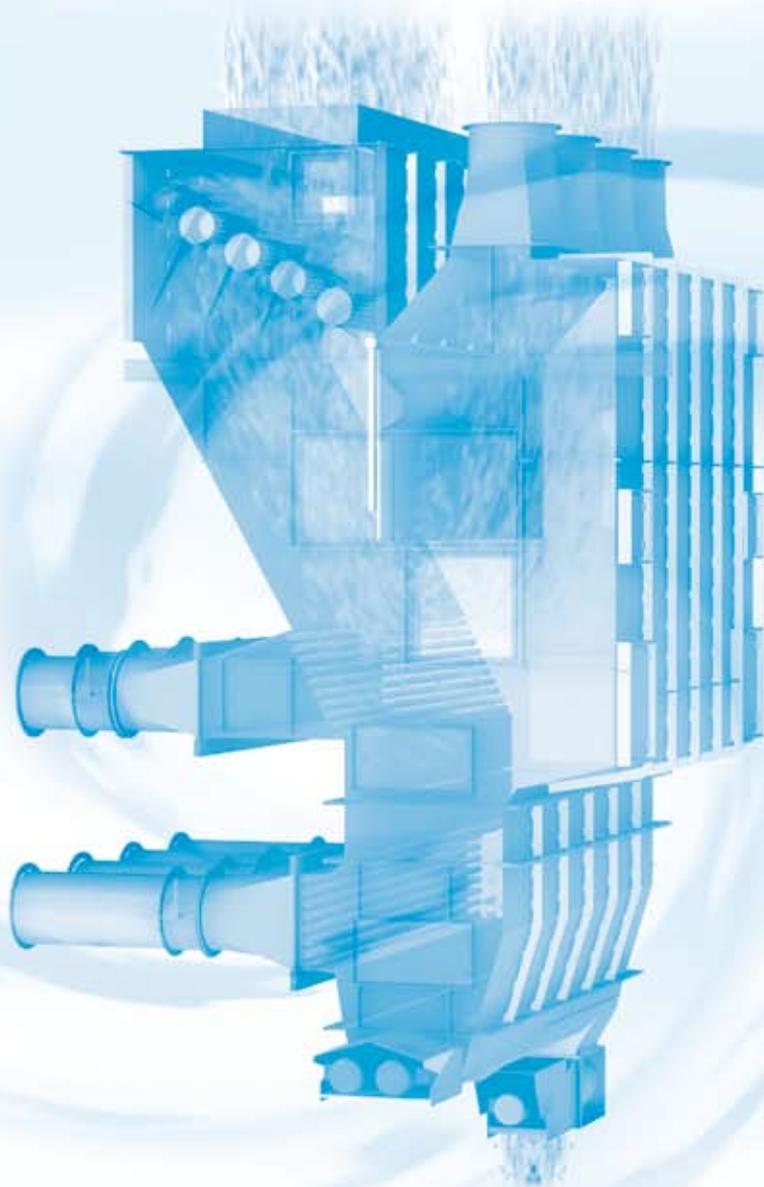


FIBRE SIFTER



ESSENTIAL
FOR BOARD QUALITY

scheuch
TECHNOLOGY FOR CLEAN AIR

SAFETY AND EFFICIENCY

In the final 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 sifter must safely and quickly recognise deviations from the mixture of the ejection material from the upstream process steps. With early counteractive 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 sifter 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.



Optimal fibre



Example of ejection material



Homogeneous cake on the form belt

CONSISTENTLY HIGH QUALITY OF BOARDS

As a solutions provider, we have extensive knowledge of the entire manufacturing process within the production of derived timber products as well as clean air technology.

We have been building fibre sifters since the mid-1990s. Over 100 of these plants are currently in operation to the full satisfaction of our customers across the globe.

All plant components originate from our own development and production. They are optimally designed for this application and have been ideally coordinated. For example, Scheuch conveying fans, with their specially designed impellers, offer a very high degree of efficiency with a long operating life.



