The know-how acquired with hundreds of plants is found in every SEGAS-Plus (Scheuch Effektives Gruppenabsaug System - Scheuch effective group-ed extraction system) extraction plant used in the construction related and solid wood industries – for constant capacity production/manufacturing processes. The stands for high availability, despite extreme demands arising with multi-shift operations; enormous amounts of dust and shavings; high processing velocity and trouble-free continuous operation. Recognised market leaders have been working with Scheuch for decades and achieving maximum productivity.

**Know-how and competence**

**Highest effectiveness and efficiency**

As a sales and service partner for GreCon spark extinguisher systems, Scheuch can provide optimum planning, installation and maintenance of the extraction plant – everything from a single source. Noise control experts and experts in fire and explosion protection support the design process to ensure that plants are properly individualised and designed. Tailored noise control measures ensure that the rules and regulations governing operations at night or neighbourhood protection are fulfilled.

A comprehensive and perfected safety concept for work safety and fire and explosion protection as well as plant safety (ATEX certificate, H3 and GS markings, practical inspections with reports and certification) provides the operator with legal security.

**Highest availability**

The high degree of availability is based above all on the rugged design of the components as well as on the professional wear protection provided for airlocks, fans and filter plants. Since Scheuch manufactures all of the components, the highest possible quality is ensured with the best possible value for money. The resulting plant durability reduces the life cycle costs.

Proven control systems, programming provided by us and easy touch panel operation with visualisation or remote control provide high functional reliability and plant availability.

**The extraction system for maximum productivity**

The extraction system for maximum productivity.
The decisive system advantages

Automatic plant control with proven components from recognised manufacturers. Visualization and easy operation using a Scheuch colour touch panel and remote maintenance.

LIGNO filter control box Easy local operation includes all filter sensor inputs and outputs and the logic modules used for filter cleaning.

Efficient special fans direct or belt driven, solid high-performance impellers able to operate at up to 85% efficiency. Durability because of various wear protection designs for both the housing and the impeller.

Patented IMPULS cleaning Effective and efficient cleaning, independent of differential pressure and pressure fluctuations. Negligible compressed air costs due to the patented Scheuch injector.

TOP-DOWN pre-separation Long filter bag service life due to the effective material pre-separation.

Continuous discharge system for even and constant material discharge over a generously sized screw.

Reliable material charging Rotary valves developed and manufactured by us with various rotor designs, “rubber – carbide – blade”. ATEX tested as independent protective systems.

Reliable residual dust monitoring system No additional and recurring inspection costs due to the H3 test mark which guarantees a residual dust content of 0.1 mg/Nm³.

Fire and explosion protection Maximum safety with a minimum of limitations. A practical solution for fire and explosion protection.

Integrated spark extinguisher system GreCon spark extinguisher systems have proven themselves in practice for over 20 years in Scheuch extraction plants. No interface problems, optimised for the application – everything from a single source.

Pneumatic material transport An economic and reliable way to work, more than 100 t/h and conveying paths up to 1,500 m, low or high pressure conveyor systems depending on the quantity of material and the distance.

Wear protection increases service life Depending on the material demands, the use of thick-walled round pipe bends or bends with replaceable wear back plates. Radii up to 10 times the pipe diameter for lower pipework resistance and high operating reliability.

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- LIGNO filter control box: Easy local operation includes all filter sensor inputs and outputs and the logic modules used for filter cleaning.
- Efficient special fans: Direct or belt driven, solid high performance impellers able to operate at up to 85% efficiency.
- Durability because of various wear protection designs for both the housing and the impeller.
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- Reliable material charging: Rotary valves developed and manufactured by us with various rotor designs, “rubber – carbide – blade” ATEX tested as independent protective systems.
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- Pneumatic material transport: An economic and reliable way to work, more than 100 t/h and conveying paths up to 1,500 m, low or high pressure conveyor systems depending on the quantity of material and the distance.
- Wear protection increases the service life: Depending on the material demands, the use of thick-walled round pipe bends or bends with replaceable wear back plates. Radii up to 10 times the pipe diameter for lower pipework resistance and high operating reliability.

High effectiveness due to components proven in practice

- Efficient special fans: H / K impeller
- Automatic plant control
- LIGNO filter control box
- Continuous discharge system
- Reliable material charging
- Low draught air recirculation
- Fire and explosion protection
- Integrated spark extinguisher system
- Pneumatic material transport
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Continuous discharge system

For even and constant material discharge over a generously sized screw.

Reliable material charging

Rotary valves developed and manufactured by us with various rotor designs, “rubber – carbide – blade”. ATEX tested as independent protective systems.

Low draught air recirculation

Flow optimized, low draught air exchange in the coldest months. The return air proportion is regulated by the outside temperature.

Reliable residual dust monitoring system

No additional and recurring inspection costs due to the H3 test mark which guarantees a residual dust content of 0.1 mg/Nm³.

Fire and explosion protection

Maximum safety with a minimum of limitations. A practical solution for fire and explosion protection.

Integrated spark extinguisher system

German spark extinguisher systems have proven themselves in practice for over 20 years in Scheuch extraction plants. No interface problems, optimised for the application – everything from a single source.

Pneumatic material transport

An economic and reliable way to work, more than 100 t/h and conveying paths up to 1500 m, low or high pressure conveyor systems depending on the quantity of material and the distance.

Wear protection increases service life

Depending on the material demands, the use of thick-walled round pipe bends or bends with replaceable wear back plates. Radii up to 10 times the pipe diameter for lower pipework resistance and high operating reliability.

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The know-how acquired with hundreds of plants is found in every SEGAS-Plus (Scheuch Effective Grouped Absaug System - Scheuch effective grouped extraction system) extraction plant used in the construction related and solid wood industries for constant capacity production/manufacturing processes. This stands for high availability despite extreme demands arising with multiple shift operations, enormous amounts of dust and shavings, high-processing velocity and trouble-free continuous operation. Recognized market leaders have been working with Scheuch for decades and achieving maximum productivity.

**Highest effectiveness and efficiency**

Highest effectiveness when operating continuously assumes uncompromising planning when selecting the means, that is a specific and professional design of the individual extraction groups being into account factors such as distances, vacuum and/or material peaks in the individual machines as well as a specific and proven design of the individual components.

The prerequisite for highest efficiency is, among other things, the selection of the right fans capable operating at 85 percent efficiency with high motor output. Moving materials from the separator to the silo/container, HD systems have proven themselves in the long distance pneumatic transport of large quantities of material.

As a sales and service partner for GreCon spark extinguisher systems, Scheuch can provide optimum planning, installation and maintenance of the extraction plant – everything from a single source. Noise control experts and experts in fire and explosion protection support the design process to ensure that plants are properly individualized and designed. Tailored noise control measures ensure that the rules and regulations governing operations at night or neighborhood protection are fulfilled. A comprehensive and perfected safety concept for work safety and fire and explosion protection as well as plant safety (ATEX certificate, H3 and GS markings, practical inspections with reports and certification) provides the operator with legal security.

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The extraction system for maximum productivity