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Allgaier Mogensen

GOSAG DENSIMETRIC TABLES

Dry densimetric separation



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PROCESS TECHNOLOGY

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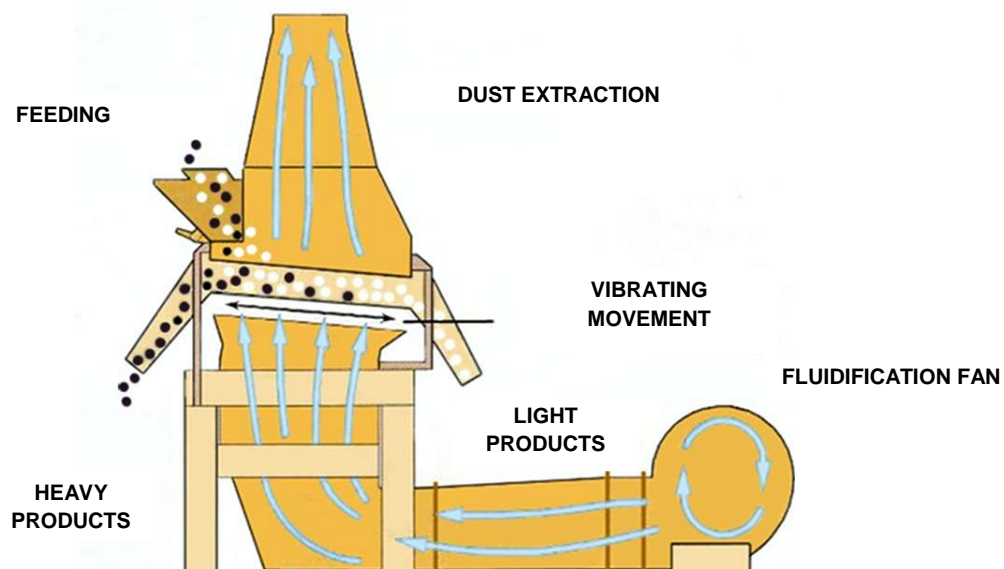
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Working principle

The dry densimetric separation is obtained on a tilted perforated bottom plate with a vibratory movement. An ascending flow of air through the bottom plate acts in different ways in order to treat the product:

- The lighter material floats without being in contact with the bottom and flows downstream due to the inclination of the trough.
- The heavier material, in contact with the bottom plate, is pushed upstream thanks to the vibration.
- The larger the difference in density of the products, the wider shall be the size ranges possible to treat.



Control parameters

GOSAG densimetric separation tables are designed to fully control the fluidization phenomenon.

The control parameters, such as the distribution of the flow rates of air through the bottom of the trough, the level of the gates or the characteristics of the vibratory movement, are established in our trial plant, reducing future adjustments "in situ".

M Type

Machines for high density products and particle sizes up to 80 mm (3.15")

An exceptionally strong machine that can successfully deal with a wide range of products such as minerals and crushed metals.

There are 3 standard types, depending on the size:

TYPE	M 70	M 100	M 150
Width (m)	0.7	1	1.5
Surface Area (m ²)	0.91	1.3	1.95

M 70 densimetric separation table
Process: Separation of different metals
Partial recirculation of the air



FM Type

Machines for low density and medium size products

Built in welded steel plate; strong and compact design. The parts exposed to wear are designed for severe conditions of use.

This table shows a high efficiency also with products that are traditionally hard to deal with, such as compost, with high moisture content.

There are 4 standard models of this table:

TYPE	FM 70	FM 100	FM 150	FM 240
Width (m)	0,7	1	1,5	2,4
Surface Area (m ²)	0,91	1,3	1,95	3,12



◀ **FM 150** densimetric separation table for compost



GOSAG Densimetric tables

GOSAG densimetric tables obtain very good results in dry separation of products with different specific densities.

The development of the dry densimetric separation tables had its origin in the mineral industry for the enrichment of the minerals. Later on, this technology has been transferred to other industries and activities such as quarries, recycling plants for waste and chemical, wood and food industries. Therefore, the products to be treated have increased, among which some are:

Mineral products: cassiterite, wolfram, circonium, ilmenite, fluorine, manganese, barytine, sulphides (lead, copper, zinc, antimony), rutile, lime, dolomite, coke, coal, phosphate, mica, etc.

Miscellaneous: triturated bones, green and toasted chicory, coffee, cereals, green beans, green waste, compost, plastic and rubber granulates, iron alloys, crushed electric cables, crushed cars, crushed tyres, demolition materials, etc.

Many companies have verified the efficiency of separation and the capacity obtained thanks to **GOSAG** tables in the treatment of the products mentioned above.

Options

Both densimetric tables, **M** type and **FM** type, can be supplied with or without dust extraction system. There are different ways of installing the dust extraction system depending on the possibilities of re-using or not the obtained product.

For the **M** type there is also a version with hood and ducts for a total or partial recirculation of the air (respectively with absence or low presence of dust).

Production

For a specific product, the capacities are practically proportional to the surface of treatment. For example, a **FM 150** table will produce a 50% more than a **FM 100**.

The capacity depends on several factors such as moisture, particle size and density of the product.



Table for industrial trials

We put at your disposal a densimetric table to carry out trials in any place, what allows us to determine outputs and industrial capacities with a particular product

Its maximum capacity is 7 t/h, depending on the density and size of the product, and can be supplied by customers request for trials in laboratories, test plants, etc.

REFERENCES OF PRODUCTS TREATED WITH GOSAG DENSIMETRC SEPARATION TABLES

PRODUCT	PRODUCTION (t/h)	PARTICLE SIZE (mm)	TYPE
ANTHRACITE	15	3 – 40	M 100
RICE/	3		FM 150
GREEN WASTE	8	0 – 25	FM 150
CRUSHED BATTERIES	5	20 – 65	M 150
CRUSHED ELECTRIC ALUMNIUM CABLES	1	3 – 10	FM 100
CRUSHED ELECTRIC COPPER CABLES	2	3 – 10	FM 100
LIME	10	6 – 12	M 100
COFFEE	13		FM 100
COMPOST	10	0 – 30	FM 150
COMPOST	16	0 – 30	FM 240
DOLOMITE	16	0,5 – 30	M 100
STAINLESS STEEL SLAG	8 - 12	1 – 4	FM 150
STAINLESS STEEL SLAG	6 - 8	4 – 20	FM 100
FERROMANGANESE	5	20 – 60	M 100
COFFEE GRAINS	1,5		FM 150
POLHYELITENE GRANULATES	2	2 – 5	FM 70
HUMUS	0,2	0 – 10	FM 70
GREEN BEANS	1		FM 150
LIGNITE	8 a 12	4 – 30	M 100
MAGNESITE	6	8 – 16	M 100
MANGANESE	7	12 – 25	M 100
DEMOLITION WASTE	16	6 – 20	FM 150
CRUSEHD TYRES	0,5	3 – 10	FM 70
PUMICE STONE	6	20 – 60	FM 150
METAL RECOVERY	4 - 8	5 – 10, 10 – 20, 20 – 40	M 70
BARYTINE	15	10 – 20	M 100
SAWDUST AND WOOD CHIPS	7,5	0 – 25	FM 150

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