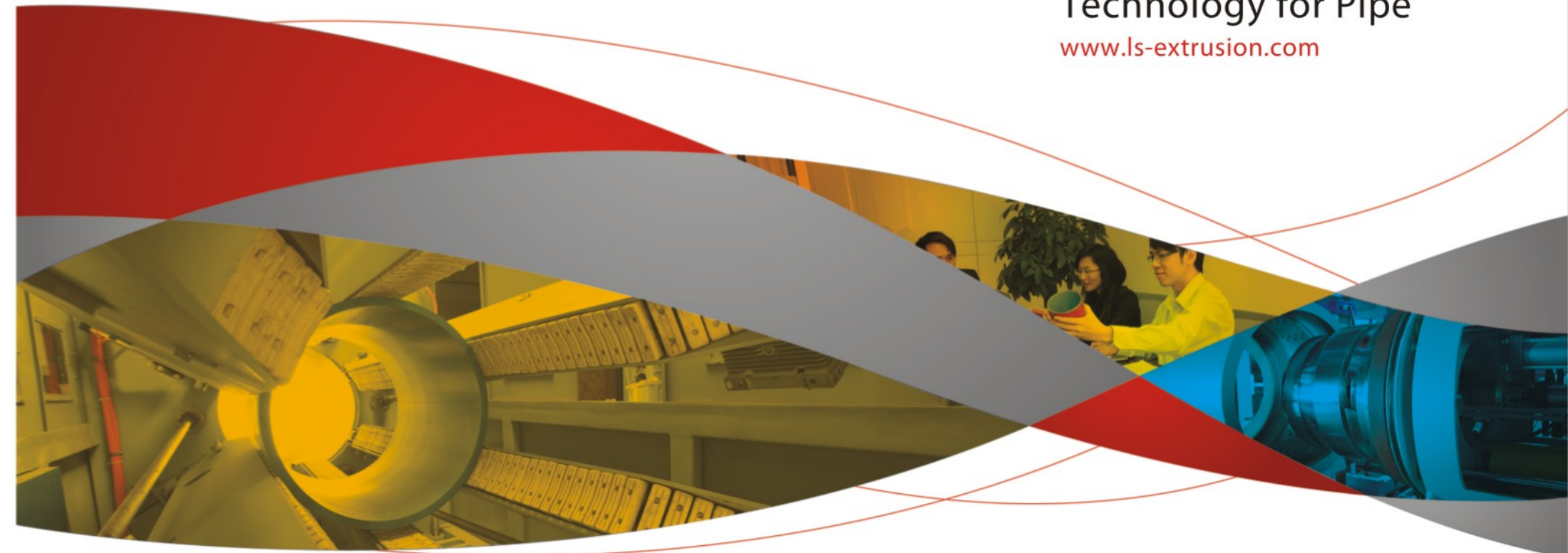




The Extrusion
Technology for Pipe
www.ls-extrusion.com



www.ls-extrusion.com

GUANGDONG LIANSU MACHINERY MANUFACTURING CO.,LTD.

Add: Liansu industrial Area, Longjiang Town, Shunde Section, Foshan City, China
Overseas sales: 0086 757 23888340 Fax: 0086 757 23888558
E-mail: liansu-extrusion@liansu.com PO: 528318

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 pipe

CONTENTS

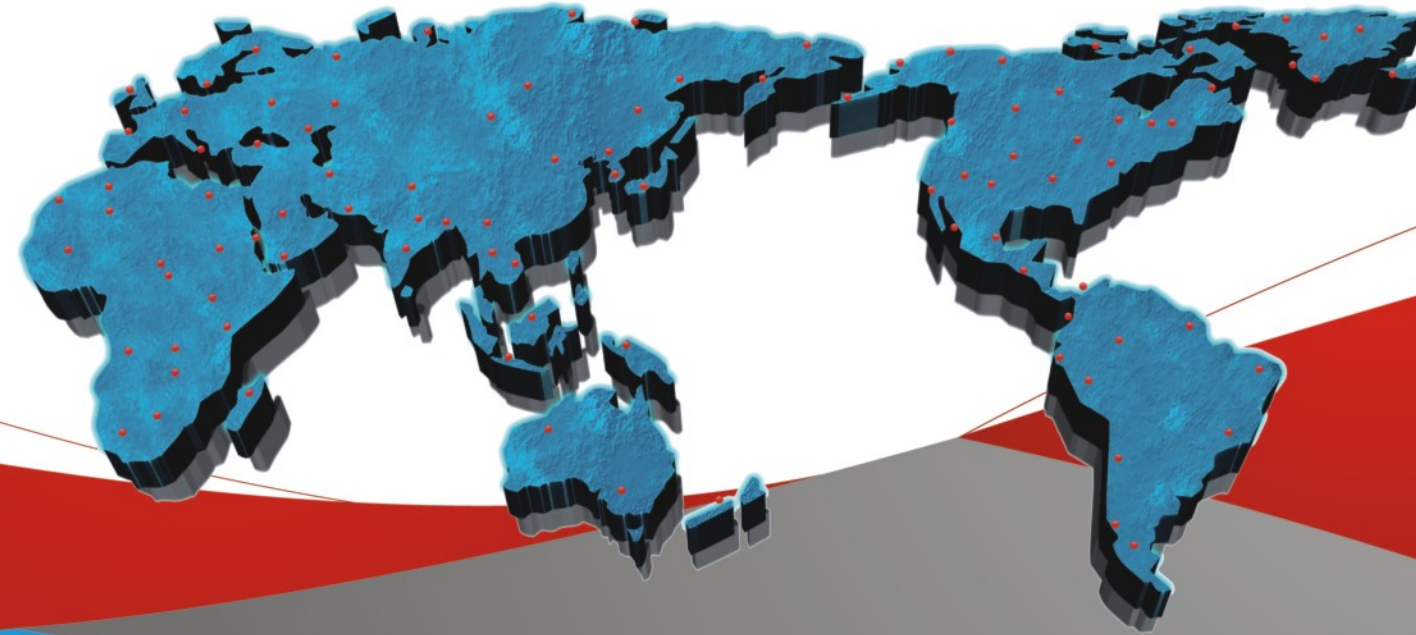
COMPANY PROFILE	02
HONORS & CERTIFICATES	04
LS-PVC/PE TWIN PIPE PRODUCTION LINE	06
LS-PVC FOUR PIPE EXTRUSION LINE FOR CABLE DUCT	08
LS-UPVC PIPE PRODUCTION LINE	10
LS-PPR PIPE PRODUCTION LINE	11
LS-PPR ALUMINUM COMPOSITE PIPE PRODUCTION LINE	12
LS-HDPE PRESSURE WATER AND GAS PIPE EXTRUSION LINE	14
LS-PEX ALUMINUM PLASTIC COMPOSITE PIPE PRODUCTION LINE	15
LS-MULTI LAYER PIPE CO-EXTRUSION LINE	16
LS-SINGLE WALL CORRUGATED PIPE EXTRUSION LINE	17
LS-PVC SOFT HOSE EXTRUSION LINE	18
LS-HDPE/PVC/PP DOUBLE WALL CORRUGATED PIPE EXTRUSION LINE	20
LS-HDPE CORRUGATED CABLE DUCT PRODUCTION LINE	22
LS-PE SPIRAL CORRUGATED PIPE EXTRUSION LINE	23
LS-PE SPIRAL PIPE EXTRUSION LINE	24
LS-STEEL SPIRAL REINFORCED PIPE PRODUCTION LINE	25
LS-TWIN CONICAL SCREW EXTRUDER	26
LS-PARALLEL TWIN-SCREW EXTRUDER	27
LS-GEARLESS SINGLE SCREW EXTRUDER	28
LS-SINGLE SCREW EXTRUDER	29
LS-TANK	30
LS-HAUL-OFF UNIT	31
LS-SAW	32
LS-DOUBLE COILER	33
LS-COMPOUND MIXER	34
LS-SOCKETING MACHINE	36
LS-PIPE EXTRUSION MOULD	38
LS-INJECTION MOULD	40



LIANSU Machine is a high-tech enterprise that specialized in researching, developing and manufacturing plastic extrusion equipments, extrusion moulds and injection fitting mould. It bears complete and advanced systems in developing, manufacturing ,testing and service. LIANSU Machinery Company always insists on its business policy: customer's satisfaction is ultimate target , making effort to improve the technology and the service system, build up the world's first class brand name. The high quality single screw extrusion technology, newly developed Gearless single screw extruder, multilayer pipe head, high speed HDPE pipe production line..etc;



Management & Goingscale & Innovation



LIANSU Machinery Company owns an excellent service team that leaded by professional engineers. Upto now we have over 50staffs offering the service to the worldwide customers .All the equipments must be undertaking strict commissioning and test before machine delivery. Company also responsible the commissioning and training on customer?s site until they are completely satisfied. LIANSU machinery company not only inherits the conventional good after sales service, (offering maintainence of equipment as well as accessories) , but also professionally provides them project analysis, share the market information, investment proposal and production experience. It is quite evident that LIANSU Machinery Company is and will be always putting customer's interest on the first position, 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 our-self at the leading position in the plastic industry.

LIANSU makes high quality of Plastic pipe production line for water supply system, Sewage system, Irrigation system, gas system, Plastic Profile extrusion line, Plastic sheet & Pannel production line, cast film production line, turn-key project on various of WPC profile, recycle system;. LIANSU has established an international-level research and development center with a large investment to enhance its independent research and development ability and to keep step with the world, it has members over 100 persons formed by doctors, masters, senior engineers, engineers, standing consultants, experts etc.,

Company Profile

HONORS & CERTIFICATES

- 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

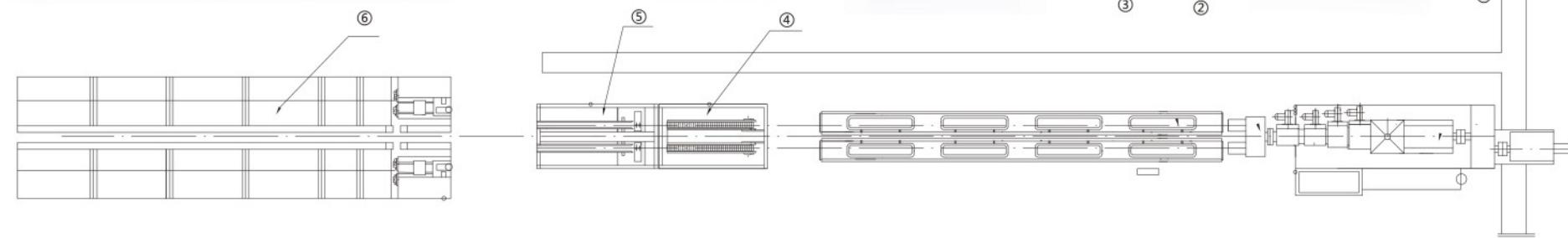


- In 2004, large diameter hollow spiral pipe production line as the science and technology critical project of Ministry of Construction.
- In 2006, "Technology research on PE spiral pipe internal and external thread connecting " gains the Shunde District financial support for the major technology project.
- 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.



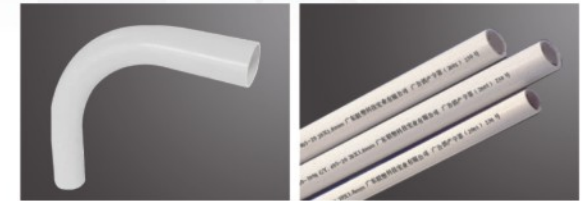
- First passed the ISO9002 quality certification system in the industry in 1998
- Passed the ISO9002 quality certification system again in 2002
- Pass the QEO trinity, namely quality, safety and environmental audit system in 2004
- CE certificate

LS-PVC/PE Twin-Pipe Production Line



LAYOUT

- 1. Extruder
- 2. Die
- 3. Vacuum calibration unit
- 4. Haul off unit
- 5. Cutting unit
- 6. Stacker



Main Features

- Extruder is parallel twin-screw/conical twin-screw extruder applicable, with good plasticizing effect, low energy-consumption, ensuring the stable extrusion.
- Extrusion mould is twin pipe lead design, with high output, good gowod plasticizing effect and stable extrusion.
- Separate caterpillar, separate control design ensures stability of speedy manufacturing, meanwhile ensures the speedy cutting pipe of required length, moreover the cutting blade is designed for pipe of difference thickness.



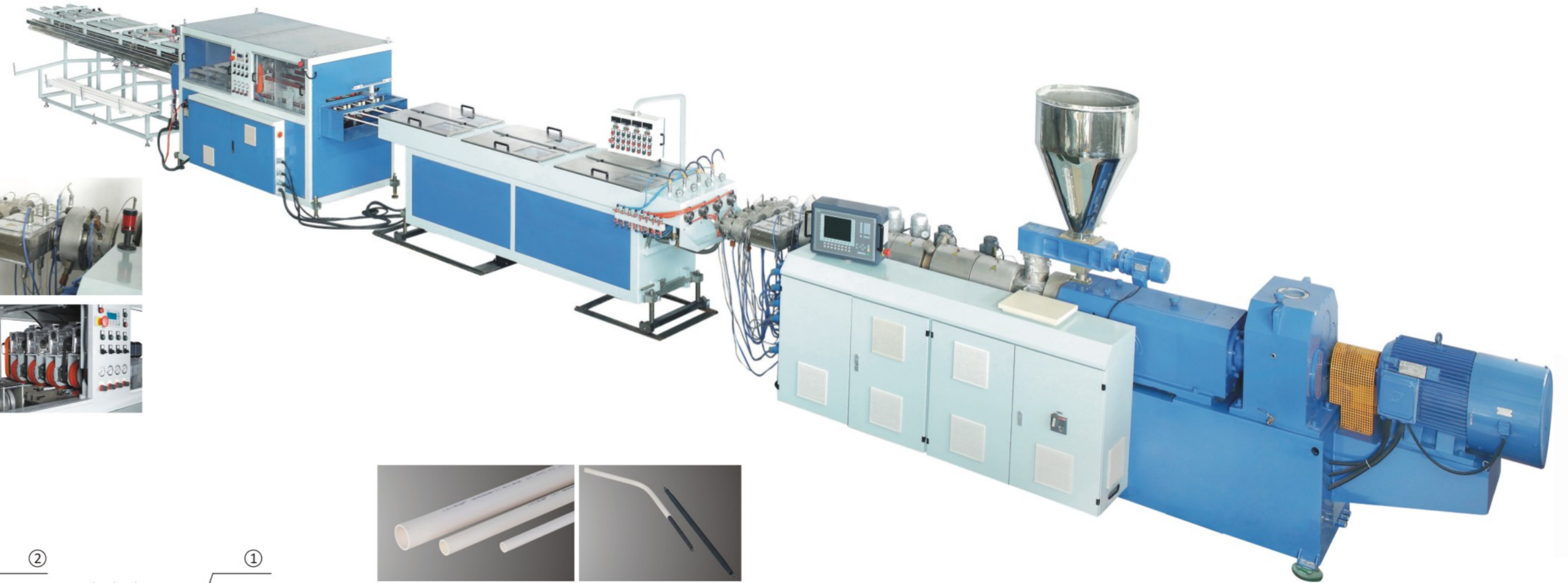
Main Technical Parameter

MODEL	LSDP-63 PVC	LSDP-75PVC	LSDP-110PVC	LSDP-63PE
PIPE RANGE (MM)	Ø16 - Ø63	Ø16 - Ø75	Ø50 - Ø110	Ø16 - Ø63
EXTRUDER MODEL	LSE-65/132	LSE-65/132	LSE-80/156	LSS80-35
MAX OUTPUT (KG/H)	250	250	450	500
MAX HAULING SPEED(M/MIN)	16	12	6	16
TOTAL INSTALLED POWER (KW)	110	110	200	250
LINE LENGTH (M)	23	23	26	36

