



PIONEER COMPANY IN THE PRODUCTION OF THE SUGAR CUBE MACHINES

Teknikeller Machinery is manufacturing *full automatic* and *semi-automatic* sugar cube making machines, *wrapping* and *stick-pack* machines.

Different models are available depending on your production needs and the product size and shape which you can choose among our *variety of choices*.

Teknikeller Machinery was found in 1996. The company started production with C type sugar cube machines. 10 new types of C type were designed and developed in accordance with the customer demands in 2002.

With all these developments, our company has become the leader in **C type sugar cube machines with manual packaging**.

Beginning from the first production date, C type machines have been improved. In 2007, automatic filling robot was added to the C type machines and for the first time all over the world, we have become the only company to produce C type full automatic machines.

After the installation of the full automatic system, another improvement has also been established and the packaging of both 500 g. and 1 kg of sugar boxes became possible. Moreover in some models the availability of manufacturing two different sizes of sugar cubes at the same time with the full automatic system has been provided.

Along with the given equipment, the company has mastered the release of **full automatic R type sugar cube machine** capable of making both lumpy firm and easily soluble sugar.

Teknikeller Machinery also produces **single and double wrapping machine, stick pack machines, equipment for the cutting and crushing of hard sugar cubes, a line for manufacturing hard and conic sugar** in accordance with the principle of diversification.

Together with the new models, the company goes on the production of equipments for the food industry in 6 types and 47 models.





OUR VISION

The purpose of our company is the manufacture of the equipment which would meet the requirements of our customers both with the quality of the product as well as the best prices available.

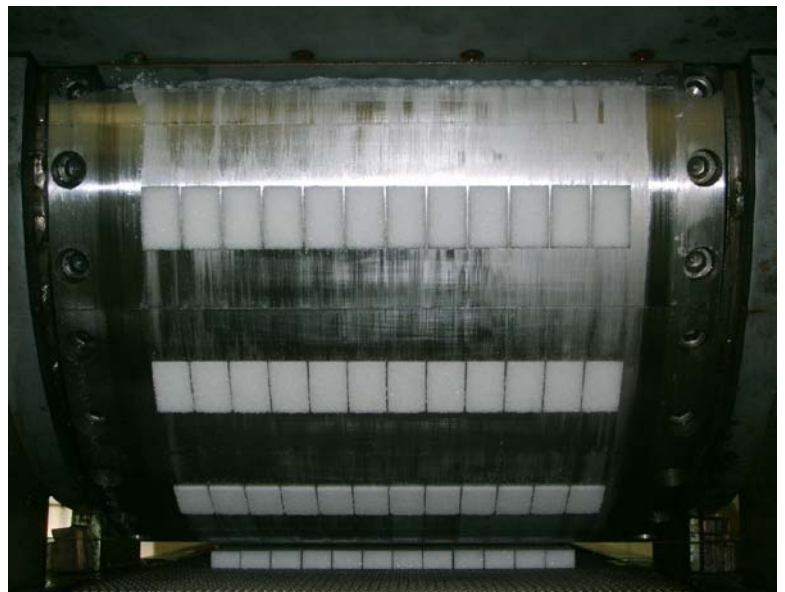
In a current of 13 years of activity in the market of production for the food-processing industry, we always started with the principle of protection of the interests of our clients. Working with a team of reliable and skilled experts , our company Teknikeller is always open to cooperation.

R TYPE FULL AUTOMATIC SUGAR CUBE MACHINES



These are the pressing and packaging machines, able to mix the granulated sugar with certain amount of water, make cubes and transfer them in cubic form to chrome belt which goes through ovens and then coolers

