

UNTHA

shredding technology

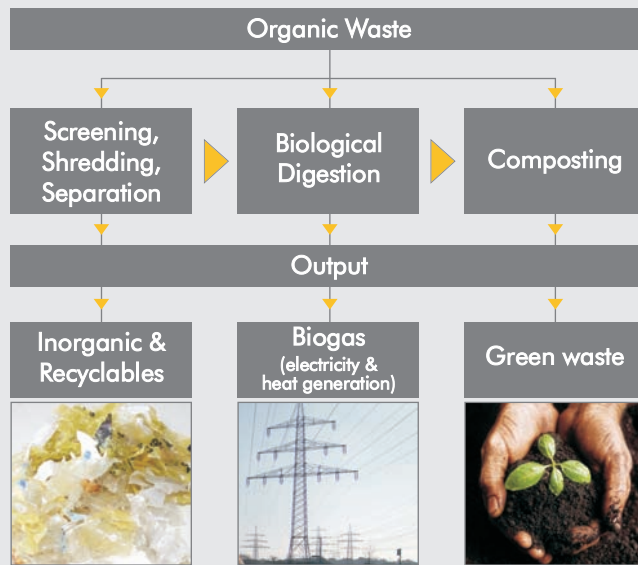
The reliable brand!



RELIABLE SHREDDING SOLUTIONS FOR ORGANIC WASTE

RELIABLE SHREDDING TECHNOLOGY PRODUCES HIGH PROCESS STABILITY

In order to process packaged, heterogeneous or lumpy organic waste optimally for fermentation, it needs to be subjected to a shredding process. Using a slow-running UNTHA RS four-shaft shredder guarantees reliable processing of the material and therefore a pumpable fermentation substrate. For this particular application, UNTHA has developed special cutting systems which offer specific tooth and cutting gap geometries.

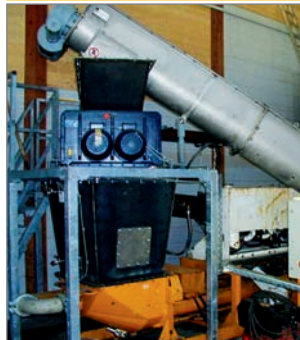


APPLICATIONS AND PLANT EXAMPLES

Slaughterhouse and animal waste



Unfinished food/unused ingredients



Preserves



Packaged foods



Bottled drinks / empty plastic bottles



Plant off cuts



Organic waste bins



Grocery market waste



Fruit & Vegetables



THERE ARE A LOT OF GOOD REASONS FOR CHOOSING AN UNTHA SHREDDING SOLUTION

The reliable and robust RS30 and RS40 four-shaft shredders are proven over decades and were specifically developed for a wide range of applications. They can be operated as stand-alone solutions or integrated as part of a complex line of process equipment, where they are particularly valued for their compact design.

The machines are characterised by their reliability and process stability. They feature a functional design and are unmatched in productivity.

QUALITY FEATURES

These shredders give unrivalled reliability for the following reasons:

- an integrated electronic shut-down for un-shreddable items
- high resistance to foreign material thanks to low-speed cutting shafts
- multi-stage special sealing
- easily replaceable standard wear plates in the cutting chamber
- straight-forward design (no hydraulics, couplings etc)
- heavy-duty cutting disks with integral collars, which distribute cutting forces over a wide area
- maintenance-free mechanical seals
- electric oil level monitoring
- integrated central lubrication system

Operational advantages:

- individual cutting disk geometry allows for a definable particle size
- reliable drive with two independent motors and heavy-duty gears
- consistent final particle size
- no bridging of the input material by the secondary cutters
- self-feeding of material

Functional design

- compact design
- universal discharge flange for easy interface with downstream components
- can be loaded from all sides
- sectional tubular steel frame
- new enclosed design protects all components from dirt and dust

