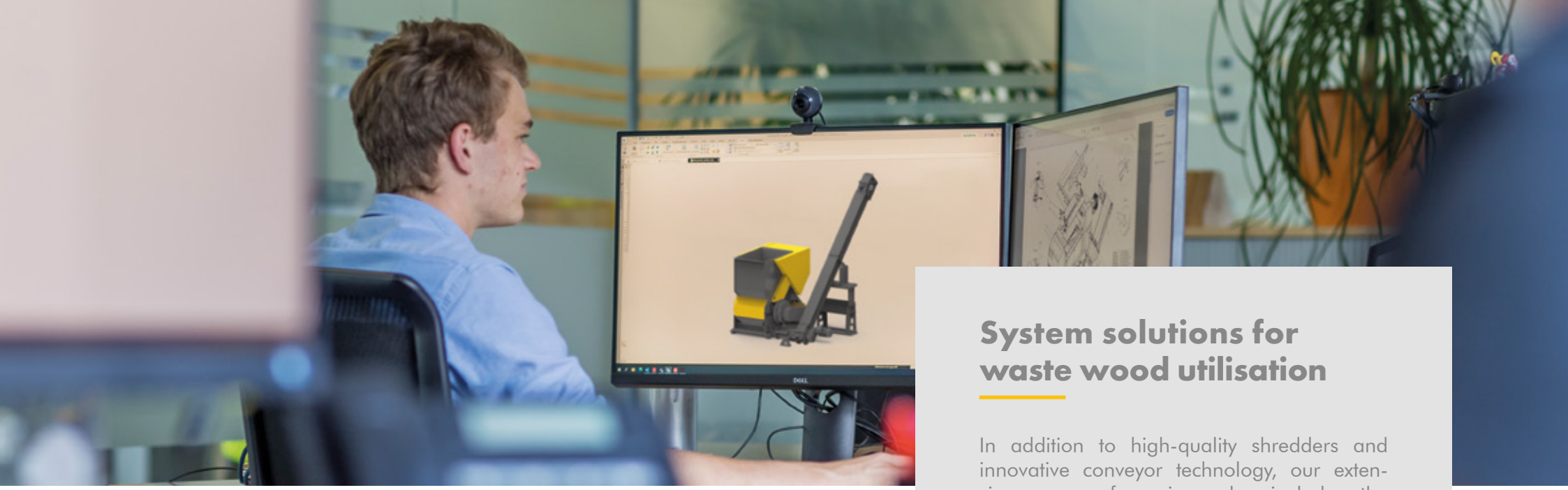

UNTHA
shredding technology
Reliable system solutions for waste wood processing


LR1400


LAGERHAUS
• Baustoffe
• Markt
Landwirtschaft
Energie


LR1000



Your advantages at a glance

- **Customised complete solution**: We will find the right system solution for you - customised to your requirements.
- **Everything from a single source**: Shredders, conveyor technology, planning, project planning, electrical connection and commissioning.
- **Always there for you**: A contact person accompanies you throughout the entire duration of the project and beyond.
- **CE labelling**: Our system solutions have clearly defined interface transfers in accordance with the EU standard.

System solutions for waste wood utilisation

In addition to high-quality shredders and innovative conveyor technology, our extensive range of services also includes the planning of system solutions for the efficient shredding and disposal of waste wood. Our team takes care of the design and seamless integration of all components.

As an experienced partner, we plan customised complete solutions that are precisely tailored to the operational requirements of our customers. Having implemented numerous projects in trade businesses and the timber industry, we have extensive expertise.

We support our customers in every project phase - from the initial consultation and detailed planning through to technical implementation, installation and commissioning.

Our aim is to implement long-term and effective solutions that create tangible added value.

Flexible modular system

Our innovative modular system enables us to offer customised conveyor systems for different woodworking and wood processing companies. There is a wide range of conveyor technology and metal separators to choose from. These components can be combined with each other as required, depending on the requirements profile. This enables us to realise the best complete solution for all our customers.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Conveyor technology

Conveyor technology is required to transport wood chips from the shredder to containers and storage rooms. UNTHA shredders can be equipped with discharge and screw conveyors as well as conveyor belts and integrated into extraction systems. There are different options depending on the requirements on site. Our experts will work with you to find the right solution.

UNTHA's conveyor technology can also be designed to be ATEX-compliant in order to fulfil the highest safety standards.

Axis-free, flexible spiral conveyors

The use of flexible, shaftless spiral conveyor systems is very diverse. The high mobility of the flexible spiral allows the cost-effective realisation of individual conveyor sections and heights. The wood chips are transported in a particularly gentle manner and dust emissions are avoided.

Advantages

» Horizontal, inclined or vertical conveying path possible (0° to 90°)
» Suitable for small space requirements
» High flexibility and customised conveyor section
» Low maintenance requirements
» High availability
» Very good price-performance ratio

Rigid augers with shafts

Rigid augers with shafts transport wood-chippings particularly gently and are also ideally suited for high feed rates and a long duty cycle due to their low wear.

