



UNTHA

UNTHA SYSTEM SOLUTIONS

Flexible, single-stage processing lines
for waste and material recycling

UNTHA System Solution

One system—many material flows

Our system solutions were developed for waste management companies and recyclers that process regularly changing material streams and must meet increasing quality requirements. They are designed for companies with flexible processing operations that use screening, sorting, and conveying technology in addition to a shredder. UNTHA system solutions are the ideal answer to all these requirements.

UNTHA's modular system solutions combine high flexibility with maximum process reliability, thereby enabling predictable, efficient operational workflows. Unlike manufacturer-specific complete systems, our system solutions are based on the proven XR-class

shredders as the central core and are expanded with conveyor technology and sorting systems from suitable suppliers. All components are individually tailored by our team to the specific application and customer requirements. This results in a single-stage processing line that can be flexibly adapted to different applications and material streams, delivers consistent output quality, and ensures cost-effective operation.

With a UNTHA system solution, materials such as waste wood, cables, composite materials, or mixed waste can be processed in a single line. Using appropriate separation and sorting technology, different

particle sizes are separated, and various material streams are reliably separated from one another. This results in multiple homogeneous, single-fraction streams produced in a single line, which can be specifically fed into different recycling processes.

Possible components of a system solution:

- » Shredder
- » Discharge and conveyor belts
- » Separation technology
- » Screening and sorting technology
- » Water spraying and fire protection systems



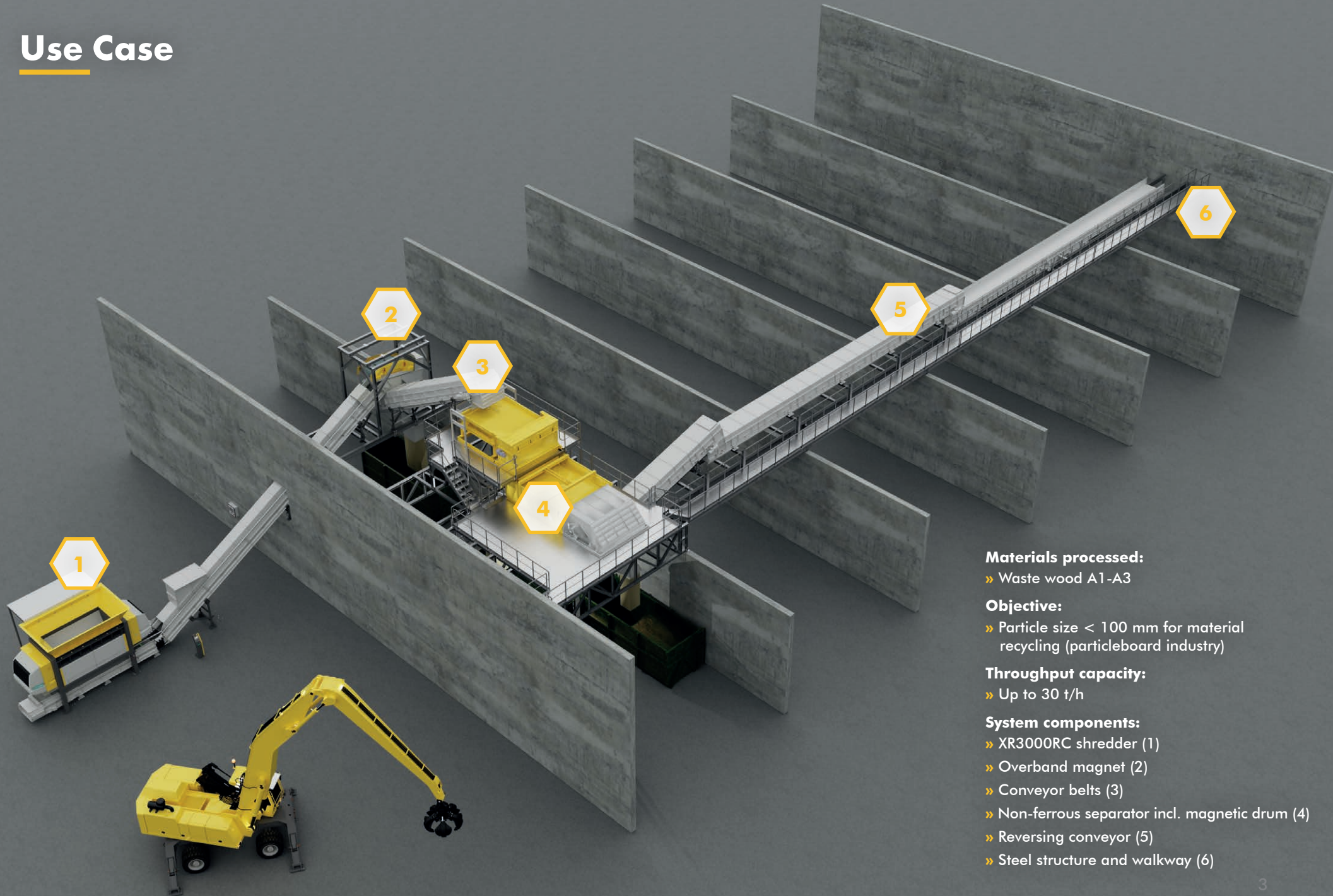
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A customized system solution includes not only the shredder but also the entire conveying system, separation technology, fire protection system, technical containers, and safety-related design. As a turnkey provider, we ensure that all legal requirements and guidelines for CE marking are met, both for the individual components and for the entire system solution.

