

# China Best (Professional) Pet Food Making Machine Manufacturer

## Introduction

The pet food industry is undergoing a technological revolution, driven by advanced pet food making machines and their derivatives, such as pet food extruders . These innovations optimize production efficiency, ensure consistent quality, and address growing demands for sustainable practices. This article explores how modern pet food production equipment transforms raw ingredients into nutritious meals while tackling industry challenges.

### **Pet Food Production Line Detail Introduction**

The [pet food production line](#) is a new [pet food production line](#) successfully developed by the Loyal pet food production technology team combined with years of experience in the development of twin-screw extruders.



The most scientific nutritional ratio and easy digestion features to adapt to the ever-evolving pet food market.

The technical advantages that the Loyal pet food production process team has achieved over the years in the puffing extruder are fully reflected in the [pet food production line](#).

The dog food production line is simple to operate and easy to learn, thus ensuring that the product is done at a specific temperature, pressure, humidity and time in pet food plant.

The reasonable structure design of the cat food production line, the special material, and the fast automatic cleaning performance ensure the stability of the machine and easy maintenance in pet food manufacturing process.

The floating fish feed production line adjusts the pet feed process parameters such as raw materials, temperature, moisture, etc., so that the pet food has the characteristics of novel shape, unique taste, rich nutrition and delicate organization, which is suitable for the taste of different pets.

The floating fish feed pellet machine is also widely used in the production of dog, cat, fish and shrimp, fox, bird and various pet feeds. It is an ideal choice for different pet food manufacturers.

### **Pet Food Production Line Process Flow Chart**

Material Crushing ? Conveying ? Material Extruding By Twin-screw Feeding Extruder ? Shifting ? Conveying ? Drying Equipment (electric Furnace, Gas Fuel Oil Furnace Or Steam Furnace) ? Oil Filling ? Double Drum Seasoning System ? Cooling Conveyor ? Packaging Machine



With the continuous increase of the types of pets, all kinds of pets are different from adults and children, and the requirements for pet food are also constantly increasing.

Loyal has researched and developed various types of pet food production lines according to the market demand of pet food. According to the different output, the pet food manufacturing equipment also has various configurations.

The pet food processing machine can adjust the raw materials, temperature, moisture and other process parameters, so that the product has the characteristics of novel shape, unique taste, rich nutrition and delicate organization, which is suitable for the taste of different pets. This pet food processing equipment is widely used in the production of dog, cat, fish and shrimp, fox, bird and various pet feeds, and is an ideal choice for different pet food manufacturers.

#### 1. Mixer -- Raw material preparation:

The raw materials of meat, fish meal, cornmeal, and other materials for the production of pet feed are transported to the pet food factory. Then they are transported to the cleaning machine to remove impurities and dust and stored in the storeroom in pet food plant.

#### 2. Pet food Grinding Machine:

Some raw materials need to be ground to a certain targeted powder by a grinder before processing. And different animals are suited to different levels of fruity feed.

### 3. Feeder -- The ingredients:

According to the feed formula, quantitative weighing is necessary to determine a variety of feed ingredients. The machine is controlled by the central control panel with high precision, and it's very easy to operate, so the data got is very precise with little error.

### 4. Mixing machine -- Mixing ?

According to the different output of the production line, choose different types of mixing machine. There are two main models for you to choose. The ingredients are mixed in a mixer, and the mixing time depends on the feed formulation and feed composition.

### 5. Pet Food Extruder Machine -- Granulating:

According to the output of the production line, different types of Loyal extruders are selected. The output can range from 20kg/h to 1000kg/h. Corn meal, grain meal, bone meal, meat meal, etc. can be used as raw materials. The specific product shape

Add the mixed feed to the pelletizer, and followed by several steps:

- a. Firstly, pouring the mixed ingredients into the feeder, then put them into the granulator but control the speed.
- b. The dry mixture and added steam are mixed in a mixer and then transported to the granulation chamber by gravity or forced feeding system.
- c. In the pelletizing chamber, the mixed pet food material will be pushed through the pelletizer mold to become its target.

### 6. Multi-layer oven:

Most of the ovens are electric ovens. The temperature is adjusted between 0-200 degrees through the control cabinet. The contact part with the material is a stainless steel double-layer mesh bag. The baking time can be adjusted according to the speed.

### 6, cooling and screening:

The produced feed is hot and needs to be sent to the conveyor cooler, and after cooling, it becomes firm and durable. while the pellets flow

directly into the screwdriver.

Seasoning line: there are octagonal, cylinder, single-drum, and double-drum seasoning lines, which are configured according to output and product properties.

7. Packing:

The finished pet feed needs to be packaged before it can be marketed.

## The Evolution of Pet Food Manufacturing Technology

Gone are the days of manual mixing and rudimentary processing. Today's pet food making machines integrate cutting-edge extrusion, drying, and coating technologies. High-shear mixers blend proteins, grains, and vitamins with precision, while twin-screw extruders shape kibble textures tailored to pets' dietary needs. For example, pet food extruders enable customization for hypoallergenic or grain-free formulas, catering to niche markets. Such advancements not only boost output but also reduce human error, ensuring every batch meets strict nutritional standards.

