

GRAVITY TECHNOLOGY

PRESSURE DENSITY SEPARATOR

Model PDS

TECHNICAL SPECIFICATIONS

The SGM PDS separator is an air gravity table suitable to separate particles featuring different densities between a light and heavy fraction.

The dryness, but also the size and shape of the material are also important factors that may require the material to be screened in specific size ranges.

The vibrating motion of the deck is such that material is invited to climb up the deck but material is also exposed to a constant and evenly distributed upward air flow that makes that the light fraction levitates, overcome the climbing action and goes down the deck.

Material is fed and distributed among the entire width of the inclined vibrating deck. Material is exposed to a constant and evenly distributed air flow that makes the light fraction levitates.

The light particles of the material flow towards the bottom and the heavier mass particles move towards the top. Both materials are conveyed separately. As an option, the dust discharged in the air can be collected and filtered through a cyclone and a baghouse filter.

PRODUCT HIGHLIGHTS

- Highly robust perforated steel air table
- Improved material selectivity
- Maximum efficiency and reliability
- Easy access for cleaning and maintenance procedures.

OPTIONAL FEATURES

- Dust cyclone and a baghouse filter
- Customized supply of a separation line according to customer's requirements.

MODEL	CAPACITY (*)	INSTALLED POWER WITHOUT FAN HP	FAN CAPACITY CFM	FAN PRESSURE WC inch	FAN ESTIMATED HP	LENGTH	HEIGHT	WIDTH	WEIGHT	TABLE SURFACE
PDS 4	1 - 3 t/h	1.55 kW 2.07 HP	2354	6.7	5	2108 mm 83"	2286 mm 90"	1346 mm 53"	1,550 Kg 3,417 lbs	970x835 mm 38.2"x32.9"
PDS 6	3 - 5 t/h	2.35 kW 3.15 HP	2943	10.5	8	2718 mm 107"	2700 mm 106.5"	1800 mm 71"	3,100 Kg 6,834 lbs	1470x1250 mm 57.9"x49.2"
PDS 8	4 - 7 t/h	2.95 kW 3.95 HP	3414	12.2	10	3200 mm 126"	2997 mm 118"	2133 mm 84"	3,400 Kg 7,496 lbs	1778x983 mm 70"x38.7"
PDS 10	6 - 9 t/h	3.35 kW 4.49 HP	4238	15.7	15	3683 mm 145"	3213 mm 126.5"	2311 mm 91"	5,420 Kg 11,905 lbs	2100x1800 mm 82.7"x70.9"

(*) Depending on application, material specific weight and metal content in material

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TYPICAL APPLICATIONS

Separation of light metals (aluminum and magnesium)
from heavy metals (copper, brass, zinc, lead,...)

Fine zorba from 1mm - 0" to 20mm - 3/4"