High separation efficiency

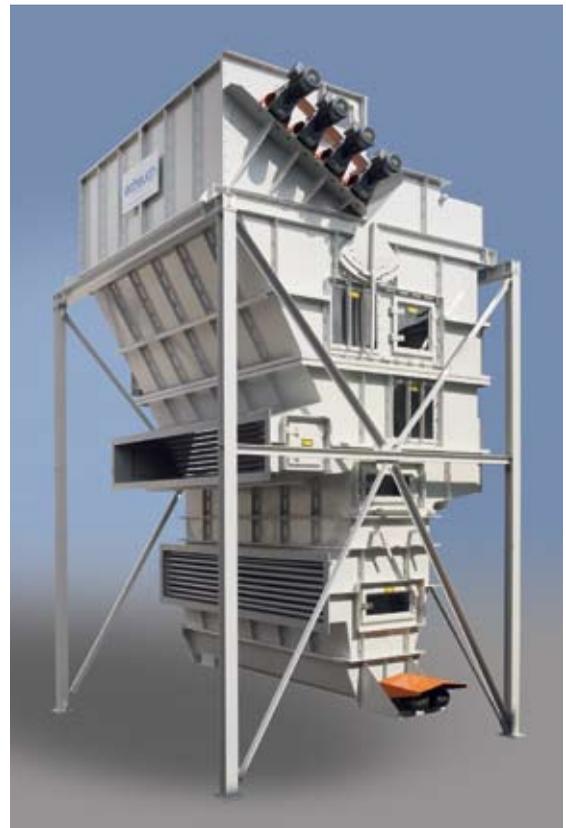
The structural form of the Scheuch sifter and the special guidance, distribution and controlling equipment ensure a homogeneous air and material distribution and thus a highly efficient separation. The patented opening rollers at the sifter entrance also provide for an excellent disaggregation of the material and even distribution over

the entire width of the sifter - even at high flow rates. With the sifter 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.

High level of availability 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. Not lastly, the second sifter level reliably separates foreign elements from the product.

