

LIANSU MACHINERY



**GUANGDONG LIANSU MACHINERY MANUFACTURING CO.,LTD.**

**Address: Daba Industrial Area, Longjiang Town, Shunde Setion, Foshan City, Guangdong, China**

**Tel: +48 800 003 155**

**+48 222 662 747**

**E-mail: [info@liansu.eu](mailto:info@liansu.eu)**



WeChat



Brochure



SERVE THE NEEDS OF THE PRESENT TO FORGE A BRIDGE TO THE FUTRUE

Guangdong Liansu Machinery Manufacturing Co.,Ltd is a high-tech enterprise which specializes in R&D, production, sales and service in extrusion and automation equipment. Established since 1994, Liansu Machinery has developed into one of the major production bases of extrusion equipment in China with more than 400 employees in, Foshan, Guangdong Province . We have built up a reputable company brand throughout the world by years of experience in plastic industry, strong R&D capability, persistence in research and innovation, high-quality product and high-performance technology. By opening up the market and setting up a number of sales centers at home and abroad, our products are exported worldwide including countries and rejoin in South America, Europe, South and North Africa, Southeast Asia, Central Asia, and Mid-East . Our company has developed two major product series, one is extrusion series, the other is the automation series. Extrusion series covers equipment for pipe, panel, profile, and cast film, while automation series the equipment for PVC powder automatic dosing and feeding system, online pipes packaging, supporting automatic devices for injection machine and etc. Our company size and performance are among the best in the industry in China.

# LIANSU MACHINERY WORKSHOP



With Capacity for  
350 extrusion  
lines per year



With more than  
500 Employees

## R & D



Extruder: 3 engineers Down stream: 10  
engineers

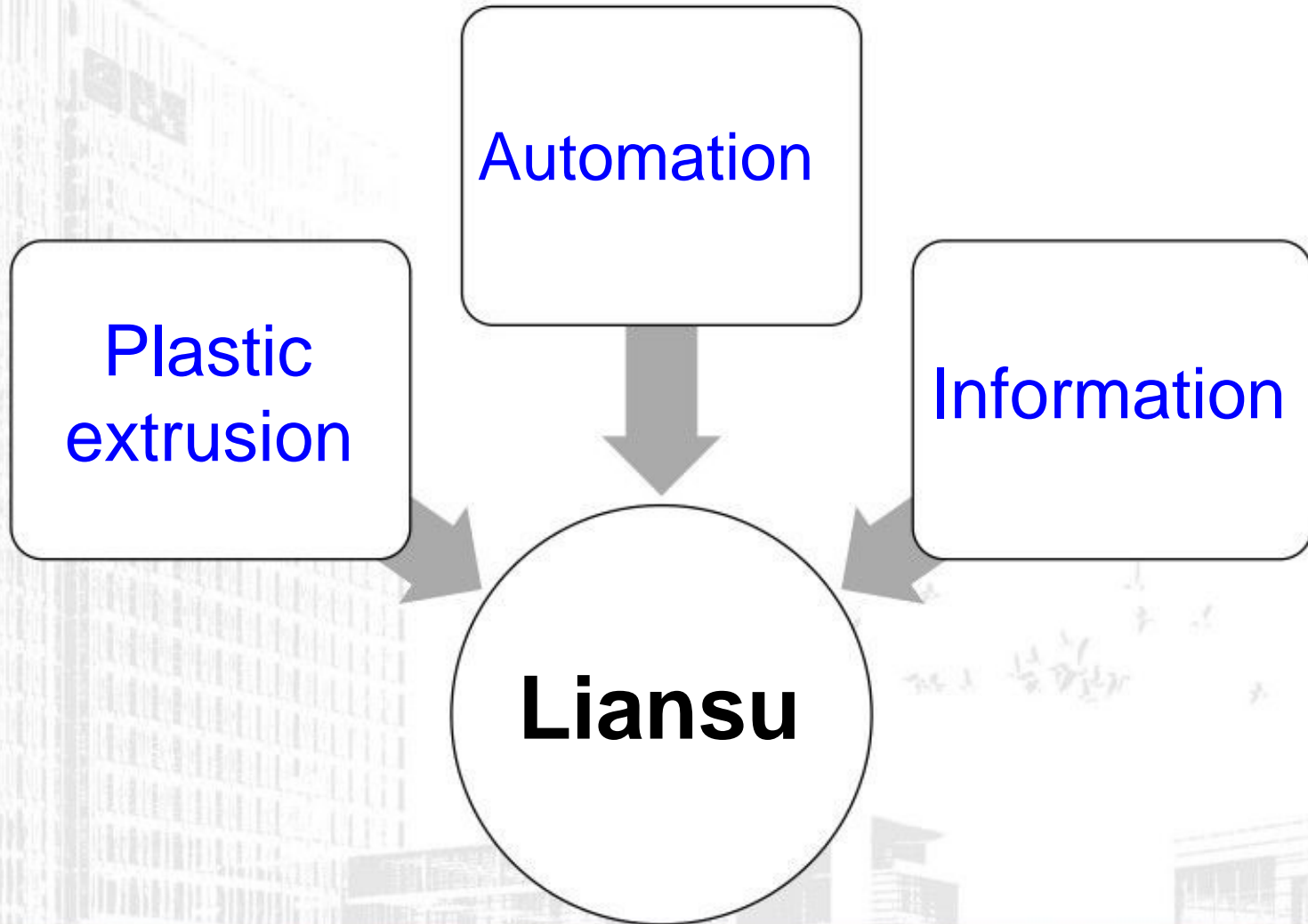
Extrusion mould: 3 engineers Electric parts: 5  
engineers Technics issue: 20 engineers

