL PARAMETER

MODEL	PIPE DIAMETER RANG (m)	EXTRUDER MODEL	TOTAL INSTALLED POWER (kw)	MAX OUTPUT (kg/h)
LSWP-800	Ø200-Ø800	LSS-65X35, LSS-65X30	250	470
LSWP-1200	Ø400-Ø1200	LSS-80X34, LSS-65X30	300	540
LSWP-1800	Ø800-Ø1800	LSS-100X34, LSS-65X34	450	1000
LSWP-2400	Ø1400-Ø2400	LSS-100X34, LSS-65X34	470	1000
LSWP-3000	Ø2000-Ø3000	LSS-120X34, LSS-80X34	580	1420

LS-Conical

Twin Screw Extruder

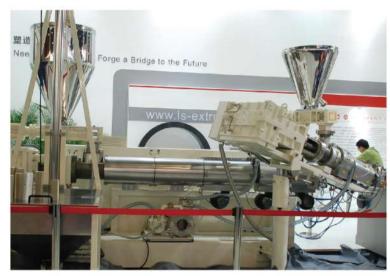
MAIN FEATURES

- Available material:PVC compound
- Optimized screw design, high output, good plasticization, suitable for different formulations of PVC mixture extrusion, extruder is equipped with permanent magnet servo motor, energy saving and efficient.
- It can be matched with the color mixing mechanism of online weight-loss balance to facilitate the switching of different color materials.
- PLC or PLC+data acquisition and analysis system can be selected as control system.









MAIN TECHNICAL PARAMETER

MODEL	MOTOR POWER (kw)	TOTAL INSTALLED POWER (kw)	PVC OUTPUT (kg/h)	
LSE45/97	18.5	36	120	
LSE55/110	30	62	230	
LSE65/132	37	75	350	
LSE80/156	75	128	550	
LSE80/172	75	128	600	
LSE92/188	110	193	820	
LSE95/191	132	215	1050	

LS-Parallel

Twin-Screw Extruder

MAIN FEATURES

- For different products, different L/D ratio screw can be selected. The screw with large 36 L/D ratio is suitable for the production of national standard pipes and profiles. The extruder is equipped with permanent magnet servo motor, which is energy-saving and efficient.
- It can be matched with the pigment mixing mechanism of online weight-loss balance to facilitate the switching of different color materials.



MAIN TECHNICAL PARAMETER

MODEL	MOTOR POWER (kw)	TOTAL POWER (kw)	LARGEST PRODUCTION (kg/h)	
LSPD75-32	45	78	350	
LSPD75-36	55	95	500	PIPE
LSPD93-32	55	125	500	DEDICATED
LSPD93-36	75	135	750	
LSPD114-32	108	108	1000-1200	





LS-Single Screw Extruder

MAIN FEATURES

- Available material:PP/PPR,HDPE,PC,granular PVC.
- Different specifications and L/D ratio match the extrusion production demand of different output and materials
- Screw large 40 L/D ratio series extruder, high output, stable melt temperature, equipped with permanent magnet servo motor, energy saving.
- PLC or PLC+data acquisition and analysis system can be selected as control system.











MAIN TECHNICAL PARAMETER

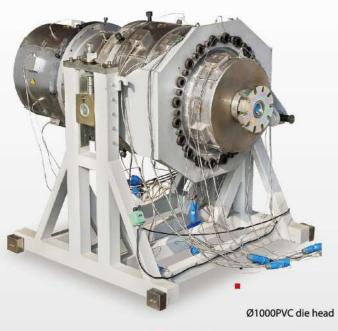
MODEL	HDPE OUTPUT (kg/h)	MOTOR POWER (kw)
LSS30-25	1.5	1.1
LSS30-25B	4.5	2.2
LSS45-30	30~40	15
LSS65-30	120	37
LSS65-34	250	75
LSS65-35	350	90
LSS80-34	420	110
LSS80-35	540	132
LSS100-34	750	200
LSS120-33	1000	250
LSS150-34	1200	355

MODEL	HDPE OUTPUT (kg/h)	MOTOR POWER (kw)
LSS50-40	300~340	75
LSS65-40	520~550	132
LSS80-40	820~870	200
LSS100-40	1150~1200	280
LSS120-40	1300~1400	355

LS-PVC Pipe Head

MAIN FEATURES

- Liansu develops PVC single layer and multilayer pipe heads, Max die head upto.Ø1000mm PVC single layer pipe, .Reasonable compression ratio design guarantees good plasticizing effect.
- Easy dismounting and mounting of the die head structure, guarantees the efficiency production.
- Comunication calole duct mould.
- Different kinds of profile mould.





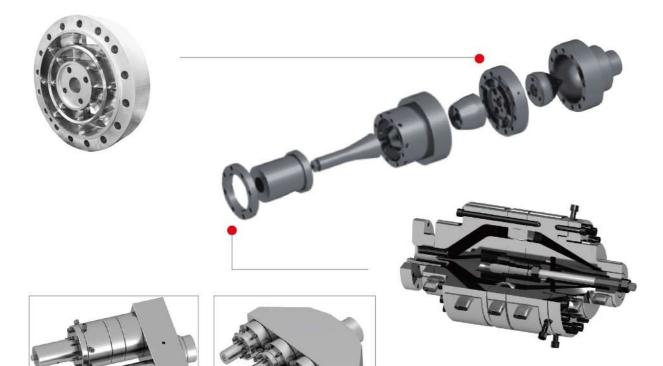
DVC 900











LS-HDPE

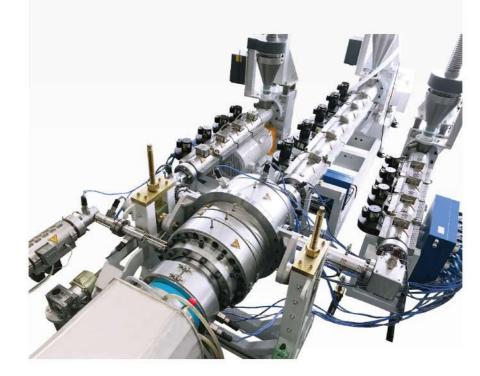
Single layer & Multilayer Pipe Head

MAIN FEATURES

Based on the spiral distributing principle, the PE pipe die head can meet the pipe of different O.D. and wall thickness from 10 to 1600mm. Adopting special spiral distributor design and melt flow, which can effectively protect the features of the raw material during processing while shortening the cleaning time of the die head.



