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## CORRUGATED PIPE MACHINERY SOLUTION **BEYOND YOUR IMAGINATION**

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Dalian Sunlight



DALIAN SUNLIGHT TECHNOLOGY CO.,LTD

## CORRUGATED PLASTIC PIPE EXTRUSION LINE EXPERT



Dalian Sunlight

## ABOUT US

Since 1993, Dalian Sunlight is focused on design and manufacture corrugated plastic pipe production system. Over 30 years of experience, Dalian Sunlight has become one of the world's leading manufacturer of plastic corrugated pipe extrusion line.

Possessing two production base in Dalian and Shanghai, our company covers an area of 80,000 square meters with more than 400 employees. The processing center is equipped with more than 100 sets world-first class brands of Mazak, DMG, Moriseiki, Mitsubishi, Kurashiki, etc. Powerful processing capability could realize 90% self-processing.

Under a strong power in innovation across the whole range of machinery, our extrusion lines could produce single, double wall from 16mm up to 1850mm pipes for underground system. All the extrusion lines combine the advantages of great efficiency, excellent performance and flexibility.

Dalian Sunlight shares know-how and experience, aiming to provide leading solutions for our customers, which result in maximum economic success on a long-term basis. Turn toward Dalian Sunlight, turn away from further worries. Dalian Sunlight is a reliable partner and best choice for pipe manufacturers.

# CONTENTS



**HDPE/PP  $\Phi$ 63- $\Phi$ 160 ( OD )**  
SINGLE/DOUBLE WALL CORRUGATED  
PIPE EXTRUSION LINE



**HDPE /PP  $\Phi$  200- $\Phi$  400 ( ID )**  
DOUBLE WALL CORRUGATED  
PIPE EXTRUSION LINE



**HDPE /PP  $\Phi$  800- $\Phi$  1600 ( ID )**  
DOUBLE WALL CORRUGATED  
PIPE EXTRUSION LINE



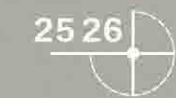
**SBZ630H/800H/1000H**  
HIGH SPEED CORRUGATED  
PIPE EXTRUSION LINE



**PVC  $\Phi$ 110- $\Phi$  250 (OD)**  
DOUBLE WALL CORRUGATED  
PIPE EXTRUSION LINE



**PVC  $\Phi$ 500(ID)- $\Phi$ 1400 ( OD )**  
DOUBLE WALL CORRUGATED  
PIPE EXTRUSION LINE



**THE SERIES OF EXTRUDERS  
SPECIALIZED FOR  
CORRUGATED  
PIPES EQUIPMENTS**



**PP  $\Phi$ 100- $\Phi$ 175 ( ID )**  
HV CABLE SQUARE PROTECTIVE  
CORRUGATED PIPE EXTRUSION LINE  
**HDPE/PP  $\Phi$ 90-250 ( OD )**  
SING/DOUBLE WALL CORRUGATED  
PIPE EXTRUSION LINE



**HDPE /PP  $\Phi$  500- $\Phi$  800 ( ID )**  
DOUBLE WALL CORRUGATED  
PIPE EXTRUSION LINE



**SBZ200H**  
HIGH SPEED CORRUGATED  
PIPE EXTRUSION LINE



**HDPE /PP/PVC  $\Phi$ 16- $\Phi$ 50 ( OD )**  
SINGLE/DOUBLE WALL CORRUGATED  
PIPE EXTRUSION LINE  
HDPE FLEXIBLE DOUBLE WALL CORRUGATED  
PIPE EXTRUSION LINE  
**PVC  $\Phi$  63- $\Phi$  160 ( OD )**  
DOUBLE WALL CORRUGATED  
PIPE EXTRUSION LINE



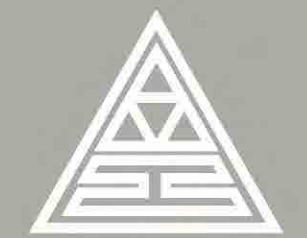
**PVC  $\Phi$  200- $\Phi$  500 (OD)**  
DOUBLE WALL CORRUGATED  
PIPE EXTRUSION LINE