LS-PVC FOUR PIPE Extrusion Line For Cableduct

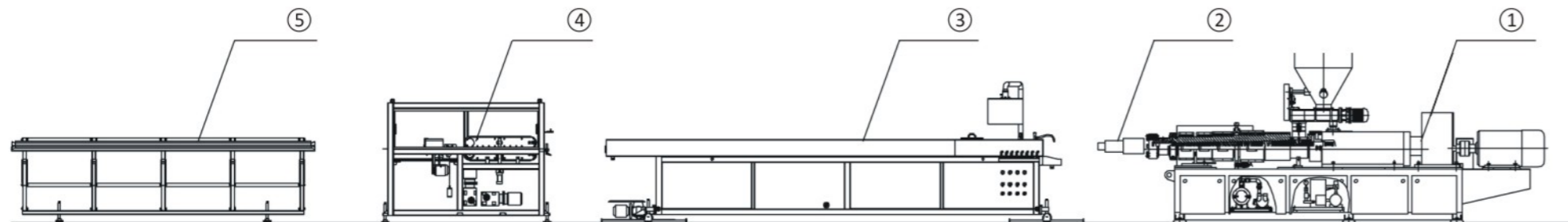
Main Features

- One mould extrude 4 pipes, a production line produces 4 pipes at the same time in high efficiency.
- Every part of the production line is separate control, such as vacuum, haul-off, cutting and stacking, which are independent from each other, and it is easy in operation.
- With fast linear speed up to 18M/MIN, take $\phi 16 \times 1.5$ for example, it is up to 60-70M/min.
- Unique cutting structure, small size, fast cutting speed, smooth incision, no need of secondary processing.



LAYOUT

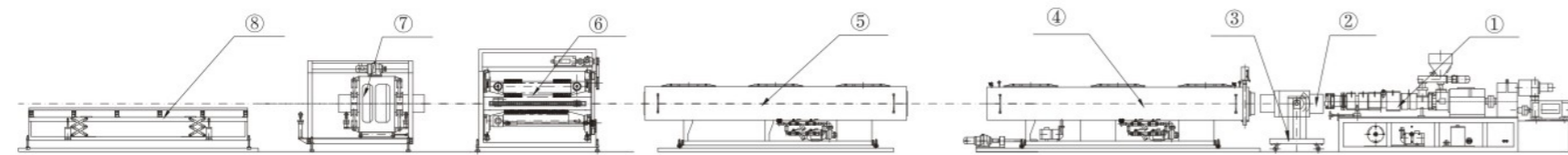
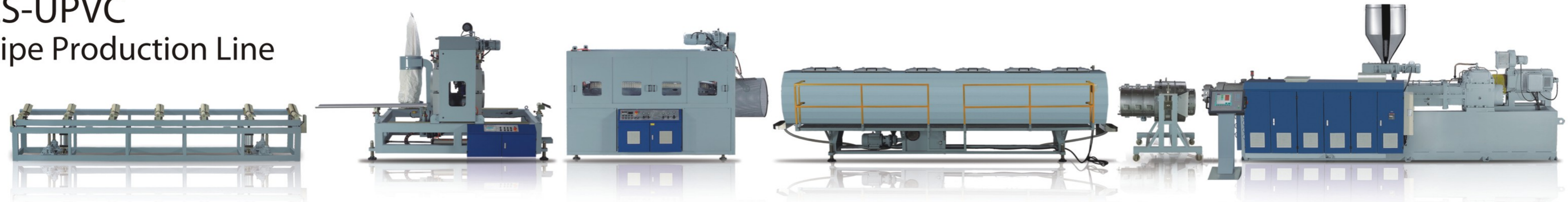
1. Extruder
2. Mould
3. Vacuum calibration unit
4. Haul-off & Cutting Combined Unit
5. Stacker



Main Technical Parameter

Model	Extruder model	Max hauling speed(m/min)	Max output (kg/h)	Total Installed power (kw)	Line length (m)
LSFP-32PVC	LSE-80	18	400-450	150	25X1.5X2.6

LS-UPVC Pipe Production Line



LAYOUT

- 1. Extruder
- 2. Die
- 3. Trolley
- 4. Vacuum calibration unit
- 5. Spray tank
- 6. Haul off unit
- 7. Cutting unit
- 8. Stacker



Main Features

- Specified screw design for better material plasticizing & mixing effect and lower cost formula.
- Higher density and stronger mechanical properties of the pipe as a result of large compression ratio of mold design.
- More stable and reliable hauling, no deformation, multi-caterpillar structure of haul-off unit, suitable for different size range.
- Planetary cutting with chamfering function for stable & reliable cutting and precise length-counting.

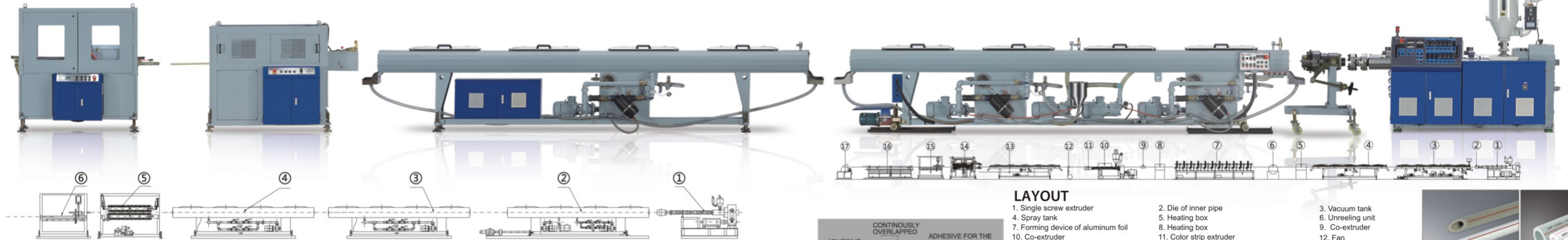


Main Technical Parameter

Model	LSP-75PVC	LSP-110PVC-I	LSP-110PVC-II	LSP-160PVC	LSP-250PVC-I	LSP-250PVC-II	LSP-400PVC	LSP-630PVC	LSP-800PVC	LSP-1000PVC
Pipe range (mm)	Ø16-Ø75	Ø20-Ø110	Ø20-Ø110	Ø40-Ø160	Ø50-Ø250	Ø50-Ø250	Ø110-Ø400	Ø110-Ø630	Ø280-Ø800	Ø630-Ø1000
Extruder model	LSE-45	LSE-45	LSE-65	LSE-65	LSE-65	LSE-80	LSE-80	LSE-92	LSE-95	LSE-95
Max output (kg/h)	120	120	250	250	250	450	450	750	1000	1000
Max hauling speed(m/min)	15	10	10	8	7	7	2.4	2	1	0.8
Total Installed power (kw)	75	80	110	120	130	185	240	330	380	420
Line length (m)	24	24	25	25	25	25	32	33	46	50

LS-PPR Pipe Production Line

LS-PPR Aluminum Composite Pipe Production Line



Main Features

- Specified screw design for better material plasticizing & mixing effect so as to guarantee the good quality pipe manufacturing.
- Filter type die structure for material further plasticizing, manufacturing pipe of better mechanical properties
- Cooling calibrators with water ring speeded up linear speed of 30-40%.
- Automatic control of water level and water temperature to avert of PPR pipe brittle cracking during the application procedure.
- Full-automation swarfless cutting unit, featured with speedy & smoothly cutting, no swarf produced.

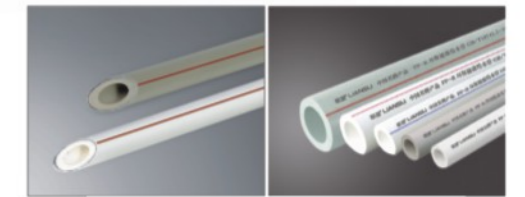
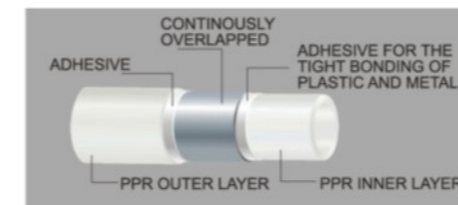
LAYOUT

- 1. Single screw extruder
- 2. Vacuum calibration
- 3. Spray tank
- 4. Haul off unit
- 5. Haul off unit
- 6. Cutting unit



LAYOUT

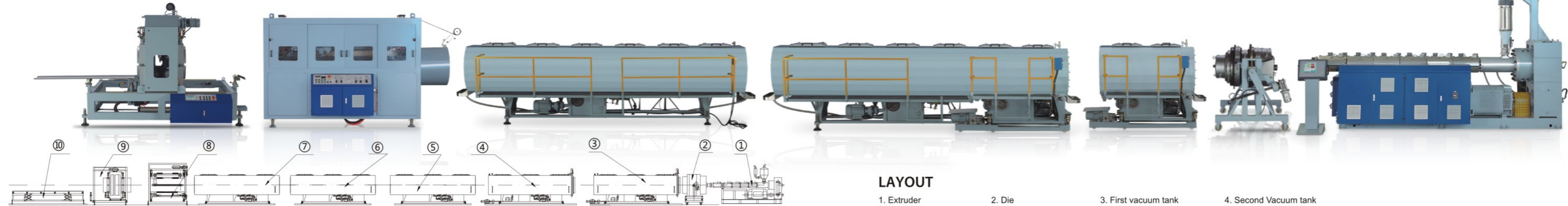
- 1. Single screw extruder
- 2. Die of inner pipe
- 3. Vacuum tank
- 4. Spray tank
- 5. Heating box
- 6. Unreeling unit
- 7. Forming device of aluminum foil
- 8. Heating box
- 9. Co-extruder
- 10. Co-extruder
- 11. Color strip extruder
- 12. Fan
- 13. Spray tank
- 14. Haul off unit
- 15. Cutting unit
- 16. Stacker
- 17. Planer



Main Technical Parameter

MODEL	LSP-63PPR	LSP-110-PPR	LSP-160-PPR
PIPE RANGE (MM)	Ø16-Ø63	Ø20-Ø110	Ø40-Ø160
EXTRUDER MODEL	LSS-65-34	LSS-80-34	LSE-80-34
MAX OUTPUT (KG/H)	180	280	280
MAX HAULING SPEED(M/MIN)	15	8	8
TOTAL INSTALLED POWER (KW)	120	220	230
LINE LENGTH (M)	37	39	39

LS-HDPE Pressure Water and Gas Pipe Extrusion Line



Main Features

- Specified screw design, with excellent plasticizing & mixing effect, high output and low energy-consumption/ unit of product.
- Spiral die design for material further plasticizing, so as to ensure the mechanical properties of pipe
- Die structure of core exhausting, quickening pipe inner wall cooling.
- Wave-shaped groove of calibrator makes the calibrator inner diameter adjustable within certain limits to adapt to the different shrinkage rate of different materials.
- Vacuum tank, applied of circular setting pallet, prevents pipe deformation because of its deadweight.
- Multi-caterpillar haul-off unit with separate motor, with wider hauling range and more stable & reliable hauling.
- The production line can be widely used in water pipes, gas pipes and other fields.