Single layer pipe die head structure



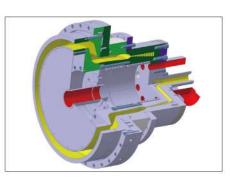
Structure of coextrusion die head for multi-layer pipe

Base on the market requirement, Liansu offer the extrusion mould as below:

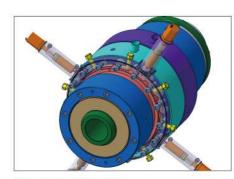
- \$\Phi16-\Phi1600\$ pressure sewage solid pipe mould.
- \$\text{\$\}}}}}}}}}}}} \engines \end{tinestite{\$\text{\$\
- \$\phi16-\$\phi250\$ single-wall corrugated pipe mould.



■ MOLD-PE-SPRIOAL HEAD



■ SINGLE-LAYER MOLD



■ PE-MULTI-LAYER-HEAD



Pipe head with sensor

Calibrating

MAIN FEATURES

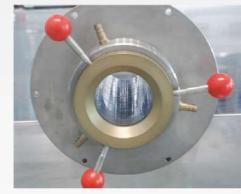
The vacuum calibration system, which is developed by Liansu, allows the extrusion of pipes with dimensions in accordance with the international standard. The vacuum calibrator that transmits the heat excellently as the sleeve is highly wear-resistant.

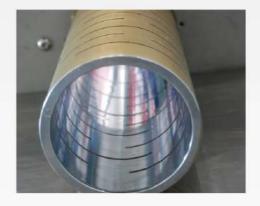




















LS-Tank

Vacuum Energy Saving Control

MAIN FEATURES

- The whole tank is made of stainless steel 304, durable and reliable, and can be moved forward and backward by electric control.
- Large capacity filter screen to ensure the cleanliness of spray water.
- Vacuum adopts negative pressure closed loop to automatically adjust vacuum degree, improve pipe production quality, reduce noise by more than 30dB, save energy by 30~85%.
- The pipeline is welded with stainless steel elbow to reduce the pressure loss of water pump.







VACUUM AUTOMATIC CONTROL

It adopts vacuum negative pressure closed-loop control, HMI sets the pressure required for pipe sizing, starts the vacuum pump to send signals to inverter through the negative pressure sensor, automatically adjusts the speed of the vacuum pump, quickly achieves the constant negative pressure without manual pressure relief, achieves the energy-saving effect and improves the production stability.









LS-Haul Off Unit

MAIN FEATURES

- According to the pipe of different sizes and speed requirements, we have also developed multi caterpillar and large speed ratio hauling mechanism, such as two-cateroillar haul-off unit, three-cateroillar haul-off unit, four-cateroillar haul-off unit, six-cateroillar haul-off unit, eight-cateroillar haul-off unit and ten-cateroillar haul-off unit.
- The whole series of haul-off unit adopt the scheme of "one pull more" each caterpillar independent permanent magnet synchronous servo motor, which can ensure more than 50 times of stable large speed regulation range, and can meet the fast hauling of small-sized pipe and slow hauling of large-sized thick wall pipe at the same time, with stable speed and strict synchronization of each caterpillar.
- Optional pre hauling device (winch).

















six-caterpillar

eight-caterpillar

■ ten-caterpillar

twelve-caterpillar

LS-Cutting

MAIN FEATURES

■ HDPE pipe specification from 20-1200MM are all adopt full automatic swarfless cutting mechanism which can full-automatic variable diameter. If change the specification just need set the 'pipe diameter' and 'pipe wall thickness' on the touchable screen, that is 'one key' to adjusting automatically; cutting blade position, 'feeding depth', 'pipe center' and other position are foolproof operation.Bid farewell to the traditional specifications of many complex adjustments, improve the adjusting time for specifications, improve the service life of cutting tools!

Adopt the double blade structure which is the 'circular blade'+' sharp blade' combination, to realize the perfect cutting of the pipe wall thickness exceed the 100mm with the smooth , no inside and outside flanging and swarfless!



















LS-Coiler

MAIN FEATURES

- It can provide a variety of winding schemes according to the different speed of the production line.
- The winding and displacement of the whole series of winders adopt servo drive scheme, with good displacement effect and stable tension control.
- PP belt automatic packing and automatic discharging, high degree of automation, production speed up to 50m/min.
- Reliable tension control automatically matches different line speed.







■ PE Autornatic coiler with on line strapping

MAIN TECHNICAL PARAMETER

MODEL	PRODUCT SERIES (mm)	COILER ID (mm)	COILER THICKESS(mm)	COILER WIDTH (mm)	POWER OF MAIN MOTOR (kw)
LSPJ32BPE	Ø16-Ø32	Ø400-Ø650	230	300	2.9X2
LSPJ-63DPE	Ø16-Ø63	Ø700-Ø1800	400	510	5.5
LSPJ-110PE	Ø63-Ø110	Ø840-Ø2600	550	700	10.5X2
LSPJ-160PE	Ø50-Ø160	Ø1000-Ø3200	480	600	10.5

LS-Socketing Machine

MAIN FEATURES

- Socket machine series, from diameter 16 to diameter 1000 PVC pipe socket machine has been mature in the market.
- The whole series of socket machine can be adapted online and offline, and there are many types to choose from: flat socket, U-shaped socket, rectangular socket and rubber ring socket.
- Diameter 16~32 small pipe socket machine series, there are 2 stations, 4 stations and 10 stations can be selected, and can be equipped with packing machine for automatic online expanding and packing.







Standard

ASTM standard ASTM D1784-D1785, ASTM D2265.

