



▶ Gravity Separators KPS

Gravity Table Separators KPS are intended for sorting of materials of different specific weight and the same grain size. They are used in applications, where the screens and air cleaning is not sufficient. The machines enable cleaning of product to purity exceeding 99.9 %.

The machine vibrating parts are dynamic balanced, thus these machines feature substantially lower dynamic loads to support structures compared to similar machines from other manufacturers.

The working sieve is made from high-quality and long durability plastic material.

Separate blowing fan with air filtering is delivered as optional accessory. Other optional accessories include sacking devices for single outlets, aspiration table hood with fan, return screw conveyor and remote control.

Essential element is large plane sieve, on which sorted material moves. Large amount of air is driven under the sieve, thus ensuring lightening of sorted particles and creation of fluid bed. In-

dividual particles are sorted on the sieve due to the air flow to specific weight, from the lightest to the heaviest.

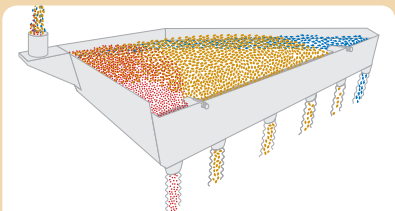
Due to vibration and inclination of working sieve the particles flow to outlets from lightest to heaviest ones.

The table plate inclines in two perpendicular planes. The vibrations of the table are driven by electric vibrator with vibration rectifier. The vibrations are electronic controlled. All adjustable elements may be precisely adjusted, while the machine is in operation. The material may be sorted maximum up to 6 fractions.

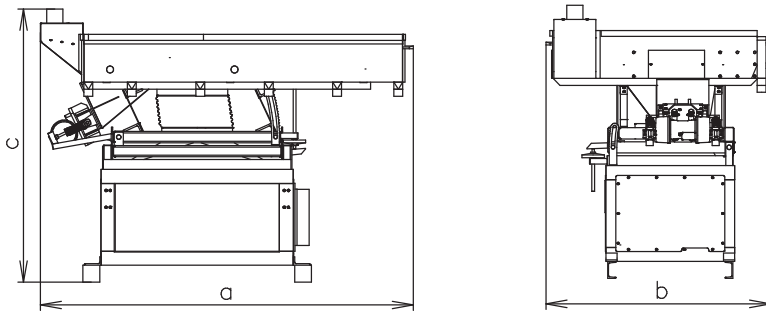
Raw material entering the pneumatic table should be properly cleaned on by sieve and air. Operation requires sucking dry and clean air.



Gravity Separator KPS



Functional Diagram



Dimensional Scheme

Applications:

- Cleaning of seeds for sowing
- Cleaning and sorting in food processing lines
- Mills for grain, rice and maize
- Cleaners of small seeds and poppy seed
- Lines for cleaning of oats, rice
- De-hulling lines for grains, spelt, millet, buckwheat and sunflower seed
- Food processing industry
- Precise sorting of various grain products in industrial lines

Benefits:

- Precise sorting acc. to specific weight (real fluid bed)
- Low power consumption
- Easy and precise adjustment
- Very low vibrations
- Long operation life of working sieve
- Easy cleaning of whole machine and sieve
- Proper handling with sorted material (no damage of sorter grain on metal sieve coating)
- No vibration feeder required

Type of machine			KPS 2300	KPS 1900	KPS 1200
Parameter	Units				
Main Dimensions	Length (a)	m	2,66	2,2	1,57
	Width (b)	m	1,60	1,2	0,86
	Height (c)	m	1,95	1,8	1,59
	Table Area	m ²	2,3	1,6	1,1
Input Power	Table Separator	kW	0,37	0,37	0,37
	Fan **	kW	11,0	7,5	4,0
Weight		kg	950	800	600
Capacities*	Wheat	t/h	3,0-8,0	1,7-3,8	0,8-1,9
	Barley	t/h	2,5-6,0	1,3-3,2	0,6-1,6
	Oats	t/h	2,0-5,0	1,2-2,6	0,6-1,2
	Clover	t/h	1,0-2,6	0,6-1,6	0,5-1,0
	Grass	t/h	0,5-2,2	0,3-1,2	0,2-0,6
	Poppy Seed / Poppy Heads	t/h	1,6-2,6	0,8-1,7	0,4-1,2
	P.S.+ Weeds (Salt Weed)	t/h	0,5-1,8	0,3-1,2	0,2-0,8

*Capacity data applies to input material; they are approximate and valid for usual impurities in particular crop. The machine capacity during processing of individual crops depends on contamination level of the crop, its humidity, and quality of the machine adjustment. **The fan input power depends on sorted material.

Technical alterations reserved.