

Feet Processing Line (Independent)

Operating Principle

- This machine unit works independently without being installed on the suspend conveying line.
- When chicken feet drop down on the machine by feet unloading machine (feet unloader), the scalding machine will transport them from inlet to the outlet by spiral mesh board in a certain time.
- Next, claws are slipping to the claw peeling machine, where the rubber stick on the roll or in the cylinder will remove the claw skin.
- At last, the processed chicken claw will come out automatically and the skin of feet will be washed away from outlet at the bottom of the cylinder.

Device Selection Reference Table

Appellation	Model	Specification	Capacity (broiler per hour)
Continuous claw scalding	ZDTJ-L	1200 × 600 × 1600	3000 and below
Continuous claw scalding	ZDTJ-L	2000 × 800 × 1700	3000-5000
Continuous claw scalding	ZDTJ-L	3000 × 800 × 1700	5000-10000
Continuous claw peeler	ZDZJ-L	2000 × 720 × 1300	5000 and below
Continuous claw peeler	ZDZJ-L	3000 × 720 × 1200	5000-10000



Frame Type For 300–500 BPH Line

- Frame type processing equipment designed for small capacity 300–500 BPH line
- Movable, Small occupation, and Easy operation

No.	Name	Model	Unit	Qty.
A01	Slaughtering Conveyor Line	ML37A8-152	m	22
	Driving Device & Spring Tension Device	Stainless steel	suit	1
A02	Bleeding Trough	4000×900×800	set	1
A03	Plucker	2600×1400×1300	set	1
A04	Air Agitation Scalding	4000×500×800	set	1
A05	Viscera Conveying Trough	3000×700×800	set	1
A06	Tool Box		pcs	1
A07	Electric Control Cabinet		pcs	1
A08	Equipment Fixed Frame	11500×2200×2250	suit	1
A09	Cable, Water pipe and steam pipe		batch	1
A10	Stunner	1200×400×1800	set	1



Semi And Full Automatic Vacuum Packing Machine

Vacuum chamber dimensions	790*670*190mm
Length of the seal	700mm*4pieces
Width of the seal	8-10mm
Seal span	550mm
Capacity	2-5times/min
Power	380V/50HZ 2.5KW
Dimensions	1600*770*970mm

Semi-auto	With chinese zhongde 63 pump
	With german busch 63 pump
	With german busch 111 pump
Full-auto	With German BUSCH 111 Pump



Frozen Trolley And Plate

- Frozen trolley is used for saving the chicken and the part of chicken for easy enter the cold room

Model	Specification	Capability	With cold plate number	With cold plate specification
Layer 7	1220×800×1640	224-280kg /Trolley Average weight about 2kg	28	540×400×145
Layer 16	1340×940×1600	400-500kg/ Trolley	64	600×450×20



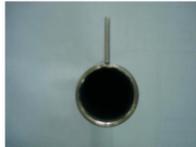
Working Table & All Kinds Of Spare Parts Of Slaughter Line

Working table

- Working table is used for cut the chicken meat, remove the small piece of bones, gizzard and production packaging , usually a part of chicken weighing operation on it.
- Any size of manufacturing is according to the client requirement .



All Kinds Of Spare Parts Of Slaughter Line

<p>Tee track</p> 	<p>Nylon trolley for tee track</p> 	<p>Stainless steel trolley</p> 	<p>Stainless steel corner wheel</p> 	<p>Tube track</p> 	<p>S.S. trolley for tube track</p> 
<p>Drive unit</p> 	<p>Spring tension device</p> 	<p>90° corner</p> 	<p>180° and 90° corner</p> 	<p>Spring tension device</p> 	<p>Drive unit</p> 

Horizontal Type Steam Boiler 1 Ton

WNS1-1.0-Y(Q) Oil Fired Boiler			
Rated Evaporation capacity	1t/h	Nominal steam pressure	1.0MPa
Saturated steam temperature	184℃	Design thermal efficiency	≥88%
Fuel	Diesel	Consumption	67kg/h
Power Requirement	220V/50HZ Motor Power 3.3KW		
Transport dimension	3800×2800×2500		
L×W×H(mm)			
Transport weight	4.8T		



Vertical Diesel Boiler 0.5T

Rated Evaporation capacity	0.5t/h	Nominal steam pressure	0.4MPa
Rated steam temperature	151°C	Design thermal efficiency	≥88%
Fuel	light diesel oil	Consumption	34.4kg/h
Power Requirements	220V/50HZ Electric Power 1.35KW		
Transport dimension	1650×1375×2176		
L×W×H(mm)			
Transport weight	3t		



