

Twin-screw puffing food snack equipment

What are the advantages of choosing our twin-screw puffing food equipment?

1.Twin-screw expansion line product diversification

The main feature of the twin-screw puffing snack production line is the variety of functions. The puffing snack of different flavors can be varied through a series of operations such as changing molds and changing seasonings.

2.Wide range of raw materials

Twin-screw puffing production line can use corn, rice, wheat, starch, black rice, mung bean, buckwheat and other kinds of grain flour as raw materials.The fineness of raw materials should be above 60~80mm.

3.Product diversification

The twin-screw puffing production line can also be adjusted for pet feed, baby nutrition rice powder, sandwich rice, breakfast cereals and other products.Product diversification, never let customers down!

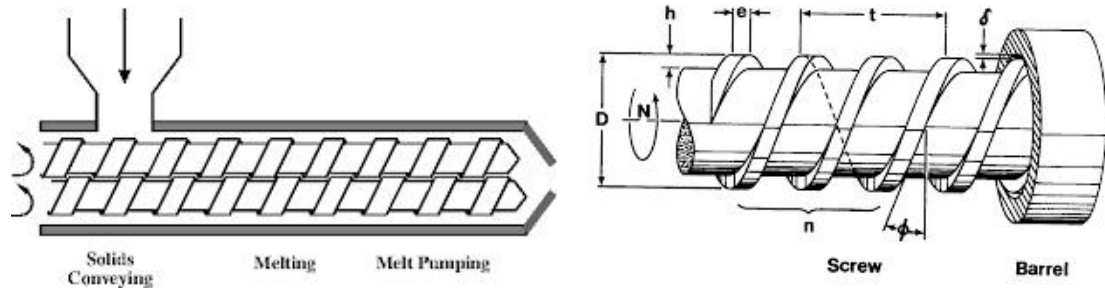
4.The equipment is environment-friendly and pollution-free

No waste water or gas will be discharged during the operation of the bulking equipment.

According to different output, twin-screw extruder can be divided into the following types:

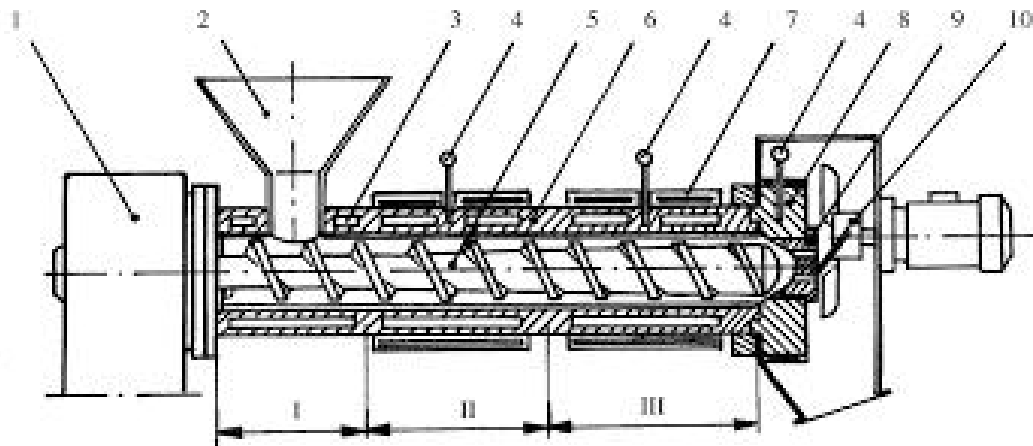
Model Name	DL56-III	DL65-II	DL70-II	DL85-II	DL32-II
Full name	Twin screw extruder				
Line item	Three line four items (2firing line 1null line 1baseline)				
Operation	Press the knob manually	Press the knob manually	Press the knob manually	Press the knob manually	LCD touch screen
Mains input	380V/50HZ (Other power supply voltage can be customized)				
Installed power	35KW	46KW	46KW	90KW	10KW

The real power consumption	25KW	30KW	30KW	55KW	7KW
Production capacity	120-150Kg/h	150-180Kg/h	200-260Kg/h	300-500Kg/h	10-15Kg/h
Size dimension	2.5×0.8×1.8 m	3.2×1.0×2m	3.2×1.0×2m	4.5×1.2×2.4 m	21×0.65×1.6 m
Thickness of stainless steel	1.2mm				
The screw material	38CrMoAL/38 Luo manganese aluminum				
The length of the screw	1050mm	1520mm	1520mm	1563mm	mm
The screw diameter	65mm	65mm	70mm	85mm	30mm
Motor power	22kw	30kw	30kw	55kw	5.5kw
Heating power	2*5kw 10kw	10kw	12kw	16kw	kw
Feeding power	0.75KW	0.75kw	0.75kw	1.5kw	kw
Rotary cutting power	0.75KW	0.75kw	0.75kw	1.5kw	kw
The pump power	0.37kw				0.12kw
Water cycle	Be able to customize				Standard configuration
<p>The machine is composed of feeding system, extrusion system, rotary cutting system, heating system, transmission system and control system. Adopting advanced screw extruding technology, using high temperature and high pressure to cure the material and extrude it into shape.</p> <p>The main machine adopts frequency conversion speed regulation to ensure the stability of the production process. Product design and color, variety, appearance beautiful, natural and realistic, exquisite texture, wide use of raw materials.</p>					



Antinutrients and toxins affected by extrusion cooking

Compound	Foods	Factors favouring reduction
Allergens	Peanuts, Soy	Increased Shear; Added Starch
Glucosinolates	Canola	Added ammonia
Glycoalkaloids	Potato	Added thiamine
Gossypol	Cottonseed	Higher feed moisture
Mycotoxins	Grains	Increased mixing, lower temperatures; added amine sources
Protease inhibitors	Legumes, Potato	Higher extrusion temperature



Extrusion cooking is one of the most important food processing technologies used for the production of breakfast cereals, ready to eat snack foods and other textured foods. Nowadays extrusion cooking is a widely used technology in the agri-food processing industry. It is a popular unit operation for producing a variety of food products with numerous ingredients requiring a wide range of processing conditions and includes starch, protein, lipids, water and additives.

There are ambiguous effects of extrusion cooking on nutritional quality of expanded snacks. Because of its beneficial effects such as destruction of antinutritional factors, increased soluble

dietary fibres, reduction of lipid oxidation and contaminating microorganisms, it plays an important role in the production of a wide variety of foods and ingredients.

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