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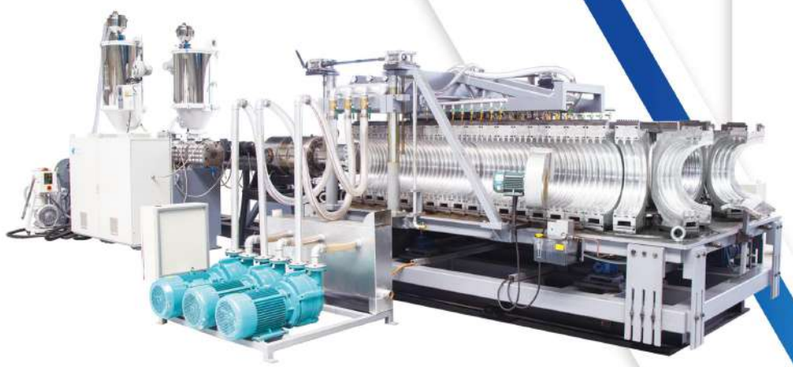


Pipe Extrusion Line

ZHANGJIAGANG CITY BENK MACHINERY CO., LTD

PLASTIC EXTRUSION SOLUTION

BENK MACHINE

It is our honor to serve you sincerely !

BENK MACHINE

Contents

P 01–02
Why choose us?

P 03–04
SJ series high efficiency single screw extruder

P 05–06
SJZ series conical double screw extruder

P 07–08
PE/PP/PVC corrugated pipe extrusion line

P 09–10
PVC/PE/PP single wall corrugated pipe extrusion line

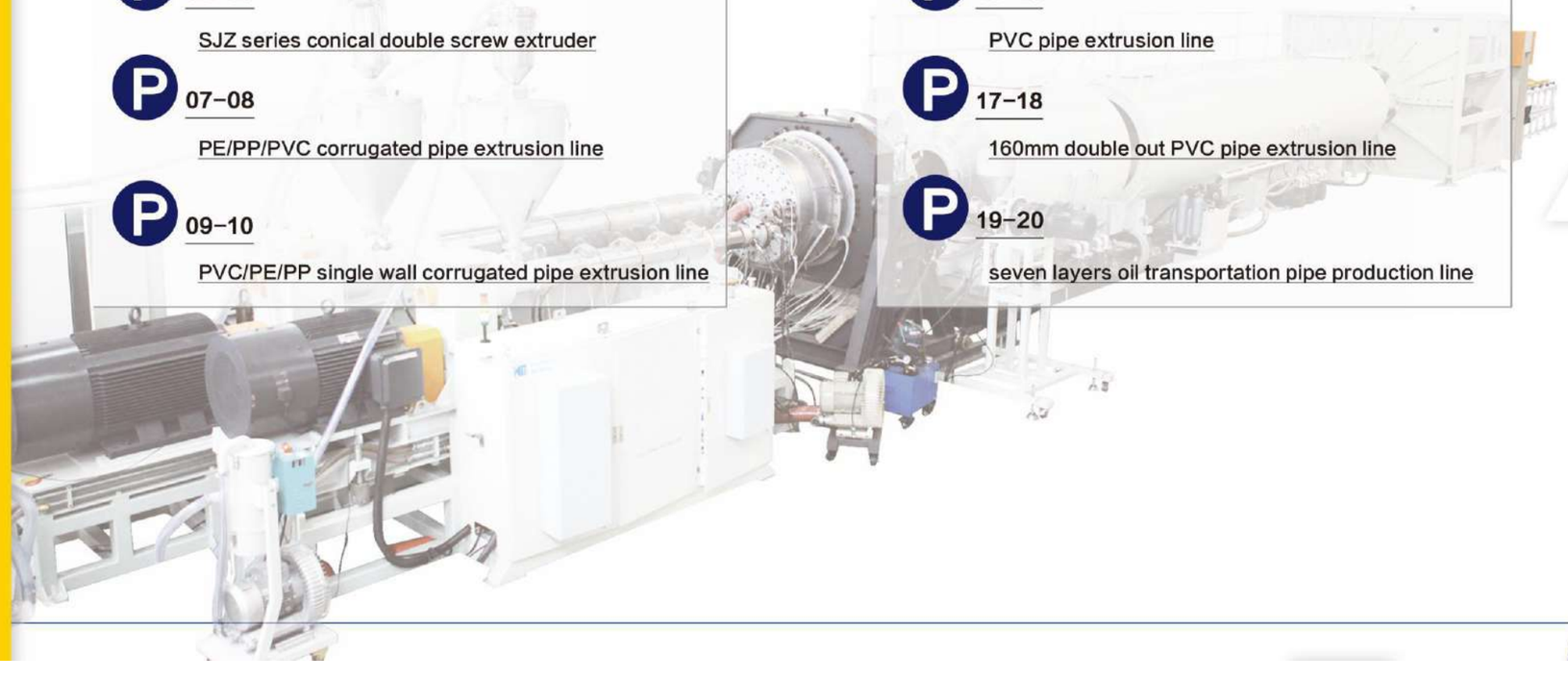
P 11–12
16–2000mm highe speed PE pipe extrusion line

