



**D&R INDUSTRIES**

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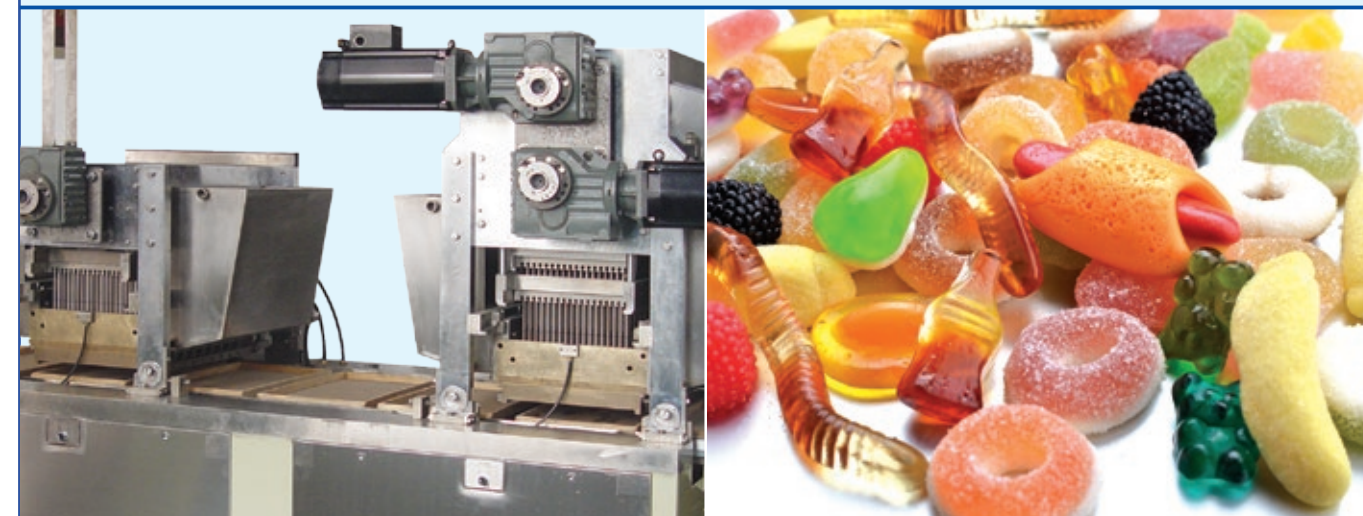
D&R Industries With Many Years Experience  
In Confectionery Line And High Technology  
Team , Giving The Whole Project Solution And  
Consulting For Candies, Gummy, Chocolate  
And Its Packing.

D&R Always Giving The Economic Machine,  
Better Quality, Better Service After Sales For All  
Of The Customer.