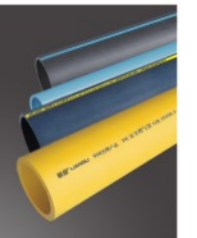


LAYOUT

- | | | | |
|-------------------|------------------|----------------------|-----------------------|
| 1. Extruder | 2. Die | 3. First vacuum tank | 4. Second Vacuum tank |
| 5/6/7. Spray tank | 8. Haul off unit | 9. Saw | 10. Stacker |

Main Technical Parameter

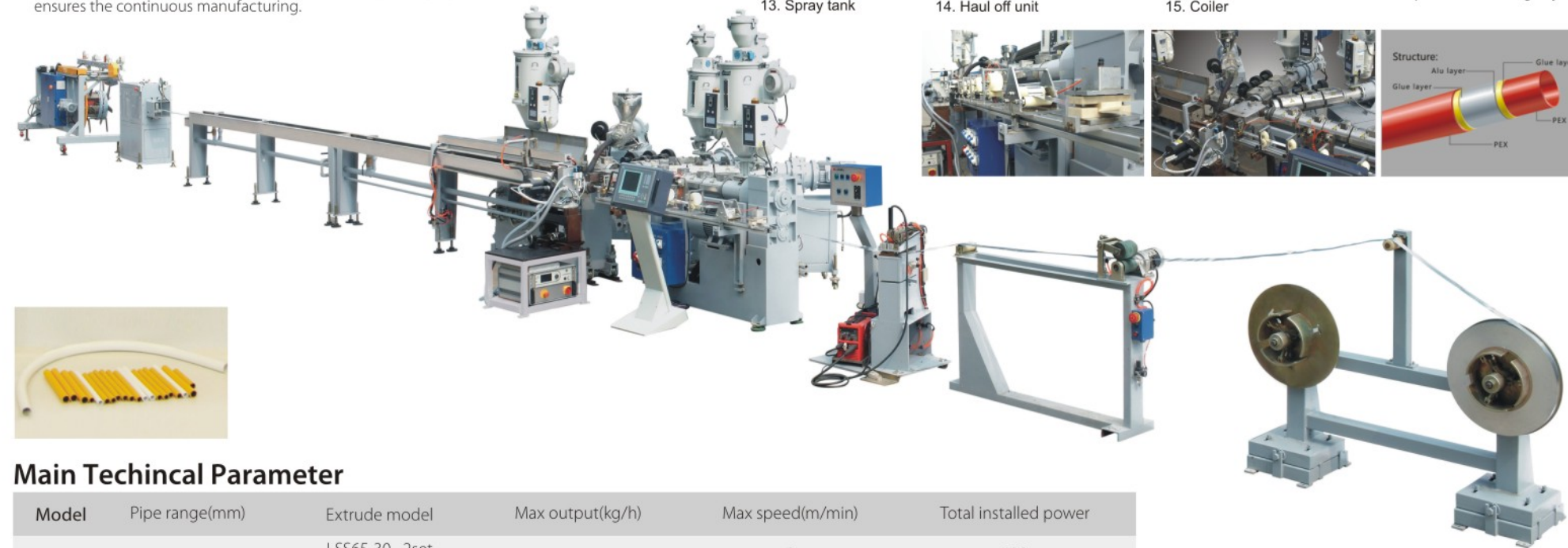
Model	LSP-63PE	LSP-110PE	LSP-160PE-I	LSP-160PE-II	LSP-160PE-III	LSP-250PE	LSP-250PE-II	LSP-450PE	LSP-630PE	LSP-800PE	LSP-1000PE	LSP-1200PE	LSP-1600PE
Pipe range (mm)	Ø20-Ø63	Ø20-Ø110	Ø40-Ø160	Ø40-Ø160	Ø20-Ø160	Ø50-Ø250	Ø50-Ø250	Ø110-Ø450	Ø110-Ø630	Ø280-Ø800	Ø400-Ø1000	Ø630-Ø1200	Ø1000-Ø1100
Extruder model	LSS45-34	LSS65-35	LSS80-34	LSS65-35	LSS65-35	LSS80-34	LSS80-35	LSS100-34	LSS120-33	LSS120-33	LSS150-34	LSS150-34	LSS150-34
Max output (kg/h)	230	350	420	350	350	420	550	750	1000	1000	1200	1200	1400
Max hauling speed(m/min)	16	15	8	8	8	7	7	2.4	2	1	0.8	0.5	0.3
Total Installed power (kw)	120	180	220	190	190	220	250	360	480	550	700	750	900
Line length (m)	35	45	45	45	45	45	45	46	55	58	58	58	60



LS-PE/PEX-Aluminum Plastic Composite Pipe Production Line

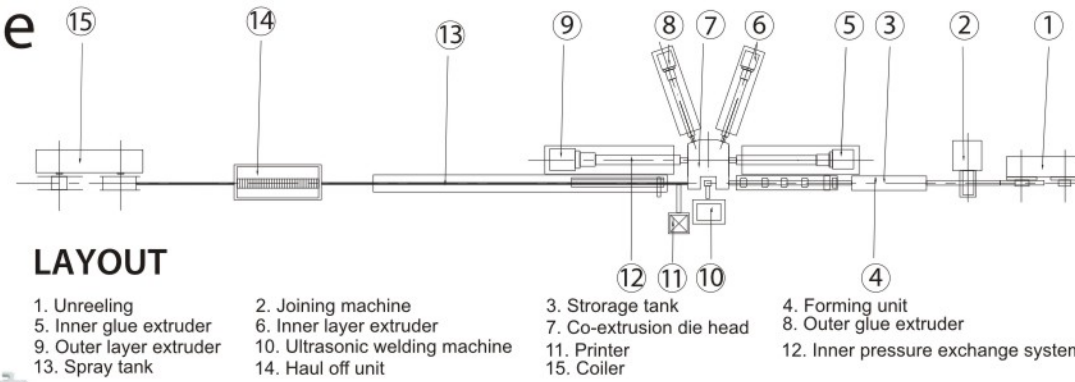
Main Features

Extrusion die: unique co-extrusion technology ensures the high-quality and stable co-extrusion; application of ultrasonic welding unit with stable performance, flat welding and good quality. Aluminium strip assist equipments: Equipped with aluminium strip connection machine to ensure the aluminium strip welding in high quality and manufacturing in continuous state, furthermore, aluminium sheet forming platform ensures the aluminium strip forms well. Double-station winder: with auto correcting, auto displacement and auto discharge function, which help to save time and labor. This set is with tension adjusting function to ensure the winding quality, furthermore the station speedy changing function ensures the continuous manufacturing.



Main Technical Parameter

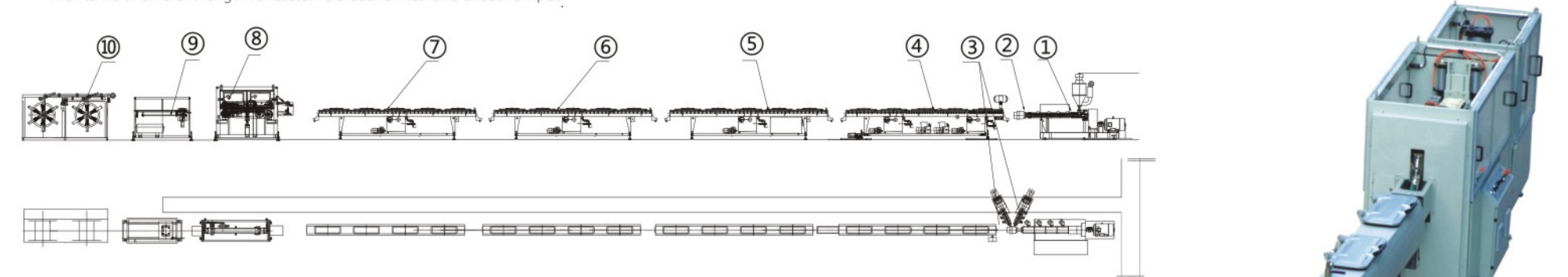
Model	Pipe range(mm)	Extrude model	Max output(kg/h)	Max speed(m/min)	Total installed power
LSAP-32	Ø14-Ø32	LSS65-30 2set LSS40-25 2set	200	9	180
LSAP-63	Ø20-Ø63	LSS65-30 2set LSS45-30 2set	200	8	195



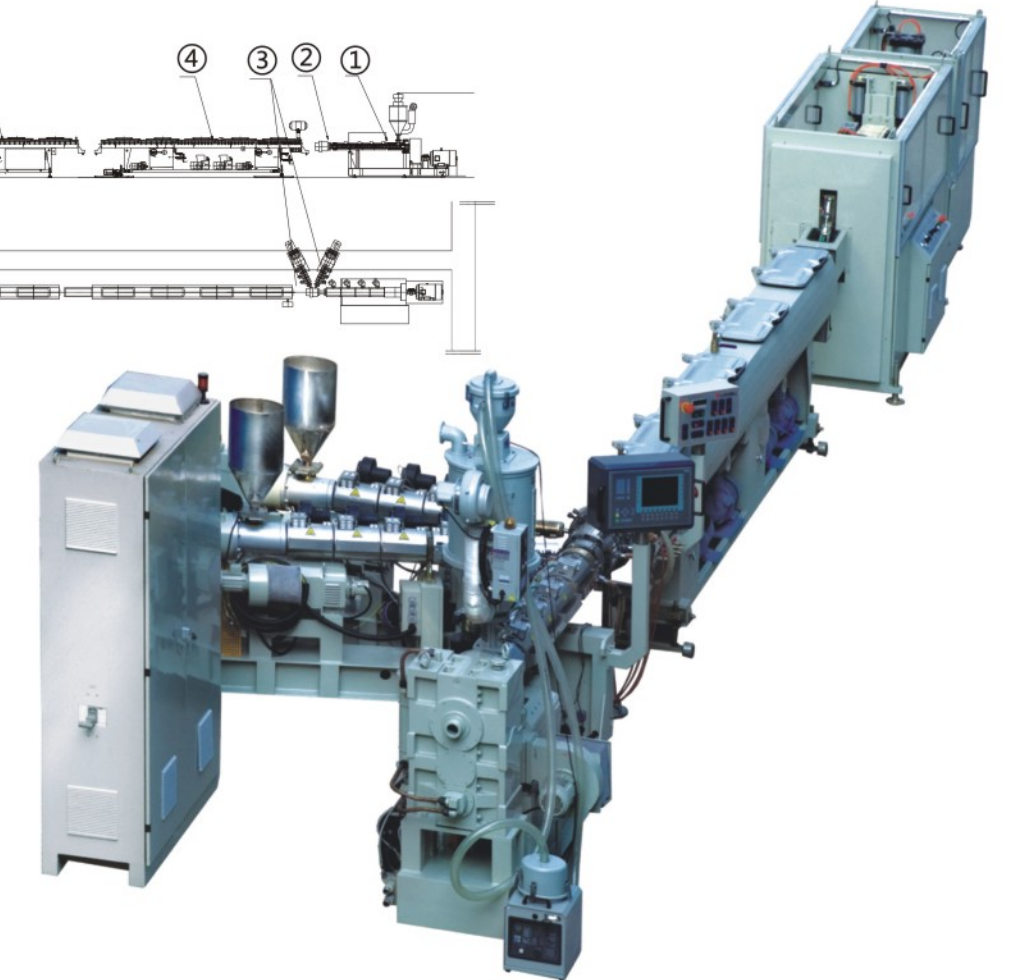
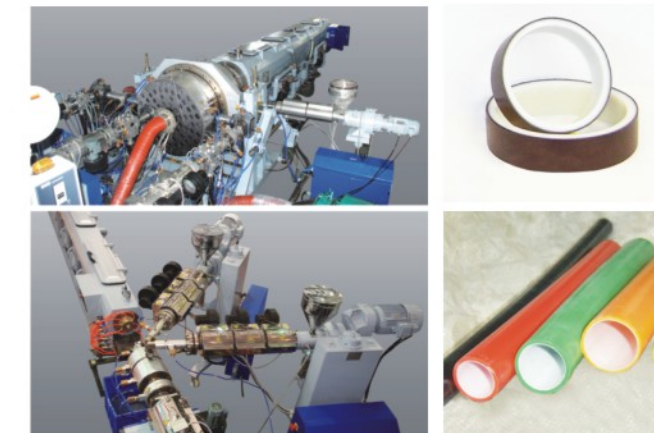
LS-Multi Layer Pipe Co-extrusion Line

Main Features

- It's applicable for PE(PERT/PPR/PEX/PB)AD/EVOH production.
- Base on customer's different requirement on output, Liansu equipped the machine with tanks of different-length for customers' economical and effective input.



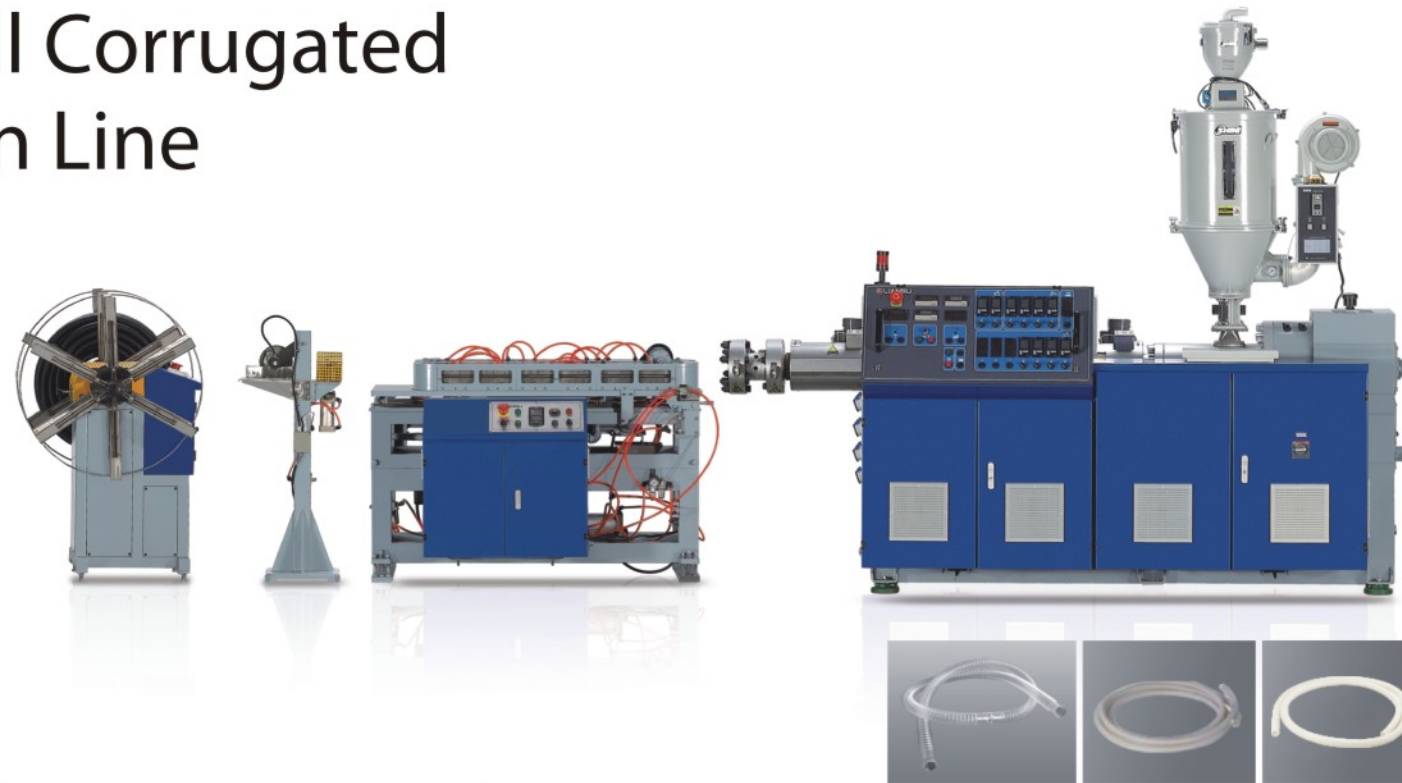
- LAYOUT**
1. Single screw extruder
 2. Die
 3. Co extruder
 4. Vacuum calibration unit
 5. Cooling tank
 6. Cooling tank
 7. Cooling tank
 8. Haul off unit
 9. Cutting unit
 10. Coiler