12 Ton Ice Flaker And Maker Machine

1	Daily capacity	12T/Day
2	Weight	1450Kg
3	External size (mm)	2720mm×1830mm×1700mm
7	Ice thickness mm)	1.5mm-2.2mm
8	Refrigerant	R404A
9	Necessary refrigerating capacity	78KW
10	Type	Multiple blade spiral rotary cutting ice type
11	Ice storage bin	Q235+SUS304
12	Evaporating temperature	-22℃
13	Condensation Temp	40℃
14	Water input temperature	18℃
15	Ambient temperature	25℃
16	Feed pressure	0.1MP-0.6MP
17	Total installed power	54KW
18	Gap between Ice Sword and barrel wall	0.25mm~0.5mm
19	Power supply	three phase 380V(50Hz)
20	Ice temperature	-5~ -8℃
21	Cooling Method	Water Chiling



Quick-Frozen Tunnel



Mainly used in meat products rapid freezing, by mechanical vibration and air pressure make products was transported, so as to realize the rapid freezing monomer, prevent adhesion.

The 3D model freezing room is designed for slaughter house goods kept.

1. capable of a wide variety of products
2. Easy to operate, lowest maintenance
3. Pre-assembled before delivery and test
4. One week installation at jobsite
5. Stainless steel structure
6. Fine design and manufacture
7. Good quality frozen food
8. Meet the health standard
9. High efficiency refrigeration
10. Wide range of frozen food
11. Easy installation

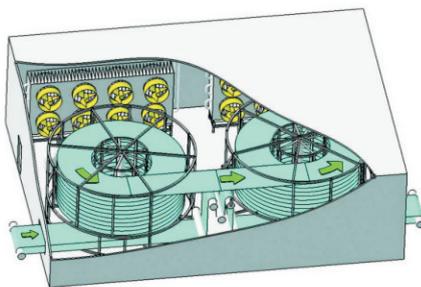
Compressor



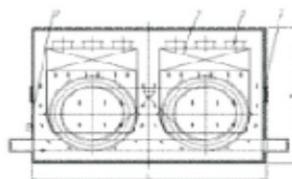
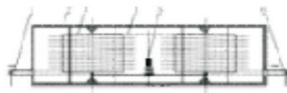
Piston condensing units
Bitzer / Copeland



Screw condensing units
Bitzer / Hanbell



Our cooperation company has nearly 20 years of frozen store design and manufacture experience, its advantage: cover an area of an area small, compact structure, database is large. With advanced technology, the optimization of the structure, so the design tend perfect. Usually we used in slaughter house and fresh or frozen goods. Our cold store main parts are made in Germany with top quality,



Cooling Fan and Cold-storage Board

Cooling fan



Cold-storage board



Wall panel



Corner panel



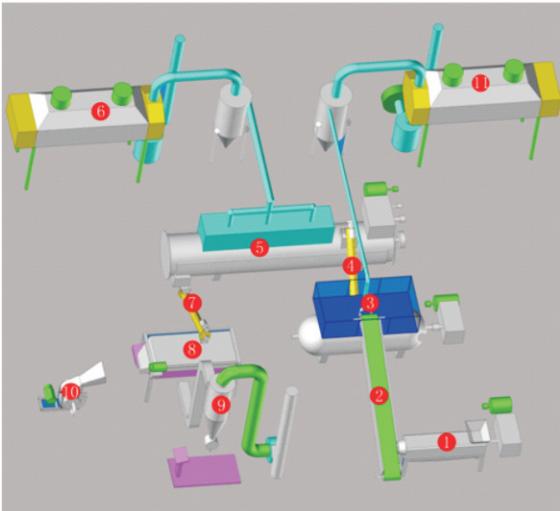
T type panel



Eccentric Hook

Density (kg/m ³)	Bending strength (Mpa)	Compressive strength (Mpa)
40-50	>0.25	>0.2
Thermal conductivity (W/n °C)	Water absorption (kg/m ³)	Witch off time (s)
<0.022	<0.30	<7