**PVC SOLID WALL  
PIPE EXTRUSION LINE**  
**HDPE/PVC**  
SOLID WALL PIPE EXTRUSION LINE



**PERFORATOR SERIES  
BELLING MACHINE SERIES**



Dalian Sunlight

# HDPE/PP $\Phi$ 63- $\Phi$ 160 (OD) SINGLE/DOUBLE WALL CORRUGATED PIPE EXTRUSION LINE

- ★ Corrugator adopts independent water and air circulated system and form the double-wall corrugated pipe by cooling water and compressed air.
- ★ Extruder has linkage function to the corrugator.
- ★ The lubrication system of corrugator has manual and automatic function.
- ★ Corrugator adopts horizontal and full closed structure, easy operation and good-looking appearance.
- ★ Corrugator has air cooling and water cooling function.

Pipe Diameter	Single screw extruder	Corrugator	Spray bath	Cutter	Stacker
$\Phi$ 63-160 OD	SJ-65 $\times$ 33	SBZ160	LQM160	QG160A	JGJ1120
	SJ-65 $\times$ 33A				



# HDPE/PP $\Phi$ 90-250 (OD)

## SING/DOUBLE WALL CORRUGATED PIPE EXTRUSION LINE

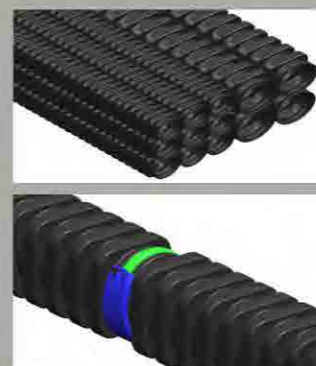
Pipe Diameter	Single screw extruder	Corrugator	Spray bath	Planetary saw	Stacker
$\Phi$ 90-250 OD	SJ-75 x 33L	SBZ250A	LQM2550	QG2550A	JGJC250
	SJ-65 x 33				



# PP $\Phi$ 100- $\Phi$ 175 (ID)

## HV CABLE SQUARE PROTECTIVE CORRUGATED PIPE EXTRUSION LINE

- ★ Corrugator adopts integral horizontal structure, small floor area and non-base on ground. Working platform has transverse, lengthways and horizontal adjustment device.
- ★ ABB governor to ensure reliable working ability, stable and full scope of speed adjustment.
- ★ Mould blocks are made of (air cooling and water cooling) were made by special aluminum alloy with good points of light weight, high intensity, good wearing, small parameter of thermal expansibility etc.
- ★ Online UPS ensures working platform to return automatidly and to apart mould blocks from cooling mandrel when power is off suddenly or other fault.
- ★ Online UPS continuous power supply ensures working platform return automatically and apart forming blocks from cooling mandrel when power off suddenly or other fault.
- ★ Excellent profile design of pipes are with light weight and good appearance.



Model	Pipe Diameter	Extruder	Corrugator	Spray Bath	Haul Of Machine	Stacker
PP reinforced composite HV cable protective single wall corrugated pipe	ID 100-225	SJ-90X33	SBZ250A	LQM250B	QYC2550	JGJC2550
PP reinforced composite HV cable square protective single wall corrugated pipe	ID 100-175					
PE/PP double wall corrugated pipe	ID 100-225	SJ-90X30L SJ-75X33				

# HDPE /PP Φ200-Φ400 (ID)

## DOUBLE WALL CORRUGATED PIPE EXTRUSION LINE

- ★ Special designed die head assures long lasting screw life.
- ★ Corrugator adopts holistic and horizontal structure, small floor area and non-base on ground.
- ★ Work table can be regulated conveniently on lateral, vertical and horizontal direction.
- ★ ABB governor ensures reliable working ability, stable and full scope of speed adjustment.
- ★ Forming mold (air cooling and water cooling) is made of special high quality aluminum alloy, with advantages of light weight, high density, good wearing resistance, small parameter of thermal expansibility etc.
- ★ Long forming track and less mould blocks produced by CNC processing center were to ensure a high precision and good quality.

