



ZHENGZHOU ZENO MACHINERY CO.,LTD
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Flowchart of Fish Feed Production Line

ZNFGP series fish feed production line can produce floating fish feed, sinking fish feed from the grain, the soybean, the cereal, or other materials.it is newly developed to meet the demand of intensive production of fish feed pellets.this fish feed production line can produce different shapes, rich nutrients and fine texture,unique flavor to meet the different eating habit of fish.Our fish feed production line can produce various kinds of pellets for different fishes,including tilapia,halibut, catfish pellets, CatCarp ,shrimp,Hemp pellets, CSL pellets,etc.our fish feed production line is the best choice for medium and large sized fish farmer,small and medium size fish feed processing factory.



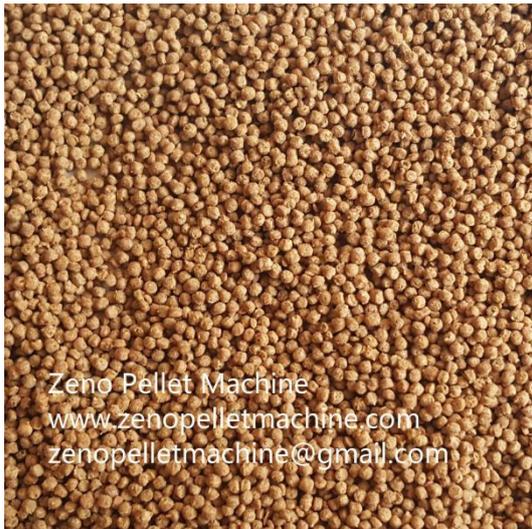
Features of Feed Pellet Production Line

- 1.New technology, low energy consumption,The modular structure is convenient for assembly and disassembly, facilitating the shipment and installation.
- 2.Final pellet shapes and sizes can be various by changing the mould. For fish and shrimp feed pellet, the floating time in water can be adjusted by the extrusion degree adjustment.
3. PLC controlled, alarm device is available. Easy to operate and maintenance.
- 4.Processing is processed at high temperature instantaneous process, greatly reducing the decomposition of nutrients in feed, at the same time improve the protein (through the degeneration of protein) and starch (through starch paste) digestibility, to improve the palatability of the product.
- 5.High temperature kills some bacteria, which can improve the nutrition of feed pellets and improve the immunity of fishes
- 6.In order to ensure the quality and the capacity, there is the special pressure-increased device. Besides, the electric heating device improve the feed expansion rate.

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Raw material crushing → mixing materials → pellet extruding → pellets drying
→ oil spraying process → pellets cooling → pellet packing

1. Crushing

Raw materials are crushed by the fish feed crusher. The particle size directly effects the efficiency of pellet making. Once feeding into the crushing chamber, materials are smashed under the high-speed rotation of hammers. With the high pressure and rapid-moving of airflow, the smashed raw materials are further reduced into particle size or very small pieces for further processing. Therefore fish feed hammer mill is suitable for fish feed pellet grinding in the production line.



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2.Mixing

In order to ensure the pellets has uniform nutrition, it needs to mix all the raw materials before the extruding process. The Screw conveyor connects crusher and mixer. This process is very important to the finished pellet quality.We provide feed mixer with a single-shaft and twin-ribbon. It reinforces convection, shearing, and mixing effects and is an essential parts of the whole line.

3. Extruding

Feed pellet extruder will extrude feed powder into sized pellets after mixing. Dry type fish feed extruder is the significant equipment with reliable performance, easy operation and cheap price, which is economic for small and medium scale production. Therefore dry type feed pellet making machine are recommend in the feed pellet plant.



4. Drying

Fish feed pellets from pellet making machine need to lower high moisture and temperature. So mesh belt dryers should be equipped in the production line. With simple structure, it is easy to install and maintain, and ideal for fish feed pellets drying.

5. Oil Spraying Process

For acquiring better smell and taste, the oil spraying machine can be used to spraying oil to the surface of fish feed pellets coming out of the dryer. It sprays atomized oil with high speed on the up and down surface of pellets, and the excessive oil can be recycled through filter.

6. Pellet Cooling

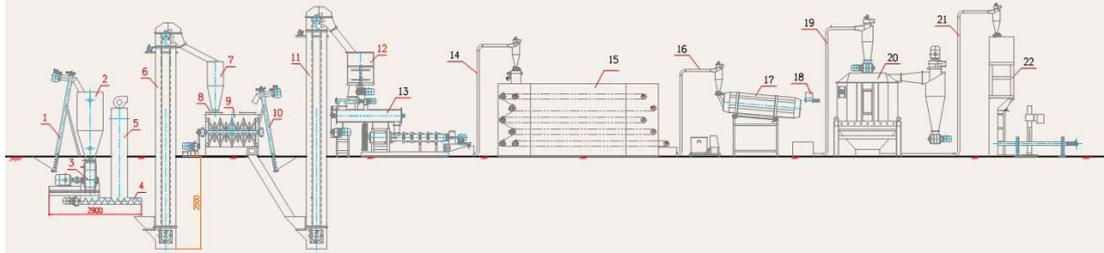
Hot pellets are soft and easily broken, which can result in a high percentage of fines. By cooling pellets can be harden. Counter flow cooler is cooling type that commonly used in pellet industry currently with the direction of the air and product of pellets in opposing directions.

7.Pellet packaging



The fish feed pellets are packaged in bags for further transporting and storage. The pellets will be bagged or stored according to your need and requirement. The packing process is effectively handled by our Auto Packing Machine. The finished feed is weighed by the computer and then pneumatically discharge into the bags. Weighed bags would then transported on the belt conveyor, it can send packed pellet warehouse.

floating fish feed pellet production line



1.screw conveyor 2.stock bin 3.water drop crusher 4.horizontal screw 5.pulse dust collector 6.bucket elevator 7.stock bin 8. pneumatic valve 9.horizontal ribbon blender 10.vertical blender 11.bucket elevator 12.vertical blender 13.floating pellet machine 14.pneumatic conveyor 15.dryer machine 16.pneumatic conveyor 17.rotary sprayer 18.feeder 19.pneumatic conveyor 20. count flow cooler 21.pneumatic conveyor 22.automatic packing machine

Technical Parameter

Model	Capacity (kg/h)	Main Power (kw)	Feeding Power (kw)	Cutting Power (kw)	Screw Diameter (mm)
ZNGP40	30-50	4	0.4	0.4	Dia 40
ZNGP50	60-80	11	0.4	0.4	Dia 50
ZNGP60	120-150	15	0.4	0.4	Dia 60
ZNGP70	180~250	18.5	0.4	0.4	Dia 70
ZNGP80	300-350	22	0.4	0.6	Dia 80
ZNGP90	400-450	37	0.4	1.5	Dia 90
ZNGP120	500-700	55	0.4	2.2	Dia 120
ZNGP135	700-800	75	0.4	2.2	Dia 133
ZNGP160	1000~1200	90	1.5	2.2	Dia 155
ZNGP200	1800-2000	132	1.5	3	Dia 195