Fibre Sifter

Essential for board quality

In the first stage of processing before the forming and press, the fibre sifting plant has a great deal of influence on the safe production of high-grade board qualities.

Flexible process optimisation
The internal safety and quality recognises deviations from the nature of the ejected material from the upstream processes. With early countermeasures, a high level of quality can be maintained and the proportion of A qualities can be increased.

Assurance of the highest board quality
A homogeneous fibre material is an indispensable pre-condition for the production of extremely thin, quality boards (MDF/HDF). The fibre plant ensures this through outstanding separation performance.

Efficiency for the production
Through the reliable separation and discharge of foreign inclusions (such as glue clumps, wood splinters, and metal or rubber particles) the production plant's high performance and reliability are assured. Moreover, it is also very important for the protection of the steel band of the press.

Flexible process optimisation
The fibre sifting plant must safely and quickly recognize differences from the mixture of the ejection material from the upstream process steps. With early countermeasures, a high level of quality can be maintained and the proportion of A qualities can be increased.

Safety and efficiency

Competent and complete

Scheuch offers an extensive programme of products and services for the wood-based panel industry.

Dedusting
A complete programme of exhaust, dedusting and pneumatic conveyor systems is available for all areas of production—from the preparation, production and finishing to the refinement.

Cleaning of dryer exhaust gases
With future-oriented, patented technologies—whether it involves electrostatic or biologic processes in combination with gas scrubbers—Scheuch provides efficient cleaning of dryer exhaust gases.

Cleaning of press exhaust gases
Scheuch systems guarantee efficient collection and cleaning of press exhaust gases (also minimization of the hazard and legally conforming exhaust air) cleaning through a downstream, wet electrostatic precipitator stage.

Flue gas cleaning
For the cleaning of flue gases from boiler plants, Scheuch offers a complete programme with its extensive know-how: Centrifugal separators, dry electrostatic precipitators, condensation plants, bag filters and sorption plants.

Homogeneous cake on the form belt

Example of ejection material

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**Flexible process optimisation**

The utmost safety and quality recognition deviations from the mixture of the ejection material from the upstream processes stop. With early corrective measures a high level of quality can be maintained and the proportion of A qualities can be increased.

**Assurance of the highest board quality**

A homogeneous fibre material is an indispensable precondition for the production of extremely thin, quality boards (MDF/HDF). The plant ensures this through outstanding separation performance.

**Efficiency for the production**

Through the reliable separation and discharge of foreign impurities such as glue clumps, wood splinters, and metal or rubber particles the production plant’s high performance and reliability are assured. Moreover, it is also very important for the protection of the steel band of the press.

**Flexible process optimisation**

The fibre sifter plant is an essential component for the production of high-grade board qualities. It ensures the reliable separation and discharge of foreign impurities, such as glue clumps, wood splinters, and metal or rubber particles, from the ejection material. This improves the quality of the final product and protects the equipment from damage.

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High separation efficiency for the press plant

With a high degree of separation of up to 98% - depending on the character of the foreign objects - the sifter provides the right conditions for a high level of availability of the press plant. In the process, experience has shown that less than 0.1% of the entire fibre volume is discharged. The optimised design in terms of flow behaviour and the smoothly constructed interior surfaces also provide for a safe and stable operation, even during process fluctuations. Not least, the second air level reliably separates foreign elements from the product.

The structural form of the Scheuch sifter and the special guidance, distribution and controlling equipment ensure a homogeneous air and material distribution and thus a highly efficient separation. The patented opening rollers at the sifter entrance also provide for an excellent disaggregation of the material and even distribution over the entire width of the sifter - even at high flow rates. With the after preheating, the fibres are subsequently conditioned and moisture fluctuations are reduced. An excellent separation and thus an outstanding degree of efficiency from the sifter are guaranteed for high-quality materials.

Low energy requirement through recirculated air operation

The patent of the Scheuch fibre sifter includes recirculated air operation and targeted delivery of hot air. This circuit is prerequisite for heating air economically because the volume of outgoing air is kept to a minimum. A variably adjustable operating temperature of up to 80 °C further increases the production output of the press plant. As a positive side effect of this operational method, an approximately 15% lower pressure loss is achieved as compared to sifters without preheating. This brings about significant savings with the power consumption of the conveying fans. With the after preheating, the fibres are also subsequently conditioned, whereby moisture fluctuations are reduced.

Adjustments to the throughput rate can be easily carried out by the operating personnel at the control stand via a bypass. On the basis of our practical experience, the guidance, distribution and controlling equipment are set up so that a safe initial operation is ensured from the start. For operation at full capacity, the adjustments are also carried out as needed by our trained commissioning personnel.