LS-Single Wall Corrugated Pipe Extrusion Line

Main Features

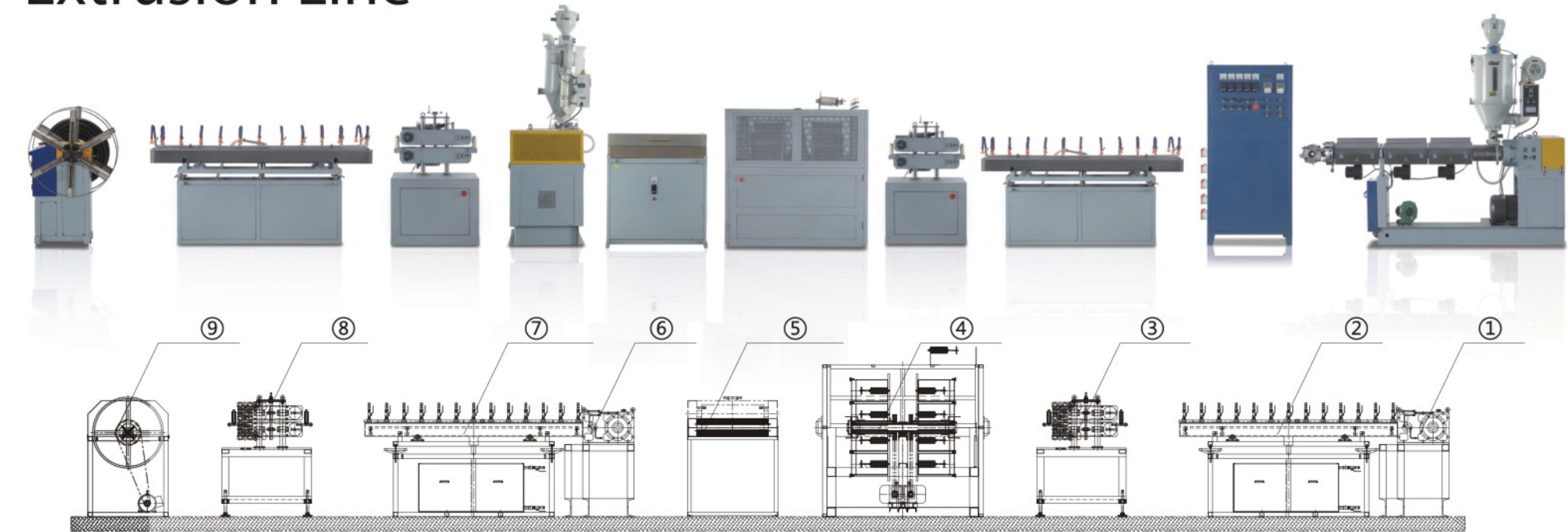
- Enclosed track design and no chain connected between mold blocks to facilitate the replacement of mold block.
- Mold block is through 40Cr nitrogen treatment, more wear-resistant, durable.
- Pipe forming by air pressure.
- Corrugator is with protection device for power cut off and axis broke off, the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



Main Technical Parameter

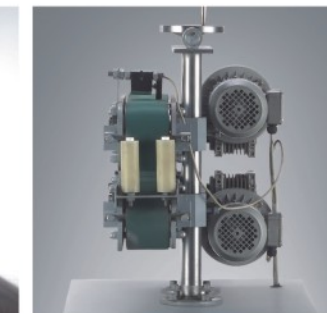
Model	LSBP-50PE	LSBP-50PVC
Pipe range (mm)	Ø20 - Ø50	Ø20 - Ø50
Extruder model	LSS65-30	LSE-45
Max output (kg/h)	100	90
Max hauling speed(m/min)	35	15
Total Installed power (kw)	75	60
Line length (m)	10	10

LS-PVC Soft Hose Extrusion Line



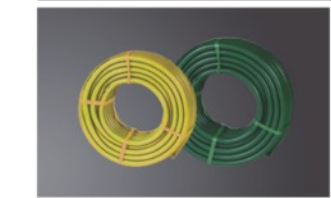
Main Features

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



LAYOUT

1. Extruder
2. Cooling bath
3. Haul off
4. Fiber forming
5. Heater
6. Co-Extruder
7. Haul off
8. Cooling bath
9. Coiler



LS-HDPE/PVC/PP Double-wall Corrugated Pipe Extrusion Line

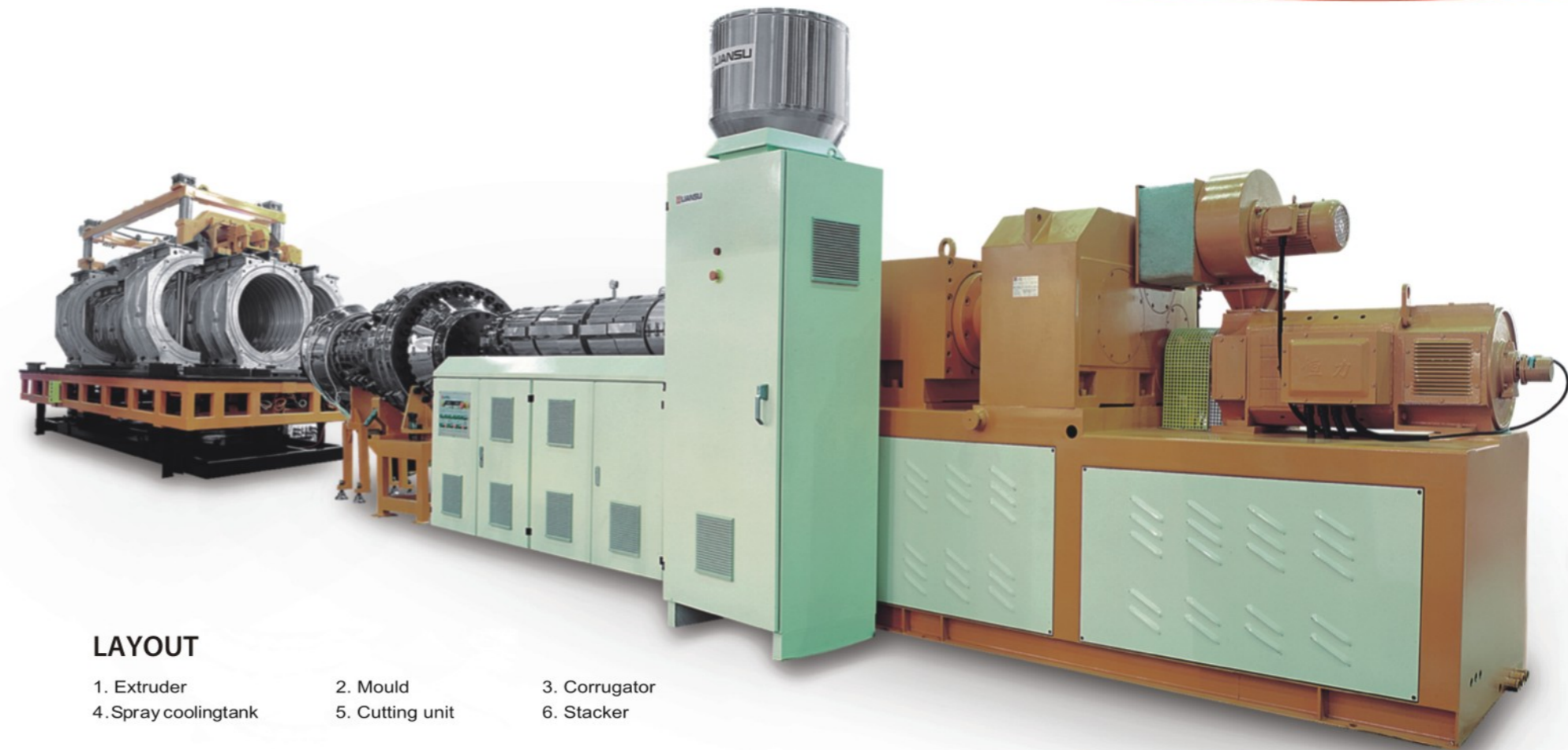
Main Features

- Shuttle transmission design, vacuum setting system and aluminum alloy forming mold block, are applied of SIEMENS SIMOTION-D motion control, with more precision control.
- Forming mold block is water cooling, with better cooling effect.
- Pipe is vacuum forming.
- Corrugator is applied of imported charging device, battery free of maintenance function, in a case that the power is off, the working platform still can set back to disconnect the mold block and machine head.
- Water jacket is made of aluminium alloy plating steel, with better heat-conducting capacity.



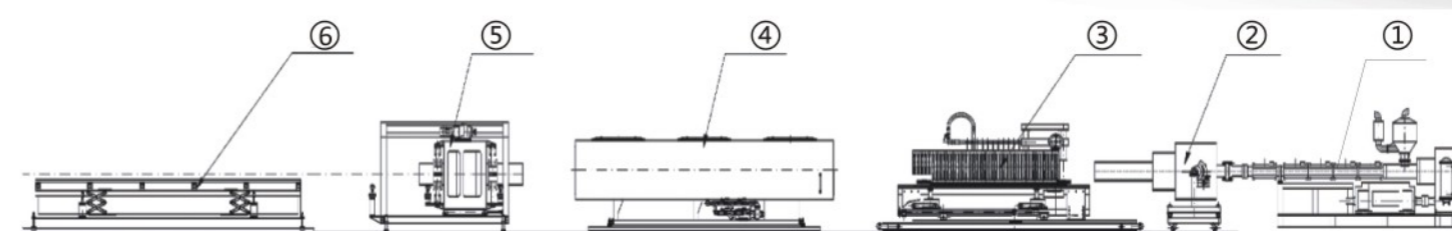
Main Technical Parameter

Model	LSBP-160PE	LSBP-225PE	LSBP-400PE	LSBP-800PE	LSBP-160PVC	LSBP-200PVC	LSBP-500PVC	LSBP-1000PVC
Pipe range (mm)	Ø75-Ø160	Ø90-Ø225	Ø200-Ø400	Ø600-Ø800	Ø75-Ø160	Ø110-Ø200	Ø200-Ø500	Ø630-Ø1000
Extruder model	LSS-65-34 LSS-80-34	LSS-65-34 LSS-80-34	LSS-80-34 LSS-65-34	LSS-80-34 LSS-100-34	LSE-65	LSE-65	LSE-92	LSE-95
Max output (kg/h)	600	600	800	900	200	200	550	1000
Max hauling speed(m/min)	7	7	4.5	1	6	6	4.5	1
Total Installed power (kw)	280	300	350	620	130	130	300	460
Line length (m)	23	23	23	32	23	23	25	37

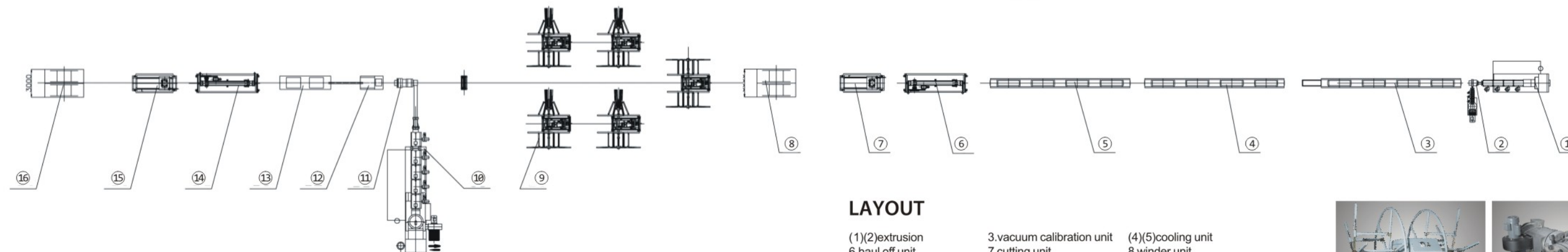
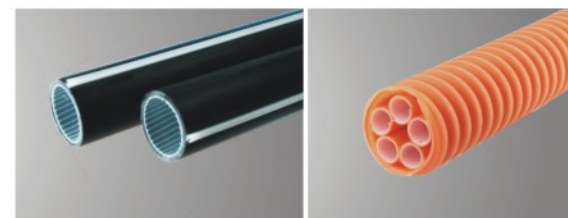
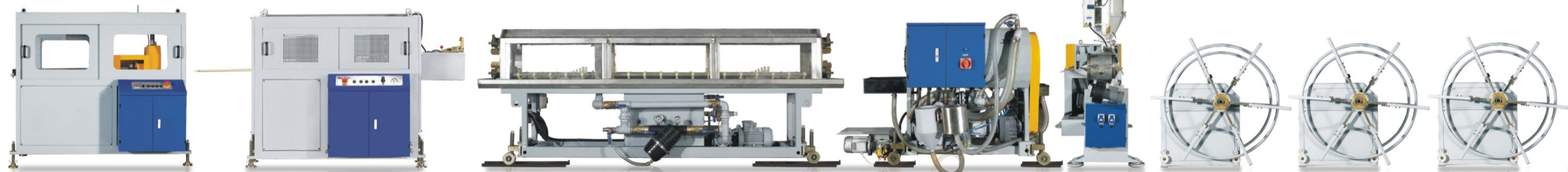


LAYOUT

1. Extruder
2. Mould
3. Corrugator
4. Spray cooling tank
5. Cutting unit
6. Stacker



LS-HDPE Corrugated Cable Duct Production Line



Main Features

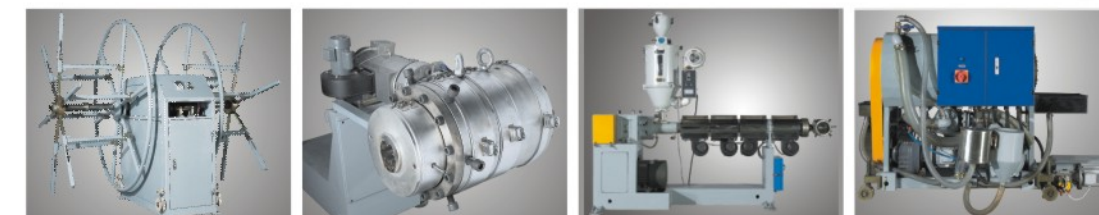
- Separate type+mixing head screw structure makes better plastication and mixing effect.
- Internal pipe inner wall is silicon layer co-extruded, so anti-electromagnetic interference for this pipe is available.
- External pipe single-wall spiral structure makes the pipe higher anti-bending and compression resistance strength.
- Several small pipes is including inside a big pipe, and every communication cable is separated, so the cables is independently from each other.

