MIXER 350l - 1000l

The materials ingredients are fed into the mixer through two feeding openings with a diameter of 255 mm. Minor ingredients are introduced into the mixer through a small window. Another opening with a diameter of 155 mm is used for venting the mixer during its filling or emptying. There is a circular discharge opening in the bottom of the mixer. The opening is controlled by means of an air-operated mechanical device. The opening remains closed even if there is a failure in the supply of compressed air. This discharge opening is provided with a flange, therefore, the mixer can be connected to a respective handling system easily.

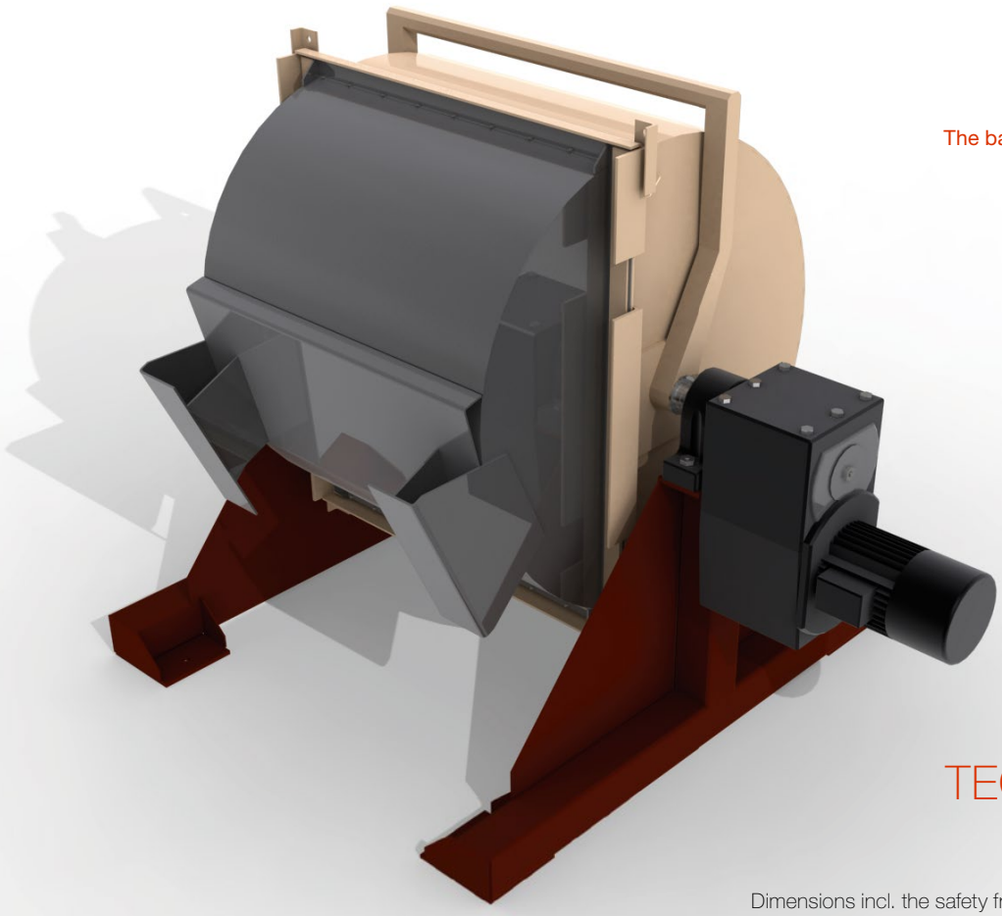
The mixer is suitable for preparing mixtures without addition of water. The mixing takes place inside the mixer thanks to the action of paddles. If required by the customer, the bottom and the side-walls can be lined with a special abrasion-resistant material.

TECHNICAL DATA

		350L	1000L
Volume (content)	[l]	350	1000
Electric power	[kW]	5,5	15
Paddle revolutions	[rpm]	38	32
Output	[l/min]	116	330
Dimensions: Length	[mm]	2400	3055
Height	[mm]	1280	1485
Width	[mm]	1700	2350
Weight	[kg]	1310	2220