UNTHA rigid augers with shafts are characterised by very smooth running and wear resistance. The fill level monitoring system guarantees automatic shutdown of the system before the wood chip store is overfilled and issues a message to the operator.

Depending on requirements, the screw conveyors can be designed as vertical, ascending or distribution screws. Depending on the application, we offer customised solutions with different lengths and pitches.

Advantages

» Discharge height and length can be customised
» High stability
» Wear-resistant
» No dust emissions
» High conveying capacity
» Conveying path horizontal, inclined or vertical possible (0° to 90°)

Conveyor belts

The advantages of UNTHA conveyor belts lie in their high conveying capacity and the gentle transport of the material over long distances. They can be arranged horizontally or upwards as required and can be easily integrated into existing plant systems. To ensure efficient metal separation, conveyor belts can also be equipped with a metal separator on the deflection roller.

Advantages

» Horizontal or inclined conveying path
» High conveying capacity
» Low maintenance and operating costs
» Discharge height and length can be customised

Discharge screw conveyor with trough chain conveyor

The discharge screw combined with the trough chain conveyor is a space-saving and effective solution for transporting wood chips. The material is transported reliably in the closed system. The screw and chain conveyor are driven by a common drive motor. Depending on the design, the trough chain conveyor can transport the material horizontally or upwards. The robust design and the closed conveyor system make this solution ideal for the dust-free transport of wood chips.

Advantages

» Energy-saving with just one drive motor
» Long service life and low maintenance costs
» Minimisation of material losses and contamination
» Customised adjustment of the conveying height and distance
» Flexible speed regulation
» Simple assembly without base frame

Metal separator

Processing waste wood containing screws and nails is no problem for UNTHA shredders. However, metal residues in the wood chips can lead to damage and increased wear in downstream systems. Various types of metal separators are available to separate the metallic impurities from the wood chips, which can be integrated into the conveyor technology if required.

Metal separator integrated into the conveyor belt

Conveyor belts with a magnetic separator on the deflection roller are suitable for ensuring efficient metal separation. The magnet pulls metal particles out of the wood chips and throws them into a separate container. Only pure wood chips are transported further on the conveyor belt.

Advantages

» Conveyor technology and metal separation in one solution
» Minimisation of malfunctions and wear for downstream machines
» Homogeneous wood chips, free of metal parts

Pipe magnet

Pipe magnets are primarily used when the shredded waste wood is transported via an extraction system. They can be easily integrated into the pipework system and prevent metal parts from entering the chip silo. Depending on the application, we offer pipe magnets in two different sizes.

Advantages

» Simple integration into the extraction system
» No operating costs
» Simple maintenance
» Customised positioning of the maintenance door

Drum magnet

The drum magnet, also known as a magnetic drum, is an efficient device for separating metal from wood chips. The magnetic drum consists of a rotating cylinder equipped with strong permanent magnets to remove ferrous metals from the material stream. The use of a drum magnet after the residual wood shredder enables effective metal separation, which improves the quality of the end product and protects downstream equipment from damage caused by metallic contamination.

Advantages

» High efficiency
» Low energy consumption
» Robust design for long-lasting use
» Minimisation of damage caused by metallic contamination

Chipper

The wood chip centrifuge is a good solution for evenly distributing large quantities of wood chips in a bunker or silo. The central element is the centrifugal disc, which distributes the wood chips over a large area at high speed and thus enables efficient use of the storage space. The wood chip centrifuge can be combined with all UNTHA conveyor systems.

Advantages

» Optimum filling of storage rooms
» Efficient distribution of wood chips
» Can be combined with all conveyor systems

Screw conveyor for filling containers

We offer screw conveyors with multiple discharge points for even container filling. Manual distribution of the wood chips is no longer necessary and the container volume is optimally utilised. The screw conveyor can be combined with a metal separator so that only pure wood chips enter the container.

Advantages

» Automatic container filling
» Optimum wood chip distribution
» Gentle material transport
» Low dust and noise emissions

Hydraulic tilting table

Shredders are usually loaded using tipping containers or wheel loaders. However, if long plate packs or pallets are to be loaded, a hydraulic tilting table is the right solution. This enables long, bulky sheet material to be fed horizontally by a forklift truck. Once the material has been placed on the tilting table, it is automatically fed into the cutting unit and then shredded.

Advantages

» Quick feeding of long pieces of waste wood and pallets
» Safe work process
» No additional ‘cutting to length’ of the residual wood necessary

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5 reasons to choose UNTHA

Customised, long-lasting shredding solutions

Premium products developed and manufactured in Austria

All-encompassing expertise, from development to production, under one roof

Reliable customer service with the best technical know-how

More than 10,000 satisfied reference customers worldwide

We deliver what we promise

Since our founding in 1970, we've followed our promise of being "the reliable brand", which applies to every product and service that UNTHA delivers.

We work hard to consistently outperform our competitors, and provide customers with the confidence that – in choosing UNTHA – they have made the best decision for their business.