## The Detail Descriptions of The Pet Food Production Equipment

| No. | Item          | Detail descriptions of the pet food machine                                                |
|-----|---------------|--------------------------------------------------------------------------------------------|
| 1   | Raw materials | Corn powder, bone powder, meat meal, fish meal, soya meal and other grains' powder, etc.   |
| 2   | Consumption   | Low power and labor consumption                                                            |
| 3   | Capacity      | 100-150kg/h,<br>150-200kg/h?200-300kg/h,<br>300-500kg/h,<br>500-1000kg/h,1000kg/h-1200kg/h |



|   |                  |                                                                                                                                                  |
|---|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | Machine material | Stainless steel                                                                                                                                  |
| 5 | Products         | This line can produce various taste pet food, and the raw materials can be extruded into various shapes by the mold by adjusting the parameters. |



## Sustainability Challenges and Innovative Solutions

From extrusion to eco-innovation, pet food production equipment is reshaping how we nourish pets. As intelligent monitoring tools become

mainstream, the focus shifts to harmonizing productivity with planetary health. For manufacturers, investing in next-gen pet food making machines isn't just a business strategy—it's a commitment to safer, smarter, and more sustainable animal nutrition.

## Technical Parameter of the Pet Food Processing Equipment

### Technical Parameter?

| Model   | Installed Power | Power Consumption | Output        | Dimension         |
|---------|-----------------|-------------------|---------------|-------------------|
| LY 65   | 70kw            | 45kw              | 120-150kg/h   | 20000×1200×200mm  |
| LY 70   | 105kw           | 85kw              | 200-250kg/h   | 22000×1500×200mm  |
| LY 85   | 160kw           | 130kw             | 300-500kg/h   | 25000×2500×2300mm |
| LY 95   | 220kw           | 154kw             | 800-1000kg/h  | 28000×2500×3500mm |
| KING135 | 241.2kw         | 180.9kw           | 1500-2000kg/h | 45000×2000×3000mm |





## The Main Features and Functions of Pet Food Extrusion Equipment

|          |                                                                                |
|----------|--------------------------------------------------------------------------------|
| Features | Use advanced frequency control skills, stable work and less power consumption. |
|          | Automatic heating control system, easy to work and more accurate parameters.   |
|          | The equipment is equipped with a water circulation temperature control system. |

|           |                                                                                                                                                                |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | The equipment feeding motor, host motor, and rotary cutting motor all adopt frequency conversion speed regulation.                                             |
| Functions | Series of double-screw extruder mainly consist of feeding system, extruding system, cutting system, heating system, lubricating system and controlling system. |
|           | Feeding system, extruding system and cutting system all adopt frequency conversion timing to gain powerful drive, stable perform, and electricity saving.      |
|           | Screw are made of alloy and processed by special technique to possess high intensity, abrasion resistant and longer using life.                                |
|           | It adopts advanced screw extrusion technology and uses high temperature and high pressure to mature and expand the material into one-time completion.          |

## Our products?

Pet foods vary in various types and shapes to meet the nutritional needs and feeding preferences of different pets. The shape is usually granular, including round, bone, fish or star, for easy storage and chewing. The diversity of shapes not only improves pets' appetite, but also supports personalized feeding programs of different ages, body shapes and health states.



## **What is the advantages of the pet food production equipment?**

1. Different types of machines can meet the needs of producing different kinds of food.
2. Our machine adopts advanced frequency control technology, greatly reducing power consumption and manpower consumption.
3. We have famous partners like Siemens.
4. Our machine materials include food grade stainless steel SS304 and SS201.

5. Speed control converters are used in the feeding system, extrusion system and cutting system.

### **Advantages of Pet Food & Treats Production Lines :**

1. Made of 304 stainless steel, durable, not easy to wear and damage.
2. Adopting a fully automated production method, the production efficiency is very high, and the output is larger.
3. Using a PLC control system, easy to operate, workers can get started after simple training.
4. It can automatically adjust the temperature, moisture, and other process parameters, and the usage method is very flexible, suitable for processing and producing various raw materials.
5. The dog food produced has a unique taste, novel appearance, rich nutrition, and excellent palatability.
6. The advantages of the dog food production line are very prominent. It has more obvious benefits than traditional equipment. The dog food production line mainly goes through the production processes of raw material mixing, screw conveying, extrusion, air conveying, drying, air conveying, seasoning, cooling, and packaging.

### **Features of Dog treat manufacturing equipment:**

1. Stable operation and advanced technology can meet the production needs of different customers in the current market.
2. The design is reasonable, the performance is superior, the produced feed has good taste, rich nutrition, and can meet the needs of animals.
3. The raw material, temperature, moisture, and other process parameters of the feed production equipment are adjustable, which is very convenient to use.

4. The manufacturing process of feed pellets, from the crushing of raw materials to the packaging of finished products, is completed at one time with a high degree of automation.
5. The performance of the whole machine and product quality have reached the world's advanced level, with high efficiency, low consumption, and convenient operation and maintenance characteristics.



**How Important is Dog Food?**



Dog food has a very positive effect on the health of dogs. Dog food on the market is mainly divided into two categories, one is commercial food and the other is natural food. Commercial foods have added some additives, which have better palatability, and dogs like to eat more. Natural foods do not have any additives and the raw materials are also very healthy.

With the increase in the number of pet owners, the pet food industry has also become hot. Pet snacks, pet nutrition, dog food, and cat food have become the most profitable products in the pet industry. Nowadays, competition in the pet food industry is very fierce. Only by using equipment with outstanding performance can we win market recognition with high-quality products.

### **Shapes of pet feed and fish feed:**

- Granule type: spherical (microgranules for ornamental fish), formed by extrusion through a die.
- Flakes: flakes are suitable for small fish or turtles, softened by water.
- Blocks: compressed into bricks, used for long-term feeding in aquaculture.
- Special-shaped designs: bone-shaped dog food, star-shaped cat food, to increase pets' interest in eating.

### **Reference**

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