– Markus Fraubaum, Customer Solution Engineer

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Use Case



Materials processed:

- » Waste wood A1-A3

Objective:

- » Particle size < 100 mm for material recycling (particleboard industry)

Throughput capacity:

- » Up to 30 t/h

System components:

- » XR3000RC shredder (1)
- » Overband magnet (2)
- » Conveyor belts (3)
- » Non-ferrous separator incl. magnetic drum (4)
- » Reversing conveyor (5)
- » Steel structure and walkway (6)

Your Benefits



ONE-STOP SHOP

A single point of contact for electrical systems, control systems, steel construction, conveyor technology, installation, and service.



MAXIMUM FLEXIBILITY

Quick screen changes for custom particle sizes, high throughput, low maintenance requirements, and the processing of a wide variety of materials.



ONE SOLUTION INSTEAD OF MULTIPLE LINES

Significantly lower investment, maintenance, and operating costs, as well as reduced labor costs.



SYSTEM-OPTIMIZED

Electrically powered shredders, available in stationary or semi-mobile versions, ensure low dust and noise emissions and facilitate regulatory approvals.



HIGH PRODUCTIVITY

Up to 40 t/h throughput with homogeneous particle size and pure fractions.



CE LABELING

Simplified compliance with relevant standards and certification processes.

Our Services

ENGINEERING & DESIGN

- » Design and process planning
- » Sizing of all components

MANUFACTURING & DELIVERY

- » Shredders and conveying systems
- » Sorting and separation technology
- » Steel structures

INSTALLATION & COMMISSIONING

- » Mechanical and electrical installation
- » Cold and hot commissioning
- » System acceptance and documentation
- » Training of operating personnel

HANDBOOK & COMMISSIONING

- » Handover of the ready-to-operate system solution
- » Support during production startup

PERFORMANCE MANAGEMENT

- » Operational optimization
- » Services including spare parts supply

Take advantage of our free engineering consultation:
We analyze your material flows and develop an initial concept for a customized system solution including a thorough economic feasibility analysis – tailored specifically to your application.



Success Story

UP Energiewerke GmbH | Germany | XR2000RC | Waste wood A1-A2

Throughput capacity:
up to 10 t/h

Particle size:
as per P63

System components:
XR2000RC shredder, including:
Water spray system
Permanent overhead magnet
Conveyor belts
Reversible belt
Steel structure and walkway





Reference video



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UNTHA handled the planning of this turnkey complete solution for us. All components were perfectly tailored to our requirements and optimally coordinated with one another. The collaboration was very positive and characterized by flexibility and professionalism.

– Stefan Hoppe, Head of District Heating and Plant Manager at the Industriestraße Heating Plant

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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.

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