Low operating costs

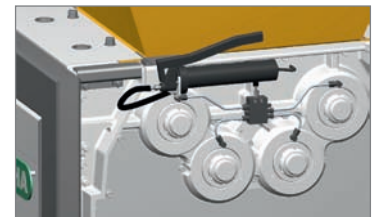
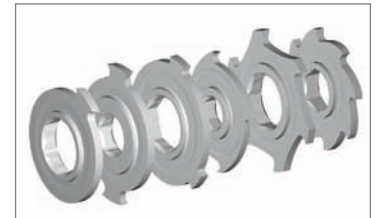
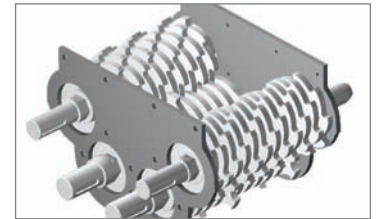
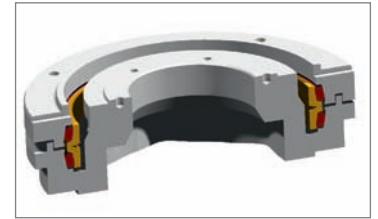
- low energy consumption
- low maintenance costs

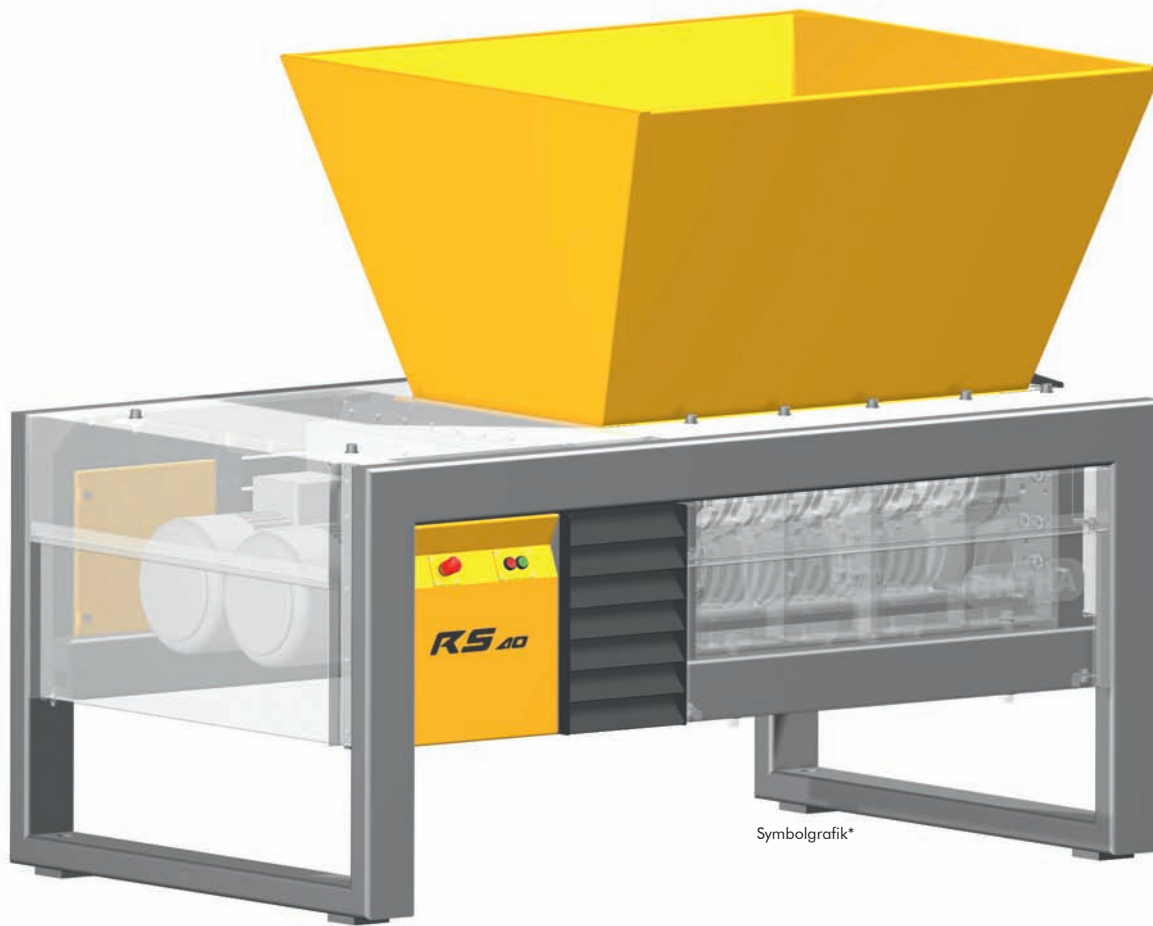
Unrivalled in throughput

- high throughput thanks to individual cutting system design
- due to large screen surface and tailored cutter design
- slowly rotating cutting shafts produce high torque

