CLASSIFICATION OF LARVAE IN INSECT FARMS

Insect proteins for food and feed.



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INSECT EQUIPMENT: DENSIMETRIC TABLES

MOGENSEN, in cooperation with a consolidated client in Europe, has adapted its densimetric table for dry density separation, GSort, to classify live larvae from dead ones, as well as their substrate, which includes larval residues and meal for their food.

This process is carried out for both large larvae and small larvae. The MOGENSEN Spain division has been responsible for the development of this innovative solution, which has been combined with screening solutions from MOGENSEN Germany, allowing us to offer a complete solution for our clients.

Separation carried out at Madrid (Spain) test plant with a densimetric table. Both flows return to one belt only for testing purposes:



Live insects exit through the upper mouth.



Separated substrate, before discharging the live and dead insects on the belt.

The demand for sustainable alternatives has opened a very large field to the use of insect-based proteins for animal feed. The proteins obtained are of high quality and have a lower environmental footprint.

Separating live animals from dead ones implies a very delicate process, since it is necessary to avoid injuring the living ones, which implies a very delicate selection process, maintaining a high efficiency in this process.


GSort

How it works.

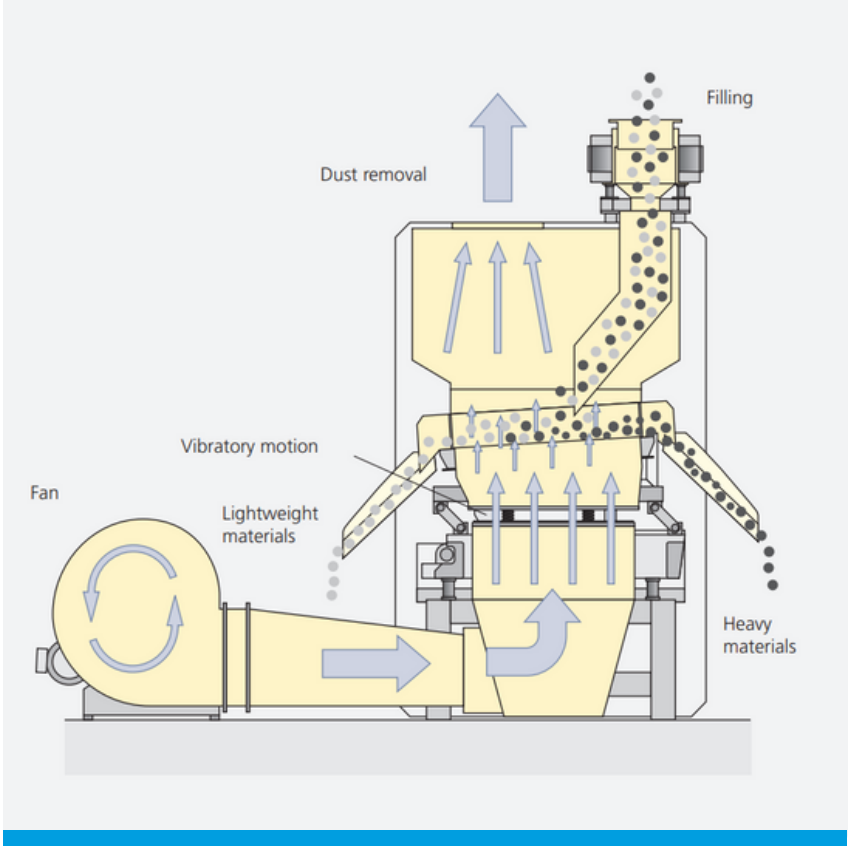
The GSort's density separation process is based on a tilted, vibrating deck. An upward stream of air passes through this deck, having two important effects on the materials being separated:

- Materials with a lower density will move downwards, without any contact with the deck, as a result of the inclination.
- Materials with a higher density will stay in contact with the deck and be conveyed upwards by the vibration.

The GSort makes it possible to adjust parameters individually, quickly, and easily, ensuring that the machine is always perfectly tuned for the materials being separated. This high precision is achieved by adjusting the following parameters:

- Flow and air speed distribution
- Overflow flap height
- Inclination of the table
- Vibration frequency

After installation and adjustment of the needed air flow, the air flow distribution is adjusted by an efficient mechanism within the table.