**D&R INDUSTRIES**

## **STARCH MOGUL LINE**



**KEEP DEVELOPING & RESEARCHING FOR CONFECTIONERY MACHINE**

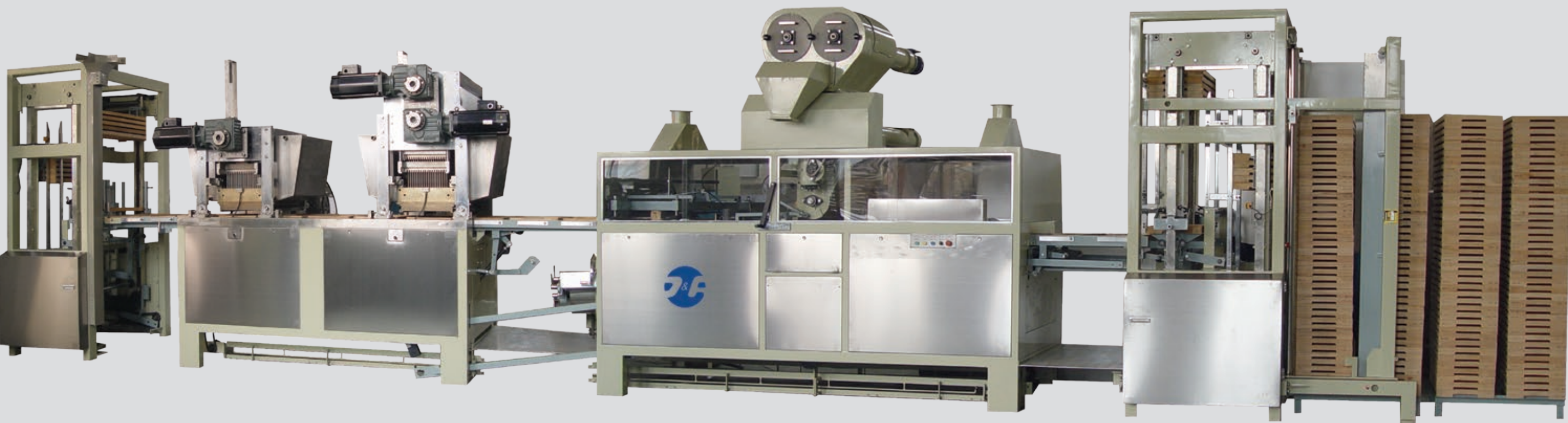
DISCRIPTION

D&R mogul plant especially producing gummy candies. With high quality , easy operation, working reliable , with high output. The whole plant including kitchen system, mogul plant, starch conditioning system , starch collecting and recycle system ,product finishing and ancillary machinery. The plant suit for producing gelatin base candies, pectin base candies, modified starch base candies, carrageenan base candies, foamed candies and so on. What ever your production requirements, D&R has the right solution. We offer different types of depositors to cater to your needs for flexibility and speed. We offering the depositing type with SWING, ONE SHOT, SERVO DRIVEN FOR CENTRE FILLED GUMMIES AND STRIPE GUMMIES.

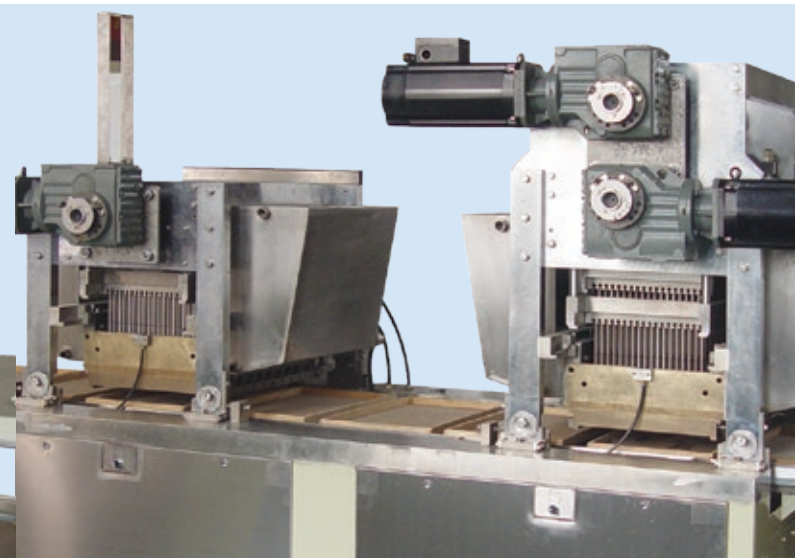
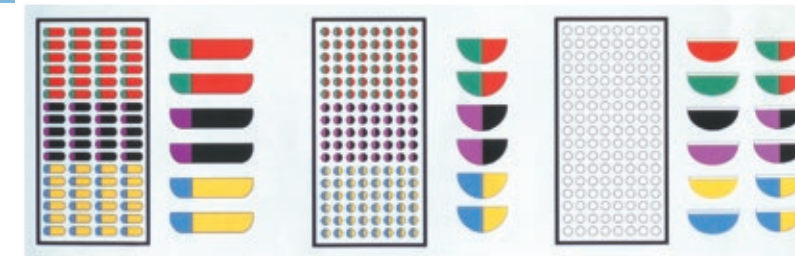


SPECIFICATION

Production capacity	6000kg/8h(Depends on the shape of candy)
Power	95KW(Depends on the machine type)
Steam 7-8 bar	850kg/h
Constringent air 0.6mpa	400 m³/h
4 Degree cooling flux	315kg/min(no this item if cooling by air or water)