In addition we offer

- bespoke project planning by experienced application engineers
- components and specific service
- efficient spare parts supply

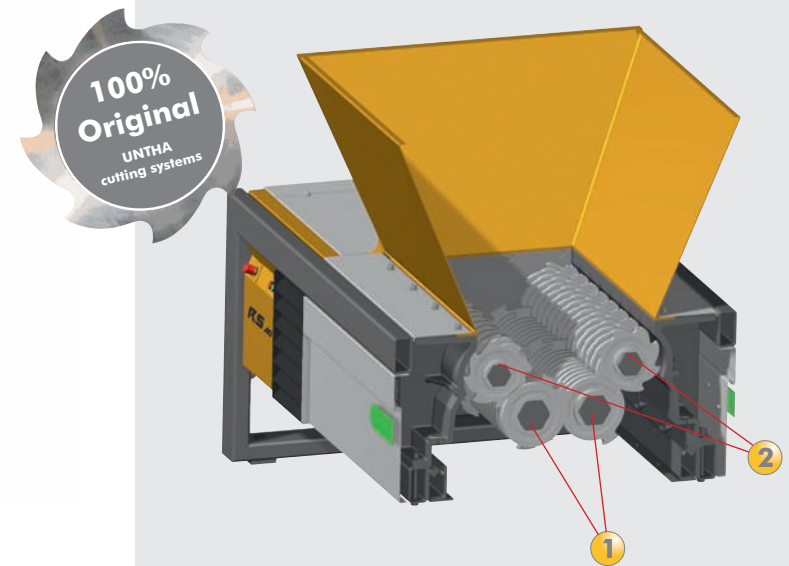




Symbolgrafik*

FUNCTION AND DESIGN

Material is drawn into the main cutters (1), shredded and then discharged via a chute at the bottom. The size of the cutting disks and the number of the cutting system's teeth determine the size of the final fraction. In addition to the shredding process, the secondary cutters (2) aid in drawing the material in and serve as a stripping system for the cutting system.



*) Abhängig von Ausführung und Anwendungsfall

UNTHA CUSTOMER SERVICE – AS RELIABLE AS OUR PRODUCTS

Our customer's satisfaction is our number one priority. Our experienced Customer Service experts ensure machines and plant supplied by us are maintained and optimised to increase their service life and give many years of efficient and profitable operation.

We can also provide:

- full refurbishment of cutting systems
- spare parts
- machine repair and/or refurbishment
- preventive maintenance and maintenance agreements
- training
- diagnosis of machine problems

RS SERIES

TECHNICAL DATA		RS30 Four-shaft shredding system	RS40 Four-shaft shredding system	RS40 Two-shaft shredding system	RS40 2x2-shaft shredding system
Driving power	kW	11 / 15	22 / 30 / 37	37	88
Cutting system width	mm	450	750 / 1.000	900	1,054
Cutting system depth	mm	600	700	680	860
No. of cutting shafts	units	4	4	2	4
Weight	kg	2,000	3,300 / 3,600	3,000	5,000
Throughput*	kg/h	up to 3,000	up to 10,000	up to 15.000	up to 25,000

*) depending on: quality of material

All dimensions in mm.

40 years of expertise

More than 8,000 shredders in daily operation!



shredding technology

The reliable brand!



UNTHA shredding technology

Moldanstraße 141

A-5431 Kuchl / Salzburg, Austria

Tel +43 6244 7016 0, Fax +43 6244 7016 1

info@untha.com

www.untha.com

Authorised partner of UNTHA