P 13–14
PPR/PERT pipe high speed extrusion line

P 15–16
PVC pipe extrusion line

P 17–18
160mm double out PVC pipe extrusion line

P 19–20
seven layers oil transportation pipe production line



Why choose us?

BENK MACHINE
Company Profile

BENK is a professional company that offers plastic pipe extrusion machine, plastic pipe extrusion line and plastic recycling machine with a self R&D technology team with more than ten years of experience.

The machines that we offer can be customized to meet your requirements. We offer a production line drawing and a suggestion that best suits your factory before you make a purchase. We also provide free formula and a support team that will help you get started.

We have the best engineer who can install plastic extrusion production line and plastic extruders at a reasonable cost. We also offer training to your staff at your request.

With ten years of experience, our staff will ensure that the delivery is fast. We also make sure that we have the main parts at all times should you need a replacement part.

High-quality

When quality is concerned, we always ensure that we offer the best. Every machine and system that we offer is high-quality from the beginning of assembly up to the end product. Quality is assured.

The team

To achieve and maintain our goals, we have a great interaction between the planners, marketing executives and engineers to achieve quality and performance targets within reason able time frames. The team is aware that mediocrity or perfection is the extrusion of an attitude.

Economical

The BENK Company want to grow with its customers. To achieve this goal, we provide the most competitive prices as we establish long-term cooperation.

Customer satisfaction

There is a constant customer orien tation as part of doing business. All the customers end up being sati- sfied.

Innovation

Any good machine is based on the most advanced technology. We base our innovation on technology. Our machines are built with the most recent technology in the market.

The BENK Company has been a leading supplier of recycling systems, extrusion systems, and extrusion line systems. The main reasons are:

- **H**igh-quality products
- **F**ast service
- **E**xcellent delivery schedules
- **V**ery competitive prices

Our Vision

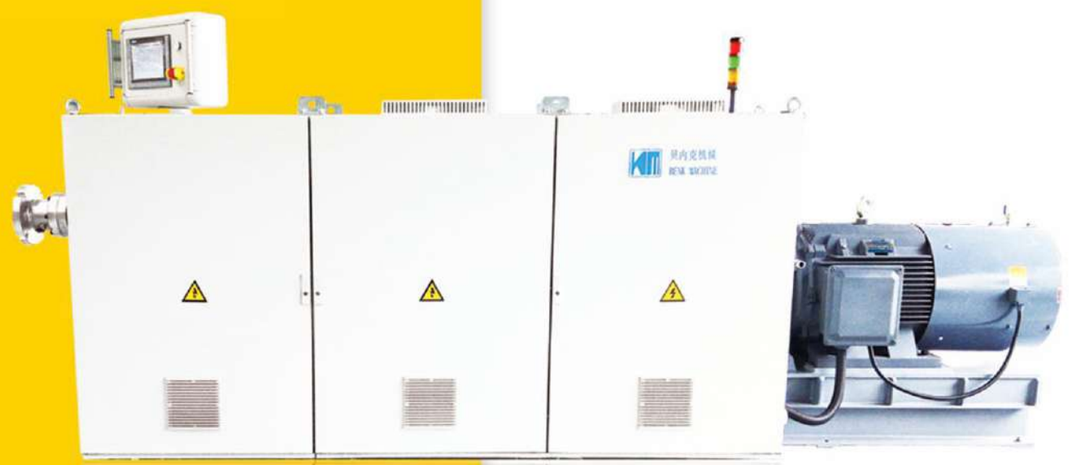
- We aim at setting the bar high for internationalizing our machinery and equipment to fulfill the objective of being the best manufacturer of extrusion industry.
- We aim at creating a mutual benefit between customers and by that we endeavor to develop high-quality extrusion machinery and offer the most competitive equipment.
- The most valued service-oriented motto is the satisfaction of our customers.