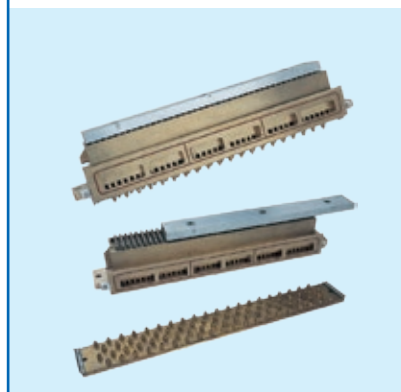




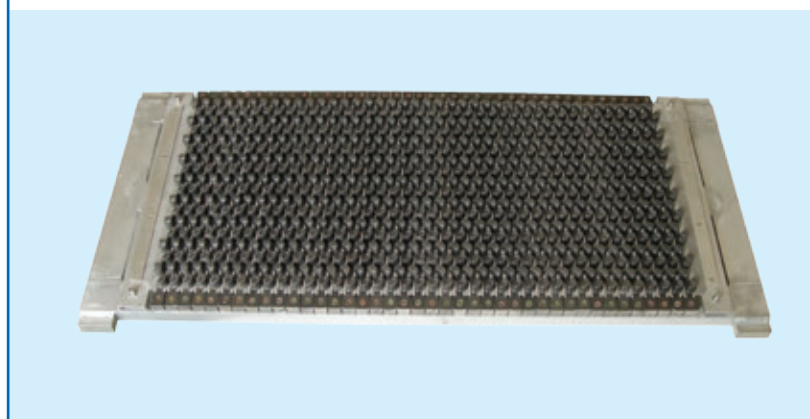
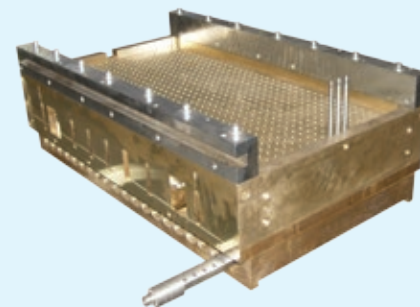


## SPECIFICATION

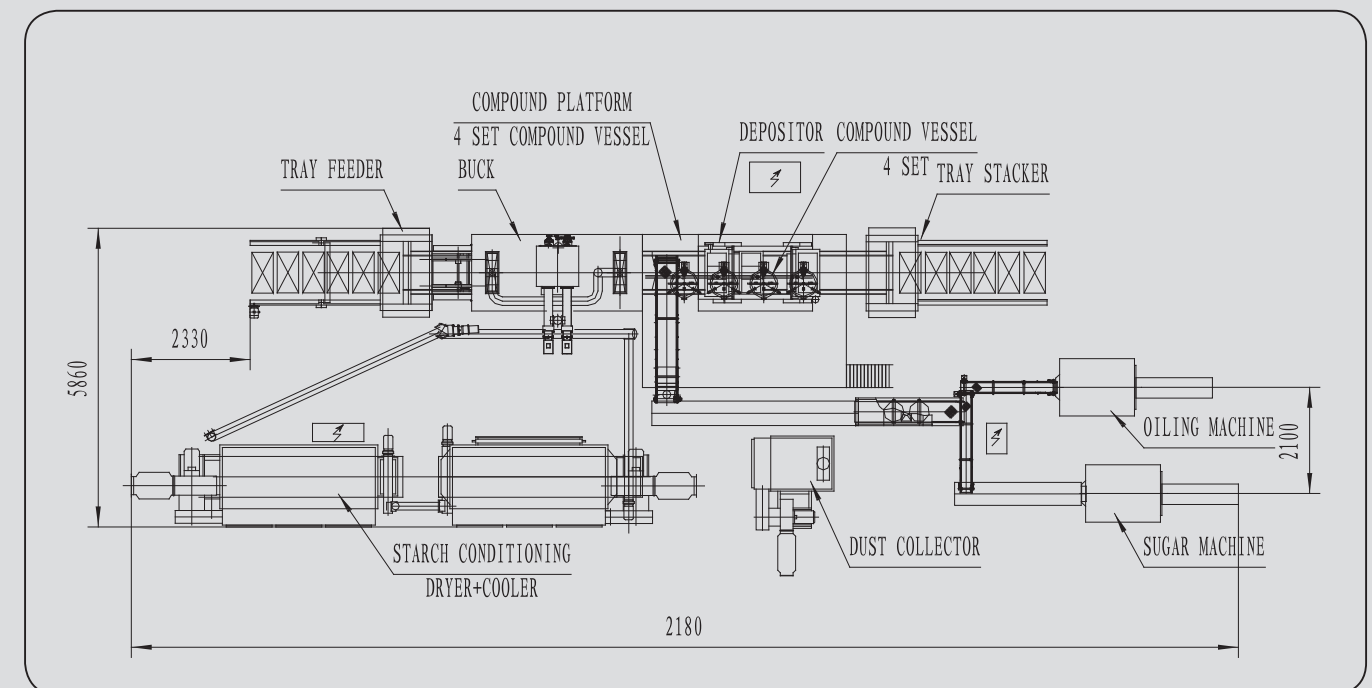
Tray Feeder	Tray Stacker
Tray Emptying	Pallets Transport
Tray Transport	Starch Cleaning Conveyor
Starch Filling And Leveling	Middle Conveyor
Moulds Stamping	Steam Cleaner
No.1 Depositor	Oiling Machine
No.2 Depositor	Sugar Coating Machine.
Starch Sprinkler	Starch Recycle Machine