	Outside diameter		Wallthickness(mm)								
Nominalsizeinch	(m	im)	ASTM D 1784/85 schedule 40		ASTM D 1785 schedule 8		O ASTM D2665(drain, waste, v				
	Min	Max	Min	Max	Min	Max	Min	Max			
1/2	21.24	21.44	2.77	3.28	3.73	4.24					
3/4	26.57	26.77	2.87	3.38	3.91	4.42					
1	33.27	33.53	3.38	3.89	4.55	5.08					
11/4	42.03	42.29	3.56	4.07	4.85	5.43	3.56	4.07			
1 1/2	48.11	48.41	3.68	4.19	5.08	5.69	3.68	4.19			
2	60.17	60.47	3.91	4.42	5.54	6.20	3.91	4.42			
21/2	72.84	73.20	5.16	5.77	7.01	7.85					
3	88.70	89.10	5.49	6.15	7.62	8.53	5.49	6.15			
4	114.07	114.53	6.02	6.73	8.56	9.58	6.02	6.73			
5	141.05	141.55	6.55	7.34	9.52	10.66					
6	168.00	168.56	7.11	7.97							
8	218.70	219.46	8.18	9.17							
10			9.27	10.39							

UPVC pipes according to SAS 14-15/1998 and DIN8062 standards. GB/T 10002.1-2006 PVC-U plastic pipe.

		Clas	s 1	Clas	s 2	Clas	ss 3	Clas	ss 4	Clas	ss 5		OD tol	erence			Т	hicknes	s		
Nominal	Tolerance	2.5	bar	41	oar	61	oar	10	bar	16	bar	OD	(m	ım)				(n	nm)		
O.D. mm	on O.D. (mm)		Nominal weight	Nominal thickness		Nominal thickness		Nominal thickness					Max	Min	0.63 MPa	0.8 MPa	1.0 MPa	1.25 MPa	1.6 MPa	2.0 MPa	2.5 MPa
		thickness (mm)	(mm)	(mm)	weight (mm)	(mm)	weight (mm)	(mm)	weight (mm)	thickness (mm)	weight (mm)	20	20.10	20.25						2.0	2.3
16	+0.2									1.2	0.09	25	25.10	25.25					2.0	2.3	2.8
20	+0.2									1.5	0.137	32	32.10	32.25				2.0	2.4	2.9	3.6
25	+0.2							1.5	0.174	1.9	0.212	40	40.10	40.25			2.0	2.4	3.0	3.7	4.5
32	+0.2							1.8	0.264	2.4	0.342	50	50.10	50.25		2.0	2.4	3.0	3.7	4.6	5.6
40	+0.2					1.8	0.344	1.9	0.350	3.0	0.525	63	63.10	63.25	2.0	2.5	3.0	3.8	4.7	5.8	7.1
50	+0.2					1.8	0.422	2.4	0.552	3.7	0.809	75	75.10	75.25	2.3	2.9	3.6	4.5	5.6	6.9	8.4
63	+0.2					1.9	0.562	3.0	0.854	4.7	1.29	90	90.10	90.25	2.8	3.5	4.3	5.4	6.7	8.2	10.1
75	+0.3			1.8	0.642	2.2	0.782	3.6	1.22	5.6	1.82	110	110.10	110.30	2.7	3.4	4.2	5.3	6.6	8.1	10.0
90	+0.3			1.8	0.774	2.7	1.13	4.3	1.75	6.7	2.61	125	125.10	125.30	3.1	3.9	4.8	6.0	7.4	9.2	11.4
110	+0.3	1.8	0.950	2.2	1.16	3.2	1.64	5.3	2.61	8.2	3.90	140	140.10	140.30	3.5	4.3	5.4	6.7	8.3	10.3	12.7
125	+0.3	1.8	1.08	2.5	1.48	3.7	2.13	6.0	3.34	9.3	5.01	160	160.15	160.40	4.0	4.9	6.2	7.7	9.5	11.8	14.6
140	+0.4	1.8	1.21	2.8	1.84	4.1	2.65	6.7	4.18	10.4	6.27	200	200.15	200.40	4.9	6.2	7.7	9.6	11.9	14.7	18.2
160	+0.4	1.8	1.39	3.2	2.41	4.7	3.44	7.7	5.47	11.9	8.17	225	225.15	225.50	5.5	6.9	8.6	10.8	13.4	16.6	
200	+0.4	1.8	1.74	4.0	3.70	5.9	5.37	9.6	8.51	14.9	12.8	250	250.15	250.60	6.2	7.7	9.6	11.9	14.8	18.4	
225	+0.5	1.8	1.96	4.5	470	6.6	6.76	10.8	10.8	16.7	16.1	315	315.15	315.70	7.7	9.7	12.1	15.0	18.7	23.2	
250	+0.5	2.0	2.40	4.9	565	7.3	8.31	11.9	13.2	18.6	19.9	355	355.15	355.70	8.7	10.9	13.6	16.9	21.1	26.1	
280	+0.6	2.3	3.11	5.5	711	8.2	10.40	13.40	16.60	20.8	24.9	400	400.15	400.80	9.8	12.3	15.3	19.1	23.7	29.4	
315	+0.6	205	3.78	6.2	9.02	9.2	13.2	15.0	20.9	23.4	31.5	500	500.15	501.00	12.3	15.3	19.1	23.9	29.7	36.8	
400	+0.7	3.2	6.10	7.9	145	11.7	21.1	19.1	33.7	29.7	50.8	630	630.15	631.20	15.4	19.3	24.1	30.0			

Polyethylen(PE)-PE 63,PE 80,PE 100,PE HD(wall thickness and mass).

