## **Operating Parameters of Fish Feed Making Machine**

Regarding the processing parameters of extruded aquatic feed, this article is based on the exchange of industry experts and years of practical experience. The parameters and rules of the extruder are compiled. Due to the different equipment models and product structures, specific problems need to be analyzed. The following description is only For your peers who use the extruder.

	Fish pellet machine
1	The press is shut down for 30 minutes or
	longer, you need to remove the ring die, plug
	the device with a hard cover, and fill the system
	with water, this will prevent the equipment from
	forming into a hard block, causing mold
	blocking and impact Ring die hole. When the
	machine is turned on, the materials in the
	system should be washed and cleaned. In cold
	weather, the device should be preheated with
	steam.
2	The screw rotation of the equipment and the ton
	yield of the inner wall depend on: the product,
	the size of the crushed powder material, and
	the water content of the material in the
	conditioning chamber. The screw of the
	facilities and the inner wall do not determine the
	degree of abrasion according to the output per
	ton, and their life ranges from 6000 to 60,000
	tons. They can all be repaired again, but they
	must have a more accurate production record
	to ensure cost effectiveness. The wear rate of
	the tapered head at the tail is twice that of other

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	parts. Some factories take turns to use the
	squeeze screw and the inner wall from the
	outlet to the inlet to extend their lives.
3	When installing a new machine, measure the
	thickness of the extruder screw and the inner
	wall, and track its wear. The inner screw screw
	wears 0.8MM on each side, and the extrusion
	screw wears 3.2MM on each side, it should be
	replaced in time. Excessive wear will cause: the
	squeezing pressure will drop, the reverse
	material of the squeezing machine will increase,
	the current of the squeezing machine will
	fluctuate 25-40A, and the normal fluctuation will
	be 5-10A.
4	If the product cannot be formed and there is a
	lot of cutting chips, some grease should be
	added appropriately to reduce the feeding
	speed. Changing the thickness of the ring die
	and the number of holes will reduce the cutting
	chips.
5	Opening the rear vent of the making machine
	will increase the density of the product and
	produce a heavy feed. If the fat content of the
	formula does not exceed 12% or add 20% of
	dry and semi-dry materials into the squeezing
	machine, opening the exhaust holes will result
	in a heavy feed.
6	Adding water into the squeezing machine is for
	better blending. If the water is added too much,
	the product will have a small tail, and the cake
	and the product will stick to each other. Up to
	12% of the water can be added to
	the apparatus (normally more than 8%), and up
	to 1% of the steam can be added to the
	equipment.
7	The steam pressure entering the machine
	should not exceed 5.6 kg/cm2, otherwise it will
	cause backflushing and blockage of the
	material.
8	When producing floating materials, the
	pressure before the ring die is 35-38kg/cm2, the
	discharge temperature is 125-138°C, the
	density of the product is 320-400 grams per
	liter, and the opening area of ??the ring die per
	unit output is 225- 250 MM2/ton.
9	When producing heavy materials, the pressure
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I	before the ring die is 27-30 kg/cm2, the
	discharge temperature is 120 °C, the density of
	the product is 600-610 grams per liter, and the
	opening area of ??the ring die per unit output is
10	550- 600 MM2/ton.
10	When the feed is squeezed out of the ring die, it
	will immediately emit 4% of the water content,
	and the moisture content of the wet material will
	become 26-30%.
11	Cold water can be added to the sleeve of the
	implement to affect the processing of the feed.
	For the production of heavy feed, the middle
	machinery sleeve should be added with cold
	water to keep it cool, while the final machinery
	sleeve is not cooled to maintain the
	temperature (no Add water to cool).
12	The faster the screw rotation speed of the
	implement, the more energy can be added to
	the feed (the more it is cooked). The rotation
	speed is a better way to control the density of
	the feed. The rotation speed is reduced, and
	the density of the feed is also reduced to make
	the quality lighter.
13	When adding steam, it is best to be in the third
	or fourth section of the machine, because too
	close to the inlet and the ring die will cause
	clogging of the return material and ring die. The
	place where steam is added should be the
	place with the lowest material pressure to
	prevent the steam nozzle from being blocked.
14	Worn extrusion screw and inner wall will
	reduce the flow of materials, increase the load
	of the motor, temperature, retention time and
	the degree of maturity that should be,
	increasing the filling degree of the implement
	screw will increase the retention time,
	intermittent extrusion screw pair The maturation
	of the material is better than the uninterrupted
	extrusion screw.
15	Increasing the amount of feed will result in a
	product with a higher density, because the
	residence time will be reduced. The residence
	time of the material in the machine is a very
16	important operating factor.
16	Adding a vacuum device to the exhaust port of the machine will improve the PDI of the feed

	and increase the density of the feed, but it will reduce the ability of the material to retain grease.
17	The screw-built inner wall will increase the
	output of the machine.