Pipe Diameter	Single screw extruder	Corrugator	Spray bath	Planetary saw	Stacker
Φ 200-400 ID	SJ-75×33L	SBZ500C	LQM6320	QG6320	JGJ500
	SJ-90×33				



- ★ Double-layer design of extruder die head is double screws synchronously and extrudes material through nip-adjustable double-layer outlet.
- ★ Excellent design, light weight and good-looking profile for shape of corrugated pipe.
- ★ Online UPS continuous power supply ensures working platform return automatically and apart forming moulds from cooling mandrel when power off or other fault.



# HDPE /PP $\Phi$ 500- $\Phi$ 800 ( ID )

## DOUBLE WALL CORRUGATED PIPE EXTRUSION LINE

- ★ Corrugator adopts advanced shuttle-type structure, rectangular working trail, easy and convenient to change and regulating forming mould and the long forming stroke makes effective forming of pipe. The sliding parts of the workbench are all made of high-strength alloy steel, good wearing resistance.
- ★ Broad screen LCD(liquid crystal display) human-computer interface system, CAN data bus technology can achieve full production process supervision and management.
- ★ Forming Mould is made of high quality aluminum alloy which possess good heat dispersion and hot corrosion resistance, adopt advanced CNC processing technic to control precision strictly.
- ★ Online UPS continuous power supply ensures working platform return automatically and apart forming moulds from cooling mandrel when power off or other fault.
- ★ Forming mould adopt water cooling to achieve the fast and better cooling, the long forming stroke makes effective forming of pipe.

Pipe Diameter	Single screw extruder	Corrugator	Spray Bath	Planetary Saw	Stacker
500-800 ID	SJ-90 × 33	SBZ1000A	LQM1000	QG9030	JGJ1000
	SJ-120 × 33				

- ★ Double-layer design of extruder die head is double screws synchronously and extrudes material through nip-adjustable double-layer outlet.
- ★ According to the customer need, adjust tubes flaring.



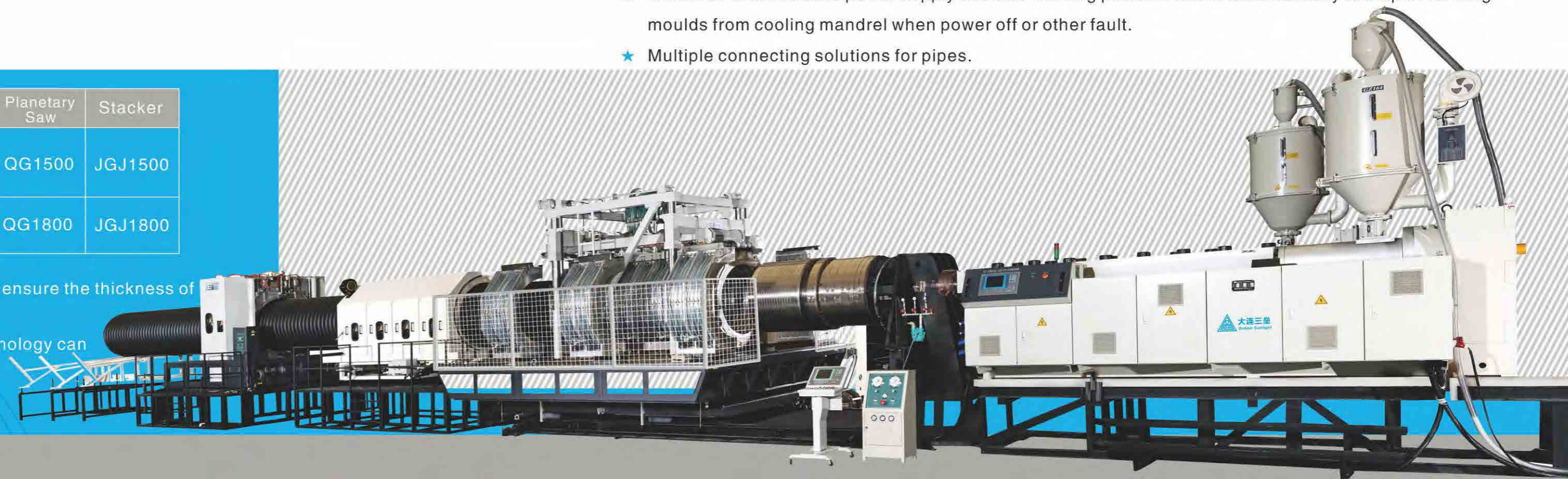
# HDPE /PP Φ800-Φ1600 (ID)