Total: 38 engineers



# PRODUCTION LINES WITH LIANSU MACHINERIES





## PLASTIC EXTRUSION

- PIPE EXTRUSION SYSTEM
- PROFILE EXTRUSION SYSTEM
- FILM EXTRUSION SYSTEM
- PANEL AND SHEETS EXTRUSION SYSTEMS
- AUXILARY EQUIPMENT

## AUTOMATION

- ON LINEAUTOPACKING MACHINERY
- AUTOMATIC FEEDING SYSTEM FOR POWDER AND PELLETS

## INFORMATION

- DATA COLLECTION
- ENERGY MANAGEMENT
- EQUIPMENT MANTENANCE
- QUALITY MANAGMENT

# PIPE EXTRUSION SYSTEM

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# PIPE EXTRUSION SYSTEM PVC

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<b>Diameter(mm)</b>	<b>Production line</b>	<b>Capacity(kg/h)</b>
16~32mm	LSFP-32PVC	400kg/hr
16~63mm	LSDP-63PVC	250kg/hr
75~110mm	LSDP-110PVC	1000~1050kg/hr
110-250mm	LSP-250PVC	1000~1050kg/hr
180~400mm	LSP-400PVC	1000~1050kg/hr
160~630mm	LSP-630PVC	750kg/hr
280~800mm	LSP-800PVC	1000~1050kg/hr
630~1000mm	LSP-1000PVC	1000~1050kg/hr



# PIPE EXTRUSION SYSTEM HDPE

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<b>Diameter(mm)</b>	<b>Production line</b>	<b>Capacity(kg/h)</b>
16-32	LSP-32PE	300
20~63	LSP-63PE	300
20-110	LSP-110PE	300
75-250	LSP-250PE	600
110-450	LSP-450PE	1000
160~630	LSP-630PE	1150~1200
400~1000	LSP-1000PE	1400~1500
500~1200	LSP-1200PE	1200~1300
800~1600	LSP-1600PE	1400~1500

# PROFILE EXTRUSION SYSTEM

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# AUTOPACKING MACHINERY

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Our Latest packing machinery can cover all the need of our customer in the plastics industry manufacturing ; PP-R-PVC -CPVC PIPES, also PROFILES and TRUNKING



