

The UNTHA RS class

4-shaft technology for universal use, from a pioneering manufacturer

The 4-shaft cutting system with a perforated screen was invented by UNTHA. Anton Unterwurzacher, founder of UNTHA, worked on the design in the 1970s and early 1980s and was granted the world's first patent for it in 1983 (patent number 319535). Ever since then, the 4-shaft models of the UNTHA RS class have been improved continuously and honed for a wide range of different recycling applications. The reliable, robust RS shredders have proven their worth over decades and stand out for their high availability and process safety.

The patented 4-shaft cutting system was developed specifically for tough challenges. The cutting discs are not susceptible towards non-shreddables. They are designed for intense, continuous operation and are particularly economical due to their long service life.

50 years of UNTHA 4-shaft technology

The success story of the 4-shaft model commenced in 1970, when UNTHA was founded, and took off with a request from the manager of a local grocery store, a Mr. Christian Hasenbichler, who was looking for a way to shred his wooden crates and cardboard boxes. In his metalworking shop, Anton Unterwurzacher then proceeded to construct his first-ever shredder for this purpose. With his background in special machine construction, Anton Unterwurzacher spent more than a year working out the perfect solution. A born inventor, he finally came up with the world's first 4-shaft cutting system with a screen and was granted the global patent for his invention in 1983. Lots of advancements and additions to the application range over the years mean that the RS class has remained a mainstay of the UNTHA portfolio to this day.

Advantages of the 4-shaft cutting system

The RS class produces high-quality output material, obtained during the excellent material breakdown during the shredding process. The optimal fragmentation and homogeneity of the shredded material is particularly suited for downstream sorting processes and the production of recyclable materials. The slow-running cutting system is particularly resistant towards metal non-shreddables and stands out for its low dust and noise production. It does not require a hydraulic ram device as the material is pulled in by the system itself. The integrated central lubrication system supplies all the important bearing points with a sufficient amount of lubricant, and the gear oil level is monitored by an electronic oil level monitoring system. Depending on the individual requirements, different perforated screens are used for a defined fraction size, with high throughputs being obtained thanks to the large area of the screen. An integrated quick-change perforated screen system makes the screen easy and quick to exchange.

The shredders of the RS class

The range of UNTHA RS shredders covers a wide range of applications. The RS30 and RS40 shredders, for instance, are suitable for universal use. The larger RS50, RS60 and RS100 shredders were developed for industrial recycling solutions, and the largest shredder of the RS class, the RS150, is the model of choice for particularly tough and exceptional shredding challenges in an industrial context.

Where the RS class is used

In principle, all machines of the RS class may be operated as stand-alone solutions or integrated into complex plants thanks to their compact design. It is hard to think of an input material that the RS class can't handle. From documents, dashboards and automobile interior linings to banknotes, data, hard drives, foils, plastic containers, leather, metal shavings, paper, plastic bottles and production waste all the way to packing materials and much more, the RS class can handle it all. The RS class shredders fulfil the highest security standards, which is particularly important in sensitive areas such as product destruction or the destruction of documents and data.

Special focus on the destruction of documents, data and hard drives

When it comes to destroying files and data, reliability is key. The tried-and-tested 4-shaft document shredders of the RS class ensure the safe, uncompromising destruction of data and documents. DEKRA, an independent certification body, confirmed this in its report: UNTHA industrial document shredders comply with the latest safety standard DIN 66399-2. The document shredders of the RS class are used for reliable shredding for security levels P-1, P-2, P-3 and P-4. The RS class is also particularly suited for destroying hard disks. Depending on the protection classes, security levels and type of data carrier processed, these customised shredding solutions achieve throughputs of up to 8 t/h. For hard disks and a security level of H-5, the throughput lies at 150 hard disks per hour.

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 the 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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