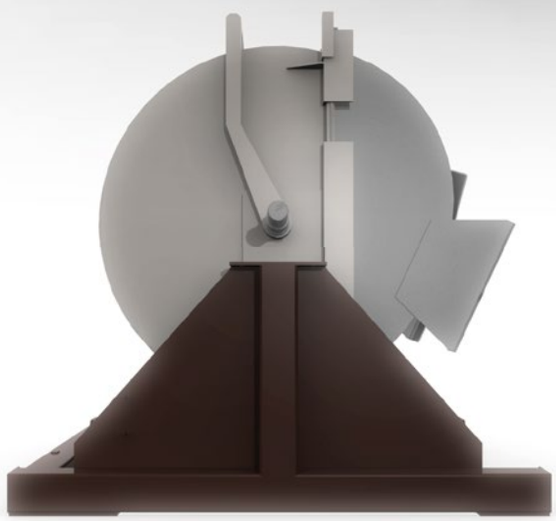
MIXER BM-S-150

The mixing process consists in blending the batch inside the cylindrical drum that steadily rotates along its main axis. Lower part of the drum can be separated and moved on a simple truck to transport the batch from the mixing machine to the glass furnace. The mixing process runs automatically and the degree of blending can be adjusted by the mixing time. This mixing machine is convenient in combination with pot furnaces.



The batch mixer BM-S-150 is designed for dry mixing of glass batch

Maximum quantity of each batch is 150kg



TECHNICAL DATA

			150L
Dimensions incl. the safety frame:	Depth	[mm]	1520
	Height	[mm]	1600
	Width	[mm]	1770
Approximate weight incl. the safety frame		[kg]	750
Height of the drum axis		[mm]	740
Drum revolutions		[rpm]	16
Total input of the machine		[kVA]	2
Electric motor:	Output	[kV]	1,5
Model IM 108	Revolutions	[rpm]	1380
Type - SK90L/4 BRE 20	Max. noise level	[dB]	80

Electric power system: 3+N+PE, 50Hz, 400 V
Electric gearbox Type: SK428AG- 90L/4 RE 20

BUCKET ELEVATOR ELVA

ELVA elevator is a vertical conveyer with a continuous belt which carries transport buckets. The material is fed in the lower loading station and transported up to the upper unloading station where it is discharged with gravity-centrifugation. The material is fed in the buckets directly from the hopper. The scattered material is scoped by the buckets in the lower loading station. The belt with the buckets goes through a self-supporting shaft. There are guiding rollers that eliminate vibration of the belt in the vertical direction. The belt is stretched with a tension drum in the lower loading station. The drum position can be set with two tightening bolts. The driving drum is in the upper station and it is directly driven with a worm gear unit. The self-locking worm transmission secures the elevator for spontaneous movement of the belt with the loaded buckets. The ELVA elevator is made of materials that resist abrasive effects caused by the transported material. The most exposed parts of the down and upper stations are lined with abrasion-resistant steel Hardox. Other parts are made of structural steel.

The elevator - vertical belt conveyer - is designed to transport loose and lump material.
It is produced of abrasion-resistant materials, therefore, it is especially suitable to transport highly abrasive materials.