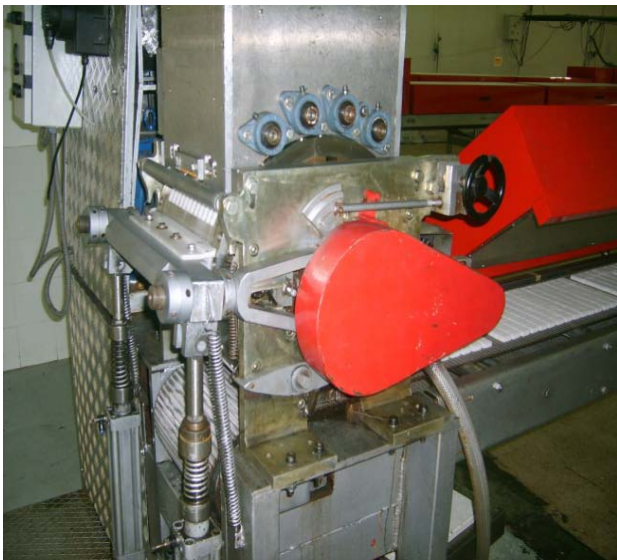
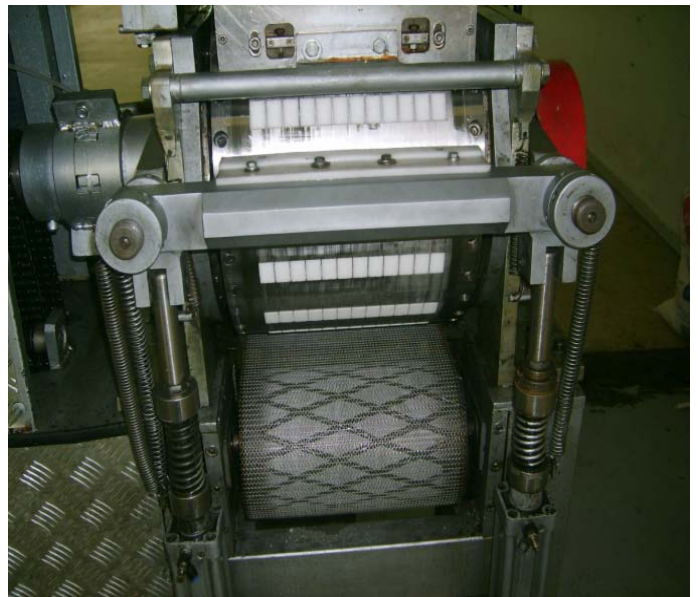
The R -type sugar cube machines have drum type mould which then transfers the sugar cubes to the conveyor in rows as it cycles.



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These machines are the perfect option for the industry with the higher production capacity, that is looking for automation, less number of personnel, and longer durability. Compared with the C type, these machines work at a lower rate, and have a higher rate of production.



These are the machines that require bigger production area (at least 26m long). They also have higher electricity consumption compared to the C types

The hardness of the sugar cubes that are formed are determined in a certain range for the effective working of the machine.



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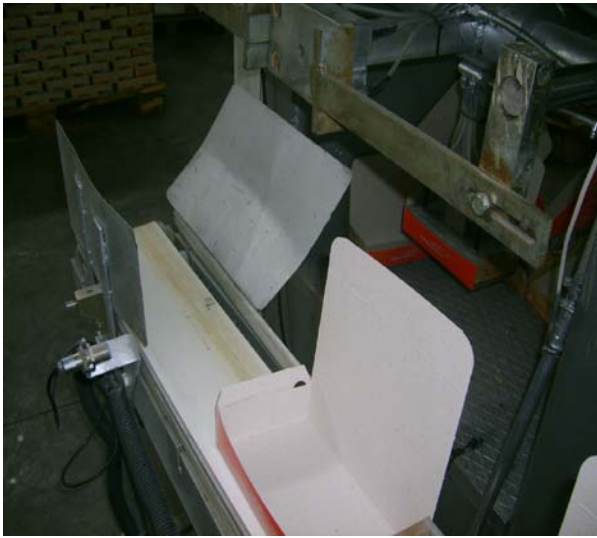
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R type full automatic sugar cube machines have the *automatic packaging, automatic gluing and automatic box closing systems.*

Here sugar cubes are filled in boxes and the boxes are closed automatically.



