

Schaufler relies on the UNTHA ZR2400W for the pre-shredding of metal Energy costs reduced by up to 70,000 Euro a year

The Schaufler recycling company in Ybbs an der Donau/Lower Austria was looking for a pre-shredding solution for NF and FE scraps. Their main criteria were energy efficiency, ease of cleaning, and outstanding performance capacity. With UNTHA's ZR2400W, the company chose the 2-shaft shredder with the lowest lifecycle costing (LCC) in its class.

Schaufler GmbH in Ybbs an der Donau/Lower Austria focuses on the recycling of NF and FE scraps. For FE, the emphasis lies on composites of aluminium, lead, tin and zinc. In addition to its headquarters in Ybbs, the family business with 120 employees that has been around since 1948 also operates sites in St Barbara/Styria and in Strebersdorf near Vienna. The company's areas of activity include not just recycling, but also waste management and fitting and removal as well as a specialist iron store at the Ybbs site. What motivated Schaufler to look for a new pre-shredding solution was the fact that the demands of its clients, mostly smelting works and foundries, are becoming tougher all the time in regards to higher qualities and purities. The recycling company had the opportunity to test shredders from different manufacturers on site, focusing on two areas in particular: ease of cleaning, which is a big factor for NF scrap, and low energy consumption, i.e. the specific energy input in kW/h per tonne. From a series of tests using four units in total, the UNTHA ZR2400W shredder emerged as the clear winner because of its superior performance in both these areas.

Hard-wearing, cost-efficient!

Schaufler had already worked successfully with UNTHA in the past – an XR3000C has been in operation at Schaufler since July 2019. Hubert A. Schwarz, Head of Processing and Process Development at Schaufler, sums up the company's decision to purchase the ZR as follows: "The most important advantages that we see with the ZR in our operations are these three: First, versatility, i.e. the fact that the unit can shred both large, coarse NF metals and composites. Secondly, cleaning the unit is fast, easy, and efficient, which is important due to the fact that we shred different materials. Thirdly, the specific energy input, that is the energy input in kilowatt hours per tonne, is very low. We were surprised at the fantastic results in this area. Compared to other manufacturers, we are talking about energy savings worth 70,000 Euro a year as a result of using the ZR!"

The new UNTHA ZR class

With the ZR class, UNTHA has developed the most cost-effective 2-shaft shredder with the lowest lifecycle costing (LCC) in its class. The high-performance pre-shredder with the energy-efficient UNTHA Eco Power Drive is ideal for high throughputs as well as high-volume waste and recyclables that are difficult to shred. The new shredding solution developed by UNTHA, premium manufacturer based in

Kuchl near Salzburg/Austria, comes with two cutting systems and is available as a stationary or mobile version. The robust, high-resistance machine of the ZR class is designed for multi-shift, continuous operation. The quick-change table system and the streamlined construction ensures a high level of plant availability. The powerful, slow-running ripper-cutter system is extremely resistant towards non-shreddables. The cutting shafts run independently of one another, thereby ensuring perfect material breakdown for sorting plants and making this machine class ideal for reducing material volume or producing alternative fuels.

ZR2400W for metal

The ZR2400W is used for the shredding of metal scrap (Al-Cu coolers, Al mixed, Al profiles/Al wires/Al sheets, Al-ISO profiles, Al wheels), white goods (refrigerators, washing machines, freezers, cooling counters etc.) as well as electronic waste. The goal is to achieve a rough material breakdown (90 % < 300 mm) for downstream processes (sorting plant). An ideal solution for metal processors and recyclers and recycling companies as well as aluminium and metal manufacturers.

Decision in favour of UNTHA's problem-solving expertise

Hubert Schwarz gives several reasons why the company decided to purchase an UNTHA shredder: "For me as a process engineer who is responsible for our processing aggregates and facilities, what stands out in the cooperation with UNTHA is the solution-orientated approach when it comes to technical issues, the fact that decisions are taken quickly, and that the service team is available at short notice. At the end of the day, this ensures our plant availability and keeps our processing operations running seamlessly. We have already put UNTHA to the test in all these respects and were very happy with the results."

UNTHA shredding technology

Reliable shredding technology that goes back more than 50 years!

UNTHA shredding technology develops and manufactures customised, reliable shredding systems that are used in a wide range of applications, from material recycling to processing of residual and waste wood and the reprocessing of waste to produce alternative fuels. In this way, the company makes an important contribution towards the conservation of resources and the sustainable processing and reduction of waste.

The company was founded in 1970 and is headquartered in Kuchl near Salzburg. UNTHA has more than 300 highly qualified employees and a worldwide sales network that spans 40 countries on all continents, placing it among the world's leading manufacturers in this growing, future-orientated industry.

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