



Flow diagram



PETKUS Gravity Separators - machines for the perfect separation of products with a different weight.

Applications:

- Seed processing of grain, cereals, corn, fine seed, legumes, cotton seeds, oil seeds, grass seeds, paddy.
- Food processing separation of impurities in vegetables, lentils, peas, chick peas, beans, coffee, peanuts, hazelnuts, almonds, etc.
- Separation of metals, plastic, rubber, wood, minerals.
- Sorting of tree seeds, pulses, grasses, herbs.

Construction:

- Completely enclosed machine with basic frame and self supporting steel plate.
- Direct adjustment of the machine deck in transversal and longitudinal direction.
- Rectangular deck type with variable oscillation.
- Interchangeable deck available with mesh and cloth cover.
- Easy and quick handling for deck change.
- The movement of the deck is driven by a counterbalanced weight.
- Even air distribution due to the pressure by the fan located under the deck and controlled by the manometer.
- Painted in colour.

Description:

The grains of almost identical size which are to be processed are fed continuously (e.g. from a feed chute or hopper) to the surface of the deck thus ensuring it is always completely covered. Within working limits, the deck inclination is steplessly adjustable in both longitudinal and transverse directions.

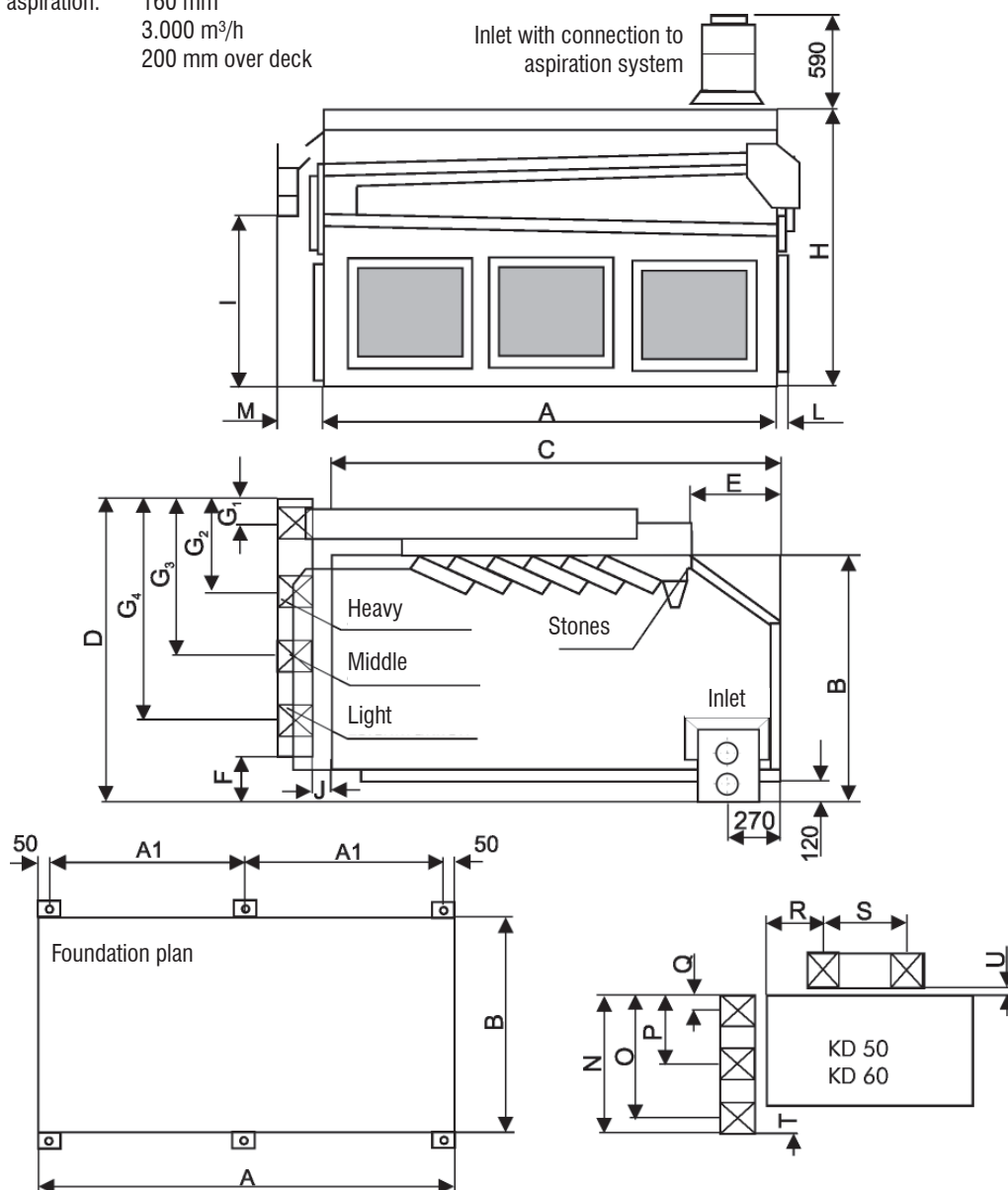
The deck surface is covered with a material formed from wire-mesh or textiles through which pressured air causing the material particles to stratify according to their specific weight. The reciprocating motion of the table deck induces the heavier particles to migrate to the higher level of deck, and because of the fluidal state, the lighter particles flow to the lower level. Since the gravity separator is sensitive to minute differences in weight, the feed rate, deck inclination oscillating intensity and frequency and pressured air supply can be adjusted in very fine increments.

