Delicate round wafers with vanilla flavour or chocolate cream are typical products for confectionery shops, cafes in big cities, or attractive tourist places to visit. Round wafers can also be very often a souvenir gift from such tourist

destinations, as they are e.g. Vienna Sacher Cake, Karslbad Wafer, Tokyo banana ...

The wafer dough is prepared in a Turbomixer. Then the wafer corpuses are baked by Baking carousel. The cream is prepared by Planetary mixer and spread automatically on wafers by Creaming machine. The wafers creamed by cream are cooled in a Cooling tunnel.

### Preparing of a dough

#### Dough preparation recipe:

water 40 I flour 24.000 g sunflower oil 1.200 g dry egg yolk 300 g wheat starch 300 g dry milk 210 g salt 60 g baking soda 60 g Total: 66 kg



#### Turbomixer

Technical data:	
Power input	3 kW
Voltage	3x230/400 V/50 Hz
Maximum volume of hopper	70 litres
Standard volume of hopper	40 litres
Diameter of hopper	400 mm
Machine height	1050 mm
Weight	75 kg

**Baking of wafer corpuses** 



The baking carousel is designed for production of wafer corpuses with a diameter 180-200 mm. This machine has 21 baking plates. The supply of dough on the baking corpuses is realized by pisto pump, the volume of dough is adjustable. An automatic temperature regulation of upper and lower baking plate is possible.

#### **Baking carousell**

The baking corpuses can have different design (logo of the city, logo of a major tourist attraction in the city) or just a relief. In case of wafer tarts production, the baked wafer corpuses are automatically transferred to the Creaming machine.

Technical Data	
Machine length	2500 mm
Machine diameter	2120 mm
Machine height	1250 mm
Weight	1450 kg
Baking plates	21 pcs
amount	
Power	21,5 kWt
Capacity	1160 pcs/hour
Electric motor	1,5 kWt/380V
Air pressure	0,5-0,6 MPa
Air amount	240 I/min.



#### Preparing of a cream

Premix 14.000 g icing sugar 10.500 g milk powder 4.500 g 45% chocolate 3.000 g milled wafers 2.000 g soy powder 750 g cocoa 1.500 g vanilla flavouring 45 g cocoa flavouring 45 g Total: 31.8 kg

### Planetary mixer

Technical data:		
Bowl volume:	50 litres	
Motor:	1500W	
Electro:	400V/50Hz/3 phases	
Amount of Speeds:	3	
Speeds	- 99 rotations/min	
	- 176 rotations/min	
	- 320 rotations/min	
Sizes (w x l x h):	73 x 64 x 130cm	
Weight:	270 kg	
Amount of bowls:	2	
Accessories:	Flat beater	
	Spiral hook	
	Wire whip	

### Wafers creaming



### **Creaming machine**

Maximum number of wafers lying on each other6 pcsCream thickness1-2 mmInput1 kWLength2530 mmWidth900 mmHeight1444 mmWeightapprox. 350 kgCompressed air0,5-0,6 MPa, 300 l/minMaximum height of wafer's block25 mm	Technical Data	
Input1 kWLength2530 mmWidth900 mmHeight1444 mmWeightapprox. 350 kgCompressed air0,5-0,6 MPa, 300 l/min		6 pcs
Length 2530 mm   Width 900 mm   Height 1444 mm   Weight approx. 350 kg   Compressed air 0,5-0,6 MPa, 300 l/min	Cream thickness	1-2 mm
Width900 mmHeight1444 mmWeightapprox. 350 kgCompressed air0,5-0,6 MPa, 300 l/min	Input	1 kW
Height 1444 mm   Weight approx. 350 kg   Compressed air 0,5-0,6 MPa, 300 l/min	Length	2530 mm
Weightapprox. 350 kgCompressed air0,5-0,6 MPa, 300 l/min	Width	900 mm
Compressed air 0,5-0,6 MPa, 300 I/min	Height	1444 mm
	Weight	approx. 350 kg
Maximum height of wafer's block 25 mm	Compressed air	0,5-0,6 MPa, 300 I/min
	Maximum height of wafer's block	25 mm

Cooling of wafers

**Cooling tunnel** 

Technical data:		
Conveyor	Straight, belt conveyor	
Conveyor length	6050 mm 🛛 🖉	
Coneyor height	800-900 mm	
Belt width	570 mm	
Cooling length	4500 mm	
Width of the tunnel	1200 mm	
Height of the tunnel	1900-2000mm	
Belt	Ammeraal Beltech	
Electricity	3 N PE, 50 Hz, 400/230 V, TN-S	
Input	5,5 kVA	
Protection	IP 42	
Shortest cooling time	40 seconds	
Longest cooling time	11minutes	

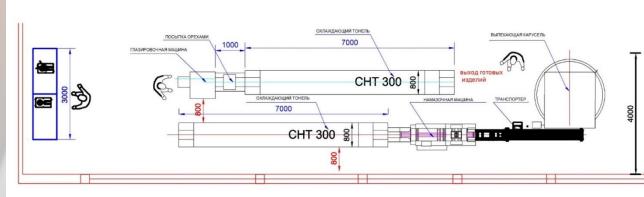


Product diameter : between 180-200mm

Product thickness: Approx. 3-5 mm **Cream flavours :** Vanilla, white or dark chocolate, cocoa, egg liqueur, nougat, all fat based creams

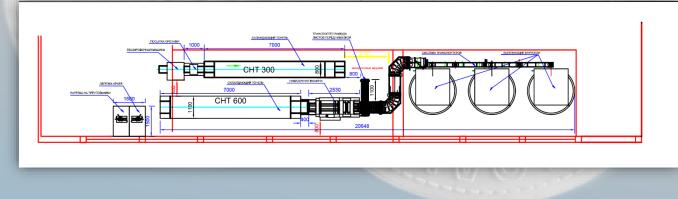
**Production plant layout** 

Round wafers plant- one carousel



Layout Description 1 baking carousel(s) 2 outfeed conveyor 3 greasing machine 4 cooling tunnel 5 glazing machine 6 with strewing unit 7 cooling tunnel

Round wafers plant- three carousels



Advantages:

- different fillings can be used
- product shelf live 6 months
- custom-tailored set of molds according to customer's requirement
- easy to operate the line
- easy to clean the line
- quick return investment

We will be pleased to advise you on the basis of our experience, propose the optimum layout of the machines, elaborate a graphic design to your liking and present a budget quotation.

We are happy to help you to launch this product on the market.

If you want more information, do not hesitate to contact Dvorak-engineering Co., Ltd.

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