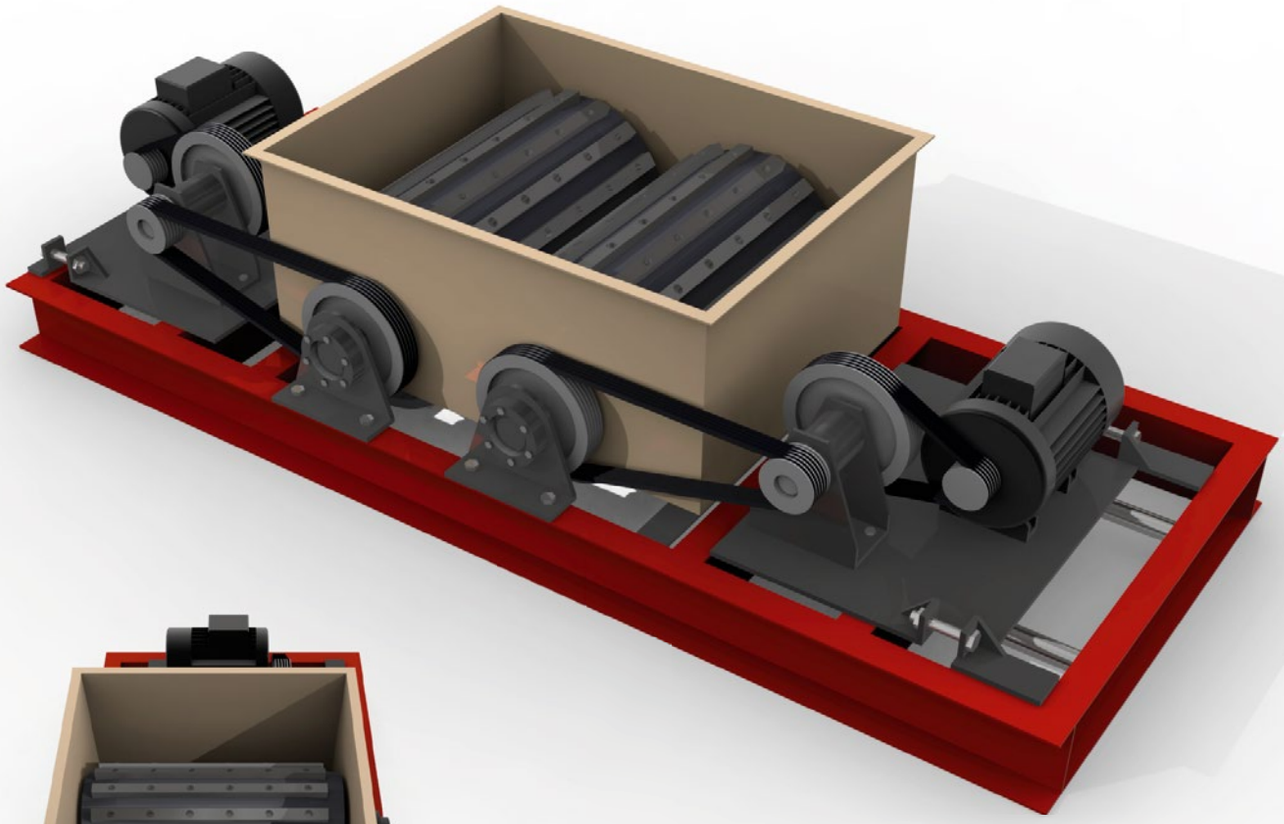
TECHNICAL DATA

		ELVA 5	ELVA 16	ELVA 40	ELVA 100
Transport power	[t/h]	**5**	**16**	**40**	**100**
Bucket width	[mm]	160	200	315	400
Belt speed	[m/sec]	1,25	1,25	1,4	1,5
Transport height	[m]	max. 40			
Electric input	[kW]	3	7,5	15	22
Lenght	[mm]	910	950	1200	1350
Width	[mm]	310	360	530	750

CULET CRUSHER BMC

One of the two crushing rolls that are mounted in bearing bodies can slide, giving thus a possibility to adjust the size of cullet. Both rollers are driven so that the material is drawn between them. They are driven with an electric motor through a primary gear and a countershaft. The feeding section is equipped with a safety feeding hopper. The crusher is designed to be mounted in a technological line. Its correct operation requires continuous feeding of material. We recommend to consult the intended use of this machine with our company.

The roll crusher is designed to process brittle material (glass, ceramics etc.). A rigid frame made of steel profiles is the main element of the crusher.