## DOUBLE WALL CORRUGATED PIPE EXTRUSION LINE

Pipe Diameter	Single Screw Extruder		Corrugator	Spray Bath	Planetary Saw	Stacker
800-1200 ID	SJ-150 × 30	SJ-120 × 33B	SBZ1500	LQM1500	QG1500	JGJ1500
	SJ-180 × 30	SJ-150 × 33				
1000-1600 ID	SJ-170 × 38		SBZ1800	LQM1800	QG1800	JGJ1800
	SJ-170 × 38					

- ★ Special designed die head with double-spiral co-extrusion structure to ensure the thickness of online beiling is well-distributed.
- ★ Big screen LCD human-computer interface system. CAN data bus technology can achieve full production process supervision and management.
- ★ German Siemens control system.

- ★ Corrugator adopts advanced shuttle-type structure, rectangular working trail, easy and convenient to change and regulating forming moulds and the long forming stroke makes good forming of pipes.
- ★ Forming mould(water cooling) is made of special high quality aluminum alloy which possesses good heat dispersion and hot corrosion resistance. It adopts advanced CNC processing tech to control precision strictly.
- ★ Online UPS continuous power supply ensures working platform return automatically and apart forming moulds from cooling mandrel when power off or other fault.
- ★ Multiple connecting solutions for pipes.





# SBZ200H

## HIGH SPEED CORRUGATED PIPE EXTRUSION LINE

Pipe Diameter	Extruder	Corrugator	Spray Tank	Planetary Saw	Stacker	Belling Machine
PE Φ110-Φ200 OD	SJ-90 × 33	SBZ200H	LQM200	QG200	JGJ200	-
	SJ-65 × 33					
PVC Φ110-Φ200 OD	SJSZ-92	SBZ200H	-	QG200	-	SBK2063

- ★ By advanced technology and many years working experience, Dalian Sunlight has been developed a new style corrugator which named SBZ200H with high production speed. SBZ200H corrugator can achieve faster production speed by pressure water cooling and vacuum system. And the technology is in first class of the world.
- ★ Corrugator mould block adopts premium aluminum alloy pressure casting technology, high-pressure water cooling system, upper and bottom vacuum design, patented structure built-in cooling and vacuum channels. These will make the pipe appearance pretty good, and the better cooling performance could realize high efficiency production.
- ★ The elliptical mould clamping trajectory design can realize quick clamping, which makes the extruder head channel shorter, lower melt pressure, and achieve high speed production.
- ★ The work table is supported by linear guide rails at the front ,back, left and right, which can make the mould block movement more precise.
- ★ The left and right mould blocks are driven by servo motors, which can make the moving of mould blocks high accuracy.
- ★ The aluminum alloy protective window makes sure saefty with good looking.