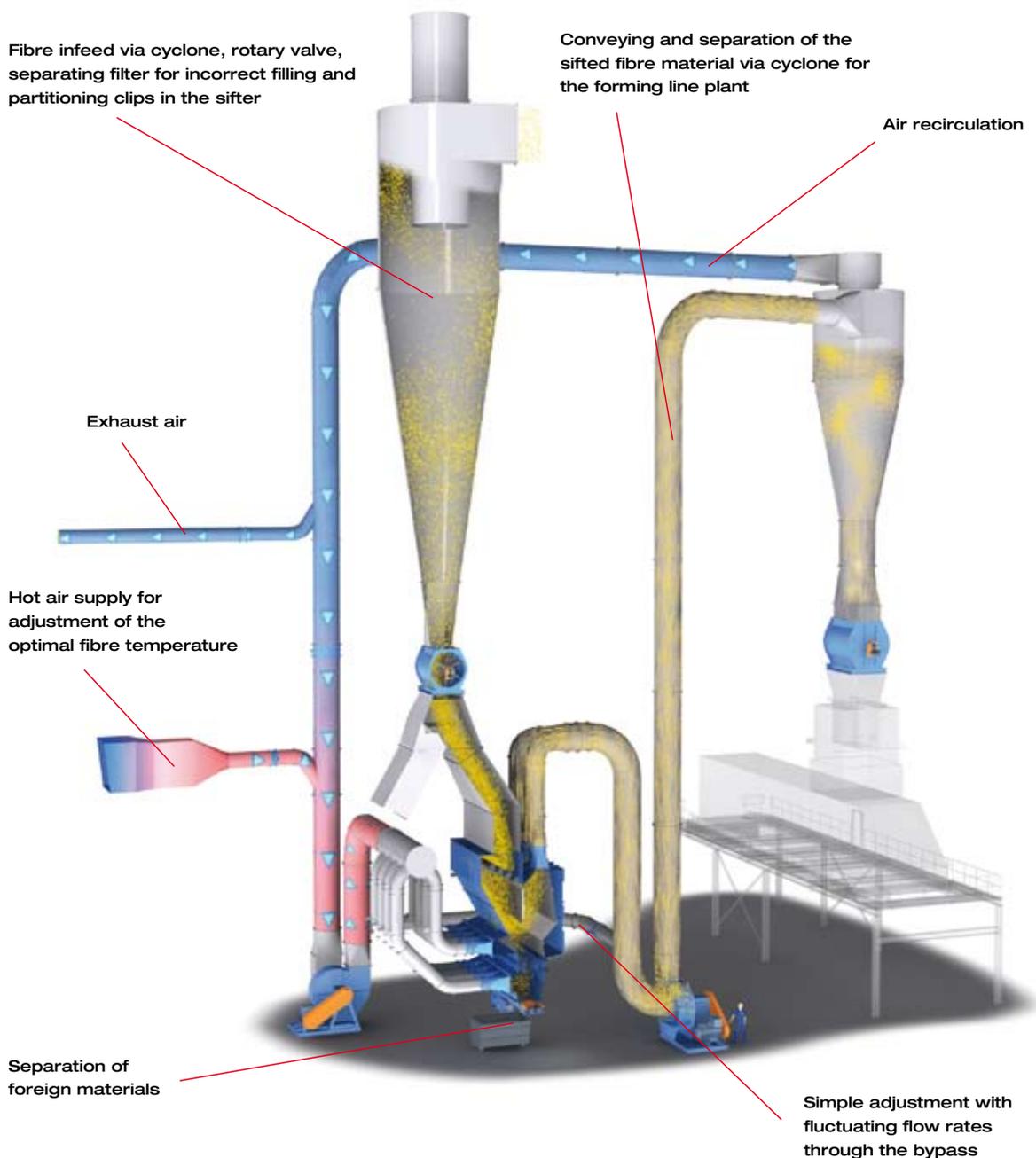


LOW ENERGY REQUIREMENT THROUGH RECIRCULATED AIR OPERATION

The patent of the Scheuch fibre sifter includes re-circulated 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 sifter preheating, the fibres are also subsequently conditioned, whereby moisture fluctuations are reduced.



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.

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, fine adjustments are also carried out as needed by our trained commissioning personnel.

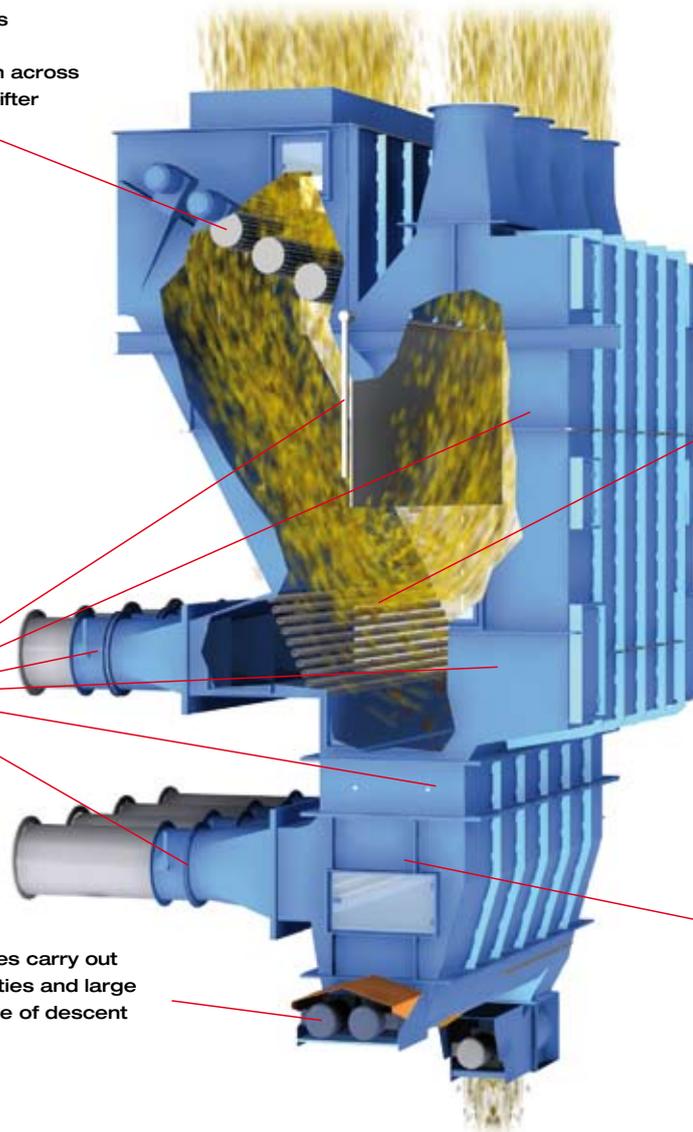
Patented opening rollers guarantee even fibre distribution and aeration across the entire width of the sifter

The first sifter level creates an air curtain and feeds the fine fibre material upwards

Flaps and guide plates that are controllable from outside allow for easy fine-tuning

The second sifter level ensures that the degree of separation is reliably maintained

Screws and rotary valves carry out the extraction of impurities and large particles with a high rate of descent



Effective output of up to 40 tons per hour
ATEX conformity, designed according to EN 14491

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 biological 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 pre-cleaning of press exhaust gases (also minimisation of fire 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.