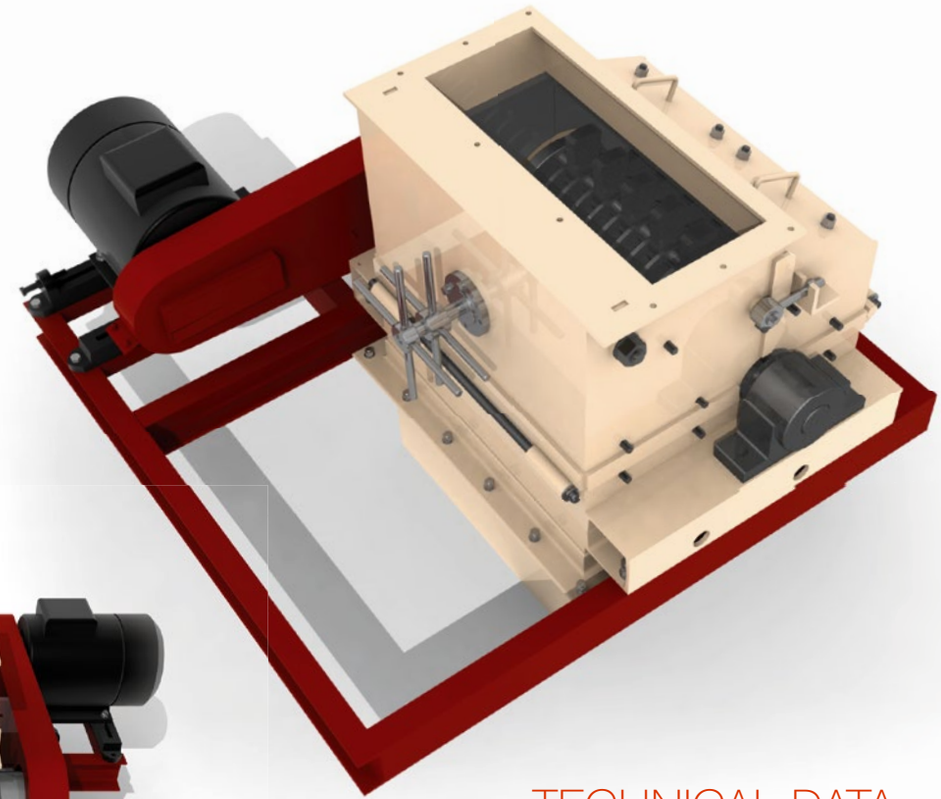


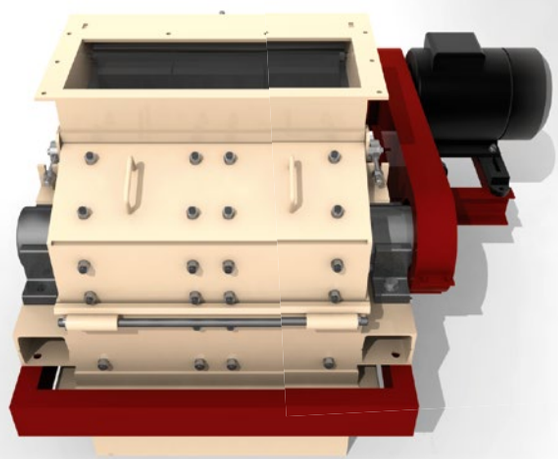
TECHNICAL DATA

		BMC 1	BMC 2
Crushing power	[t/h]	**1**	**4**
Size of fed material	[mm]	90x90x200	270x270x500
Maximum wall thickness	[mm]	50	
Culet size	[mm]	20x20 až 50x50	
Electric input	[kW]	1,7	4
Diameter: Lenght	[mm]	820	1850
Height	[mm]	650	550
Width	[mm]	700	1000
Machine weight	[kg]	250	850

HAMMER CRUSHER BMD

HAMMER CRUSHER 750x260 is a hammer-rebound crushing machine. The fed material is crushed with repeated bumps of the hammers mounted on a high revolution rotor against the impact board. The crushing space consists in a steel case equipped with a rotor and the hammers. The case is armored with abrasive-free material. The rotor is mounted on spherical-roller bearings with central lubrication. There are four chess lines of hammers fixed on the driving arms attached to the roller. The driving arms are equipped with bushings for mounting the hammer bars and there is friction welding on each arm. A rotor disposition covers the full width of the feeding inlet increasing thus the crusher absorption capacity.





TECHNICAL DATA

		BMD
Crusher output	[t/h]	**10**
Maximum size of fed material	[mm]	200
Outlet cullet size	[mm]	30
Size of feeding inlet	[mm]	710x260
Size of outlet hole	[mm]	510x399
Rotor diameter	[mm]	440
Rotor width	[mm]	661
Rotor revolutions	[min^{-1}]	1020
Number of hammers	[mm]	26
Main electric motor	[kW]	7,5
Machine weight	[kg]	250