Main Technical Parameter

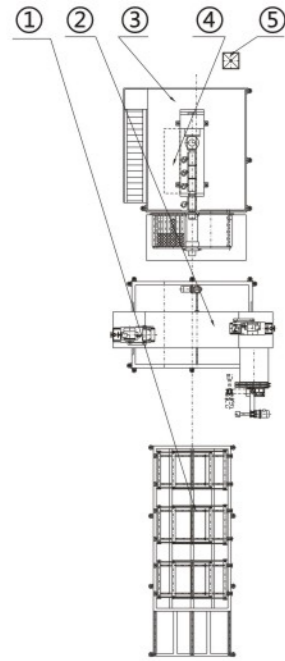
Model	Extruder model	Max output (kg/h)	Total Installed power (kw)	Line length (m)
LSP110-PE	LSS65-34 2set LSS45-30 1set	400-500	300	45X8X4

LAYOUT

- (1)(2)extrusion
- 6.haul off unit
- 9.unreeling pipe machine
- 12.vacuum calibration unit
- 15.cutting unit
- 3.vacuum calibration unit
- 7 cutting unit
- 10. Extruder
- 13.spray tank
- 16.winder
- (4)(5)cooling unit
- 8 winder unit
- 11. Mould
- 14.haul off unit



LS-PE Spiral Corrugated Pipe Extrusion Line



Main Features

Introduced the advanced technology from Korea, combined with years of pipe manufacturing experience and with reasonable design, Linasu spiral corrugated pipe line is distinct in high output, high production efficiency, stable running, low unit meter weight, excellent ring stiffness, convenient connection and economical construction, etc..

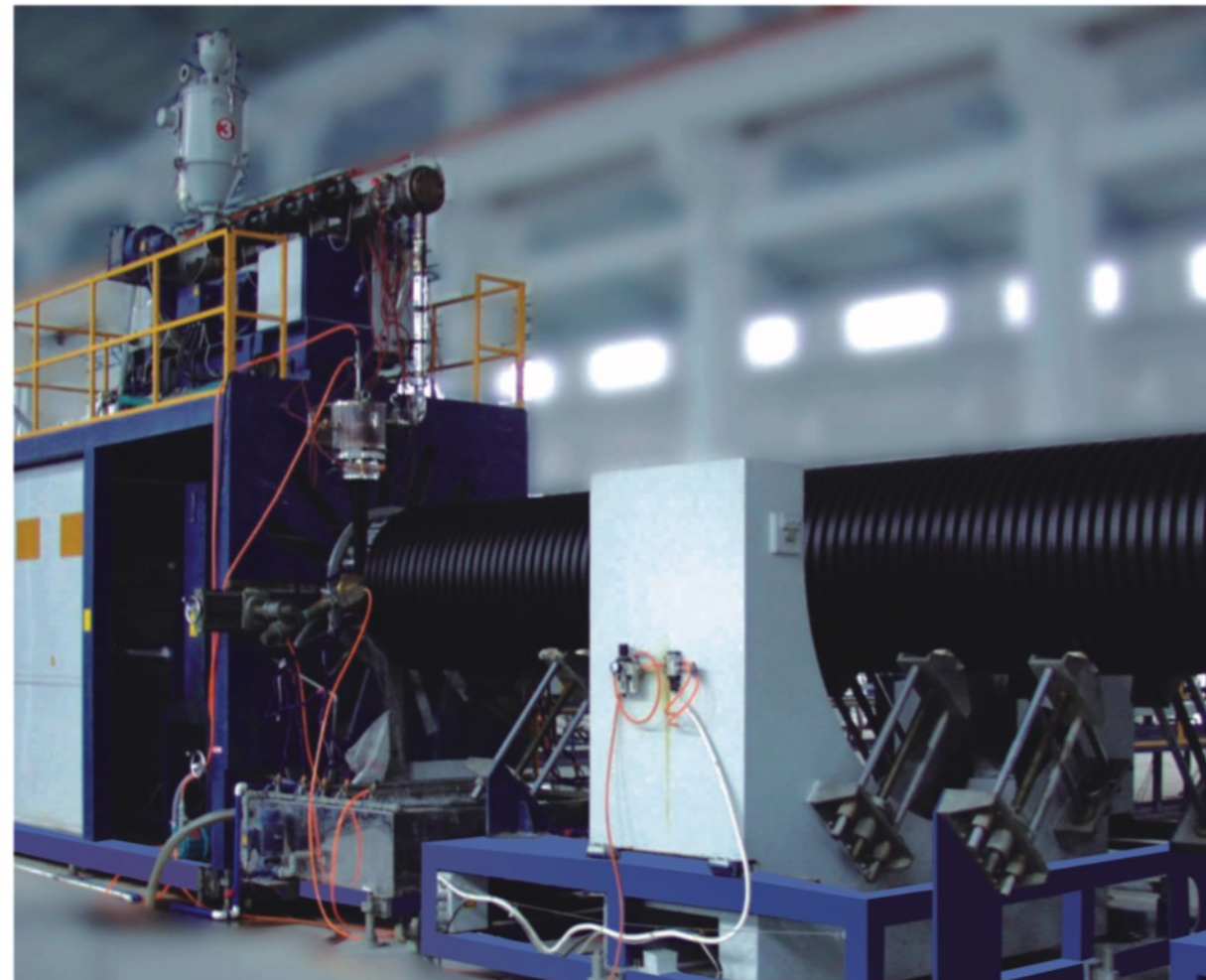


LAYOUT

1. Stacker
2. Spiral cutting machine
3. Forming machine
4. Co-extruder
5. Feeder

Main Technical Parameter

Model	LS-1500SCP	LS-2000SCP
Pipe range (mm)	Ø800-Ø1500	Ø800-Ø2000
Extruder model	LSS-80-34	LSS-100-34
Max output (m/min)	350	500
Total Installed power (kw)	180	260



LS-PE Spiral Pipe Extrusion 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 corrugator production span.

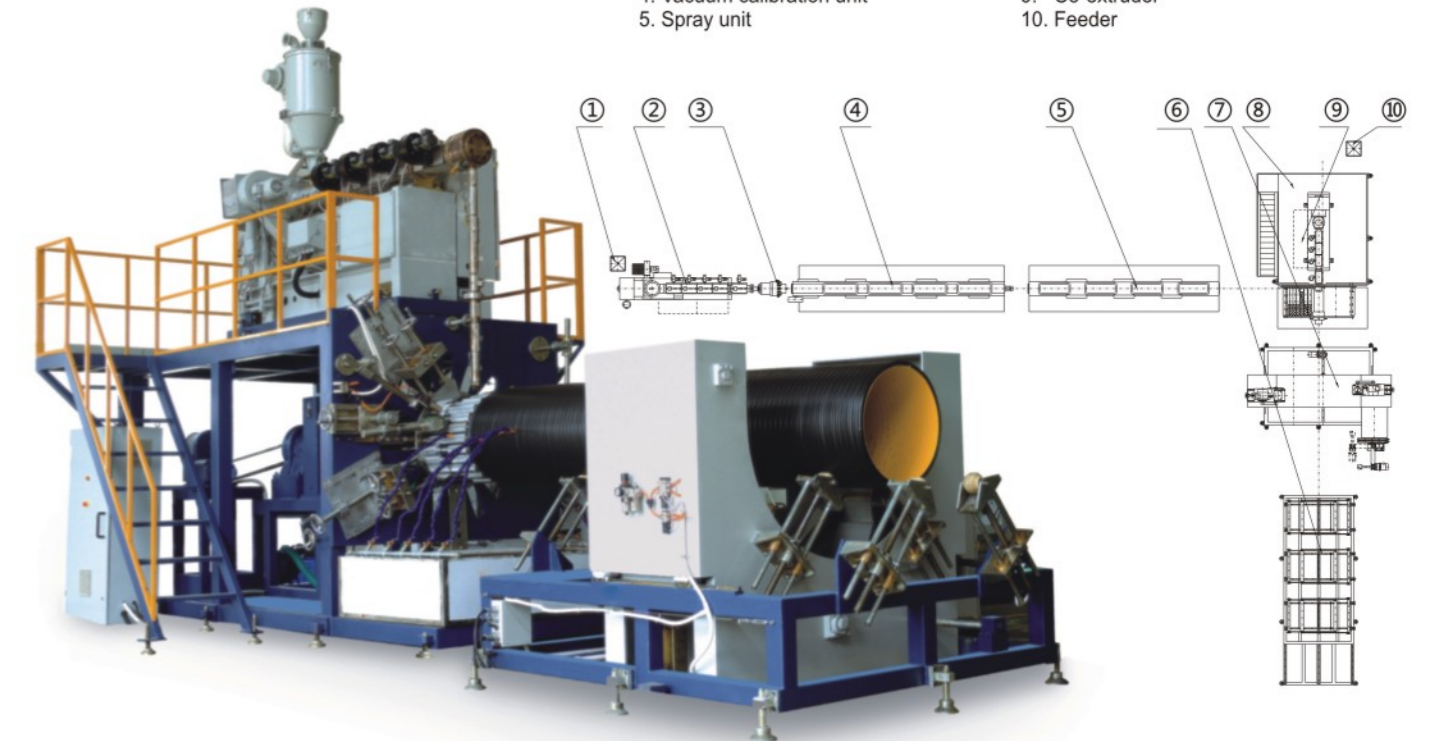


Main Technical Parameter

Model	LSWP-800	LSWP-1200	LSWP-1800	LSWP-2400	LSWP-3000
Pipe range (mm)	Ø200-Ø800	Ø400-Ø1200	Ø800-Ø1800	Ø1400-Ø2400	Ø2400-Ø3000
Model	LSS-80×34, LSS-65×30	LSS-80×34, LSS-65×34	LSS-100×34, LSS-65×34	LSS-100×34, LSS-65×34	LSS-120×34, LSS-80×34
Extruder	Power of main motor(kw)	110,37	110,75	200,75	250,110
	Total Installed power (kw)	250	300	400	530
Max output (kg/h)	500	600	800	900	1200

LAYOUT

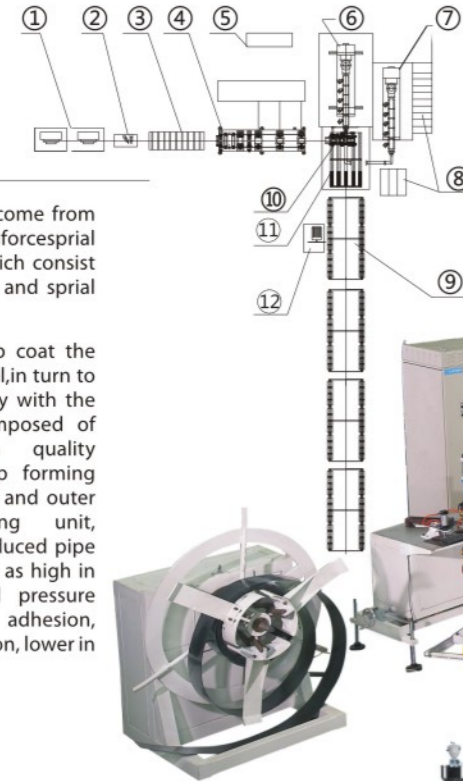
1. Feeder
2. Extruder
3. Die core, die set
4. Vacuum calibration unit
5. Spray unit
6. Stacker
7. Spiral cutting machine
8. Shape forming machine
9. Co-extruder
10. Feeder



LS-Steel Spiral Reinforced Pipe Production Line

Main Features

- Owing to the advance technology come from Europe,LIANSU develop the steel reinforcespiral corrugated pipe production line,which consist of the steel coated production line and spirial forming produciton line.
- Steel coated production line use to coat the adhesive resin on the surface of steel,in turn to make the PE layer to be tight closly with the steel layer.Spiral forming line composed of stable unwinding unit, high quality spot-welder, reasonable steel strip forming system,spiral forming system, inner and outer layer extruder, simple cutting unit, pipe-conveying frame, ect..The produced pipe is enjoying lots of advantages, such as high in ring stiffness, strong in external pressure resistance, firm in pipe wall adhesion, convenient in construction connection, lower in construction cost, etc.."



LAYOUT

1. steel sheet discharge unit (2sets)
2. steel sheet welding unit
3. storage device
4. steel sheet pre-forming unit
5. electric control cabinet
6. Single extruder (inner)
7. Single extruder (outer)
8. Stair
9. auto piling unit
10. reforming device
11. spiral forming system
12. cutting unit

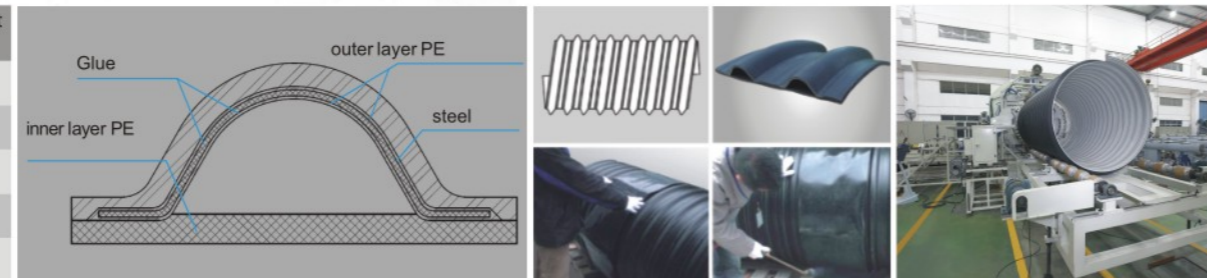
LAYOUT

1. Steel sheet discharge unit
2. Steel sheet cleaner
3. High frequency heating device
4. Heating device
5. Extruder
6. Coating mould
7. fan cooling device
8. water cooling device
9. F-150B haul off unit
10. storage
11. cutting unit
12. winding machine