Pump casting is made of glass hard copper alloy, wear-resisting and corrosion-resistant. Its dimensional precision is ensured by digital control process center. There are many models to choose from, its diameter ranging from 9 to 20, with 720 ples pistons, hole 192, and hole 160 in a line. There is also pump casting with filling, and holes on it are arranged in a reasonable way, meeting customers' demands for diversity.

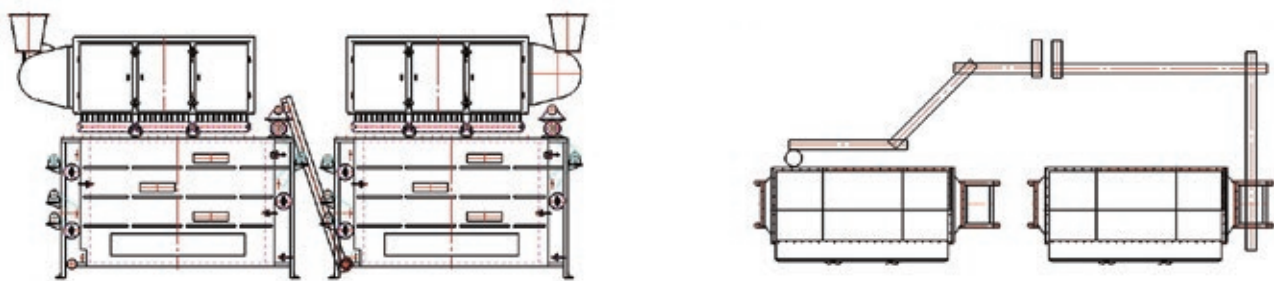


Molding is made according to customers' requirements, and its arrangement is designed by engineers to yield the best effects. Molding is die cast with copper alloy, with its surface sprayed with anti sticking dope. Molding is clean, with clear moulage and adhering no powder. The molding frame is easy and convenient to be disassembled.





STARCH CONDITIONING SYSTEM



DISCRIPTION

The starch conditioning system consist with dryer and cooler, the processing of heating and cooling according to vortex heating exchange principle.

The molding starch which not suit for the requirement of humidity inside the mogul plant be sent to starch drying system through the screw conveyor, the starch be particular estate and suspend on the feeding loam board tunnel in starch dryer, the suspend starch particular exchange the heating with hot air inside the tunnel, hot air take the humidity of starch; dried starch be sent to cooler by screw conveyor, same, the starch be particular estate and suspend on the feeding loam board tunnel in starch cooler , the suspend starch particular exchange the heating with cooling air inside the tunnel, the starch be the required temperature(under 32 degrees) and humidity(under 7%) and send back to mogul be filled inside trays.

Using the bag type dust collector for the starch drying and cooling, ensure the starch be recycle completely.