# AUTOMATIC FEEDING SYSTEM

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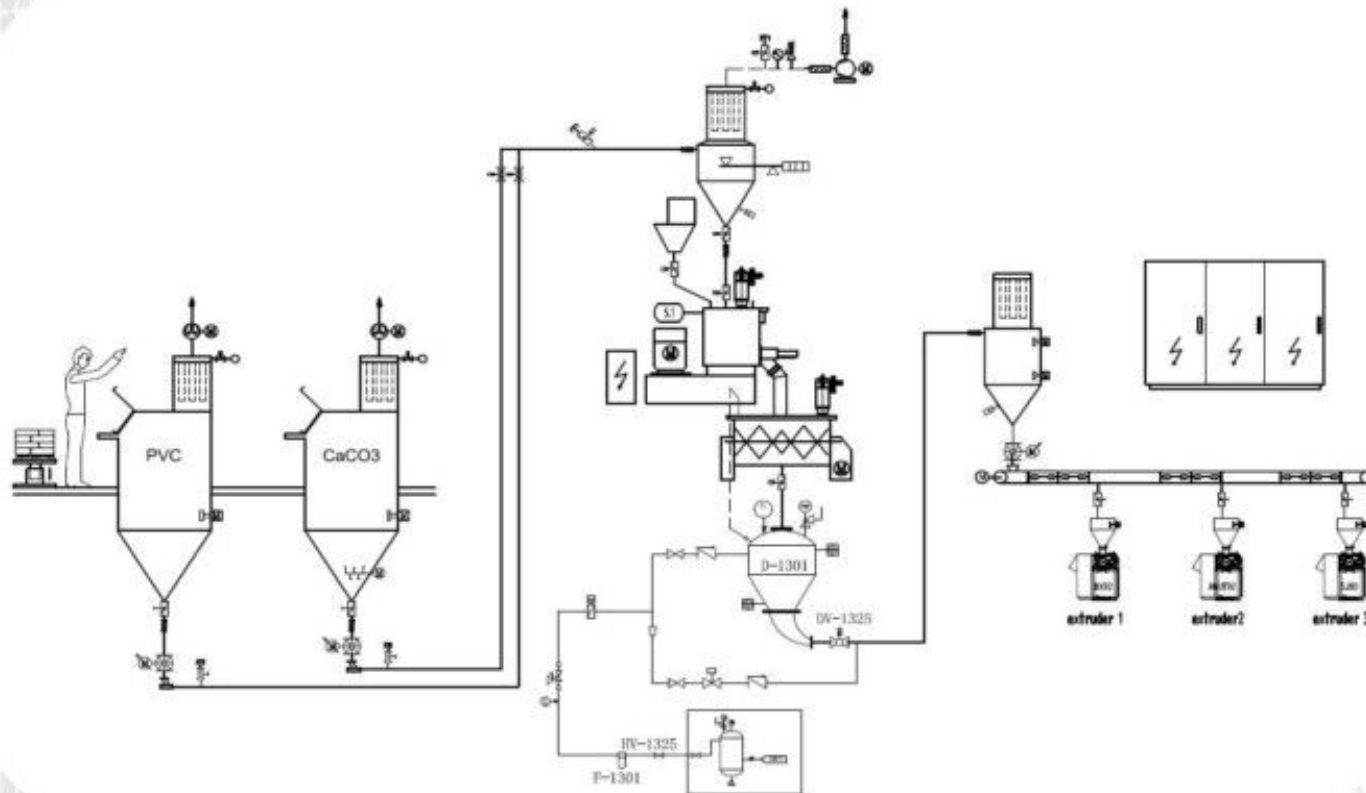
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A complete set of automatic chemical plant customized by Liansu Machinery, including the storage of raw materials, the delivery of material, the weight and the mixing of the material, and the automatic delivery of the mixture to the production of the extruder. The centralized auto feeding system offered by Liansu Machinery has the advantages of high automation, low one-time investment, centralized management and low operating cost, effectively reducing the number of maintenance, saving manpower and maintenance funds.



# AUTOMATIC FEEDING SYSTEMS WORKSHOPS



- Liansu feeding system can be for PVC powder,
- Pellets for extrusion lines, Pellets for injection machinery



- Automatic weighing mixing & storage, clean and tidy site, high efficiency and environmental protection without pollution



- Saving labor cost
- Improving product quality
- Improving production efficiency
- Proving a better working environment

# AUTOMATION - DATA ACQUISITION

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**ENERGY  
MANAGEMENT**

**DATA  
COLLECTION**

**EQUIPMENT  
MAINTENANCE**

**QUALITY  
MANAGEMENT**

# LIANSU MACHINERY EXTRUSION LINES ADVANTAGES



1. LIANSU has 32 years in pipe extrusion machine manufacturing, 30 years in Plastic pipe production, we make the machine, we use our machine, we know well user experience;