Steel sheet coating extrusion line



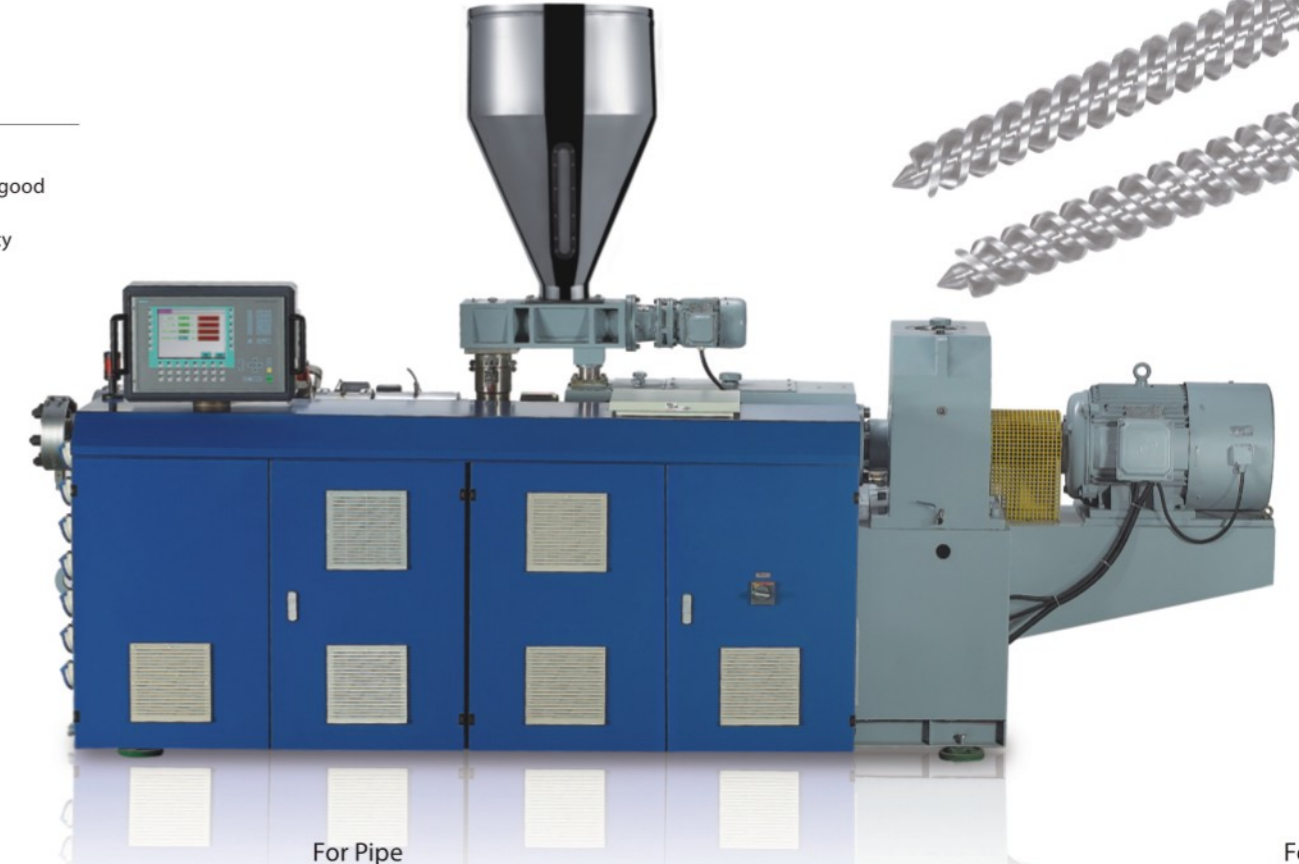
MODEL	Pipe range(mm)	Extruder	Total Installed power(kw)	Max output (kg/h)
LSWP-800	Ø200-Ø800	LSS80-34 LSS65-34	280	710
LSWP-1200	Ø400-Ø1200	LSS80-34 LSS65-34	320	710
LSWP-1600	Ø500-Ø1600	LSS80-34 LSS65-34	350	1100
LSWP-2400	Ø1400-Ø2400	LSS100-34 LSS80-34	500	1100
LSWP-3000	Ø2400-Ø3000	LSS100-34 LSS80-34	520	1420



LS-Twin Conical Screw Extruder

Main Features

- High output, good plasticizing effect
- Unique screw design for plastic pipe and profile product, with good melt and high capacity
- Screw and barrel with inlaid alloy structure, long life expectancy



Main Technical Parameter

MODEL	LSE45/97	LSE55/110	LSE65/132	LSE80/156	LSE80/172	LSE92/188	LSE95/191
rotating speed (r/min)	43	37.5	39	44	37	40.5	40.5
motor power(kw)	18.5	30	37	75	75	110	132
total power (kw)	31	48	60	110	115	172	196
PVC output(kg/h)	120~150	180~230	250~300	450~500	600~650	800~850	1000~1050

For Pipe

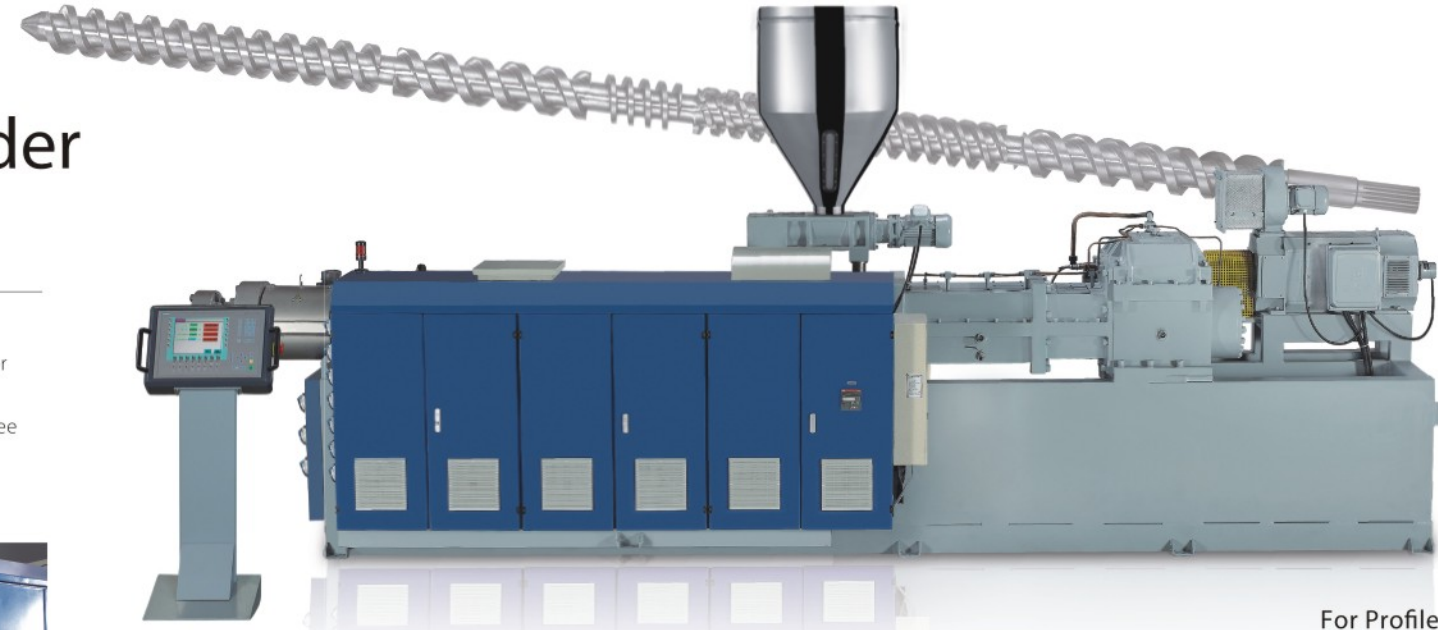
For Profile

MODEL	LSE45/97X	LSE55/110X	LSE65/132X	LSE80/156X	LSE92/188X
rotating speed (r/min)	35	35	35	32	32
motor power(kw)	18.5	30	37	75	110
total power (kw)	31	48	60	110	172
PVC output(kg/h)	80	120	220	320	600

LS-Parallel Twin-Screw Extruder

Main Features

- Equipped with high torque gearbox
- With high output, good plasticizing effect, it is applicable for pipe, panel and profile production.
- The screw, barrel is alloy inlaid structure, effectively guarantee screw life expectancy.



For Profile

MODEL	LSPD75-26	LSPD90-26	LSPD114-26	LSPD130-24
rotating speed(r/min)	36	36	35	35
motor power(kw)	37	55	90	132
total power(kw)	60	87	153	200
PVC output(kg/h)	240	300	500	700

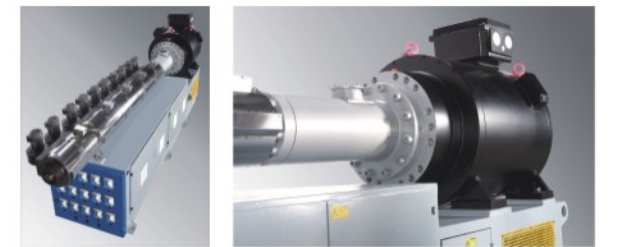
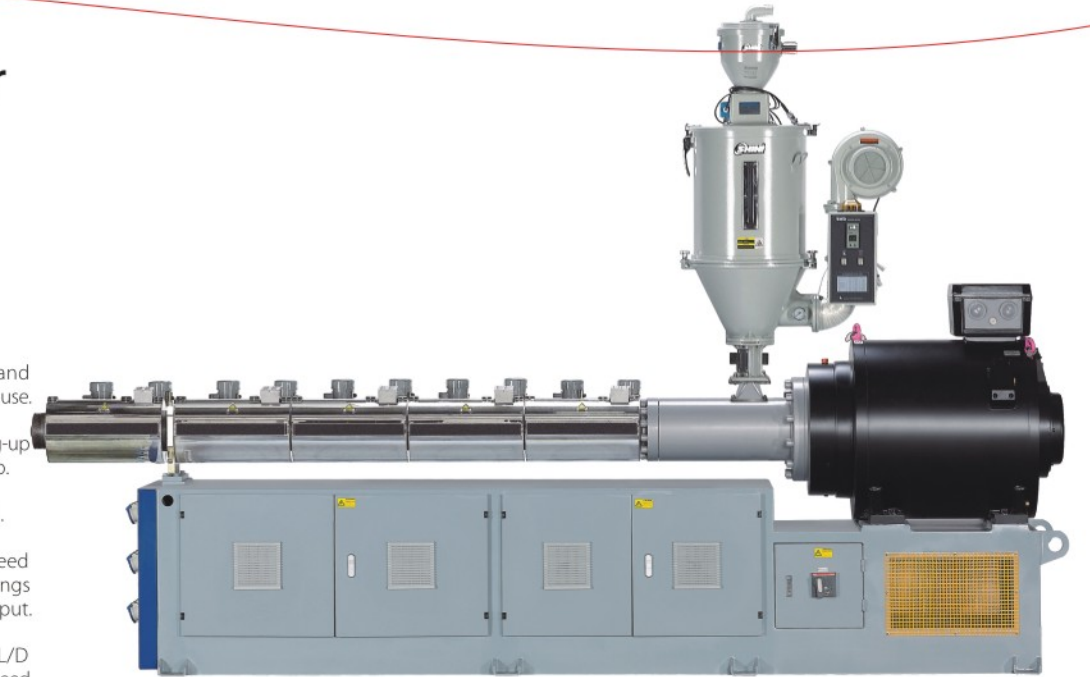
Main Technical Parameter

MODEL	For Pipe							
	LSPD75-26	LSPD75-32	LSPD90-26	LSPD107-26	LSPD114-26	LSPD114-28	LSPD130-24	LSPD130-26
rotating speed(r/min)	47	47	45	45	47	47	45	45
motor power(kw)	37	45	55	75	90	90	132	132
total power(kw)	60	78	87	130	153	161	200	200
PVC output(kg/h)	330	400	400	650	800	900	800	1000
remark	imported gearbox							

LS-Gearless Single Screw Extruder

Main Features

- The application of gearless motor in the driving system helps simplify the installation and maintenance technique, save energy up to about 20%, and lower noise and vibration while in use.
- The gearless motor perfectly solves the noise and vibration problems caused by screw running-up at high speed. As compared with conventional screw, the noise can be lowered by 30 db.
- The production capacity of GLSS 65-35 has reached 800kg/h, the international standard.
- Screw running-up at high speed: The conventional single screw extruder runs below a speed of 120r/min, while the new generation motor can reach over 350r/min. High shear rate brings better plasticization and higher speed of material transmission, and therefore, higher output.
- Big L/D. The L/D of the conventional extruder is 1:30 or 1:34. Our new screw has a larger L/D which is 1:35, increasing the plasticity performance when the material is transmitted at high speed.
- Improvement of the structure of the material-falling base guarantees the feeding volume of the gearless extruder. The screw inside the feed bush has a specially designed high compressed zone and small screw pitch whose feeding transmission volume and forces ensure the stable melt pressure.
- Special barrier screw increases the contact surface between the plastic and the barrel, which is good for plasticization. In the meantime, it has made the best use of the groove volume in order to hold more material. What's more, the non-standard barrier stops the non-plasticized material from entering so as to ensure the overall plasticization.
- Bigger mixing volume prolongs the time when the mixed material stay inside the mixing zone to get better mixing and plasticized results.



Main Technical Parameter

MODEL	GLSS50-34	GLSS-65HP	GLSS-65X37	GLSS-80HP	GLSS-80x37	GLSS-100HP	GLSS-100x37
TORQUE/TOTAL POWER	2160N.m/78kw	4720N.m/118kw	4900N.m/276kw	7900N.m/197kw	9500N.m/298kw	14700N.m/236kw	14000N.m/340kw
SPEED/MIN	300	200	500	200	300	150	240
KG/H	300	480	900	650	1100	900	1300