Dimensions in millimetres

		Pipe series									
	SDR 1		SDR S 1		SDR S 12		SDR S 1		SDR S 2		
			N	ominal	pressu	ıre,PN	a in ba	ır			
PE40	1/2		PN:	3,2	PN	2,5	121		-	5	
PE63	PN	6	PN	15	PN	14	PN	3,2	PN 2,5		
PE80	7.4	Ť	PN	6 °	PN	15	PN	14	PN	3,2	
PE100	1.7	1	PN	8	PN	6 °	PN	15	PN 4		
Nom.				Wal	lthick	nesse	s b				
size	^e min	^e max									
16	-	1-	-	-	-	-	-	6 # 6	(*)	-	
20	ŭ.	12	-	72	-	~	-	•	-	-	
25	-	≥ ±	-	-	-	-		(#)	1.00	-	
32	2,0 ^d	2,3	121		12	:2:		*	-	120	
40	2,3	2,7	2,0 ^d	2,3	-	-	1.70		1851	-	
50	2,9	3,3	2,4	2,8	2,0	2,3	**	~	-	120	
63	3,6	4,1	3,0	3,4	2,5	2,9	151	7.	171	-	
75	4,3	4,9	3,6	4,1	2,9	3,3	*	~	~	143	
160	9,1	10,2	7,7	8,6	6,2	7,0	151	-	-	-5:	
180	10,2	11,4	8,6	9,6	6,9	7,7		5 - 5		-	
200	11,4	12,7	9,6	10,7	7,7	8,6	-			-	
225	12,8	14,2	10,8	12,0	8,6	9,6	:#:		*	(*)	
250	14,2	15,8	11,9	13,2	9,6	10,7	-	-		-	
280	15,9	17,6	13,4	14,9	10,7	11,9	(*)	-	(#)	*	
315	17,9	19,8	15,0	16,6	12,1	13,5	9,7	10,8	7,7	8,6	
355	20,1	22,3	16,9	18,7	13,6	15,1	10,9	12,1	8,7	9,7	
400	22,7	25,1	19,1	21,2	15,3	17,0	12,3	13,7	9,8	10,9	
450	25,5	28,2	21,5	23,8	17,2	19,1	13,8	15,3	11,0	12,2	
500	28,3	31,3	23,9	26,4	19,1	21,2	15,3	17,0	12,3	13,7	
560	31,7	35,0	26,7	29,5	21,4	23,7	17,2	19,1	13,7	15,2	
630	35,7	39,4	30,0	33,1	24,1	26,7	19,3	21,4	15,4	17,1	
710	40,2	44,4	33,9	37,4	27,2	30,1	21,8	24,1	17,4	19,3	
800	45,3	50,0	38,1	42,1	30,6	33,8	24,5	27,1	19,6	21,7	
900	51,0	56,2	42,9	47,3	34,4	38,3	27,6	30,5	22,0	24,3	
1000	56,6	62,4	47,7	52,6	38,2	42,2	30,6	33,5	24,5	27,1	
1200	Ŀ	12	57,2	63,1	45,9	50,6	36,7	40,5	29,4	32,5	
1400	*:	2.5	-		53,5	59,0	42,9	47,3	34,3	37,9	
1600	23	12	-	12	61,2	67,5	49,0	54,0	39,2	43,3	

a PN values are based on C=1,25.

d The calculated value of emin (ISO 4065[2]) is rounded up to the nearest value of either 2,0,2,3 or 3,0. This is to satisfy certain national requirements.

								Dilli	CHISTOT	13 111 111	illillie	103	
						Pipes	eries						
	SDF S 2		SDR S 3		SDI		SDR S		SDR 1		SDR S		
				N	omina	minal pressure,PN ^a in bar							
PE40	-		PN	10	PN	18	1		PN 5		PN 4		
PE63	÷	,		-	,	•	PN	10	PN	8	(#)		
PE80	PN	125	PN	120	PN	16	PN 1	2,5	PN	10	PN	18	
PE100			PN	25	PN	20	PN	16	PN 1	2,5	PN	10	
Nom					Wa	llthick	cnesse	s b					
Nom. size	e min	e _{max}	e min	e _{max}	e _{min}	e max	e _{min}	e _{max}	e min	e max	e _{min}	e max	
16	3,0°	3,4	2,3°	2,7	2,0°	2,3	-	+		-	-		
20	3,4	3,9	3,0°	3,4	2,3	2,7	2,0°	2,3	-	(+)	((+)	-	
25	4,2	4,8	2,5	4,0	3,0°	3,4	2,3	2,7	2,0°	2,3	10.00	-	
32	5,4	6,1	4,4	5,0	3,6	4,1	3,0°	3,4	2,4	2,8	2,0°	2,3	
40	6,7	7,5	5,5	6,2	4,5	5,1	3,7	4,2	3,0	3,5	2,4	2,8	
50	8,3	9,3	6,9	7,7	5,6	6,3	4,6	5,2	3,7	4,2	3,0	3,4	
63	10,5	11,7	8,6	9,6	7,1	8,0	5,8	6,5	4,7	5,3	3,8	4,3	
75	12,5	13,9	10,3	11,5	,8,4	9,4	6,8	7,6	5,6	6,3	4,5	5,1	
90	15,0	16,7	12,3	13,7	10,1	11,3	8,2	9,2	6,7	7,5	5,4	6,1	
110	18,3	20,3	15,1	16,8	12,3	13,7	10,0	11,1	8,1	9,1	6,6	7,4	
125	20,8	23,0	17,1	19,0	14,0	15,6	11,4	12,7	9,2	10,3	7,4	8,3	
140	23,3	25,8	19,2	21,3	15,7	17,4	12,7	14,1	10,3	11,5	8,3	9,3	
160	26,6	29,4	21,9	24,2	17,9	19,8	14,6	16,2	11,8	13,1	9,5	10,6	
180	29,9	33,0	24,6	27,2	20,1	22,3	16,4	18,2	13,3	14,8	10,7	11,9	
200	33,2	36,7	27,4	30,3	22,4	24,8	18,2	20,2	14,7	16,3	11,9	13,2	
225	37,4	41,3	30,8	34,0	25,2	27,9	20,5	22,7	16,6	18,4	13,4	14,9	
250	41,5	45,8	34,2	37,8	27,9	30,8	22,7	25,1	18,4	20,4	14,8	16,4	
280	46,5	51,3	38,3	42,3	31,3	34,6	25,4	28,1	20,6	22,8	16,6	18,4	
315	52,3	57,7	43,1	47,6	35,2	38,9	28,6	31,6	23,2	25,7	18,7	20,7	
355	59,0	65,0	48,5	53,5	39,7	43,8	32,2	35,6	26,1	28,9	21,1	23,4	
400		-	54,7	60,3	44,7	49,3	36,3	40,1	29,4	32,5	23,7	26,2	
450		-	61,5	67,8	50,3	55,5	40,9	45,1	33,1	36,6	26,7	29,5	
500	170	-	7.	5.	55,8	61,5	45,4	50,1	36,8	40,6	29,7	32,8	
560	•		*			- 8	50,8	56,0	41,2	45,5	33,2	36,7	
630	-	7	-	-	-	-	57,2	63,1	46,3	51,1	37,4	41,3	
710		=	-	2	2	2	E	-	52,2	57,6	42,1	46,5	
800	-	-		-	-		-	-	58,8	64,8	47,4	52,3	
900		~	*	-	*	+	-	#	*	(H)	53,3	58,8	
1000		*	-	-	-	-	*	-	*		59,3	65,4	
1200			*	÷	5	55	-	7.	*	O#2	1090		
1400	-	-	-	-	*	-	*	*	*	(37)	(.	S.**	
1600			78	5		2	7.	7.		1.71	10.75	1070	

a PN values are based on C=1,25.