# SBZ630H/800H/1000H

- ★ SBZ630H/800H/1000H corrugators are high speed models with pressure water cooling system, which was developed by Dalian Sunlight.
- ★ The corrugators are able to produce HDPE/PP/PVC single and double wall corrugated pipes from ID200 to ID800mm.
- ★ The innovative design of the corrugators is that the mould blocks are driven by two servo motors which assure synchronization. By this way, the mould blocks could run more stable and reach the speed up to 6m/min. Besides, the corrugators are very simple in structure, so to achieve easy operation and maintenance.
- ★ The mould blocks are processed by advanced five-axis CNC centers. By unique mould block structure designing and special aluminum alloy, combined with pressure water cooling system, the mould blocks have very good cooling performance.
- ★ The vacuum suction is at the bottom of mould blocks for easy adjustment. Better vacuum system brings better pipes appearance.
- ★ By features above and others, the corrugators could bring great benefit to our customers due to the high speed, high efficiency and excellent performance.

## HIGH SPEED CORRUGATED PIPE EXTRUSION LINE



# HDPE /PP/PVC $\Phi$ 16- $\Phi$ 50 ( OD )

## SINGLE/DOUBLE WALL CORRUGATED PIPE EXTRUSION LINE

### HDPE FLEXIBLE DOUBLE WALL CORRUGATED PIPE EXTRUSION LINE

Pipe Diameter		Extruder	Corrugator	Single/Double Station Winding Machine
Single wall	HDPE/PP $\Phi$ 16- $\Phi$ 50 OD	SJ-65/30 Single screw extruder	SBZ50	SBW50
	PVC $\Phi$ 16- $\Phi$ 50 OD	SJ-51 Double screw extruder	SBZ50	SBW50
Double wall	PE $\Phi$ 32- $\Phi$ 50 OD	SJ-45 Single screw extruder SJ-45 Single screw extruder	SBZ50	SBW50

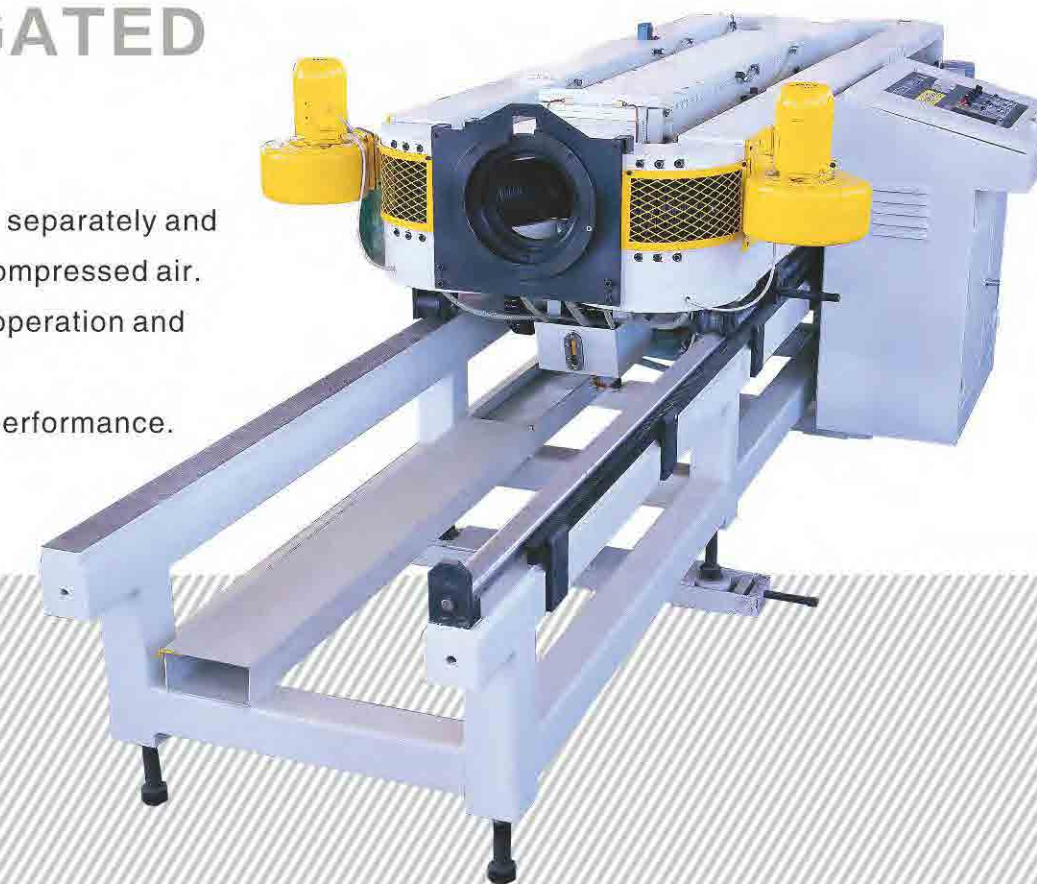
- ★ According to European and National standard, The design can meet the special requirement of the clients.
- ★ The corrugator is developed with horizontal closed structure, operated easily, well-presented and generous.
- ★ The corrugator is driven by gear unit with high driving accuracy.
- ★ The corrugator is effective water cooling type. Long forming stroke, high speed and good producing quality.