Rendering Equipment

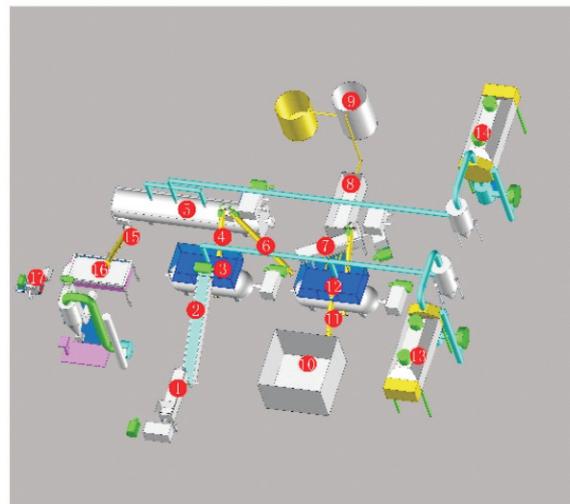


Feather Powder Plant 3D flowchart

- 1) Dehydration machine
- 2) Belt conveyor
- 3) Cooker
- 4) Spiral conveyor
- 5) Steam dryer
- 6) Cooler
- 7) Spiral conveyor
- 8) Rotary cooler
- 9) Pneumatic conveying device
- 10) Grinder
- 11) Cooler

Waste material of slaughtering 3D flowchart

- 1) Feather dehydration
- 2) Belt conveyor
- 3)、12) Cooker
- 4)、6)、11)、15) Spiral conveyor
- 5) Steam dryer
- 7) Double-shaft squeezing machine
- 8) Grease precipitation tank
- 9) Oil separator
- 10) Blood storage tank
- 13) 、14) Cooler
- 16) Rotary cooler
- 17) Grinder



Waste material of slaughtering 3D flowchart

- 1) Raw material crusher
- 2)、4)、8)、10)、12)Spiral conveyor
- 3) Cooker
- 5) Double–shaft squeezing machine
- 6) Centrifuge
- 7) Oil storage tank
- 9)、11) Steam dryer
- 13) Rotary cooler
- 14)、15) Cooler



Equipment Components



Equipment components:

Rotary connector, Stainless steel hose, Graphite ring for sealing, Cut-off valve, Safety valve, Float type trap, Pressure gauge, Bearing, Triangle belt, Bimetallic thermometer, Thermocouple

Performance and characteristics:

1. The casing adopts double-layer jackets, which is filled with steam to increase the heat transfer area. The blade in the intermediate shaft adopts box plate type structure, to improve production efficiency; the blade adopts Q345 wear-resistant material, to extend the service life.
2. Integral steel structure support, which can change the installation location randomly.
3. The feed inlet and outlet adopt square type structure to provide easy operation.
4. The exterior insulation made of stainless steel plate, to enhance the corrosion resistance, extend the service life and with a fine appearance.
5. Making use of the automatic drainage system, to reclaim the steam condensate to the boiler, reduce energy consumption and save water.
6. The client should purchase a steam boiler to cooperate the cooker in used. (TOPLEA can supply high quality steam boiler).

Model	YF-1300	YF-1400	YF-1500	YF-1600
Production	1.0t/batch	1.2t/h	1.5t/h	2.0t/h
cycle time	3h	3h	3h	3h
Total power	18.5kw	22kw	37kw	55kw
Inner diameter	Φ1300	Φ1400	Φ1500	Φ1600
Cylinder Length	3600mm	4000mm	4000mm	5000mm
Reducer power	ZQ650	ZLY250	ZLY280	ZLY315
Unit size (mm)	5100*1500*2200	5600*1600*2200	5600*1700*2300	6500*1800*2300
Weight	6800kg	7600kg	8600kg	9800kg

Exhaust Gas Treatment System

Equipment components:

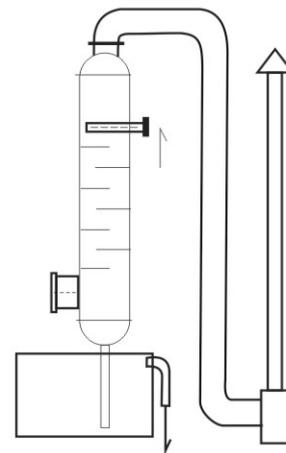
- 1、 Catcher
- 2、 Condenser
- 3、 Water Ring Vacuum Pump SK-6
- 4、 Exhaust steam tank



Waste gas treatment – Condenser

Process Description:

High pressure and temperature curing tank exhaust emissions generated by the water-ring vacuum pump vacuum drainage, From the exhaust port into the set to catch, And then into the condenser for cooling, the exhaust gas condenses into water to collect emissions; A small amount of residual gas emissions into the exhaust chimney, High temperature combustion, To achieve zero emissions standard.