36

b Tolerances in accordance with grade V of ISO 11922-1:1997[1].

c Actual calculated values are 6,4 bar for PE100 and 6,3 bar for PE80.

b Tolerances in accordance with grade V of ISO 11922-1:1997[1].

c The calculated value of emin (ISO 4065[2]) is rounded up to the nearest value of either 2,0,2,3 or 3,0. This is to satisfy certain national requirements.

LS-Mixer

MAIN FEATURES

- High torque, super high efficiency permanent magnet synchronous motor is used in hot mixing, with high energy saving rate, large torque and high overload capacity.
- The hot mixing blades are made of wear-resistant material with long service life and good mixing effect.
- The comprehensive energy saving rate of the mixer is 10~20% compared with the conventional asynchronous motor drive.
- Large area of water ring cooling, forced internal cooling circulation system, high cooling efficiency.







MAIN TECHNICAL PARAMETER

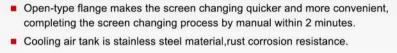
MODEL	MOTOR POWER FOR HOTMIXER (kw)	MOTOR POWER COOLING MIXER (kw)	CAPACITY PER BATCH (kg)	PRODUCTION CAPACITY PER HOUR kg/h
GRH-500/LH1500	99	22	200	1700~2500
GRH-1000/LH300	0 160	37	400	2900~4200

LS-PVC

Granulating production line

MAIN FEATURES

- Optimized screw design, large output, good mixing effe.
- Simple die structure and stable flow avert of the material remaining in the die.







PIRAL COOLING

VIBRATING COOLING

IE HEAD

EXTRUDER

MAIN TECHNICAL PARAMETER

MODEL	OUTPUT (kg/h)	TOTAL INSTALLED POWER (kw)	EXTRUDER	GRANULATING TYPE
LSE-65PVC	280	88	LSE-65	Heat cutting
LSE-80PVC	450	170	LSE-80	Heat cutting
LSE-92PVC	800	250	LSE-92	Heat cutting

LS-PE/PPR

Granulating production line

MAIN FEATURES

- Large L/D ratio screw design, high output, good energy saving effect
- Configuration of double station filter structure
- The die head is simple in structure and easy to clean
- Optional online separate bag filling mechanism









SEWING TYPE PACKING

STORAGE HOPPER

COOLING WATER TANK

DIE HEAD

EXTRUDER

MAIN TECHNICAL PARAMETER

MODEL	OUTPUT (kg/h)	GRANULE SIZE	TOTAL INSTALLED POWER (kw)	EXTRUDER	GRANULATING TYPE
LSZL-65PPR	280	Ø3	88	LSE-65	Cool cutting
LSZL-80PE	450	Ø3	170	LSE-80	Cool cutting
LSZL-100PE	800	Ø3	250	LSE-92	Cool cutting



PROFILES & SHEET EXTRUSION SERIES



45 LS-PVC Window Profile Production Line

47 LS-Aluminum Plastic Composite Panel Production Line

LS-Plastic Sheet Production Line

50 LS-PP Panel Production Line

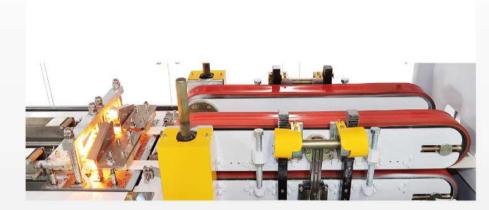
51 LS-Corrugated Tile Production Line



LS-PVC Trunking Production Line

MAIN FEATURES

- High productivity with Max.speed 2*18 m/min.Able to provide single cavity or dual cavities production line as per dimension of product.
- Belt caterpillar type haul-off unit provides with fast and steady hauling, each cavity can be
- Swarfless cutter,low noise,energy saving, precise control in length.





HAUL OFF & CUTTING COMBE UNIT ONLINE STRAPPING PACKAGING MACHINE

MOULD





Able to supply single or dual cavities PVC trunking mould



EXTRUDER







trunking-mold-inner chamber.