# PVC $\Phi$ 63- $\Phi$ 160 ( OD )

## DOUBLE WALL CORRUGATED PIPE EXTRUSION LINE

- ★ Corrugator adopts independent water and air circular system separately and form the double-wall corrugated pipe by cooling water and compressed air.
- ★ Corrugator adopts horizontal and full closed structure, easy operation and good-looking profile.
- ★ Corrugator adopts gear driving. High precision makes good performance.
- ★ Corrugator has air cooling and water cooling function.

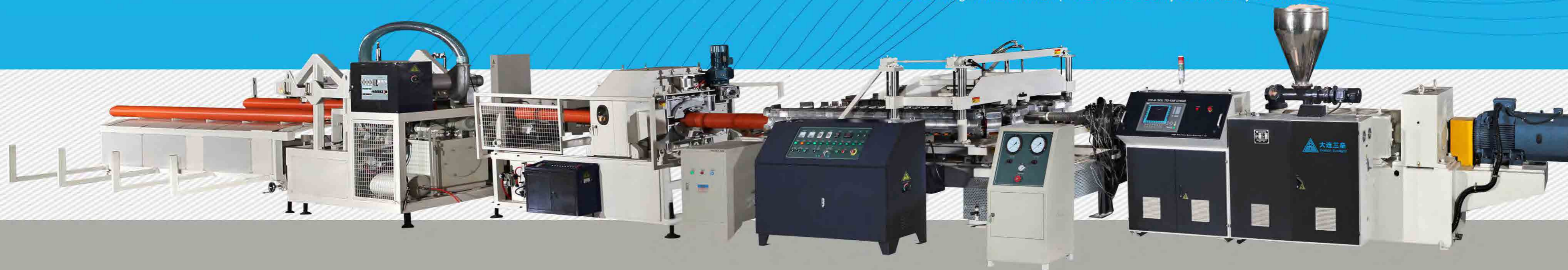


Pipe Diameter	Conical Twin Screw Extruder	Corrugator	Cutter	Belling Machine
$\Phi$ 63-160 OD	SJSZ-65	SBZ160	SQG160A	SBK2063

# PVC $\Phi$ 110- $\Phi$ 250 (OD) DOUBLE WALL CORRUGATED PIPE EXTRUSION LINE

Pipe Diameter	Conical Twin Screw Extruder	Corrugator	Planetary Saw	Belling Machine
$\Phi$ 110- $\Phi$ 250 OD	SJSZ-80	SBZ250A	QG2250A	SBK2550