SJ series high efficiency single screw extruder

Model	BKE60/38	BKE75/38	BKE90/38	BKE120/38
Screw diameter	60	75	90	120
L/D	38:1	38:1	38:1	38:1
Motor	110KW	160KW	250KW	315KW
Capacity	450KG	650KG	1100KG	1400KG

Main Features:

1.BENK use dedicated high speed screw and gear box which has high output for single screw extruder.
2.BENK adopt slotted bushing structure on feeding part of screw which can increase 30-40% output.
3.L/D ratio is big, length of screw is long, high output, good plasticizing, lower power consumption.
4.BENK use special design on screw which can reduce power consumption on unit production.



SJZ series conical double screw extruder

Main Features:

1.High output, and good plasticizing

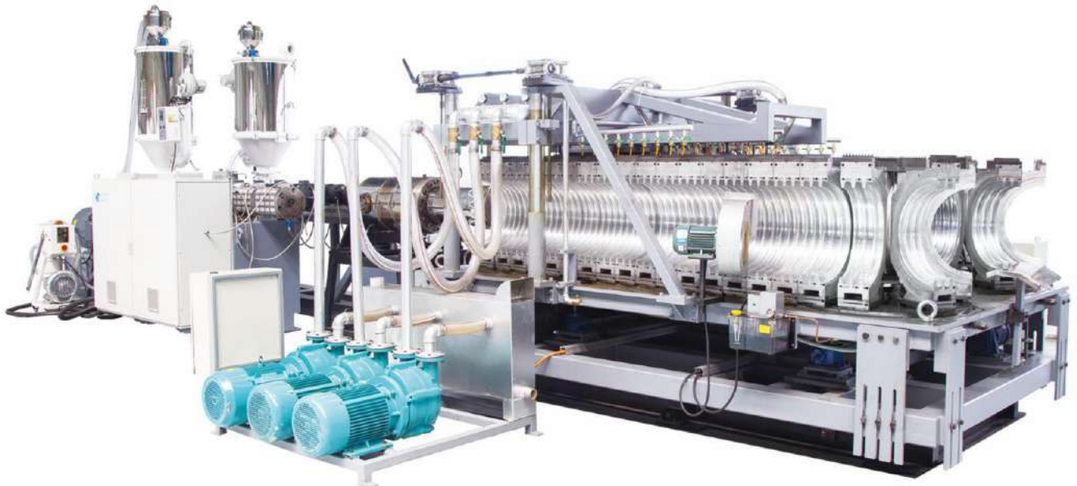
2.If you need put **more additives in your formula, such as calcium**, we need to use dedicated designed screw as per your formula, the special screw can help you save cost in your final products and make better quality products.

3.Screw and barrel are mad by **bi-metallic** construction which has longer service life.

4.Use Siemens motor and electric parts can improve extruder' s working stability.

Model	SJZ45/90	SJZ51/105	SJZ55/110	SJZ65/132	SJZ80/156	SJZ92/188
Screw OD	45/90	51/105	55/110	65/132	80/156	92/188
Screw QTY	2	2	2	2	2	2
Speed	1-45	1-45	1-40	1-35	1-37	1-32.5
Effective length	985	1070	1200	1440	1800	2500
Capacity	80-100	100-150	150-200	200-250	350-400	700-800
Motor	15	18.5	22	37	55	110

PE/PP/PVC corrugated pipe extrusion line



Main Features:

1.Double-wall corrugated pipe is formed by vacuum and water.

2.Forming die is cooled by cooking water, cooling effect is good which can increase production capacity.

3.BENK forming machine is horizontal, controlled by **SIEMENS controlling system** which is more precise.

