



UNTHA

UNTHA SYSTEM SOLUTIONS

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

UNTHA System Solution

One system—many material streams

Our system solutions are designed for waste management companies and recyclers that handle constantly changing material streams and need to meet increasingly stringent quality requirements. They are built for operations with flexible processing workflows that use screening, sorting, and conveying technology alongside a shredder. UNTHA system solutions provide the ideal response to these challenges.

UNTHA's modular system solutions combine high flexibility with maximum process reliability, enabling predictable and efficient operational workflows. Unlike manufacturer-specific turnkey systems, our solutions use proven XR-class shredders as the central core

and are expanded with conveyor and sorting technology from suitable suppliers. Every component is individually tailored by our team to meet the specific application and customer requirements. The result is a single-stage processing line that can be 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 material streams

are reliably divided. This produces multiple homogeneous, single-fraction streams in a single line, which can be directly fed into different recycling processes.

Possible components of a system solution:

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



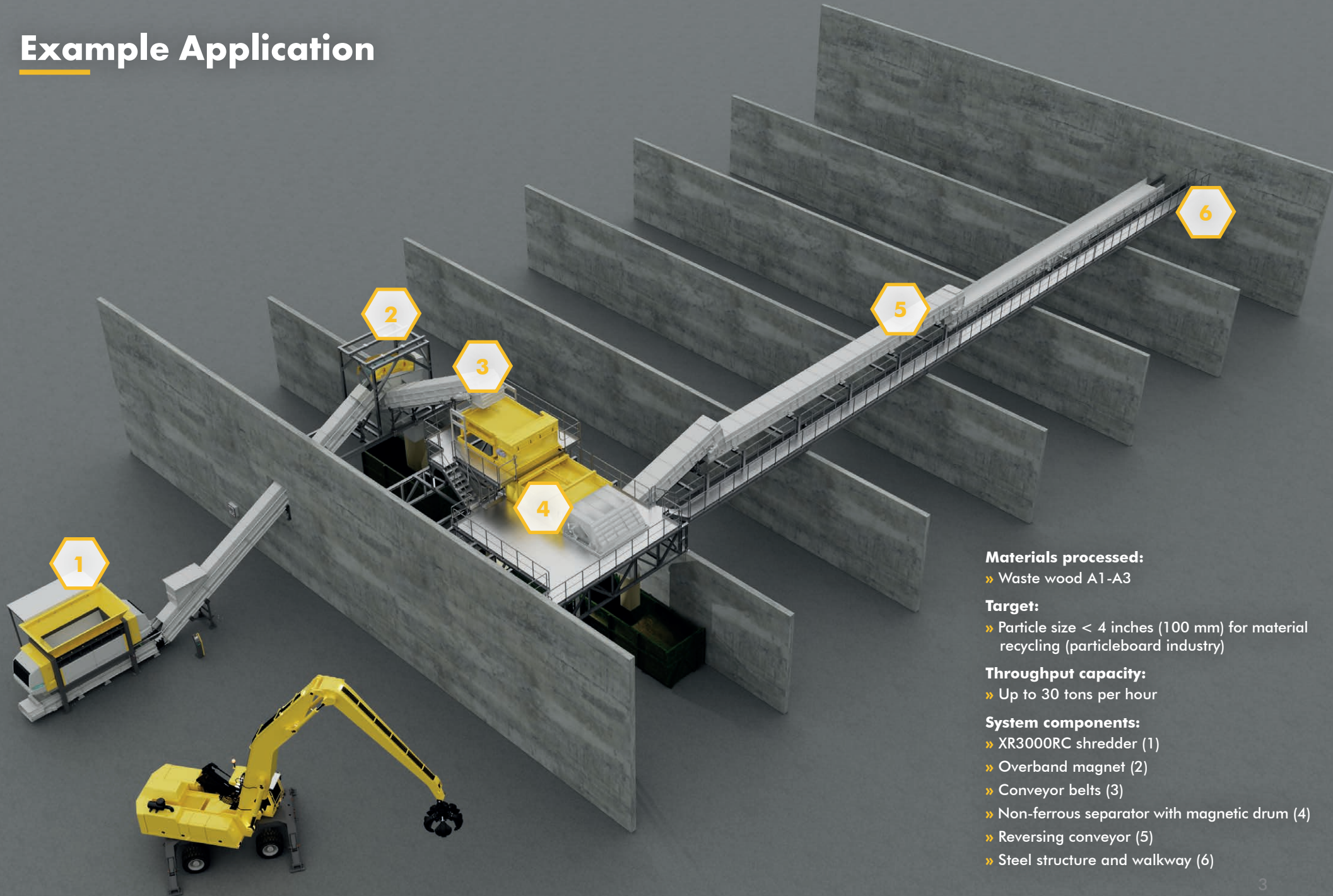
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A customized system solution includes not only the shredder but also the entire conveying system, separation technology, fire protection system, technical containers, and safety-related design. As a turnkey provider, we ensure that all legal requirements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

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— Markus Fraubaum, Customer Solution Engineer

Example Application



Materials processed:

- » Waste wood A1-A3

Target:

- » Particle size < 4 inches (100 mm) for material recycling (particleboard industry)

Throughput capacity:

- » Up to 30 tons per hour

System components:

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

Your Benefits



ALL-IN-ONE SOLUTION

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



MAXIMUM FLEXIBILITY

Fast screen changes for customized particle sizes, high throughput, low maintenance, and the ability to process a wide variety of materials.



ONE SOLUTION INSTEAD OF MULTIPLE LINES

Significantly lower investment, maintenance, and operating costs, along with reduced labor expenses.



SYSTEM-OPTIMIZED

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



HIGH PRODUCTIVITY

Up to 40 tons per hour throughput with uniform particle size and clean fractions.



CE LABELING

Simplified compliance with applicable standards and certification requirements.

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

HANDOVER & STARTUP SUPPORT

- » Delivery and handover of the fully operational 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 tons per hour

Particle size:
according to P63

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





Reference video



“

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