

CUSTOMER
**FCC Austria Abfall
Service AG**

MATERIAL
**Commercial, bulky, and
household waste**

SHREDDER
ZR2400H

THROUGHPUT
50 t/h

ZR2400H

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„Our shredders operate continuously and handle challenging materials with a high level of impurities. That's why we have very high expectations for a shredder. The ZR2400H from UNTHA meets our requirements perfectly and represents state-of-the-art technology.“

- Franz Aschenbrenner (Operations Manager at FCC Austria, Himberg site)

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1 DANGER STAND CLEAR 10m



CUSTOMER

FCC Austria Abfall Service AG provides comprehensive waste disposal solutions for municipalities, industries, businesses, and private individuals. The company is part of the Spanish FCC Group, the largest environmental services provider in Central and Southeastern Europe, with a primary focus on waste management. Approximately 200 employees work at the company's headquarters in Himberg, near Vienna.

CHALLENGE

Each year, FCC Austria processes around 65,000 tons of waste, most of which is prepared for thermal recovery at an incineration plant. The decision to purchase a new shredder was driven by the need to replace an existing single-shaft unit from a competitor. Due to its limited throughput and high sensitivity to contaminants, it was no longer meeting daily operational demands. The requirements for the new shredder were obvious: the machines run continuously and must handle challenging materials with a high level of impurities. The company was looking for an energy-efficient two-shaft shredder, preferably with an

electromechanical drive, a throughput capacity of 50 tons per hour, high resistance to contaminants, and minimal maintenance needs.

SHREDDING SOLUTION

The UNTHA ZR2400H shredder was selected. Key considerations included cutting force, throughput capacity, resistance to contaminants, the ability to quickly resume operation after encountering contaminants, and ease of maintenance. The deciding factor was the shredder's energy efficiency, made possible by its water-cooled synchronous motor (UNTHA Eco Power Drive). Compared to competing machines, it saves up to 100 kWh per operating hour. The shredder runs two shifts per day, totaling around 3,600 hours per year. At an average electricity rate of \$0.25 per kWh, this results in potential annual energy savings of up to €90,000. The machine's front and rear access doors allow for easy removal of contaminants, and its maintenance-friendly design was another key benefit. An additional advantage is the low loading height, which makes it easy to feed the shredder using a wheel loader.

PURCHASING DECISION

Before making a final decision, four models from different manufacturers were tested under real operating conditions over several weeks. By the end of the trial period, one clear winner emerged: the ZR2400H from UNTHA fully met all requirements and represents the latest in shredding technology. The service experience was equally impressive—everything went smoothly, from the test phase and planning to implementation and commissioning. FCC Austria has been using UNTHA pre-shredders for 20 years. With the purchase of the ZR2400H in July 2022, the waste management company welcomed the third generation of machines from the Austrian premium manufacturer.