- ★ The high speed high output corrugator which for the first time designed and manufactured by sunlight adopts holistic and horizontal type structure, small floor area and non-base on ground.
- ★ Working platform has transverse, lengthways and horizontal adjustment device.
- ★ Siemens governor or ABB governor to ensure reliable working ability, stable and full scope of speed adjustment.
- ★ Forming moulds(air cooling and water cooling ) were made by special aluminum alloy with the advantages of light weight, high intensity, good wearing resistance and low factor thermal expansion etc.
- ★ Long forming track and less mould blocks were produced by CNC processing center to ensure a high precision and good quality.
- ★ Double layer of extruder die head is double screws synchronously and extrudes material through nip-adjustment double layer outlet.
- ★ Excellent design, light weight and good-looking profile for shape of corrugated pipe.
- ★ Online UPS continuous power supply ensures working platform return automatically and apart forming blocks from cooling mandrel when power off suddenly or suddenly or other fault.



# PVC $\Phi$ 200 – $\Phi$ 500 (OD) DOUBLE WALL CORRUGATED PIPE EXTRUSION LINE

Pipe Diameter	Conical Twin Screw Extruder	Corrugator	Planetary Saw	Belling Machine
$\Phi$ 200 – $\Phi$ 500 OD	SJSZ-92	SBZ500	QG5020	SBK5020A



- ★ Special designed die head with double-spiral co-extrusion structure to ensure the thickness of online belling is well-distributed.
- ★ Corrugator adopts horizontal structure that can change moulds much easier compared with the vertical structure. Worktable can be regulated conveniently on lateral, vertical and horizontal direction.
- ★ The corrugators adopts DC speed governor which has reliable performance and wide scope of speed regulation.
- ★ Forming mould (water cooling & air cooling) is made of special high quality aluminium alloy, which possess advantage of light weight, high density, good wearing resistance, small parameter of thermal expansibility etc.
- ★ Imported accumulator ensure worktable back automatically and disengage forming mould from cooling mandrel when power off suddenly or other fault happens.



# PVC $\Phi$ 500(ID)– $\Phi$ 1400 (OD) DOUBLE WALL CORRUGATED PIPE EXTRUSION LINE



- ★ Corrugator adopts advanced shuttle-type structure, rectangular working trail, easy and convenient to change and regulating forming moulds and the long forming stroke makes good forming of pipes.
- ★ Big screen LCD human-computer interface system. CAN data bus technology can achieve full production process supervision and management.
- ★ Forming mould(water cooling) is made of special high quality aluminum alloy which possesses good heat dispersion and hot corrosion resistance. It adopts advanced CNC processing tech to control precision strictly.
- ★ Online UPS continuous power supply ensures working platform return automatically and apart forming moulds from cooling mandrel when power off or other fault.
- ★ Long forming track and less mould blocks produced by CNC processing center were to ensure a high precision and good quality.
- ★ Excellent design, light weight and good-looking profile for shape of corrugated pipe.

Pipe Diameter	Conical Twin Screw Extruder	Corrugator	Planetary Saw	Belling Machine
$\Phi$ 500ID– $\Phi$ 1200 OD	SJSZ-95	SBZ1200	QG1200	SBK1200
$\Phi$ 800– $\Phi$ 1400 OD	SJSZ-108	SBZ1500	QG1500	SBK1500



★ Strong Technical Strength-----There are more than 400 staff in Dalian Sunlight , one-third of them are senior engineers. The strong technical research ability and advanced UG 3D design software could ensure high precision designing. Besides, by decades of technical research and producing experience, the extrusion lines could achieve top level on international market.

★ Perfect Service System-----Dalian Sunlight has a professional after-sales service team which is supported by senior engineers with rich experience. Dalian Sunlight always takes customers's requests as top duty, quick response as work spirit. So our service team will help customer to solve the problem at the first time.

★ Powerful Machining Ability-----Dalian Sunlight is equipped with advanced five axis CNC machines, high precision multi-position machining centers, combined machining centers and NC milling machines . The machining centers are imported world first class brands from Germany(DMG), Japan(Mazak, Moriseiki, Mitsubishi, Kurashiki), Spain(Zayer) and Swiss(Schneeberger). The advanced machines centers could not only improve the processing precision but also shorten the delivery time.