STARCH RECYCLE SYSTEM



GUMMY FINISHING SYSTEM

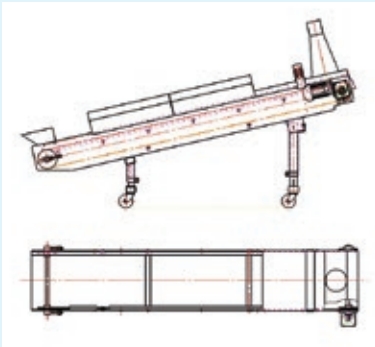
FINISHED PRODUCTS CONVEYOR

The finished products conveyor is especial design for the mogul plant attach with starch removing system .continuously conveyor the finished candy on this machine and simple remove the starch stick on the surface of candies, starch removing system with one couple of blowers driven by compressed air. Blowers fixed on the bottom and top of the s.s conveyor belt, finish the starch removing of the candies. The top blower connecting with dust collecting pipe, this dust collect system be connected with dust collector by outer pipe.

Performance parameter :

- The conveyor belt with chains ensure the running reliable
- The height be adjustable
- One couple of blowers driven by compressed air
- Dust collecting automatic
- capacity: 1500kg/hr ( 0.25g candy )
- width of conveyor belt:400mm
- power: 380V, 50HZ, 0.37KW
- consumption of compressed air : about 0.8 m3/hr
- the material touch with food be s.s SU304, other material be carbon steel with powder coating
- Frame with wheel, easy removing
- Dimension : L3635mm, W610mm, H1430mm
- Electric controlling by centre control box of related machinery, simple switch control the motor running
- Machine weight: 0.6t

Basic configuration as drawing



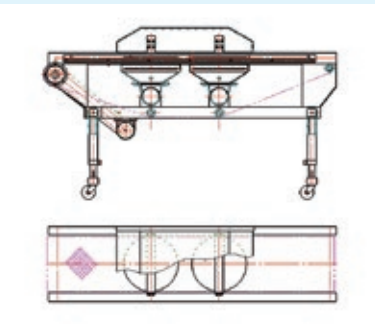
CANDY CLEANER

The candy cleaner especial design for the mogul plant.it will continuous cleaning the starch stick on the candies. Machine with 3 couple of blower driven by compressed air fix on the bottom and top of the belt. Attached with dust collecting pipe , be connected with dust collector.

Performance parameter:

- chain guided s.s wire belt for perfect tracking
- Adjustable height of conveyor
- 3 couple of blower driven by compressed air ensure the perfect starch cleaning of different products
- Dust collect automatic
- Capacity : 1500kg/hr ( for 0.25g candy )
- Width of conveyor belt:500mm
- power: 380V, 50HZ, 0.37KW
- compressed air consumption: 2.2m3/hr
- material touch with food SU304, other material be carbon with powder coating
- frame with wheel , easy removable
- dimension: L2160mm, W910mm, H1200mm
- controlled by centre control box of related machinery, simple switch control the motor running
- weight: 0.5t