2. Liansu has succeed experienced on design ,manufacturing & commissioning

3. LIANSU have own technology to gurantee stable extrusion , fast forming , its the major point to gurantee the correct pipe diameter and even pipe thickness during startup of machine ;

4. LIANSU gurantee continuous stable hauling speed even under low speed or high speed , stable hauling speed its the key point to gurantee the pipe good quality of outer surface and inner surface

5. High Capacity & Better Plasticization

6. Low Power consumption

7. Good quality of the pipe

8. Stable Production

# LIANSU PVC EXTRUSION LINE STRUCTURE

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**Extruder**

**Head**

**Tank**

**Puller**

**Cutter**

**Stacker**



# LIANSU PVC EXTRUSION LINES EXTRUDER



**Liansu Extruder made for higher out put use their 32 years experience in pipes manufactures to design the best screw and barrel in the market for their extruders**

**Customized speciale for Liansu our gearbox made with Japan and German Material Bearing SKF , our gear has high torque, quite abraisave wearing and a good cooling**

**We reinforced water cooling for the first section of the Barrel suitable for low CaCo3**

**We use our latest technology in Permanent magnet synchronous super high efficiency moto (servo)**



1. Basis on different type of stabilizer . the screw design and Nitride treatment will be different.

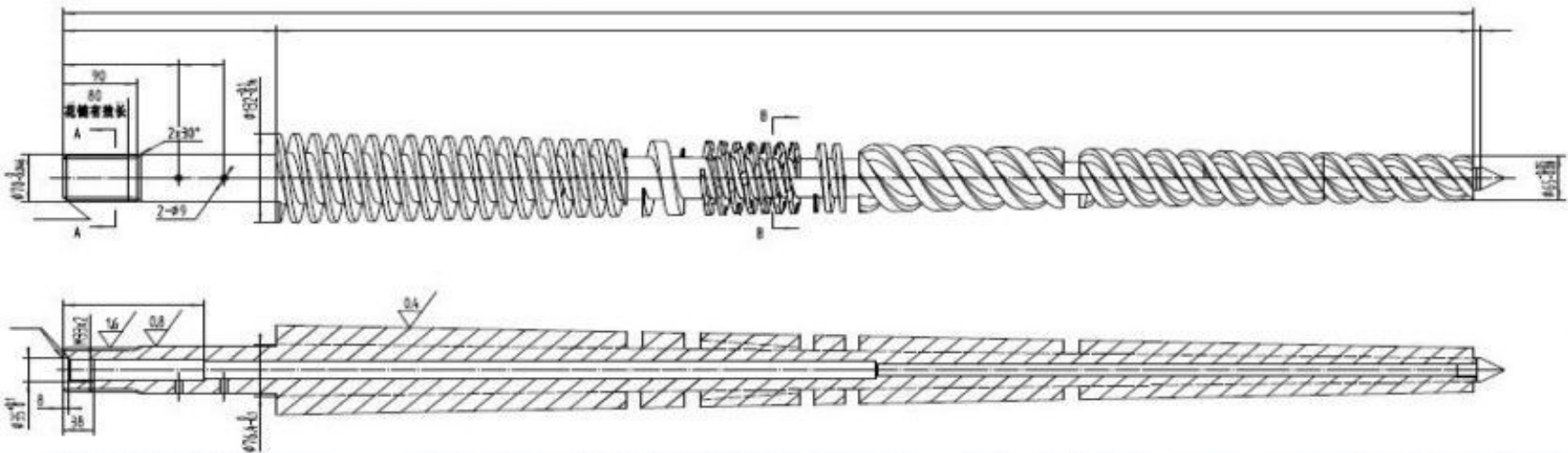
2. Liansu have different design for High and Low CoCo3

3. Screw and barrel Processing procedure : Prepare material>Quench> Rough Processing> Thermal treatment>Fine Machining>Nitride>Precision Grinding

4. Screw heating :

1. External Oil : it is better for cooling, use oil as its boiling point is higher then water which just 100 degree , but some time it need to maintain a screw temperature over 100 degree

2. Internal Stilled water ( if Coco3 over 50%PHR, then we suggest to use distilled water .we will put distilled water inside then seal it . so it is not recycle)



# LIANSU PVC EXTRUSION LINES EXTRUDER

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Customized speciale for Liansu our gearbox  
made with Japan and German Material  
Bearing SKF , our gear has high torque, quite  
abraisave wearing and a good cooling