Flexible adaptation to production conditions

Depending on requirements, the sifter plant can be adapted to the widest range of operating conditions by adjusting the air distribution and the air speed. In the process, a higher level of quality can be achieved and maintained. With the large control window, the results of corrective measures in the operational method can be visually inspected. The second sifter level reliably separates foreign elements from the product.

Effective output of up to 40 tons per hour

ATEX conformity, designed according to EN 14491

Conveying and separation of the sifted fibre material is carried out in the sifter plant.

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High separation efficiency for the press plant

With a high degree of separation of up to 99% - depending on the character of the foreign objects - the sifter provides the right conditions for a high level of availability of the press plant. In the process, experience has shown that less than 0.1% of the entire fibre volume is discharged.

The optimised design in terms of flow behaviour and the smoothly constructed interior surfaces also provide for a safe and stable operation, even during process fluctuations. Notably, the second sifter level reliably separates foreign elements from the product.

Converting and separation of the wet fibre material for the forming line plant

- Patented opening rollers guarantee even fibre distribution and aeration across the entire width of the sifter - even at high flow rates. With the sifter preheating, the fibres are subsequently conditioned and moisture fluctuations are reduced. An excellent separation and thus an outstanding degree of efficiency from the other are guaranteed for high-quality materials.

High level of availability

Depending on requirements, the sifter plant can be adapted to the widest range of operating conditions by adjusting the air distribution and the air speed. In the process, a higher level of quality can be achieved and maintained. With the large control window, the results of corrective measures in the operational method can be visually inspected.

Adjustments to the throughput rate can be easily carried out by the operating personnel at the control stand via a bypass.

On the basis of our practical experience, the guidance, distribution and controlling equipment are set up so that a safe initial operation is ensured from the start. For operation at full capacity, the adjustments are also carried out as needed by our trained commissioning personnel.

Low energy requirement through recirculated air operation

- The patent of the Scheuch fibre sifter includes recirculated air operation and targeted delivery of hot air. This circuit is prerequisite for heating air economically because the volume of outgoing air is kept to a minimum. A variably adjustable operating temperature of up to 80 °C further increases the production output of the press plant.

As a side effect of this operational method, an approximately 15% lower pressure loss is achieved as compared to sifter without preheating. This brings about significant savings with the power consumption of the conveying fans.

With the sifter preheating, the fibres are subsequently conditioned, whereby moisture fluctuations are reduced. The fibres infeed via cyclone, rotary valve, separating filter for incorrect filling and partitioning clips in the sifter

- Screws and rotary valves carry out the extraction of impurities and large particles. The second sifter level ensures that the degree of separation is reliably maintained.

Flexible adaptation to production conditions

Effective output of up to 40 tons per hour

- ATEX conformity, designed according to EN 14491

The structural form of the Scheuch sifter and the special guidance, distribution and controlling equipment ensure a homogeneous air and material distribution and thus a highly efficient separation. The patented opening rollers at the sifter entrance also provide for an excellent disaggregation of the material and even distribution over the entire width of the sifter - even at high flow rates. With the other preheating, the fibres are subsequently conditioned and moisture fluctuations are reduced. An excellent separation and thus an outstanding degree of efficiency from the other are guaranteed for high-quality materials.
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The high separation efficiency of the Scheuch fibre sifter ensures a high level of availability for the press plant. The optimised design in terms of flow behaviour and the smoothly constructed interior surfaces also provide for a safe and stable operation, even during process fluctuations. Not lastly, the second sifter level reliably separates foreign elements from the product.

Flexible adaptation to production conditions

Depending on requirements, the sifter plant can be adapted to the widest range of operating conditions by adjusting the air distribution and the air speed. In the process, a higher level of quality can be achieved and maintained. The large control window, the results of corrective measures in the operational method can be visually inspected. Adjustments to the throughput rate can be easily carried out by the operating personnel at the control stand via a bypass. On the basis of our practical experience, the guidance, distribution and controlling equipment are set up so that a safe initial operation is ensured from the start. For operation at full capacity, the adjustments are also carried out as needed by our trained commissioning personnel.

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High level of availability

Fibre infeed via cyclone, rotary valve, separating filter for incorrect filling and partitioning clips in the sifter

Conveying and separation of the sifted fibre material via cyclone for the forming line plant

The patent of the fibre sifter also includes a patented opening rollers. These rollers ensure even fibre distribution and aeration across the entire width of the sifter. The structural form of the Scheuch sifter and the special guidance, distribution and controlling equipment ensure a homogenous air and material distribution and thus a highly efficient separation. The patented opening rollers at the sifter entrance also provide for an excellent disaggregation of the material and even distribution over the entire width of the sifter – even at high flow rates. With the sifter preheating, the fibres are subsequently conditioned and moisture fluctuations are reduced. An excellent separation and thus an outstanding degree of efficiency from the other are guaranteed for high-quality materials.

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