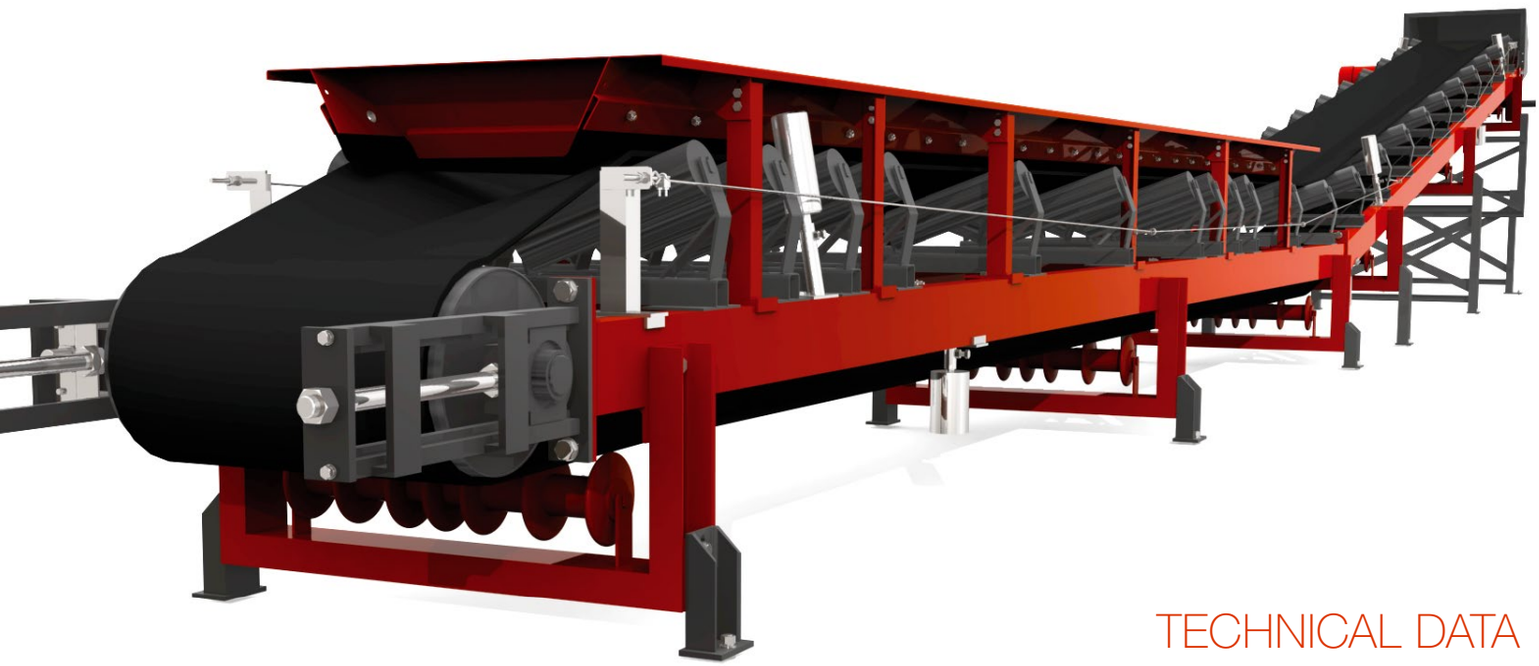
Hammer crusher type 750x260 is designed for crushing of piece-material. The crushing principle consists in bumping of material with a hammer against an impact board. The crushing process proceeds automatically:

- high output
- high absorption capacity
- high reliability and life-expectancy of the working parts
- low operation and maintenance costs

BELT CONVEYER PASO

There is a return roller at one end of the frame and a driving roller at the other end. The return roller is mounted in sliding bearing bodies and fixed to the frame with tightening bolts. A worm gear unit with an electric motor is mounted on the axis of the driving roller. A continuous belt runs on a V-shape roller idler. The lower part of the belt runs on supporting rollers.

The belt conveyer is designed for transport of loose and lump material. The conveyer consists of a unit-construction made of rolled steel shape longitudinal girders connected with solid holders.