# LIANSU PVC EXTRUSION LINES EXTRUDER



**We use our latest technology in Permanent magnet synchronous super high efficiency moto (servo) Good characteristics at low speed (constant torque at full speed range) ;**  
**High dynamic response and high speed precision ;**  
**Maintenance free(The bearing refueling without stop) ;**  
**Unique internal and external air cooling channel, acheived IP54 protection grade ;**  
**High Power Factor, reduced the factor compensation in the factory**



# LIANSU MACHINERY DIE HEADS

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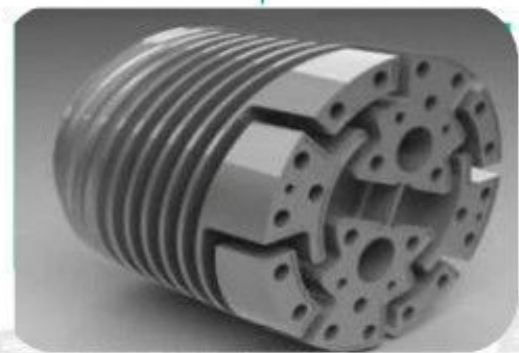
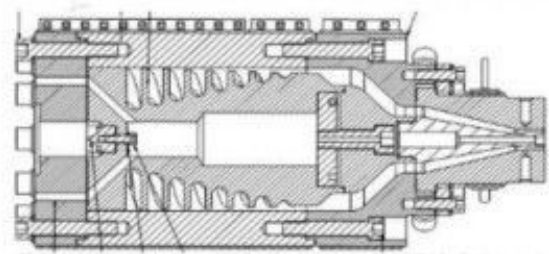
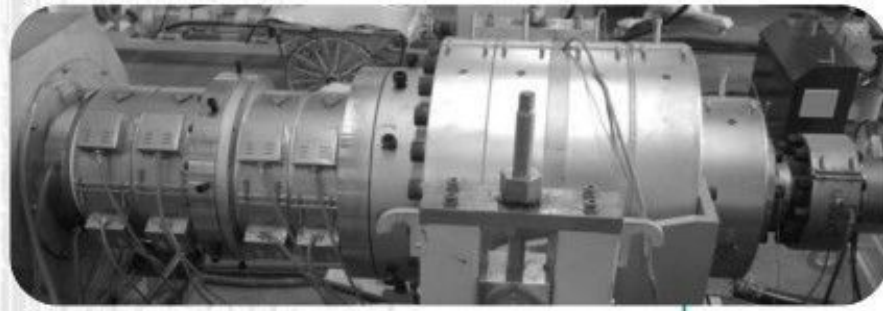
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Good design for Compress ratio guarantee high quality of pipe

Reasonable spreader design ensure material flow equally

accurate wall thickness tolerances resulting from melt distribution

Low pressure build up/ best melt distribution



# LIANSU MACHINERY TANKS

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Anti vibration reduce noise and longer life for vacuum pump

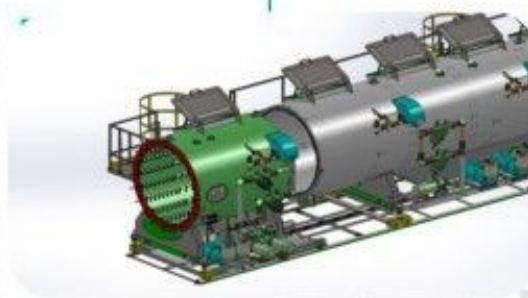


Centralized water discharged, reduce water pipe lines

Whole tank and pipe line 304 stainless



Vacuum pump variable frequency and speed regulation



Each Caterpillar control by independent servo motor



Using independent servo motor will save in production cost and will help to produce good quality pipes

Meet the different speed range



Stable speed



Each Caterpillar control by independent servo motor



Using independent servo motor will save in production cost and will help to produce good quality pipes

Meet the different speed range



Stable speed





THANKS FOR VIEWING !

## LIANSU MACHINERY

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

Address: E-09, Daba Industrial Area, Longjiang Sect,  
Shunde City,Guangdong,China Postcode:528318

Tel.: +48 800 003 155  
+48 222 662 747

E-mail: [info@liansu.eu](mailto:info@liansu.eu)  
[www.liansu.eu](http://www.liansu.eu)



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