LS-Single Screw Extruder

Main Features

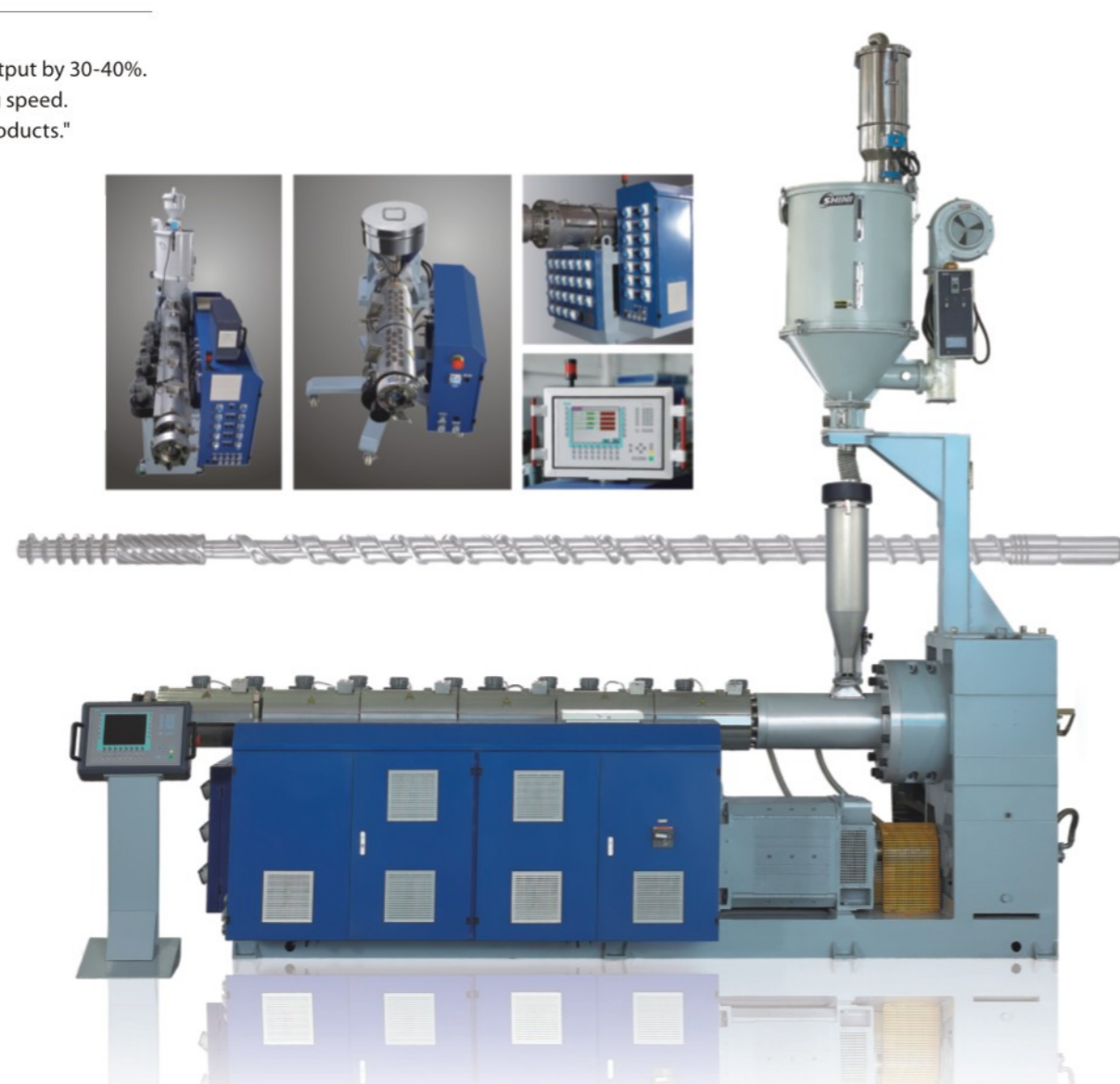
- High rotating speed, high output
- Discharge part of barrel is grooved feedbus structure, to increase the output by 30-40%.
- Large L/D ratio ensures the good plasticizing effect under the high rotating speed.
- Optimized screw design lowered down the energy consumption/unit of products."

Main Technical Parameter

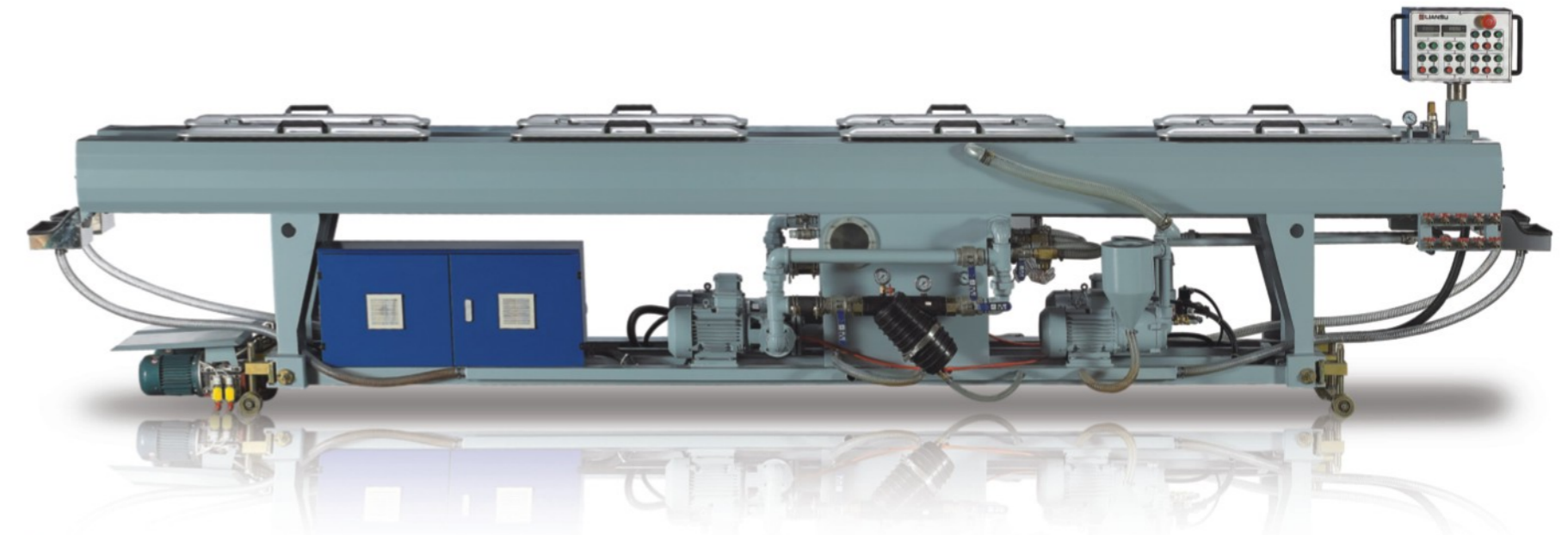
MODEL	rotating speed (r/min)	motor power (kw)	total power (kw)	PE output (kg/h)	PPR output (kg/h)
LSS30-25	17	1.5	7	1.5	1.0
LSS40-25	50	5.5	8.5	10~15	
LSS45-30	75	15	24	30~40	20~30
LSS55-35	185	55	68	220	150
LSS65-30	93	37	50	120	80
LSS65-34	150	75	90	300	230
LSS65-35	150	90	106	360	250
LSS80-34	120	110	141	440	310
LSS80-35	150	132	163	550	390
LSS100-34	120	200	249	750	
LSS120-33	93	250	303	1000	
LSS150-34	83	355	419	1400	

For PVC pipe\profile\sheet

MODEL	rotating speed (r/min)	motor power (kw)	total power (kw)	PVC output (kg/h)	Remark
LSS45-25	50	15	21	20~25	
LSS45-28	60	15	23	20~25	(soft PVC)
LSS65-25	50	30	45	60~80	
LSS65-28	50	30	45	60~100	(soft PVC)
LSS80-25	50	45	63	120~150	



LS-Tank



Main Features

- Tank body is made of stainless steel, electric control, front-back movable
- Screen with large volume ensures the spray water amount and water cleaning
- The patented design of the pipes and mounting structure makes water pipe assembly and disassembly more convenient and faster
- Spray nozzle layout is reasonable designed, front thick and back sparse, which quicken the different diameter pipe cooling
- Automatic control of water level and water temperature
- Semi-circular pallet avert of pipe deformation cause by its deadweight
- Collocate roundness adjusting device to change the oval pipe back to round pipe.
- Base on customer's different requirement on output, Liansu personalizedly equipped with tank of different length for economical and effective input of the customer.



LS-Haul-Off Unit

Main Features

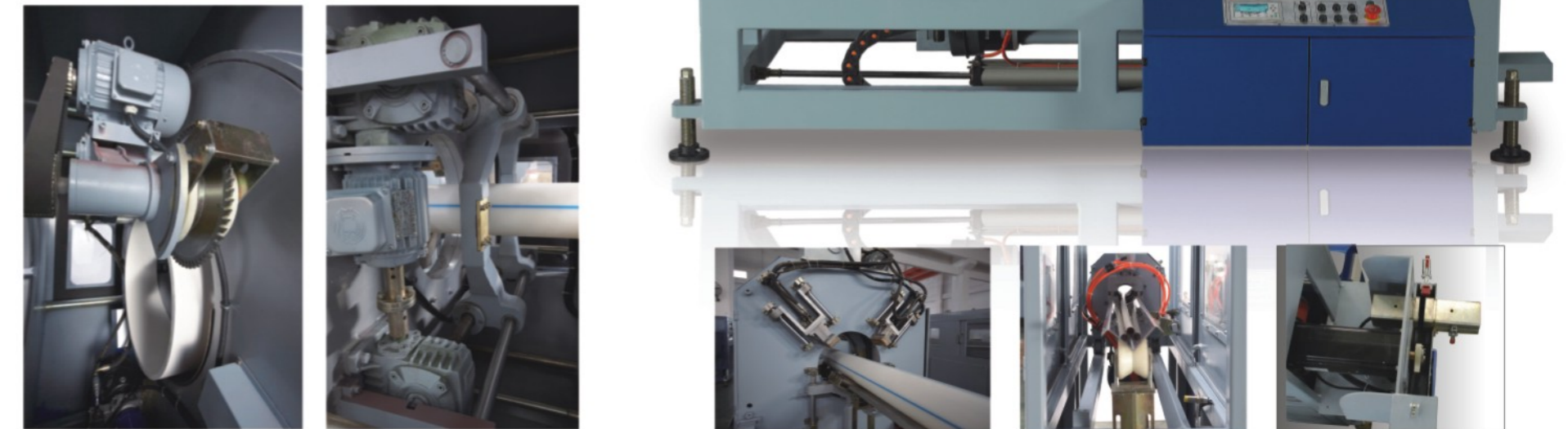
- For the different pipe size and different speed requirement, Liansu developed many kinds of haul-off unit accordingly, such as double-caterpillar haul-off unit, three-caterpillar haul-off unit, four-caterpillar haul-off unit, six-caterpillar haul-off unit, eight-caterpillar haul-off unit, ten-caterpillar haul-off unit. The haul-off unit is with single motor driving type and every caterpillar with separate motor driving type, for the small pipe diameter pipe speedy hauling, there is the belt type double-belt haul-off unit, stable hauling. For the large diameter pipe, a pipe leading device was equipped to the production line to reduce the waste material.



LS-SAW

Main Features

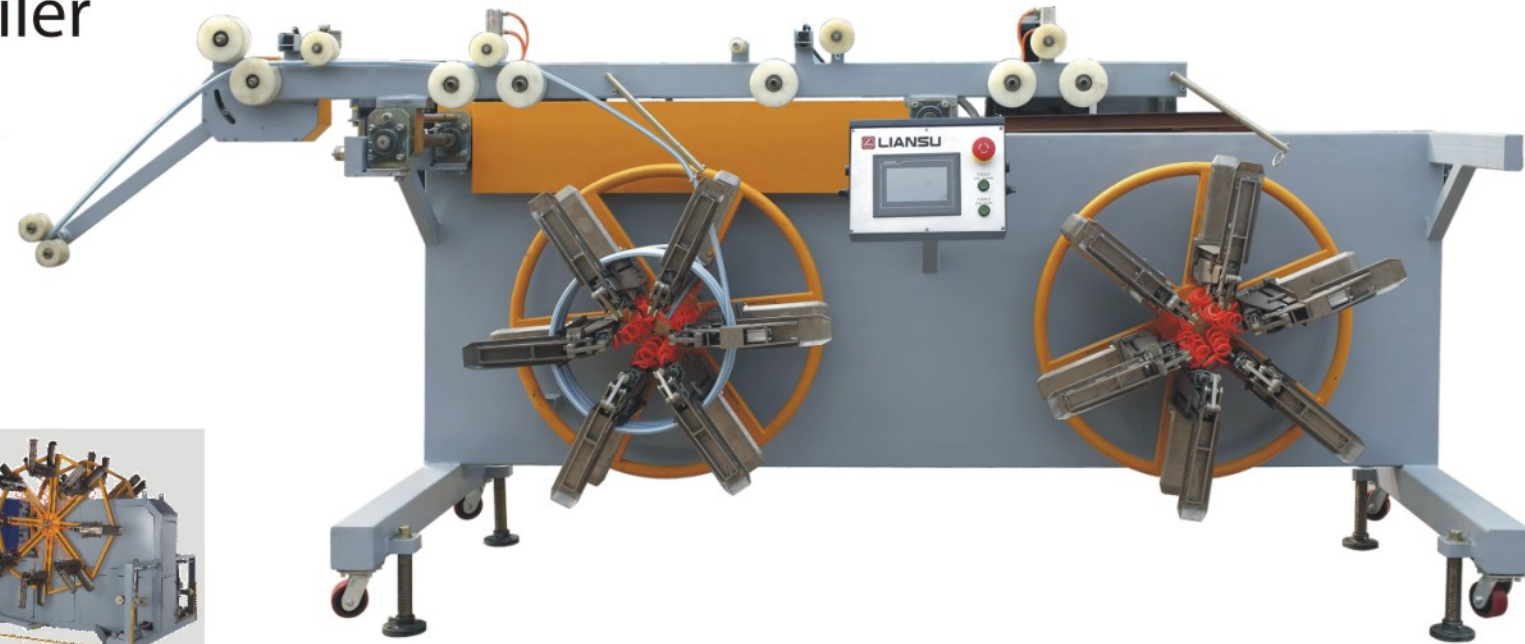
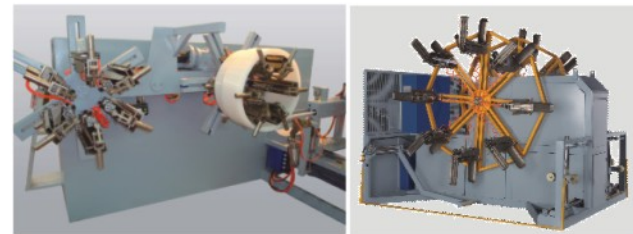
- Regarding the different material and different linear speed, Liansu provides a variety of cutting unit accordingly, such as, PVC series: planetary cutting unit with chamfering and PE, PEX, PP series of swarfless cutting unit, meanwhile the swarfless cutting unit is divided into knife feeding by oil cylinder and knife feeding by machinery two types. Equipped with the encoder to ensure the speedy production and precise cutting length.



LS-Double Coiler

Main Features

Double-station winder: with auto correcting, auto displacement and auto discharge function, which help to save time and labor. This set is with tension adjusting function to ensure the winding quality, furthermore the station speedy changing function ensures the continuous manufacturing.



