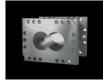


Biodegradable Corn Starch Granules Making Machine

















Factory planning

Construction project of biodegradable Production Line

Technical data

Production materials: degradation film blowing production line

Output:155-255Kgs/h(Depending on customer's formula ,process, production conditions Etc.

Model	Product description	Qty	Price (INR)
1.0	OS-50 degradation granule production equipment: 155-255kg / h.	1 set	
1.1	200L high mixer	1 set	
1.2	Conveyor belt Screw feeder	1 set	
1.3	OS-50 twin screw extruder	1 set	INR 1,50,00000.00
1.4	Electrical control system	1 set	
1.5	12m conveyor belt auxiliary system	1 set	
1.6	Pelletizing machine	1 set	
1.7	One formula	1set	

Note: GST and Freight Charges Extra

Technical Data&Quotation

Model: OS-50 Twin Screw Extruder Pelletizing Line



Processing material: Biodegradable Granules							
Machine capacity: 100-255kg/H							
(Final Output is Subjected To the Formulation&Other Conditions)							
	1、200L High Speed mixer 2、Belt Conveyor						
Configuration:	3、OS-50 Twin Screw Extruder 4、Electrical Control System						
	5、Fan Cooling Strand Pelletizing System						
	6. Pelletizing system						
	7、Spare parts						

Part One: Machine Composition

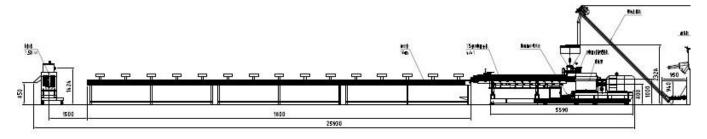
No.	Machine Name	Quantity					
1.	High Speed Mixer: 200L						
2.	Belt Conveyor: 2.2KW	1 Set					
3-1.	Main feeder: 1.1KW; twin screw metering type; using frequency inventor	1 Set					
3-2.	OS-50 Twin Screw Extruder						
3.1	Main motor: 55KW; "Wannan" brand AC motor; using frequency inventor	1 Set					
3.2	Gear box with lubrication: 500RPM	1 Set					
3.3	Processing section(screw shaft, screw elements, barrels, heaters, etc) Screw diameter: 50.5mm; L/D=44:1	1 Set					
3.4	Soft water cooling system (external): 0.55KW	1 Set					
3.5	Vacuum system (external): 2.2KW	1 Set					
3.6	Screen exchanger by hand	1 Set					
3.7	Die head (Strand head,die head,heater)	1 Set					
4.	Electrical Control System	1 Set					
5.	Fan Cooling Strand Pelletizing System						
5.1	Conveyor Belt: 12 Meters	1 Set					
5.2	Cooling fans: 11 Pieces	1 Set					
5.3	Pelletizer: 4KW	1 Set					
6.	Spare Parts and Tools	1 Set					



Part Two: Machine Working Condition

Power	1. Total power: 140KW Actual power: 90KW					
Supply	2. 50/60HZ 220/380/480 V 3P OR CUSTOM POWER					
Water	1. Recycling water: water pressure:∼0.45MPa					
Supply	2. Water temperature:≤38℃					
	3. Industrial soft water (none-ion water) water temperature ≤38°C					
	4. Circulating water: for barrels cooling; using soft water(distilled water) to prevent scale					
	5. External circulating water: for cooling internal circulating water and water trough					
	6. Water supply suggestion: build pool 25~30m3outside of workshop and pump the					
	water					
Size	21M*4M*4M (L*W*H)					
Labor	1-2 people					

Part Three: Machine Layout





(This layout is just for your reference)



Part Four: Detailed Technical Info

1. 200L High Speed Mixer



Total capacity:	200L
Effective capacity:	150L
Motor power:	30/42KW

2. Belt Conveyor



2.2KW			
Convey mixing materials			

3-1. Main Feeder



Type:	Twin Screw non-mesh metering type
Position:	The first barrel
Reducer:	WB-120-LD-1.1, Cycloidal needle wheel
	deceleration motor
Motor power:	1.1KW
Adjust Speed:	Using frequency inventor
Body:	With horizontal blender, prevent bridging
Hopper:	S/S, δ=1.5mm
Screw material:	45# steel, surface hard chromium treatment
Barrel material:	carbon steel, surface hard chromium treatment.
Open joint box:	S/S, with horizontal blender, prevent bridging



3-2. OS-50 Twin Screw Extruder



3.1 Main motor	Motor power:	55KW, Y2 type level 4 AC motor			
	Adjust Speed:	Using frequency inventor			
	Rotation speed:	1480rpm			
3.2 Gear box	Shell:	Nodular cast iron, shock absorption, prevent noise			
13 6	Input speed:	1480rpm			
	Output speed:	500rpm			
	Needle bearing:	Japan "IKO" brand			
1.000	Radial axletree:	Japan "NSK" brand			
	Reducer material:	20CrNi2MOA, high torque, hard gear face			
	Reducer hardness:	HRC58-62			
	Lubrication system:	Gear and bearing adopt oil lubrication			
A NAME OF THE OWN A		Gear meshing and bearing point adopt shunt oi			
		spray strong lubrication way			
	Lubrication cooling:	External cooler, 1.3m3			
illineous com ch	Oil pump type:	BB-B10, 0.55KW			
3.3 Screw	Structure:	Divided into conveying screw block, mixing screw			
400000000000000000000000000000000000000		block, kneading screw block and reverse rotary			
+1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		screw block; Screw parts is in tandem array.			
લીક કેલીક લિક કેલીક સ્થિત કેલીક સ્થિત કેલીક સ્થિત કેલીક કેલીક કેલીક કેલીક સ્થિત કેલીક કેલીક કેલીક	Diameter:	Φ50.5mm			
यावयावयायायायायायायायायायायायायायायायाय	L/D:	44:1			
	Screw element	38CrMOALA, high temperature vacuum quench			
	material:	treatment.			
	Screw element	HRC60-64			
The same of the sa	hardness:				
	Axis material:	40CrNiMoA, high toughness, high bending			
		strength, high quality alloy steel.			
	Axis hardness:	HB300-350			
	Screw rotate mode:	Double screw mesh type co-rotation			