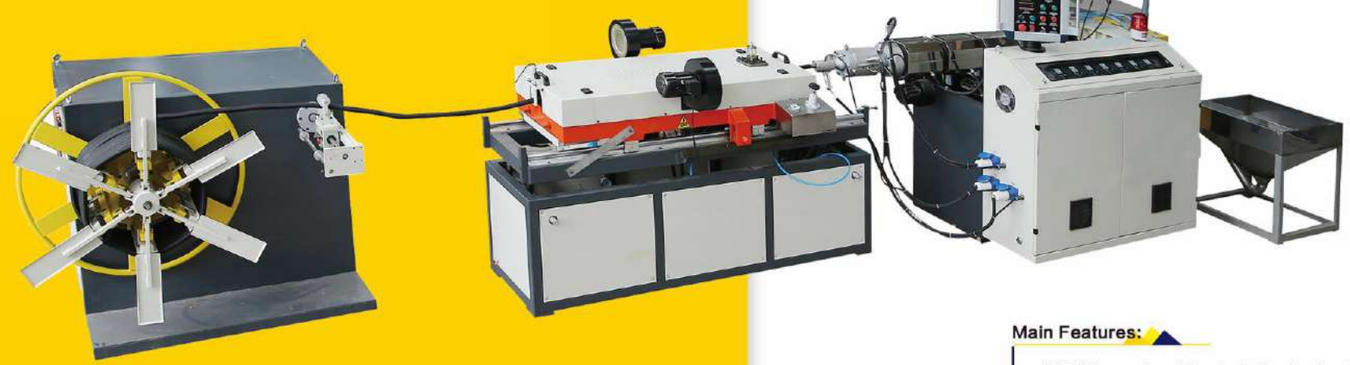
4.Water jacket adopts **aluminum plating alloy** which has better heat transfer performance.

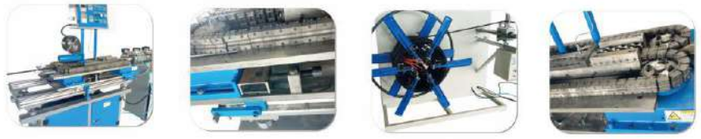
5.You can choose on-line **belling function** or not in forming die.

PE/PP corrugated pipe extrusion line			
Pipe size	**Type**	**Extruder**	**Output**
50-160mm	Single wall	SJ75/33	150-250KG/H
	double wall	SJ75/33 + SJ65/33	350-400KG/H
200-800mm	Double wall	SJ120/33 + SJ90/33	600-1000KG/H
800-1200mm	Double wall	SJ90/38 + SJ75/38	1200-1500KG/H
PVC corrugated pipe extrusion line			
Pipe size	**Type**	**Extruder**	**Output**
50-160mm	Single wall	SJZ55/110	150-200KG/H
	double wall	SJ55/110 + SJZ51/105	200-300KG/H
200-500mm	Double wall	SJZ80/156 + SJZ65/132	500-650KG/H

PVC/PE/PP
single wall corrugated pipe extrusion line

Material	PE/PP		PVC
Extruder	SJ65 single screw extruder		SJZ45/90 conical double screw extruder
Pipe range	9-50mm		9-50mm
Capacity	40-60KG	60-80KG	40-80KG
Main motor	22KW	30KW	18.5KW
Mould QTY	42	72	42
Production speed	8-15m/min	10-25m/min	8-15m/min
Cooling type	Air cooling	Water cooling	Air cooling





Main Features:

1.BENK use closed track design for forming machine, no chain connection between forming dies which is easy to change for your operator.

2.Forming dies are made by **high quality 45# steel with 40CR nitriding**, it will be more wear-resistant and durable.

3.Single-wall corrugated pipe is **formed by vacuum and air**.

4.BENK use **double-disc coil** to collect pipe in roller.

16-2000mm high speed PE pipe extrusion line

Main Features:

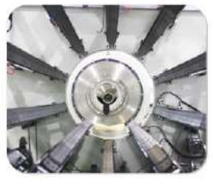
1.BENK will supply different data of HDPE extrusion line as per your demands and useful for HDPE pipe, such as different application of pipe, different size, pressure of pipe.

2.BENK screw and barrel are designed with special layout and produced by **Bi-matellic** in order to make sure good plasticizing when **barrel is in high-speed rotation, then can achieve higher output with lower power consumption.**

3.BENK use integrated gravity gauging system in the HDPE extrusion line which can test and control the quality of final pipes, then it can save the production cost for you, and reduce damaged pipes.

4.BENK use **stainless steel board(SS304) with 3-5mm thickness** to make vacuum tank and cooling tank, all tanks designed with reasonable pipe layout and low power consumption.

5.BENK extrusion die adopt **pumping system**, increase cooling effect, reduce length of cooling tank, increase production effect and reduce cost for you.



