

ÖBB SHREDS STEEL TURNINGS WITH UNTHA S25

ÖBB-Technische Services GmbH

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We were looking for a compact and robust shredder to crush steel turnings that could be integrated into our existing plant control system. The UNTHA S25 met all these requirements.

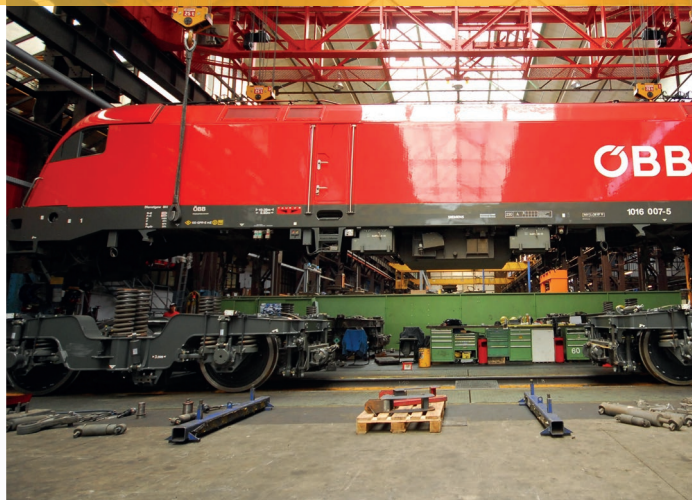
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» MATERIAL
Steel turnings

» SHREDDER
S25

» THROUGHPUT
220–440 lb/h





CUSTOMER

ÖBB-Technische Services GmbH is responsible for the management of rail vehicles throughout Europe: maintenance, modernization, assembling, engineering, new construction and refurbishment of vehicle components as well as the development of testing and diagnostic equipment.

APPLICATION

During the maintenance and servicing of rail vehicles and their components, the ÖBB-Technische Services GmbH in Linz/Austria generates around 25 tons of steel turnings every year – for example, during the manufacturing of locomotive wheel sets. The company was looking for a suitable shredder to reduce the volume of these steel turnings and to be able to transport them in a space-saving manner and recycle them in a meaningful way.

SHREDDING SOLUTION

The S25 is UNTHA's smallest shredder – a compact 2-shaft shredder for reducing the volume of materials such as metal, plastic,

biological waste, paper and cardboard. ÖBB-Technische Services GmbH uses this shredder to process steel turnings measuring up to $19.7 \times 1.2 \times 0.04$ inches, which comes from a lathe. The material is fed into the shredder's cutting chamber via a discharge chute. The material is automatically drawn in by the cutting unit, which means that the shredder does not require a feeding system. The cutting principle of the UNTHA rotor shear ensures that the material is shredded efficiently. The S25 is driven by a direct drive electric motor. If unshreddable objects enter the cutting chamber, the motor is automatically stopped to prevent damage. Thanks to the slow-speed drive, the shredder is particularly energy-efficient and produces little dust and low noise emissions. The volume of the original material is reduced by up to 90%, which means it can be stored and transported in a space-saving manner. The UNTHA S25 was integrated into the existing control system to integrate operation with the lathe and discharge conveyor.

REQUIREMENTS

- » Compact design
- » Robust cutting mechanism
- » Throughput: up to 440 lb/h
- » Integration into the plant control system

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The S25 from UNTHA is a space-saving, high-performance shredder that automatically shreds steel turnings as they arise.

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– Benno Wakolbinger
Plant Management at ÖBB-
Technische Services GmbH