SAMPLE







LS-PVC Door

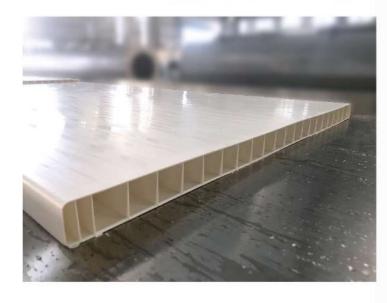
Panel Production Line

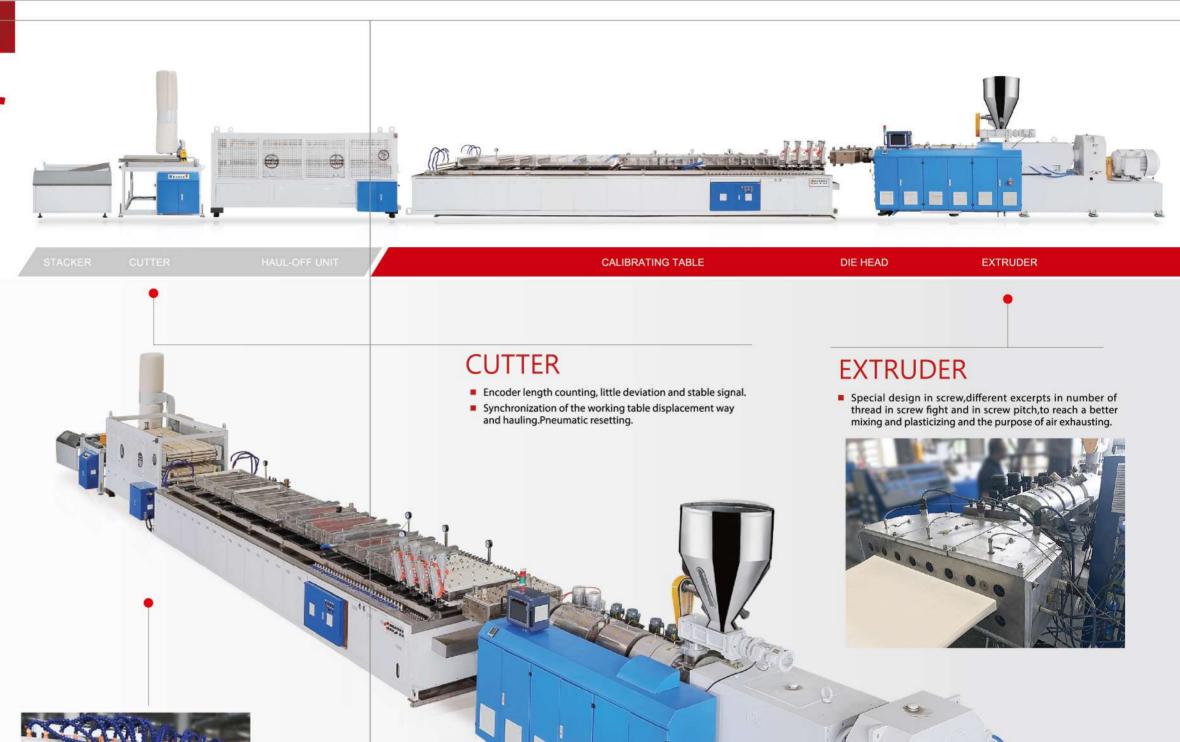
MAIN FEATURES

- Customized downstream as per client's request.
- A equitable vacuum channel, water in and out distribution network, Y type filter equipped.
- Each caterpillar drives independently, providing with sufficient hauling force.













HAUL - OFF UNIT

- Caterpillar pneumatic clamping. The clamping force can be adjusted by the reducing valve.
- The dual caterpillar hauling guarantees sufficient hauling power.
- Encoder length counting, little deviation and stable signal.

- Electric lifting, convenient adjusting, strong vacuum, sufficient water flow, quick calibrating cooling.
- Overall stainless steel structure design, attractive and durable.
- Large area filter, guarantee mold runner smooth.
- Rational distribution of the classification of the connector. Easy and clear operation.

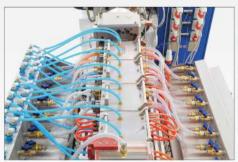


LS-PVC Window

Profile Production Line

MAIN FEATURES

- High efficiency, reliability and easy operation. Customized equipment configurations as per client's request.
- Low -shear, high torque and large L:D ratio, guaranteeing stable extruding.
- High efficiency, energy saving, closed-loop structure of water channel and easy operation design.
- Swarfless cutting, guarantees good incision effect.





CALIBRATING TABLE

- Stainless steel material, durable.
- Quick-forming pipe design, shorten initial commissioning time.
- Quiet design, low noise (77dB) when the whole machine working.
- Smart water pipeline design brings benefits to water pressure loss in oreder to reduce complete line energy consumption.
- Y type filter ensures stable water flows.
 Reasonable layout joint classification, simple and clear operation.
 Four-dimensional adjustable calibrating table structure.



HAUL - OFF & CUTTING UNIT

- Swarfless cutting structure, good synchronization, precise control in length and good cutting quality.
- Each caterpillar drives independently, providing with sufficient hauling force.







MAIN TECHNICAL PARAMETER

MODEL	PRODUCT SERIES (mm)	MAX OUTPUT (kg/h)	MAX HAULING SPEED (m/min)	INSTALLED CAPACITY (kw)	LINE LENGTH (m)	
F-150	150X50	120	12	80	22	
F-250	250X60	250	5.3	120	26	
F-850	850X35	450	5.3	220	25	





EXTRUDER









LS-Aluminum Plastic

Composite Panel Production Line

MAIN FEATURES

- The complete line synchronization is ensured by Siemens Profibus control system.
- Calender roller adopts multi-spiral water channel design, uniform roll surface temperature and efficient cooling.
- High-temperature composite roller adopts multi-spiral water channel design, uniform roll surface temperature enables plastic plate and aluminum plate glued firmly.
- Applicable for aluminum plastic composite panel and PE panel production.





Aluminum-plastic panel-polymer composite composite.



DIE HEAD

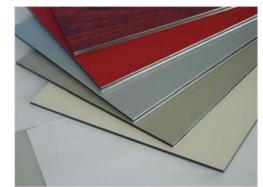
PB-APCP Extruding production line:T mold.

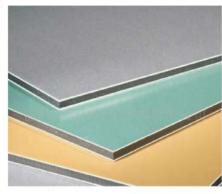


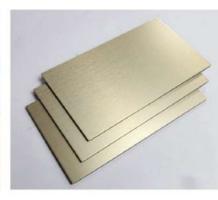
WORKTABLE

MAIN TECHNICAL PARAMETER

MODEL	PRODUCT SPECIFICATION (mm)	THICKNESS (mm)	EXTRUDER MODEL	POWER (kw)	MAX OUTPUT (kg/h)	MAX HAULING SPEED (m/min)	LINE LENGTH (m)	INSTALLED POWER (kw)
LSACP-1300	1300	1-5	LSS150-35	250	500	2.5	48	550
LSACP-1600	1600	1-5	LSS170-35	250	700	2.5	55	650







SAMPLE



LS-Plastic

Sheet Production Line

MAIN FEATURES

On account of the different plastic material, Liansu designs the corresponding screws, ensuring the good plasticizing effect and good product quality. Such as PVC, PP, PE, PS, HIPS, etc.