		Screw element and	Involute connection, high strength, bearing load,
		axis connection:	dismounting conveniently
		Screw head and cap	Back tooth connection, ensure connection
		connection:	fastening.
3.4 Barrel		Material:	45# steel is as body, ∞ inner hole adopts fine
			double alloy casting bush
•		Connection:	High strength inner hexagon bolts
		Cooling method:	Soft water cooling for barrel
		Length:	190mm/section, 11 sections, total 2090mm.
A A		Feeding barrel:	The first barrel
		Nature Exhaust	The sixth barrel, which will be closed when
		Barrel:	shipping
er ii		Vacuum barrel:	The tenth barrel

Feeding barrel			Nature Exhaust Barrel			Vacuum barrel						
	†					†				↑		
	1	2	3	4	5	6	7	8	9	10	11	Screen exchanger

3.5 Heating section	Heater type:	Casting aluminum heaters		
3.6 Soft water cooling system	Water pump power:	0.55KW		
\$\frac{1}{2}	Electromagnetic valve:	Pin valve. Taiwan brand		
	Soft water pipe:	φ60mm, separate with main frame		
	Connection:	Copper pipe		
	Heat ex-changer:	LS-415		
3.7 Vacuum system	Vacuum position:	The barrel		
	Motor power:	2.2kw		
	Vacuum type:	SK-0.8		
	Vacuum pressure:	-0.07∼0.09Mpa		
	Vacuum tank:	400*600mm		
	Installation:	Outside, convenience for clearing and repairing		
3.8 Screen exchanger by hand	Position:	Fixed between barrel and head		
3.9 Die head	Pressure sensor:	One piece		
	Head melting temperature sensing display device:	One piece		
	Die head heater:	One piece		



3.10 Interlock system

- A. OMRON intelligent instrument, PID parameter self-regulation, heater broken circuit indication
- B. Interlock for twin screw extruder and gear box
- C. Interlock for twin screw extruder and feeder: extruder stops delayed when breakdown happen on the feeder; feeder stops immediately when extruder break down.
- D. Twin screw extruder head is installed with indication of melt pressure and temperature. Melt pressure is interlocked with main frame, over pressure protect.

4. Electrical Control System



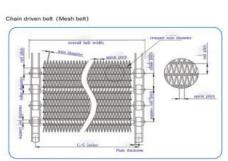
Voltage:	50/60HZ 220/380/480V 3P
AC contactor:	Delta brand
Air switch:	LG brand
Intermediate relay:	OMRON brand
Temperature controller:	OMRON brand
Low voltage electrical	All use the Delixi
and button, switch:	
Electric control cabinet:	Temperature control system and
	driving system

5. Fan Cooling Strand Pelletizing System



Conveyor Belt:	1 2Meters
Cooling fans:	1 1Pieces

- 1) mesh belt: length 12 meters, stainless steel, mesh 3x11
- 2) deceleration motor: power 3KW, speed ratio 10:1
- 3) cooling fan: external rotor axial flow fan 120W, quantity 23
- 4) frame structure form: detachable type





6. Gantry granulator



The 500 gantry type is a high-yield pelletizer with an output of 300,500kg per hour and a cutting number of 15,30pieces.

Product advantages: 1: cost-effective, cost-effective.

- 2: accurate granulation is carried out through strip introduction and bar positioning.
- 3: easy to use and control.
- 4: the introduction of high-precision assembly technology and manufacturing technology is a substitute for domestic imported plastic granulator.
- 5: the maintenance cost is lower, it is more suitable for the production line with higher product quality requirements and high performance-to-price ratio, and the product quality is reliable and stable.
- 6: omni-directional humanized safety device to ensure automatic stop of cover opening and safety of operators.
- 7: the motherboard is inlaid with 304 stainless steel plate to effectively prevent plastic particles from being contaminated.
- 8: the overall closed noise reduction device design, lower noise, bring you a more comfortable working environment.
- 9: the gap between the hob and the fixed cutter of the soft material gantry granulator is less than 0.06mm, and the high-precision shaft core can process materials containing no more than 50% glass fiber. The length of the cut plastic particles is more uniform, and the appearance of the finished particles is more beautiful and beautiful.
- 10: according to the different requirements of customers, we can install the top configuration: NSK imported bearings, Siemens motors, various imported frequency converters, imported electrical appliances and so on.



7. Spare Parts and Tools			
No.	Name	Quantity	
1.	Screw element	300mm	
2.	Oil seal	3sets	
3.	Thermocouple	1set	
4.	Inner hexagon spanner	1set	
5.	Fuse	3pieces	
6.	Glove	1sets	
7.	Relay	3pieces	
8.	Technical documents	1set	

Part Five:Payment

40% advance payment and balance before shipment or with in 30days.

- 6.1 Buyer should prepare the factory plant, water supply, power supply and air supply before the supplier's engineer arrived.
 - 6.2 Supplier will send 1-2 technicians for machine's installation, commission and training,
 - 6.3 Buyer should undertake the engineer's traveling expenses, hotel and food fee
 - 6.4s Buyer should arrange enough workers to cooperate working with our engineer and prepare the necessary tools for working.

Reference Images









Reference Images

















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