Type	Capacity Wheat	Capacity Legume	Capacity Fine Seed	Size of the deck	Deck	Fan	Discharge	Weight	Volume
	t/h	t/h	t/h	mmxmm	kW	kW	kW	kg	m ³
KD 60	1,5	1,8	0,5	1200x1950	0,75	7,5	-	1200	6,5
KD 120	3,0	4,0	0,8	1400x2400	1,1	11,0	0,45	1300	8,9
KD 200	5,0	6,0	1,2	1400x2900	1,1	11,0	0,45	1700	13,6
KD 300	7,0	8,0	2,0	1500x3500	1,5	18,5	0,75	2600	24,6
KD 400	10,0	12,0	3,0	1900x4275	2,2	22,0	0,75	3800	29,9
KD 50 Laboratory	0,2	0,4	0,05	562x1005	0,45	2,2	-	200	0,6

Gravity Separator Type KD



Pipe connection to aspiration: 160 mm
Aspiration volume: 3.000 m³/h
Diameter: 200 mm over deck



Type		A	B	C	D	E	F	G1	G2	G3	G4	H	I	J
KD 50	mm	1005	560	1005	600	340	-	-	-	-	-	1100	490	105
KD 60	mm	1490	1000	2000	1115	550	-	-	-	-	-	1800	950	125
KD 120	mm	2290	1490	2400	1872	810	208	287	712	1138	1564	1800	950	125
KD 200	mm	2890	1700	2900	1872	810	208	287	712	1138	1564	1800	950	125
KD 300	mm	3490	1800	3500	1972	900	208	312	732	1163	1589	2130	950	125
KD 400	mm	3790	2200	4275	2418	900	208	380	930	1550	2105	2130	950	125

Type		L	M	A1	Air volume, m³/h	Type		N	O	P	Q	R
KD 50	mm	55	205	452,5	5.000	KD 50	mm	600	550	300	50	190
KD 60	mm	130	275	950	15.000	KD 60	mm	1040	557,5	75	67,5	190
KD 120	mm	130	275	1150	25.000							
KD 200	mm	130	275	1400	30.000	Type		T	U			
KD 300	mm	170	275	1700	35.000	KD 50	mm	38	57			
KD 400	mm	170	325	2087,5	50.000	KD 60	mm	115	125			

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