Model	Pipe range(mm)	Capacity(KG/H)	Extruder	Type
PE63	ϕ16-ϕ63	350-450	SJ60/38	Double out
PE125	Φ32-ϕ125	350-450	SJ60/38	Single out
PE250	Φ75-ϕ250	500-650	SJ75/38	Single out
PE315	ϕ110-ϕ315	850-1000	SJ90/38	Single out
PE450	ϕ160-ϕ450	850-1000	SJ90/38	Single out
PE500	ϕ200-ϕ500	850-1000	SJ90/38	Single out
PE630	ϕ250-ϕ630	850-1000	SJ90/38	Single out
PE800	Φ500-ϕ800	1000-1200	SJ120/38	Single out
PE1200	Φ710-ϕ1200	1500-1800	SJ75/38 + SJ90/38	Single out

BENK MACHINE

PPR/PERT pipe high speed extrusion line

Model	BKE-63	BKE-63	BKE-160	BKE-160
Pipe range	16-63mm	16-63mm	75-160mm	75-160mm
Extruder	SJ65/33	SJ60/38	SJ75/33	SJ75/38
Type	Single out	Double out	Single out	Single out
Capacity	100-150KG/H	350-400KG/H	200-250KG/H	450-550KG/H
Main motor	45KW	110KW	75KW	160KW

Main Features:

1.BENK PPR extrusion line can produce PE, PPR or PERT in high-speed production and working stably, **production speed can reach 25-50m/min.**

2.BENK use dedicated **screw and high rotation gearbox** in the production line in order to increase product capacity.

3.BENK use **3mm thickness SS304** board in the vacuum and cooling tank, vacuum tank adopt **double chamber** construction inside in order to make sure good cooling effect.

4.BENK use high-speed dust-free cutter, small noise and smooth cutting on surface.

5.BENK use double-disc coil, can roll pipe smoothly in one disc even under high-speed production.

PVC PIPE EXTRUSION LINE

Model	BKE63	BKE110	BKE160	BKE315	BKE450	BKE630
Pipe range	16-63mm	32-110mm	75-160mm	110-315mm	200-450mm	315-630mm
Extruder	SJZ51/105	SJZ55/110	SJZ65/132	SJZ80/156	SJZ80/156	SJZ92/188
Main motor	18.5KW	22KW	37KW	55KW	55KW	110KW
Capacity	100-150	150-200	20-250	350-400	350-400	700-800

Main Features:

1.BENK use **conical twin screw extruder** for the production line which has stable production function, good plasticizing effect and high production capacity.

2.BENK use easy and **precise design for PVC pipe extrusion die**, so it will easy to learn and operate.

3.BENK use **planetary cutter** which has chamfer uniform function.

Main Features:

4.BENK will use separated chamber for vacuum tank when produce big size PVC pipe.

5.BENK has auto **on-line stock machine**, and you can choose R type mold or U type mold.

6.BENK high speed mixer has small noise and dust when it is in working.

BENK MACHINE

160mm double out PVC pipe extrusion line

Main Features:

1.BENK use **separated two vacuum tanks** for pvc double-pipe extrusion line in order to increase cooling effect and reduce damaged pipe.

2.BENK use separated two extrusion die to increase output and plasticizing effect.

3.BENK use **separated two controlling system** for two pipes which can stabilize production and **increase production speed**, and make sure to cut pipe with required length

4.BENK use dust-free cutter with chamfer design which can reduce production process for you.

5.BENK has **double-pipe belling machine** in the production line, and including R type mold and U type molds.

Model	BKE-63	BKE-110	BKE-160
Type	Double out	Double out	Double out
Pipe range	20-63mm	50-110mm	75-160mm
Extruder	SJZ51/105	SJZ65/132	SJZ80/156
Output	100-150KG/H	200-250KG/H	350-400KG/H
Main motor	18.5KW	37KW	55KW

seven layers oil transportation pipe production line

Main Features:

1.**Five layer HDPE/EVOH pipe extrusion line** and **two layer PE co-extrusion line** are combined together by our technology accumulation for this special seven layer oil pipe making machine which achieve the sync control, stable production and reliable performance.

2.High efficient extruder adopts special designed screw & barrel ensures the rapid material dispersed and stable products extruded at high speed.

Main Features:

3.**Unique five layer co-extrusion technology**, we adopt more advanced way to reduce pressure of mold cavity in order to reduce the machine energy consumption.

4.Inner pipe extruder, outer pipe extruder and haul off machine are **sync controlled by PLC system** which can be operated easily, and reduce the damaged pipe with error.

5.Adopted imported PLC system to ensure good quality products and precise requirements on pipe under high-speed extrusion.

Model	BKE-110
Screw diameter	75mm
L/D	36：1
Pipe range	63-110mm
Capacity	650KG/H
Installation power	210KW
Installation size	58*4*3.2m