basic configuration as drawing



GUMMY FINISHING SYSTEM



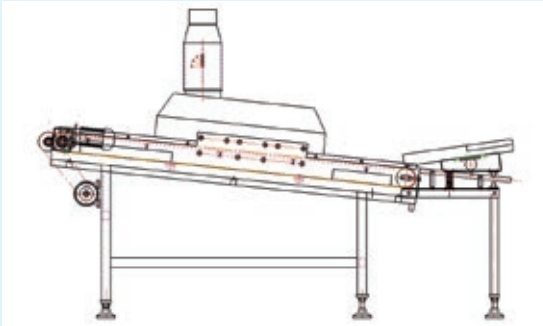




STEAMING CLEANER

main parameter

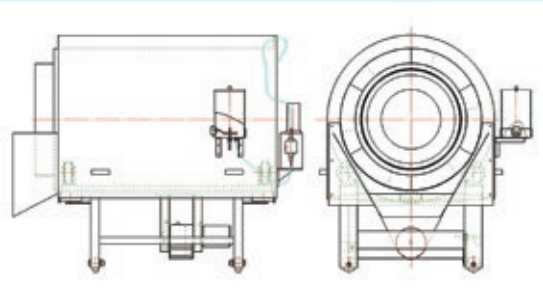
- 1.power: 380V 50HZ
  - 2.steam consumption: 50kg/hr, pressure 0.6MPa
  - 3.power : main motor0.75kw motor: 0.37kw vibrator 60W
  - 4.dimention (LxWxH): 2500x600x1680
  - 5.machine weight: 0.5T
  - 6.steaming capability: 1500kg/hr(0.25g candy)
  - 7.material touch with food be s.s 304, other material carbon steel with powder coating
  - 8.Speed variable controlled by inverter
  - 9.Vibrator with manual stepless adjusting, capacity:0-4t/hour
  - 10.Easy operation for main control box, 2 motor be controlled independent
- This machine with easy operation and installation , must move the machine to required place, fix the machine leg spindle, connect control box, with 380v power plug.



TURBO OILING MACHINE

main parameter

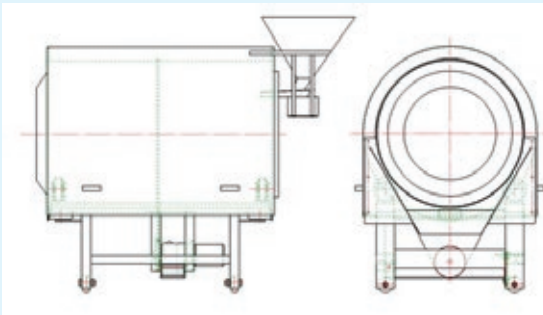
- 1.POWER: 380V 50HZ
- 2.POWER: MAIN MOTOR 1.5kw PUMP 40W HEATING TUBE0.25kw
- 3.Dimension (LxWxH): 1630x1590x1380
- 4.Machine weight: 0.7T
- 5.Oiling capability: 1500kg/hour as per 2.5g candy
- 6.material touch with food be s.s 304, other material carbon steel with powder coating
- 7.Speed adjusting by manually, with 9.6 oil tank with heating control automatic
- 8.Oiling controlled by dosing pump, capacity 0-12L/hour
- 9.Easy operation, with positive and negative rotary function
- 10.With removable wheels



TURBO SUGAR COATER

parameter

- 1.power: 380V 50HZ
- 2.power: main motor1.5kw vibrator8W
- 3.dimension(L,W,H): 1630x1590x1380
- 4.weight : 0.7T
- 5.capacity: 1500kgs/hour as per 2.5 g candy
- 6.material touch with food be s.s 304, other material carbon steel with powder coating
- 7.Speed controlled by manually, with 20L sugar stock hopper
- 8.Vibrator adjust manually, capacity0-0.5t/hr
- 9.Easy operation with positive and negative rotary function
- 10.With removable wheels



PURPOSE AND CHARACTERISTIC

The full system consists on following system.

1. material preparation

The full system including the gelatin melting, pectin melting tank and sugar dissolving tanks and mixing tank , with one control group. D&R also offering the auto-weighing and dissolving system for instead the manual work, and give whole automation system.



## 2.cooking system

We use the coil cooking system for the gelatin sugar slurry, the full system including coil cooker, vacuum chamber, vacuum system, and buffer tank, above tanks with one control group. With automatic steam control valve, and automatic temperature controller, with pid system, with uncooked material recycle system and so on.

## 3.cfa system

After cooked the material, should send the material to the cfa tank. For adding the color, flavor, acid manually.

This sets consists on two tanks, upper tank for mixing, and down tank for putting and boiloff.

D&R offering the auto CFA system also as the requirement of customers.

## PURPOSE AND CHARACTERISTIC

- This machine is widely used for coating medical in traditional Chinese & Western Medicine, also used for candy and chocolate in food industry. All the equipments are in conformity with "GMP" Medical Standard.
- Full-auto control system: the two screens of main frame and control cabinet apply connection, controlled arbitrarily in two sites, so it can monitor full coating process in different. The process data can be recorded on magnetic tape and printout; also can connect with outer network.
- Full-auto cleaning system: full automatic cleaning process under the control of program MCU, also equipped with hand-operating cleaning gun, so it is easy and completely to finish cleaning.

