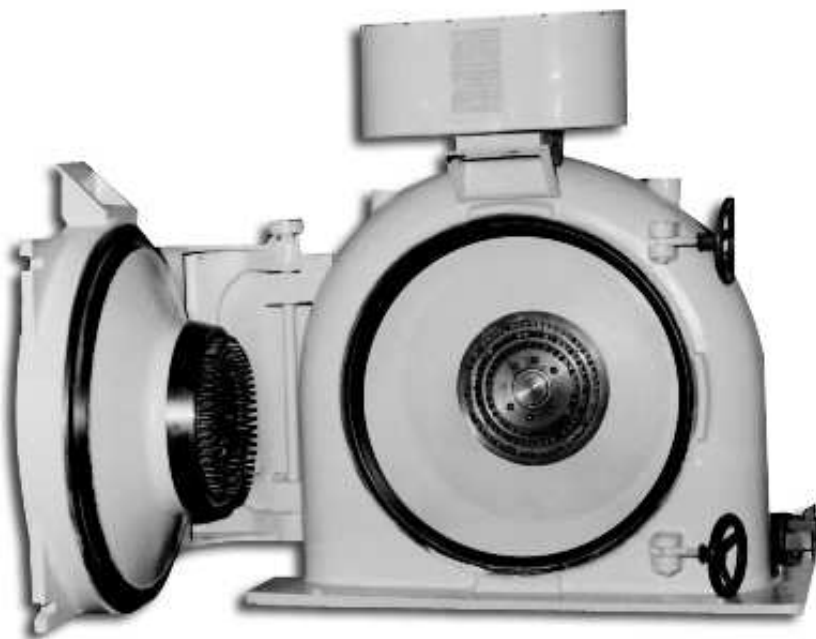


PIN MILL



The MI-400 Pin Mill is designed for breaking up of various foodstuffs and stimulants. The mill is very well suitable for breaking up of fragile raw materials and those of crystalline structure. It also can be used for disintegrating of some ductile and fibrous as well as ductile raw materials.

Pin Mill MI-400 is applied for fine and very fine grinding of a wide range of products, especially in cases where other systems would fail: when the products are greasy, sticky, heat-sensitive, or when they contain a large amount of fat.

The grinding elements are stroking pins, fixed to two driven discs. The discs rotate in opposite or same direction depending on the sort of material for grinding. The high relative speed of striking elements achieve very high fineness and wide chamber protects against stick and deposit of grinding materials. The large door gives easy access to the chamber and to the grinding elements.

Application

- spices and vegetables containing FAT: white mustard, cloves, full-fat soy beans, aniseed, pepper, paprika, etc.
- jelly-like and dense products: gelatin, casein, Arabic gum, pectin
- bakeware rejects with high fat content: wafers, biscuits, etc.
- paint pigments, food colours, pesticides
- chemical industry products: magnesium oxide, sodium phosphate, melamine, potassium sulphate and many others.

On request we can adapt our machines providing them with mounting of auxiliary devices and joining them to process lines of requested parameters.

Principle of operation

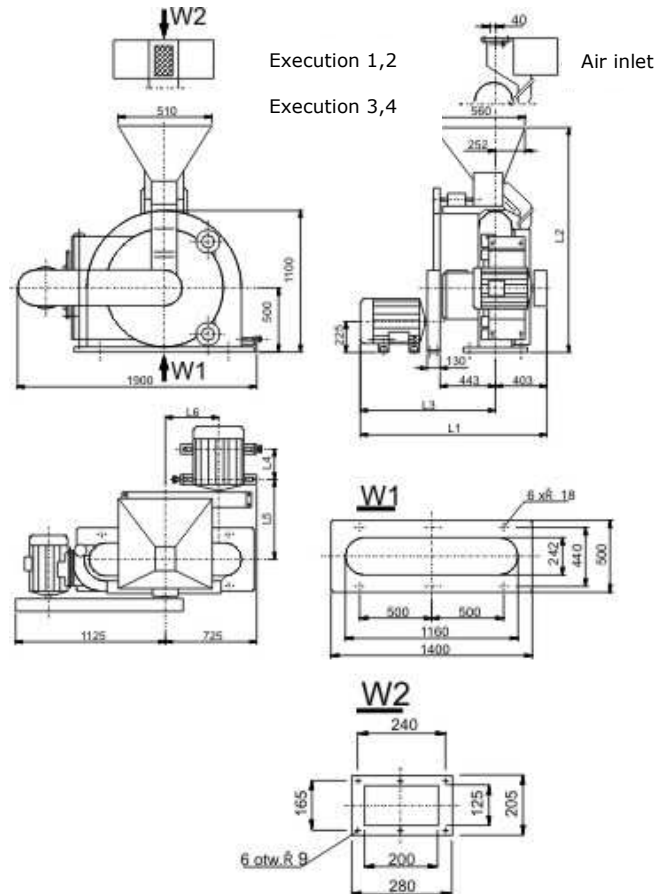
Raw material for grinding is moving gravitationally:

- from hopper through inlet chamber (for version 3 & 4),
- from inlet chamber with silencer (for versions 1 & 2),

then by inlet channel in the door into working space. There is a magnetic separator in the way of the product that removes the ferromagnetic particles. The flow of raw material into operation zone is facilitated by the air drawn from outside through inlet channel.

The raw material flows into the grinding zone where there are discs with pins rotating into opposite directions. Moving between the pins the product is hit many times and thrown outside the discs. Ground product falls down into a bin placed under the mill.

The fans of the discs draw in the ambient air, cool down the bearing housings and seal the space behind the discs. The rotary flap on the inlet of the mill (for versions 1 & 2) or slide gate in the hopper (for versions 3 & 4) make it possible to direct the raw material into desired place and cut it off when such need arises.



Dimension	Version 1	Version 2	Version 3	Version 4
L1	1597	1702	1597	1702
L2	1400	1400	1800	1800
L3	1107	1212	1107	1212
L4	241	305	241	305
L5	686	698	686	698
L6	420	385	420	385

Technical data

	Version 1	Version 2	Version 3*	Version 4*
Capacity (depending on type of product and required fineness)	150-1200 kg/h			
Disc RPM on the side of the mill body	6000	8400	6000	8400
Disco RPM on the side of the door	3000	4500	3000	4500
Drive on the side of the mill body <ul style="list-style-type: none"> • Motor power • RPM • IP class • Belt transmission ratio 	22 kW 2940 min ⁻¹ IP-55 1:1,54	30 kW 2960 min ⁻¹ IP-55 1:1,06	22 kW 2940 min ⁻¹ IP-55 1:1,54	30 kW 2960 min ⁻¹ IP-55 1:1,06
Drive on the side of the door <ul style="list-style-type: none"> • Motor power • RPM • IP class • Belt transmission ratio 	11 kW 2920 min ⁻¹ IP-55 1:1	15 kW 2920 min ⁻¹ IP-55 1:1,5	11 kW 2920 min ⁻¹ IP-55 1:1	15 kW 2920 min ⁻¹ IP-55 1:1,5
Standard power supply parameters	3 x 380 V; 50 Hz			
Weight	~1620 kg	~1735 kg	~1620 kg	~1735 kg

* version 3 i 4 – with mechanical shaker

Manufacturer reserves the right for modifications of parameters and device appearance in the course of its improvement.