Canlender roller adopts multi-spiral water channel design, uniform temperature roll surface and

Tri-roll calender adopts independent motor drive, frequency variable speed regulation. Moreover, the panel extension ratio is adjustable.

PANEL PRODUCTION



SHEET





HAUL-OFF&CUTTING UNIT







MAIN TECHNICAL PARAMETER

MODEL	PRODUCT WIDTH (mm)	PRODUCT THICKNESS (mm)	MAX OUTPUT (kg/h)	SPEED OF THE PRODUCTION LINE (m/min)	LINE LENGTH (m)	INSTALLED CAPACITY (kw)
LSP-1200	1200	0.2-3	400	20	30	330
LSP-1600	1600	0.2-3	600	20	35	350
LSB-1500P	VC 1500	0.2-3	600	20	30	410
LSBP-650P	PS/PP 650	0.2-3	250	20	17	190

LS-PP Panel

Production Line

MAIN FEATURES

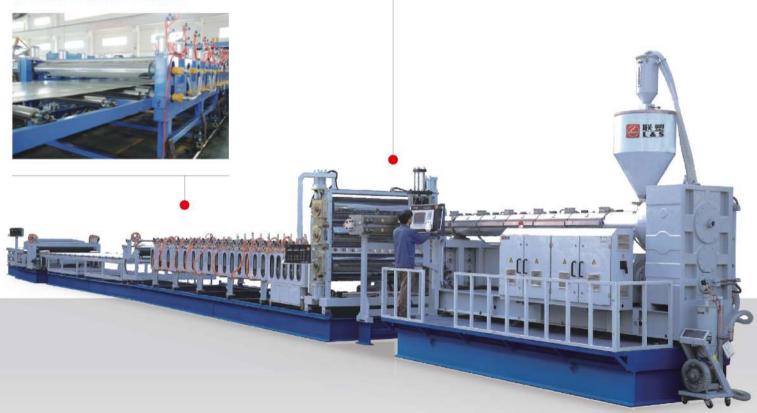
- Special screw design ensures the good plasticizing effect and good panel quality.
- Calender roller adopts multi-spiral water channel design, uniform temperature roll surface and high product surface quality.
- Tri-roll calender adopts independent motor drive, frequency variable speed regulation. Moreover, the panel extension ratio is adjustable.
- Multi-group cooling roll configurations ensure the full cooling of the thick panel.
 Lateral movable cutting device cerrects the panel width timely.
- Equipped with auto vacuum suction device for product stacking.







FORMING UNIT



SAMPLE







MAIN TECHNICAL PARAMETER

MODEL	MAX OUTPUT (kg/h)	PRODUCT SPECIFICATION (mm)	THICKNESS (mm)	INSTALLED CAPACITY (kw)	MAX HAULING SPEED (m/min)
LSB-1500PP	600	1500	3-25	500	2
LSB-1800PP	600	1800	3-25	769	2

LS-Corrugated Tile Production Line

MAIN FEATURES

- Liansu develops special screw for high-filling material production, accordingly to ensure the good plasticizing effect under low cost formular, manufacturing high quality product.
- Cloth-hanger die makes the material flow stably.
- Forming die cools down fast, easy adjustment.
- Hydraulic cutter with speedy & safe cutting and smooth cutting edge.

HAUL - OFF UNIT





EXTRUDER













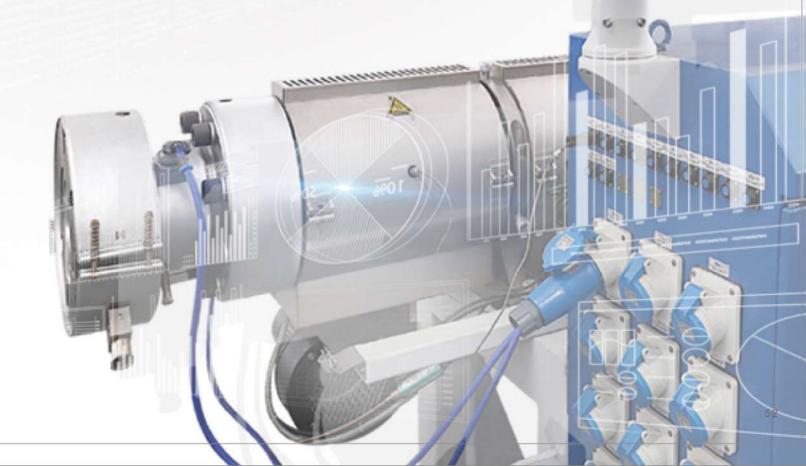
MAIN TECHNICAL PARAMETER

EXTRUDER MODEL		PRODUCT WIDTH (mm)	PRODUCT THICKNESS (mm)	SPEED OF THE PRODUCTION LINE (m/min)	LINE LENGTH (m)	INSTALLED CAPACITY (kw)	
LSBV1050,PC-UV-II	LSS120-35,LSS45-30	1050	0.8-3	0.25-5	18.5	412	
LSB1130PVC	LSE80/156	1130	1-2.5	0.15-3	18.5	180	

AUTOMATIC SERIES

- On-Line Bundling & Bagging Machine
- Automatic Meter-weight Stacker for Plastic Pipe
- FLEXCON Control System
- Plastic Granule Automatic Dosing, Mixing and Conveying System
- Plastic Powder Automatic Dosing, Compound and Conveying System





On-Line

Bundling & Bagging Machine

MAIN FEATURES

- Compact design, less occupies;
- When changing size the adjustment is simple and fast, humannized design;
- Stretch film and packing bag easy to replace;
- Reliable alarm system on the shortage of strech films and packing bag;
- Smart and reliable bundling way.
- Bundling and baging wrapped simultaneously structure simple.
- Bundling and baging adopted Servo control, fast and stable.
- Storage stacker with detect fuction of pipe storage
- Open structure of storage stacker, tube automatic arraying neatly after cutting;

AVAILABLE RANGE

- PVC、PPR straight pipe.
- It can be matched with single pipe, double pipe and four pipe extrusion line.
- Be able to meet the requirement of 20m/min online packing.
- Suitable for plastic film, woven bag and other bagging&packing material.