INSECT EQUIPMENT: MOGENSEN SIZERS

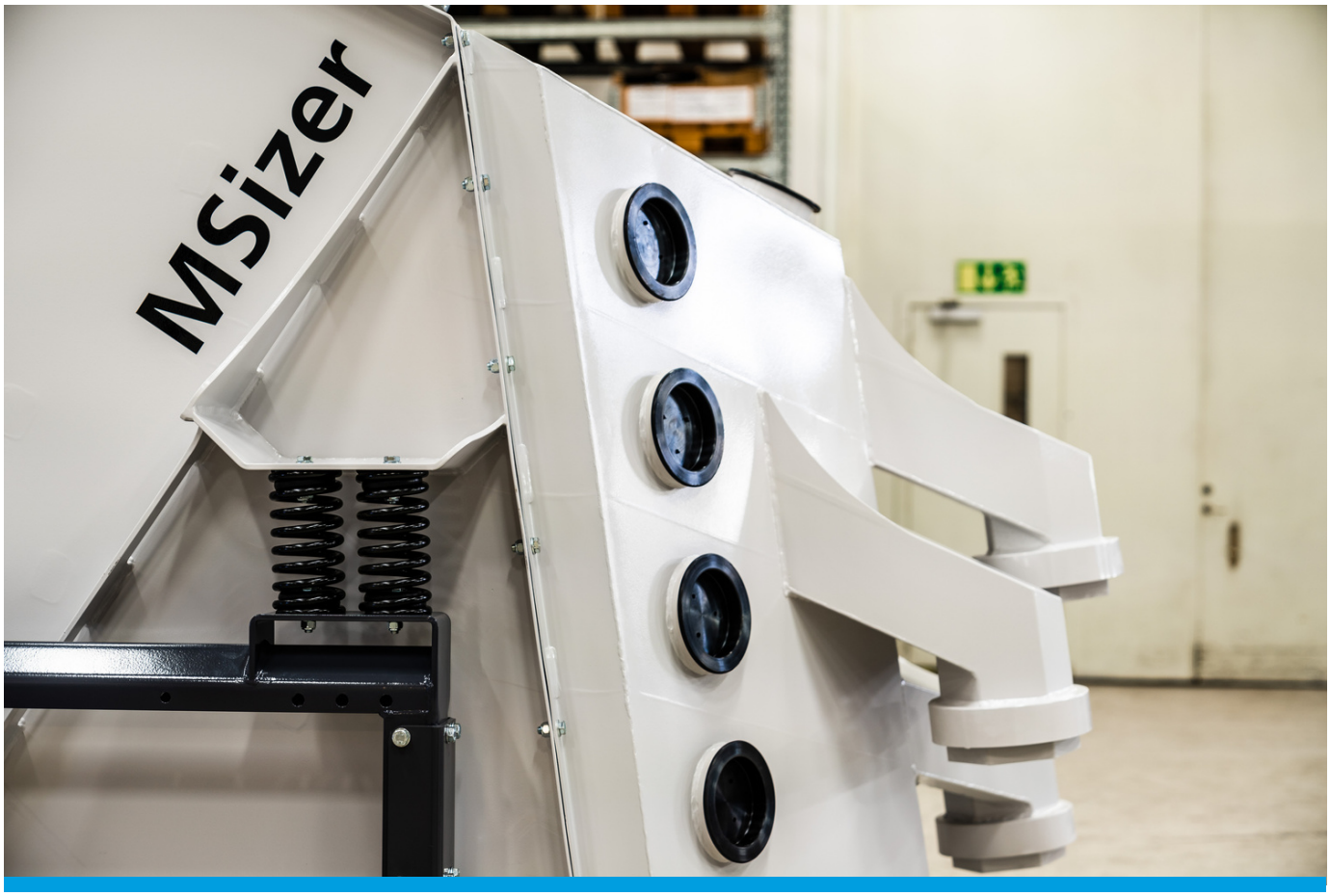
Economical. Efficient. Environmentally friendly.

With the new MSizer, MOGENSEN pushes insect screening into a new era.

One of the main functions of our MOGENSEN Sizer is to effectively separate the grown larvae from the smaller ones in different decks.

The MSizer models are based on the same Sizer principle developed and proven by Fredrik Mogensen more than five decades ago. They combine state-of-the-art technology with decades of extensive knowledge and expertise.

The result is an even more accurate screening process with increased throughput in a smaller footprint. With only one screen, this powerful machine is able to separate larvae, eggs, dung, and other insects of different sizes.



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MOGENSEN: A HISTORY OF PROGRESS

PRECISION DESIGN.
Innovative Processing.

Fundada en 1966 por los ingenieros franceses Gobil y Champanier, GOSAG SAU marcó el inicio de una era de innovación en tecnologías de separación y clasificación. Desde sus inicios en Avilés (Asturias), donde comenzó fabricando bajo licencia cribas MOGENSEN, grupos de lavado de arenas, repartidores vibratorios y mesas de separación densimétrica, la empresa ha sido sinónimo de calidad y avance tecnológico.

En 2003, la adquisición de GOSAG SAU por Allgaier marcó una nueva fase de expansión y enriquecimiento tecnológico, fortaleciendo nuestra posición en el mercado global

La fusión con JOEST en 2023 y la transición a MOGENSEN Spain no solo simboliza una unión de experiencia local con alcance global, sino que también representa un hito en nuestra evolución, combinando un amplio conocimiento técnico y vanguardia tecnológica.

Nos esforzamos continuamente por superar los estándares del sector, desarrollando tecnologías avanzadas que responden a los desafíos actuales y futuros. Nuestra pasión por la excelencia y nuestro compromiso con la sostenibilidad y el liderazgo en separación y clasificación, ofreciendo soluciones eficaces.



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