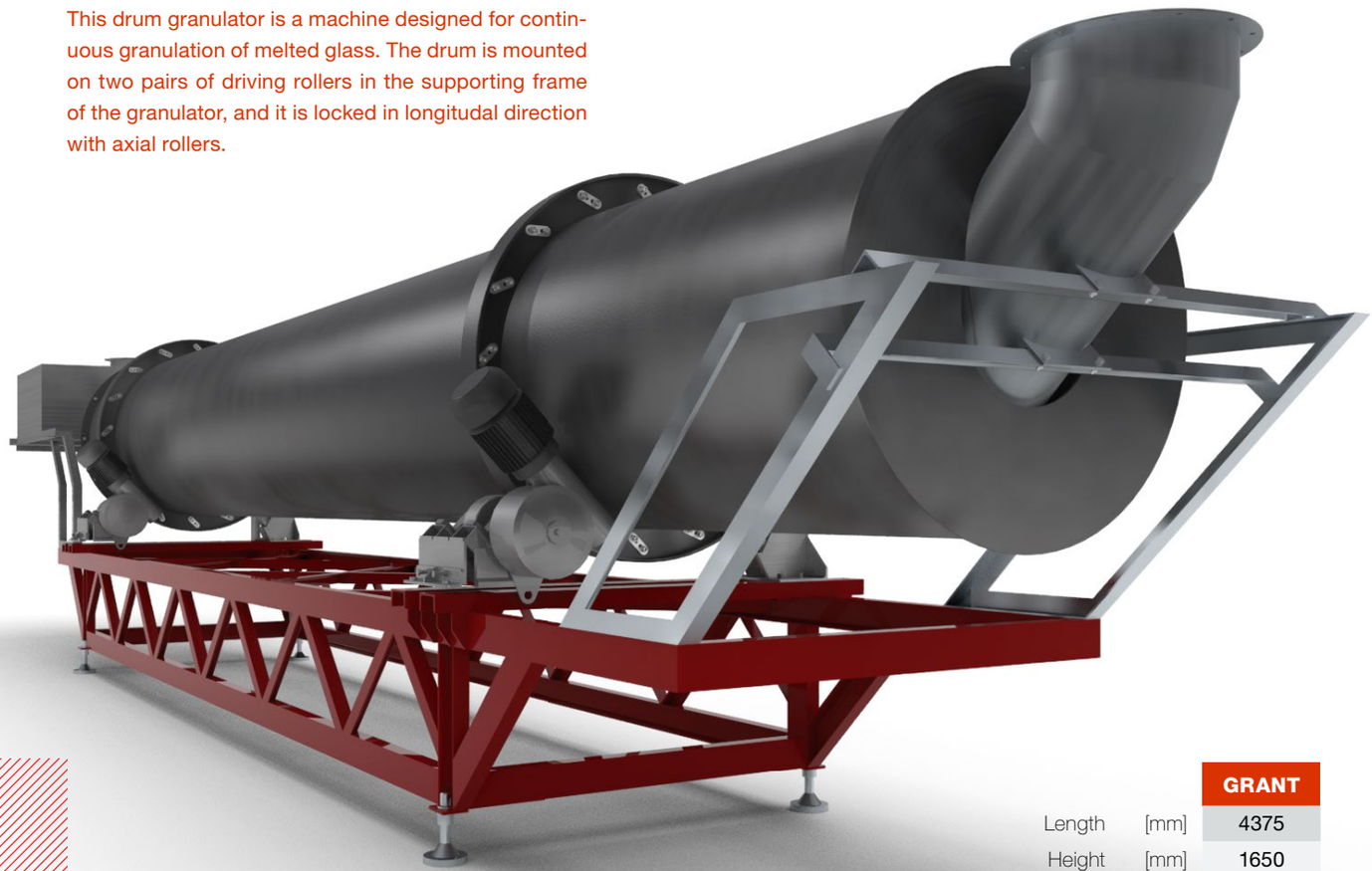
TECHNICAL DATA

		PASO 400	PASO 500	PASO 650
Transport power	[t/h]	**20**	**30**	**40**
Belt width	[mm]	400	500	650
Belt speed	[m/sec]		1,5	
Electric input	[kW]	1,5	2,2	3
Height of the machine	[mm]	min. 575	min. 600	min. 600
Width of the machine	[mm]	750	850	950

DRUM GRANULATOR GRANT

Inner surface of the drum is equipped with a spiral which moves the melted or granulated glass. Regarding the fact that the granulated glass only rolls over the inner surface of the drum, its abrasive wear is very low, whereas both durability and reliability of the machine are high. Water level is determined with the drum design. The inlet drum side is equipped with a circular ring and the other side is tapered. The machine slopes towards the inlet or outlet side, and this effects overflow of the cooling water. The drum is driven with an electric gearbox through a chain and friction drive. The melted glass is chuted in the drum. The time of granulation in the drum can be set with the drive revolutions. The cooling water is either chuted in the drum together with the melted glass, or it is fed separately through the drum inlet or outlet. An electric switchboard with switches, circuit breakers and frequency changer of revolutions makes a part of the machine. Capacity of the granulator depends on customer's requirements.

This drum granulator is a machine designed for continuous granulation of melted glass. The drum is mounted on two pairs of driving rollers in the supporting frame of the granulator, and it is locked in longitudal direction with axial rollers.



TECHNICAL DATA

		GRANT
Length	[mm]	4375
Height	[mm]	1650
Width	[mm]	1060
Machine weight	[kg]	835
Granulator capacity	[t/h]	2
Drum revolutions	[rpm]	3 - 12
Cooling water consumption	[m^3/h]	3
Electric power system 1+N+PE, 50Hz, 230 V		
Total input	[kVA]	2
Electric motor output	[kW]	0,55