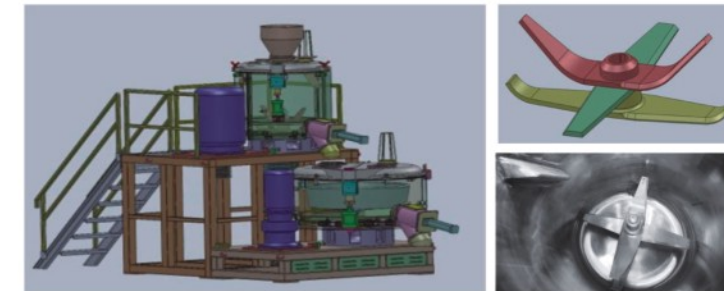
Main Technical Parameter

MODEL	LSPJ32PE	LSBPJ-50	LSRP-50 (corrugated pipe)	LSBPJ-63PE	LSPE5110	LSPE5160
Product Range(mm)	Φ16-Φ32	Φ16-Φ50	Φ16-Φ50	Φ16-Φ63	Φ16-Φ110	Φ50-Φ160
Coiler Id(mm)	Φ400-Φ800	Φ240-Φ650	Φ200-Φ650	Φ800-Φ1300	Φ800-Φ2200	Φ800-Φ3200
Coiler Depth(mm)	300	410	450	550	550	550
Coiler Width(mm)	400	420	250	510	700	700
Main Motor(kw)	2.2×2	1.1	0.75	3	3.7×2	4
Linear Motor(kw)	1.1	0.75		1.1	1.1×2	1.1
Body Dimension	3300×1284×1840	2250×1350×980	1100×550×1250	2950×2800×2200	3700×2950×3500	4000×2000×4500

LS-Compound Mixer

Main Features

- Cap is double seal in g start by pneumatic, easy operation
- Cylinder is made of stainless steel, wall thickness up to 8mm
- Discharge is in temperature auto control or time control
- Motor start and speed regulation is governed by the ABB inverter, to avert the excessive power that caused by high power motor start to impact on the electric network, so as to protect the electric network and to achieve a smooth speed control.
- With direct & stable control type and analog display screen display, the staff can complete the set work for the different mixing material requirements within few seconds, realizing the full automation of the manufacturing procedure, which greatly reduce labor intensity and production costs.
- Direct & stable control type of the production line ends up the unsuitable discharge that the temperature is too high or too low, so as to ensure the good product quality and improve the production flexibility, security and reliability.

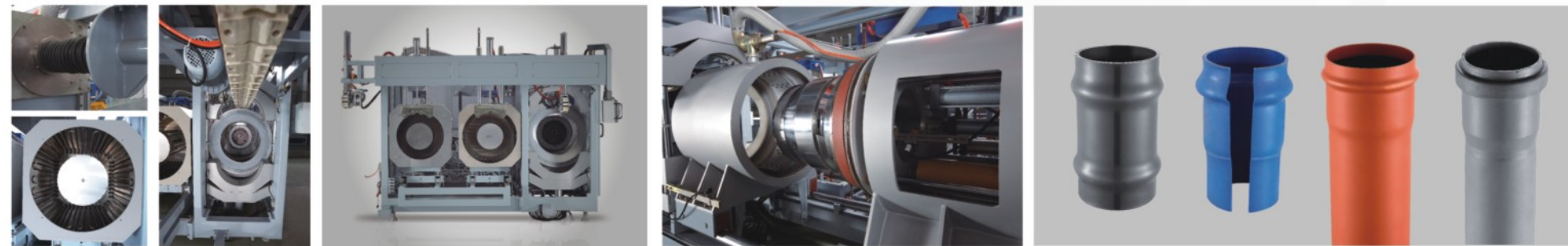
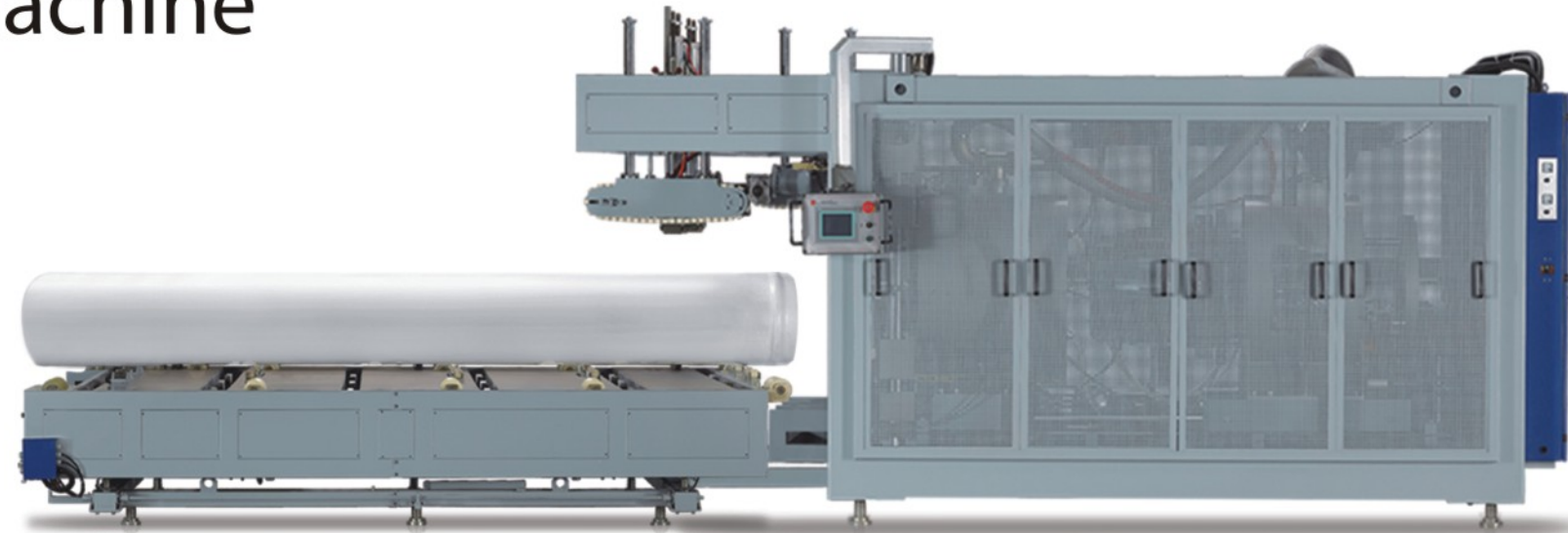


Main Technical Parameter

MODEL	GRH-200/LH500	GRH-300/LH500	GRH-500/LH1000	GRH-500/LH1500	GRH-1000/LH3000
Motor power for hotmixer	45	55	75	90	132
Motor power cooling mixer(Kw)	7.5	7.5	15	22	37
Capacity per batch(Kg)	80	125	185	185	370



LS-Socketing Machine

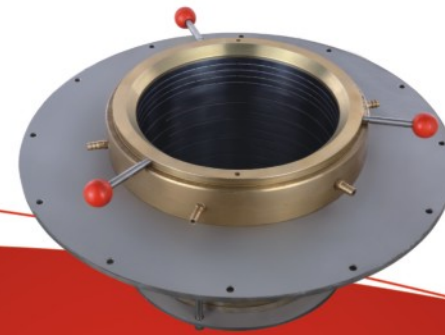


Main Technical Parameter

MODEL	HEATING TYPE	COOLING TYPE	COOLING TYPE	SOCKETING RANGE (mm)	DIMENSION (mm)
LSDK75F double pipe belling machine	clamping block	mould water cooling +outside air cooling	mould directly stuff into the pipe	Φ16-Φ75	7300X2000X1800
LSDK110F double pipe belling machine	clamping block	water cooling+air cooling	mould directly stuff into the pipe	Φ20-Φ110	7600X2300X1800
LSK110B double heater socketing machine	heating by stainless steel electric-heat tube	water cooling+air cooling	U-type socket formed by pull-push type mould internal swelling and shaped by high pressure air; belling forms by mould directly stuff into the pipe	Φ40-Φ110 (U type socketing, belling) Φ20-Φ110(belling)	7300X1890X1870
LSK160D double heater socketing machine (with rubber ring)	heating by stainless steel electric-heat tube	water cooling+air cooling	U-type socket formed by pull-push type mould internal swelling and shaped by high pressure air; socket with rubber ring formed by rubber ring directly embed into the pipe, and shaped by high pressure air; belling forms by mould directly stuff into the pipe	Φ40-Φ110 (U type socketing, belling) Φ20-Φ110(belling)	7500X1800X1950
LSK250D double heater socketing machine (with rubber ring)	heating by stainless steel electric-heat tube	water cooling+air cooling	U-type socket formed by pull-push type mould internal swelling and shaped by high pressure air; socket with rubber ring formed by rubber ring directly embed into the pipe, and shaped by high pressure air; belling forms by mould directly stuff into the pipe	Φ50-Φ250	8550X2060X2070
LSK400 double heater socketing machine	heating by stainless steel electric-heat tube	water cooling+air cooling	U-type socket formed by pull-push type mould internal swelling and shaped by high pressure air; belling forms by mould directly stuff into the pipe	Φ90-Φ400	8830X2600X2070
LSK630 double heater socketing machine	heating by stainless steel electric-heat tube	water cooling+air cooling	U-type socket formed by pull-push type mould internal swelling and shaped by high pressure air; belling forms by mould directly stuff into the pipe	Φ250-Φ630	9000X4250X3150
LSK800 double heater socketing machine	heating by stainless steel electric-heat tube	water cooling+air cooling	U-type socket formed by pull-push type mould internal swelling and shaped by high pressure air; belling forms by mould directly stuff into the pipe	Φ315-Φ800	8894X4289X2650
LSBK1000 double wall corrugated pipe belling machine	heating by stainless steel electric-heat tube	Air cooling	formed by pull-push type mould internal swelling	Φ630-Φ1000	8000X4000X2180

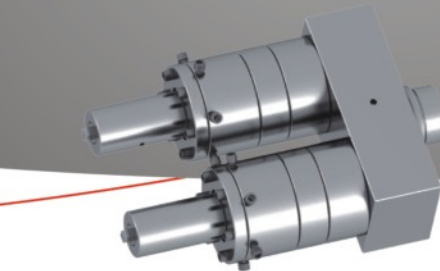
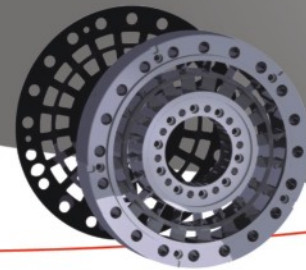
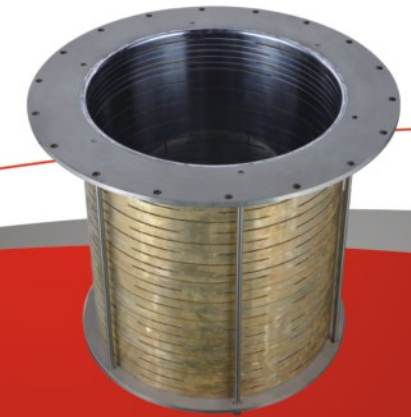
LS-Pipe Extrusion Mould

- Bearing rich experience over ten years in extrusion die manufacturing, is specialized in all kinds of plastic pipe mold and profile extrusion die manufacturing.
- For the mold material, Liansu mold applied of high-quality mold steel, through forging, tempering, quenching and surface hardening and lightning series treatment, averting product defect rate caused by mold part .

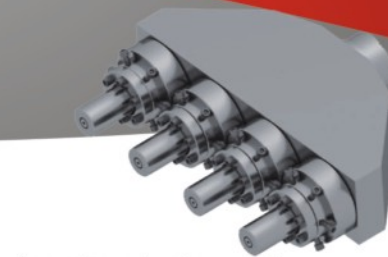


Base on the market requirement, Liansu offer the extrusion mould as below:

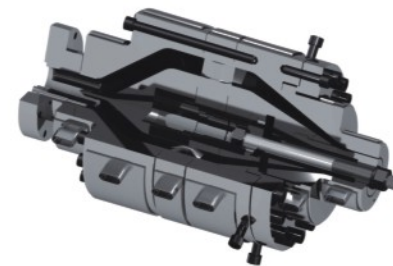
- Ø16-Ø1600 pressure sewage solid pipe mould
- Ø63-Ø1200 double wall corrugated pipe mould
- Ø16-Ø250 single-wall corrugated pipe mould
- Communication cable duct mould
- Different kinds of profile mould



double-pipe extrusion mould

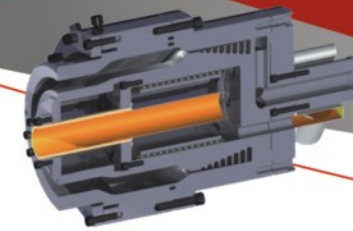


four-pipe extrusion mould

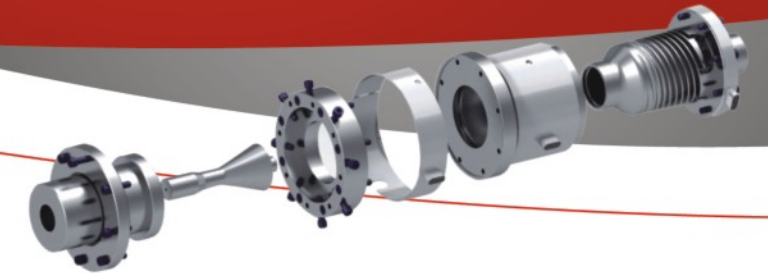
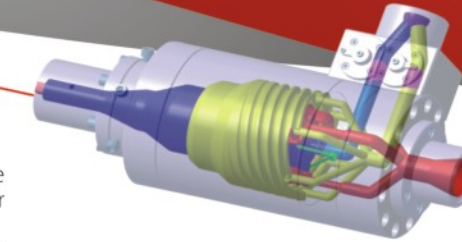


Liansu extrusion head, with sophisticated technology and highly practical & experienced design, ensures the precise dimension and high quality of pipe

- Reasonable wide flow design ensures max extrusion capacity and makes the enough maintaining time of the melt, eliminating the melt temperature difference.
- Precise calculated and experience designed mold compression ratio ensures the reasonable mold design and mold quality
- Split shuttle, with flow line optimized design, ensures a smooth and balanced flow of material.
- Elaborately designed die core and die lip promote the melt pressure in the mold to be more balance.
- Design advantages above mentioned ensures the melt that go through the split shuttle to fully re-fused so as to eliminate the flow splitting line.



PO pipehead applied of spiral distribution principle. The pipehead offered by Liansu can satisfy different outer diameter range from 10 to 1600mm and different wall thickness pipe. Spiral distributor that designed for special application and melt flow, effectively keep the raw material property during the processing procedure, meanwhile it can save the cleaning time of the die.



LS-Injection Mould

Main Features

WE HAVE

- 20 years experience in injection mould manufacturing.
- Team of 150 designers is in the injection mould development and design.
- Injection mold annual output of 1,000 sets production capacity

WE OFFER

- Combined with the product material and structure, Liansu offers the professional mould dies
- Assist the customers to develop the right design of the fittings.

