

R1-PS-10 "ETALON" Pneumatic Sorting Shaker Table / Gravity separator Specification

The seeds contain difficult separable impurities, which are difficult to separate by sieves. **Pneumatic sorting shaker table** (gravity separator) separates the seeds simultaneously on:

- density (specific gravity)
- shape
- size
- surface properties.

R1-PS-10 "ETALON" Pneumatic Sorting Shaker Table / Gravity separator



**Specification
 for R1-PS-10 "ETALON" Pneumatic Sorting Shaker Table/
 Gravity separator**

Table 1

№	Indications	Value
1.	Capacity, t/h while processing: - maize, wheat, soya beans; - peas; - clover, rape seeds	10,0 7,5 4,0
2.	Power consumption, kWt: - vibrator gear motor; - fan gear motor	2 x 0,37 2 x 7,5
3.	Deck square, m ²	3,6
4.	Air consumption, m ³ /h	40 000
5.	Overall dimensions, mm, max - height - length - width	1550 3500 3000
6.	Mass, kg, max	2000

Operational technology of Pneumatic Sorting Shaker Table

Operational principle of the pneumatic table is the following: air flows of different direction and strength imitate the fluidized state of the grain product. This state is combined with vibrations of the sorting table deck. The product is moving due to inclined surface of the vibrating table deck to the different outputs, being sorted.

The grain product acts as liquid flowing on the deck and the following happens: particles with large specific gravity (heavy) fall to the surface of the vibrating table deck, and particles with lower specific gravity (light) float above the heavy ones. Heavy particles, having a significant adhesion to the surface of the deck, move up in the direction of vibrations to the output. Light particles flow down towards the lowered edge of the vibrating table. Totally pneumatic table "Etalon" output is able to divide the grain material into 6 fractions (outputs).

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The capacity of this machine reaches max 10 t/h, and the mechanisms are designed for continuous 24-hour operation.

Technological result of operation:

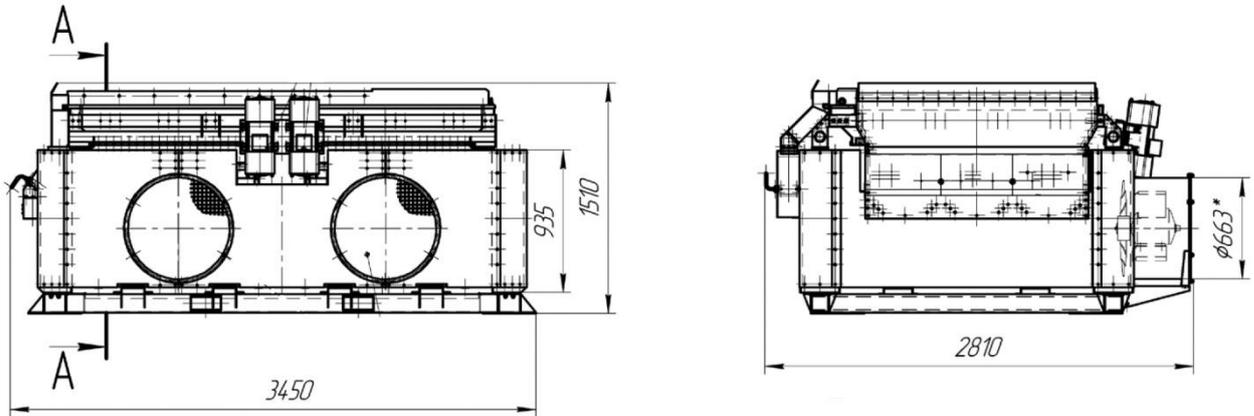
The technological effect of the Pneumatic Sorting Shaker Table operation is as follows:

- separation of difficult separated impurities from seed material, including cultivated plants;
- screening of seed on productivity of seeds and their yield properties due to the separation by density;
- separation of seeds from the grain material, affected by pests and infected by microorganisms, as well as mechanically damaged seeds;
- bringing seeds to a uniform size standard;
- separation of light impurities from unshelled, unhulled grains of rice, millet, oats, etc. filmy crops from heavy hulled crops;
- separation of heavy and light components (stones, sand, etc.), selection of sprouted seeds, animal excrements, insects, ergot, millet, wild radish, clods of earth or stones from cereals.

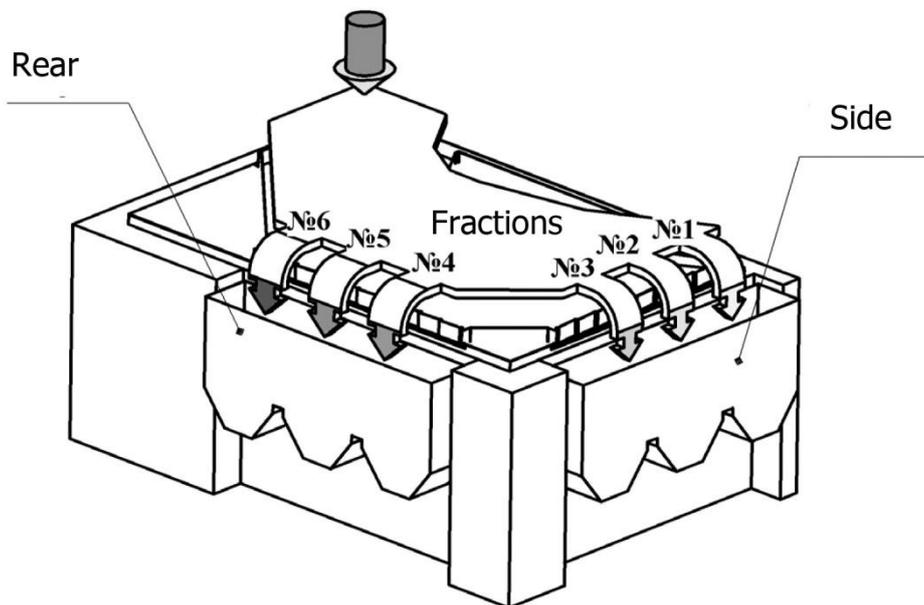
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Input materials



Fraction №1 - with minimum density
Fraction №6 - with maximum density