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Model		T.T.O.R.- 45	T.T.O.R.-145	T.T.O.R.-245	T.T.O.R.-345	T.T.O.R.-445
System	Automatic packaging	Exists				
	Automatic gluing	Exists				
	Automatic box closing	Exists				
Production area	Length	33,00 m	37,00 m	39,50 m	43,00 m	50,00 m
	Width	8,00 m	8,00 m	10,00 m	12,00 m	15,00 m
	Height	3,00 m	3,00 m	3,00 m	3,00 m	3,00 m
Mould		360 mm	380 mm	440 mm	500 mm	550 mm
Pressure		1,02 -1,05 g/ cm ³				
Ovens	Upper	5	8	10	12	14
	Lower	optional				
Cooler	Double	1x5	2x3	3x3	3x3	4x3
	Single	-				
Electric per 1 hour	Built	30,0 kV	34,0 kV	36,0 kV	38,0 kV	45,0 kV
	Consumption	18,0 kV	22,0 kV	24,0 kV	27,0 kV	35,0 kV
Water used per day		100 L	125 L	250 L	500 L	750 L
Humidity in the production area		max 70%				
Capacity	Per 1 hour	250 kg	500 kg	1040 kg	1540 kg	2080 kg
	Per 24 hour	max 6 ton	max 12,5 ton	max 25 ton	max 37,5 ton	max 50 ton
Weight of filled boxes		1000 g/ 750 g/ 500 g (optional)				
Quality of water used		Drinking water				
Shipment		20 " container	20 " container	20 " container	20 " container	40 " container

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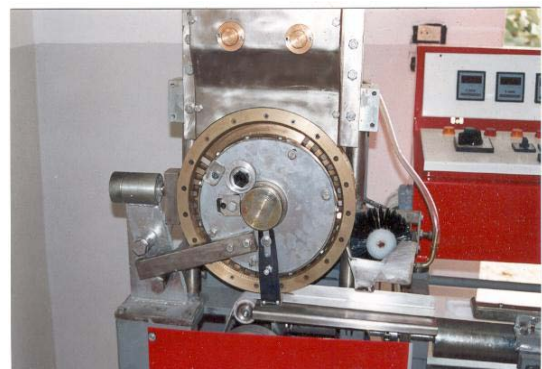
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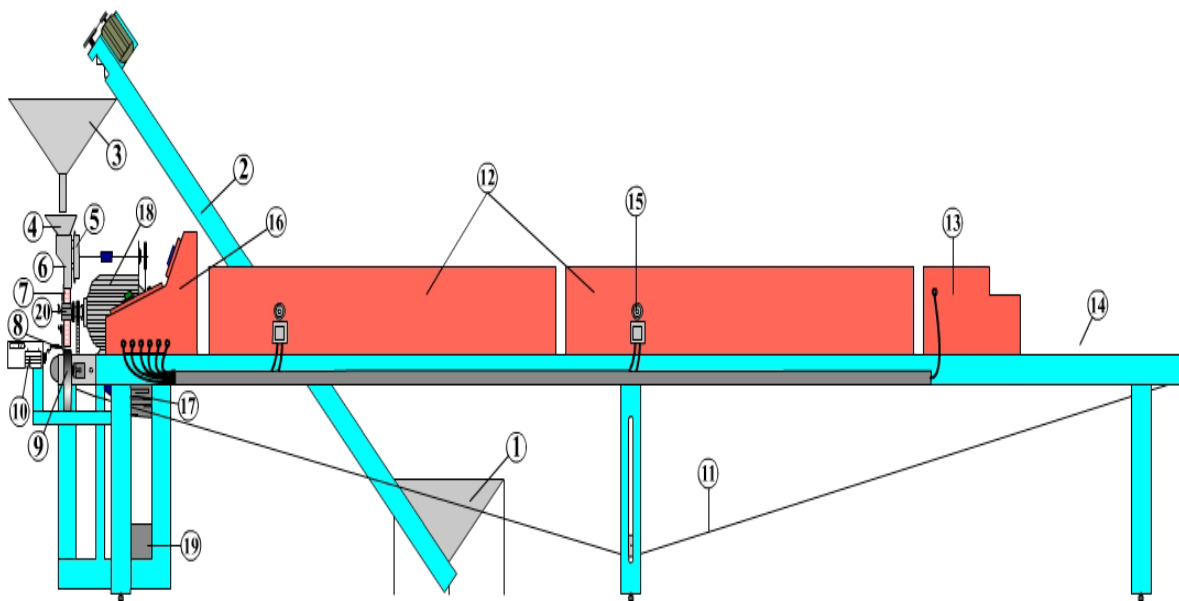
C TYPE SEMI-AUTOMATIC SUGAR CUBE MACHINES