Equipment components:

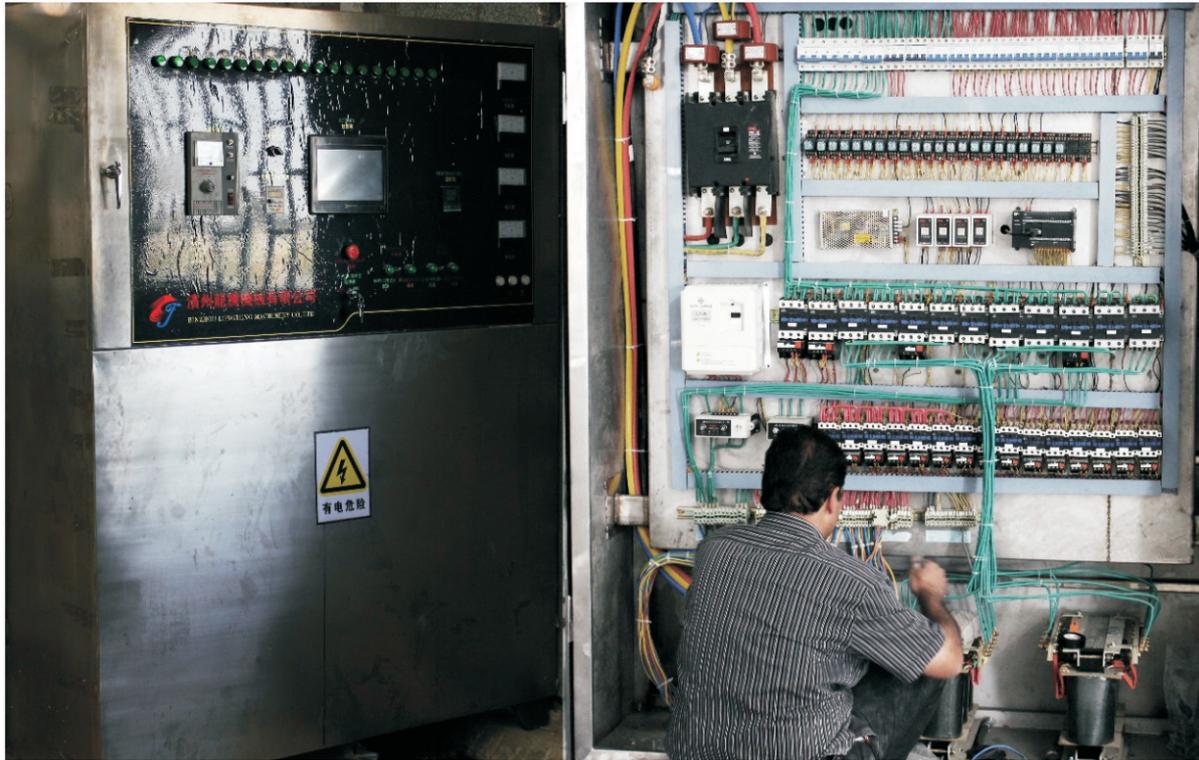
- 1、 catcher
- 2、 Spray tower
- 3、 Stainless steel induced draft fan Y6-41 №4.8
- 4、 Centrifugal pump

Process Description:

Emissions generated in the production process through the fan negative pressure drainage. From the exhaust port into the set to catch, And then into the Spray tower cooling, the exhaust gas condenses into water to collect emissions, and then goes into the waste gas treatment system.

Gas into the spray tower, start the centrifugal pump, supporting the nozzle of the spray tower, spray deodorant, fully contact with the waste steam, then achieve the best effect.

Electrical control cabinet



Situation

The electrical control cabinet is mainly used in fish meal units、 Feather powder units、 Food waste、 slaughter waste treatment processing equipment control circuit with overload protection, emergency stop and other protective measures, can effectively protect the safety of persons and equipment.

Using of the environment

- 1、 Ambient temperature: -40---50℃
- 2、 Environmental temperature 25 ℃ relative humidity when no more than 90%
- 3、 The altitude is not more than 2500 meters
- 4、 Pay attention to avoid vibration and impact

The main technical parameters

- 1、 Form: cabinet
- 2、 Rated voltage: 380V/3P (it can be designed according to requirement)
- 3、 Work power frequency: 50Hz
- 4、 A, B and C is three-phase main power in wiring, N is power zero line

Hapter four – rendering equipment



This project was supplied to Saudi Arabia for 16000kg feather and the waste material of slaughtering in 2shift per day, we design two conveyors which one is for transport the feather, the other one for the waste(including dead chicken ,guts ,feet, and so on),all elec tronic control are made by plc in a cabinet , ensure this realized process automation. Up to now, we are always upgrade it constantly.