ONLINE PACKING-CONDUIT







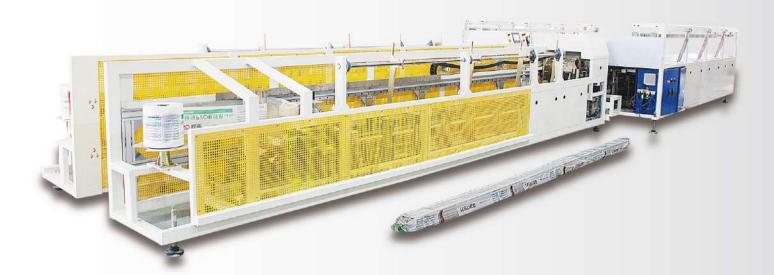






Various packing methods for all kinds of pipes, such as PE bag packing, woven bag sewing&packing, winding&packing, etc., have completed comprehensive serialization, mass production and sales.

TRUNKING BUNDLING, BAGGING&PACKING MACHINE





■ Wire slot series strapping packing machine online

ONLINE FILM STRAPPING MECHANISM FOR PIPES









Automatic Meter-weight Stacker for Plastic Pipe

- Body dimension: 6000*667*1260 (L * W * H), compact size
- The qualified pipe is automatically lifted and stacked to the material cage after cutting.
- Online real-time monitoring of the weight of each pipe, and automatically eliminate the unqualified weight of the pipe.
- Automatically count the qualified and unqualified quantity and weight of pipe
- IPC with 17 inch color touch screen is optional to realize data acquisition and data analysis (IPC) of the whole line.











Flexibility control system

FLEXCON*

Flexible control system integrating extrusion equipment control and production data acquisition and analysis can select data in real-time or user-defined time period for Equipment utilization. Capacity analysis. Energy consumption analysis. Alarm monitoring. Equipment maintenance.

Production data:





机簡進的	D DX							- 31	(alt	具温控	12
温控区段	08	07	06	05	04	03	02	01		inixto	12
温控状态				555		555	555	555	285	PHA	
设定温度	160	160	165	165	175	185	200	200	10	SILLS:	0
实标准度	[167.1]	159.4	165	164.4	177	187.4	197.8	194.8		科温度	1,00
温控开关	<u></u>	<u></u>	<u>>555</u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	13	拉开关	
模員選択	ž (K										
温拉区(9	11	10	09	08	07	06	05	04	03	02	01
温粒状态											
设建温度	0	150	150	0	210	180	175	162	160	160	150
实际温度	1,11	193.4	187.2	11,818	210.3	180.2	175.1	162.6	163.5	160.3	160.8
温控开关	<u>•333</u>	<u> </u>	<u> </u>	• 555 • 555	<u> </u>	<u> </u>	○ 5555 (1)	<u>•</u>	<u> </u>	<u></u>	○ }}}



Plastic Granule Automatic Dosing, Mixing and Conveying System

The granule material conveying system consists of the following units:

Material Feeding station, silo, pneumatic conveying system, multi-component gravimetric blender, dehumidifier, dryer, raw material distribution station, hopper loader, online automatic masterbatch mixing feeding system, and centralized control system.









System introduction:

- In the granule feeding system, various granule materials are poured into the "feeding bucket" through manual debagging feeding or ton bag feeding;
- The granules are conveyed to the large silo for storage through positive or negative pressure pneumatic conveying system;
- The granules are conveyed to the "multi-component gravimetric blender" through the "vacuum pneumatic conveying system". After various granule materials are accurately measured according to the predetermined formula, they are fully mixed;
- The mixture is conveyed by the vacuum pneumatic conveying system to the hot air dryer or dehumidifying dryer to remove the moisture in the raw materials;
- The dried raw materials are conveyed to the "vacuum hopper loader" the extruder or injection molding machine through the "material distribution station" or the pipeline for the extruder or the injection molding machine (for high requirements on masterbatch mixing or products with multiple colors, the volumetric doser" can be used to realize online color mixing);
- It is widely used in the home appliance packaging industry, auto parts packaging, extrusion molding (pipes, profiles and plates) packaging and other plastic molding applications. It adopts a centralized automatic control system to realize data monitoring and management, and provides complete solutions and professional services for intelligent manufacturing.



Mconvey is a brand of LIANSU Machinery, mainly engaged in material handing system and a full range of auxiliary equipments for plastic processing industry. Mconvey provides a customized solution according to user's need. In recent 8 years, Mconvey has successfully built more than 300 complete material handling systems for different industries and provided serbvices for more than 3000 sets of plastic processing equipment.







Loss in Weight Feeder (Granules)



Gravimetric Doser



Gravimetric Metering System



Dehumidifying Dryer







Plastic Powder Automatic Dosing, Compound and Conveying System

The powder feeding system covers the following units:

Feeding station, pneumatic conveying system, weighing scale, auxiliary material dosing scale, exhaust air filter, compound mixer, tube chain conveyor, screw conveyor, gravimetric metering system, online color mixing system, centralized control system.



























Introduction of the powder feeding system

- Bagged main raw materials (in 25kg bags or ton bags) of the powder feeding system are unpacked and fed to the feeding station;
- Powder materials are conveyed to the "weighing scale" through the "pneumatic conveying system" (for some systems, the materials are conveyed from the feeding station to the intermediate storage silo, and then from the intermediate storage silo to the weighing scale);
- Measured powder and formula materials (synchronized by the "formula material dosing scale" or weighed in advance) are conveyed to

 the "compound mixer" by gravity or "screw conveyor";
- All the raw materials are mixed by high speed compound mixer and then conveyed to the top of the "tube chain conveyor" via the
- "pneumatic conveying system" (directly conveyed to the top of the extruder through negative pressure);
- The tube chain conveyor conveys the compound materials to the hopper of the extruder as required;
- It is widely used for pneumatic conveying of powder materials in the fields of PVC pipe, profiles and sheet plastic modified compound
- material food processing, etc. It adopts computer centralized automatic control, realizes data-based centralized feeding and control, and provides solutions for automated production systems.