These machines have the disc type mould. The sugar cubes are transferred to the conveyor in a row as the disk turns. C type machines work with a fast rate and with lower production capacity. The packaging system is semi-automatic, since it is more profitable than automatic machines. Their requirement of less production space and electricity makes these machines very suitable for the newly starting or rather moderate manufacturers . The hardness of the product can be determined in a wide range by the manufacturer with these machines.

The working principle of C type machines:

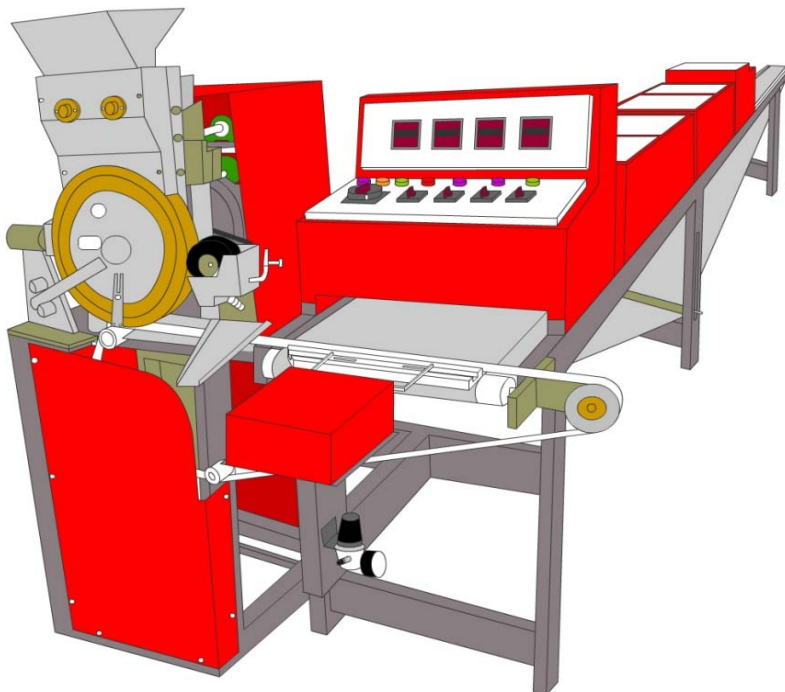
Sugar is supplied from the lower silo and it is transferred to the upper silo by the elevator. Then the sugar goes into the mixer through the dosager and is mixed with a certain amount of water. Wet sugar is pushed into the mould from the loading section called loader mixer. Sugar goes into the mould and then is compressed by the pressing mould in order to have the cube form. It is then pushed onto the belt made of chrome in rows. Pneumatic system is used to transfer wet sugar cubes safely. On this chrome belt, the sugar cubes are dried under the ovens and then they are cooled under the coolers. A belt going up to the filling point carries the cube sugars coming out of the drying ovens. After cooling the sugar is ready for packaging.



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|-----------------------|------------------------------------|-------------------|
| 1. Lower Silo | 8. Stake to drop sugar | 15. Thermostat |
| 2. Elevator | 9. Intermediate Band (teflon band) | 16. Control Panel |
| 3. Upper silo | 10. Pushing Pneumatic System | 17. Main Motor |
| 4. Sugar Storage Area | 11. Chrome Band (main belt) | 18. Main Reducer |
| 5. Distributing Gear | 12. Ovens | 19. Water Storage |
| 6. Loader-mixer | 13. Cooler Fan | 20. Brush Plate |
| 7. MOULD | 14. Sugar Packaging Area | 21. Pressing head |

General Properties:

1. In the process of sugar cube production only water (normal drink water from the tap) may be used as an additional substance. No other additional substance may be used.
2. Vacuum device is used in packaging stage. The sugar cubes come out from the machine in order carried by belt and the vacuum device is used to transfer it to a package safely and without being touched. With every take the vacuum device is able to package required pieces of sugar cubes. For example, if there are three rows in a packet, the operator takes 3 times to fill the packets. Thus it will take maximum 5 secs to fill and cover one package.
3. Two workers are required . While one is packaging the sugar , the other will be charged to close and place the packages to boxes, and feed the sugar grains to the lower silo of the sugar machine.
4. Depending on the customer request , the package dimensions is determined as it includes defined number of sugar cubes.

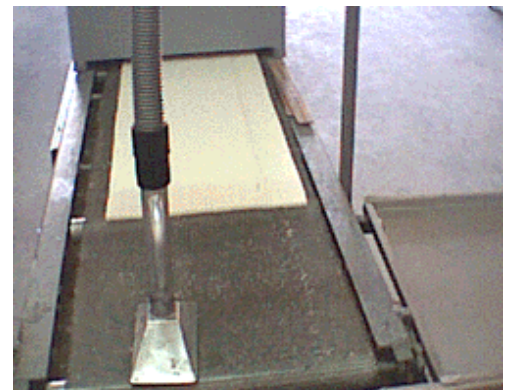


All parts of the machine that the sugar comes into contact are made of chrome (304-420) which is suitable for the food production standards



Technical Information:

1. The machine is capable of producing 4-25 tones of sugar cubes in 24 hours.
2. The machine is working at 380 volt and is 7-13 kW max.
3. The machine has an electrically supplied digital panel and does not need another panel.
4. The sugar transferring band of the machine is made of chrome.
5. The machine includes two ovens , one cooler and the inner parts are made of chrome.
6. The ovens are thermostat controlled and the electricity usage is minimal.
7. The little silo of the machine is capable of 3 sacks of sugar and the large silo is capable of 10 sacks.
8. The elevator is 4 m. long and the motor is 1.5 Hp powered.
9. In the process of sugar production three workers are engaged.
10. The machine should have a working space of 25 m².
11. The machine produces sugar cubes for packages of 250-1050 g.
12. Since the machine is not too noisy it can be placed under a building.
13. All the parts that come into contact with the sugar are made of chrome.
14. Three workers are needed for production.
15. Front pushing hand system of the machine is working with the pneumatic system.



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Model		TYO-40 CP	TYO-50 CP	TYO-40 2CP	TYO- 70 CP	TYO- 80 2CP	TYO-100 CP	TYO-KrC 2P	TYO-252 CP
Production area	Length	9.00 m	9.00 m	11.50 m	14.00 m	14.00 m	17.00 m	15.00 m	21.00 m
	Width	2.50 m	3.00 m	2.50 m	3.00 m	3.00 m	3.00 m	2.50 m	4.00 m
	Height	2.80 m	2.80 m	2.80 m	2.80 m	2.80 m	2.80 m	2.80 m	2.80 m
Mould Diameter		350 cm	380 cm	350 cm	440 cm	440 cm	500 cm	350 cm	500 cm
Ovens	Upper	2	3	3	4	4	5	4	7
	Lower	-	-	-	-	-	-	-	1
Cooler		1	1	1	2	2	2	2	3
Electricity per 1 hour	Installed	6.5 kV	6.5 kV	10.5 kV	13.5 kV	13.5 kV	15.0 kV	15.0 kV	24.0 kV
	Consumed	4.5 kV	4.5 kV	7.0 kV	8.5 kV	8.5 kV	10.5 kV	10.5 kV	18.5 kV
Water used per day		40 L	50 L	70 L	70 L	80 L	90 L	70 L	180 L
Humidity in the production area		MAX 70%							
Capacity	Per 1 hour	167 kg	208 kg	292 kg	292 kg	333 kg	375 kg	292 kg	750 kg
	Per 24 hour	Max 4 ton	Max 5 ton	Max 7 ton	Max 7 ton	Max 8 ton	Max 9 ton	Max 7 ton	Max 18 ton

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