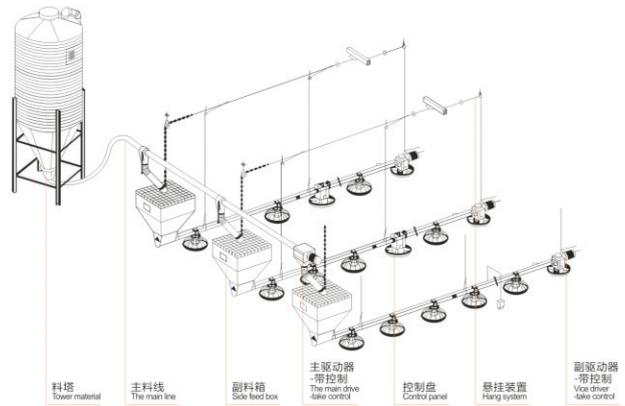
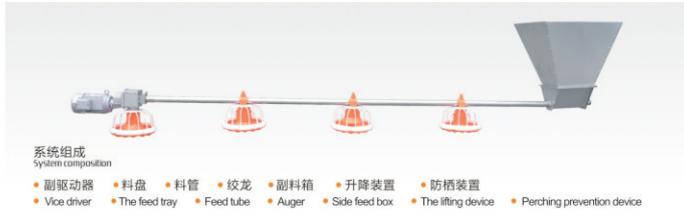
Uccessful case-two

Fish meal processing plant in Russia

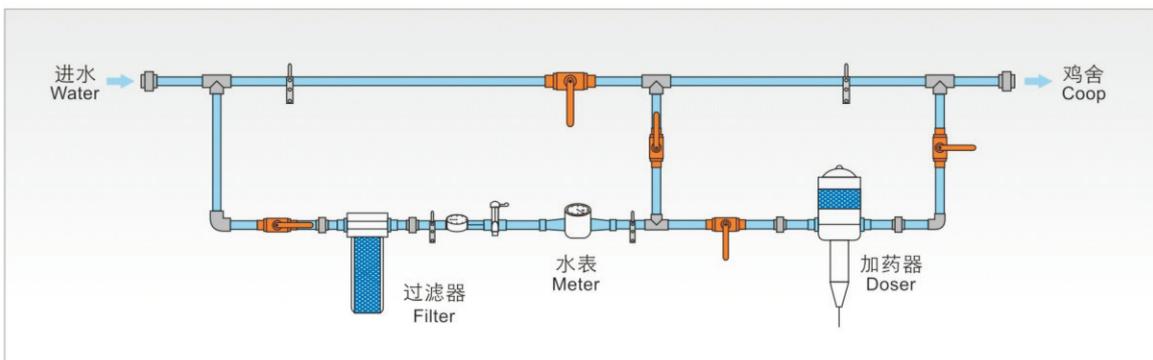
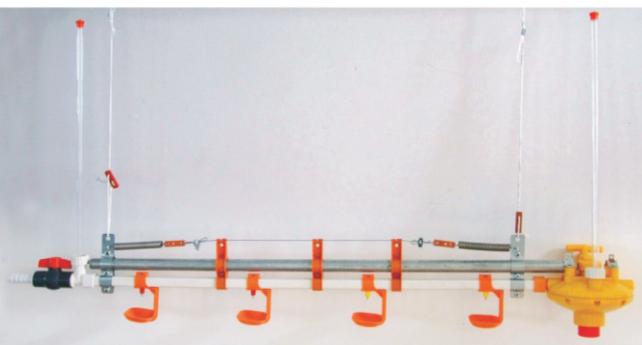
This SF10 fishmeal project was built in Russia , some of parts was made of stainless steel 304 for ensuring last the equipment life, we have make agreement for agent through this project delivered .it is suitable for making fish and shrimp to the powder.



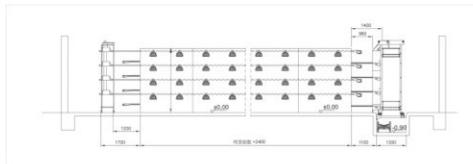
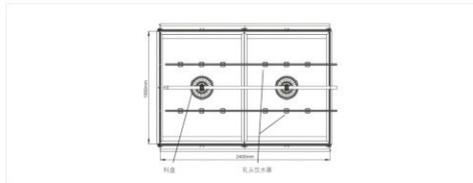
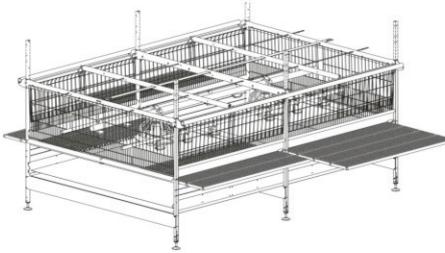
Feeding System



Nipple Drinker



Cage for Breeding Chicken





TOPLEA

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