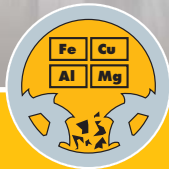
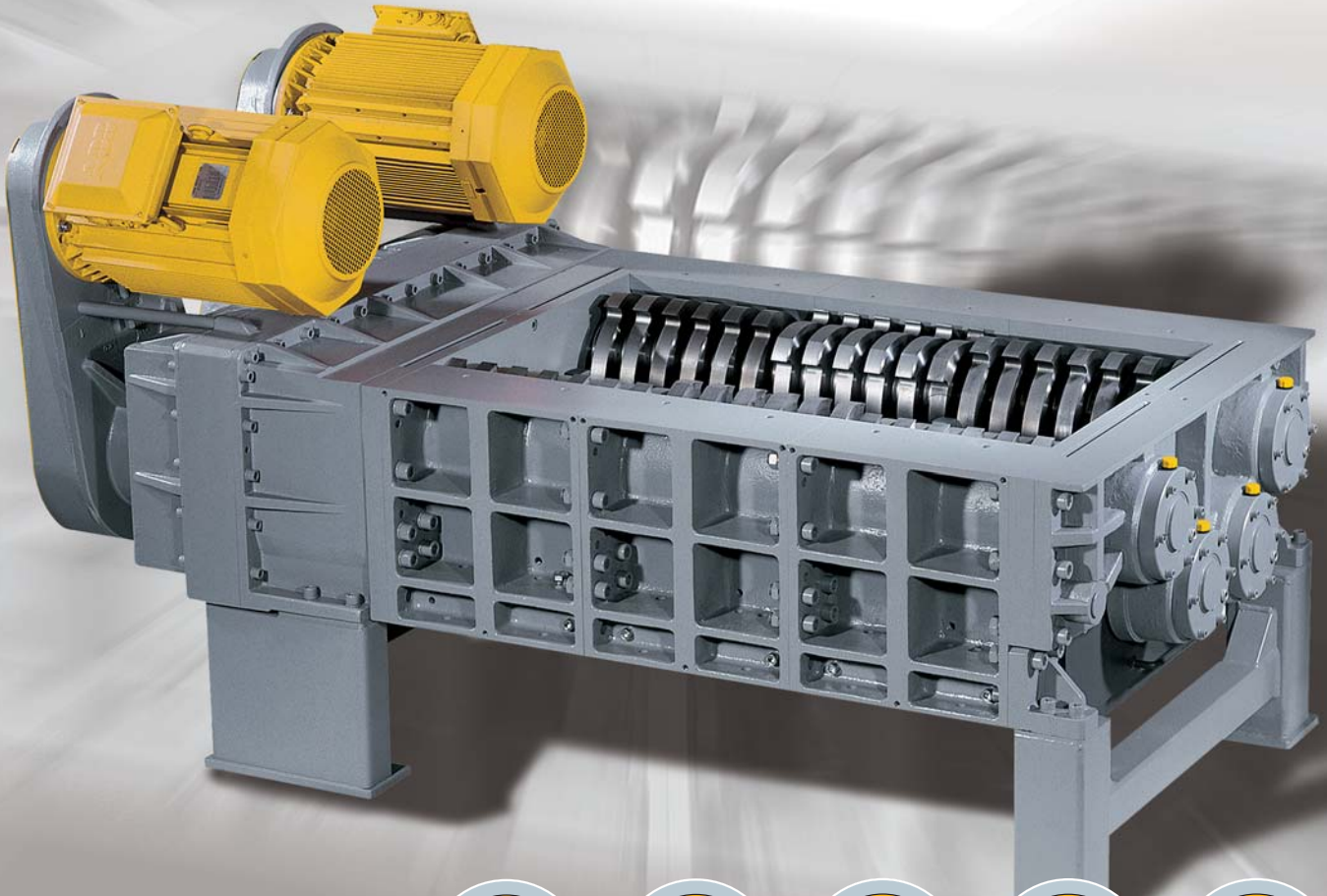


**UNTHA**

shredding technology

# product



**RS45 / RS50 / RS60 / RS100**

with patented 4-shaft shredding system

[www.untha.com](http://www.untha.com)



## Function



The material for shredding is loaded into the hopper and immediately drawn into the cutting chamber, where coarse shredding and post-shredding are carried out in a single operation.

Granules too large to pass through the perforated screen are gripped by the main cutter's teeth and lifted back up – **coarse-shredding**.

When the coarse-shredded material is seized by the teeth of the secondary cutters, it is shredded once again. The material is then shredded a second time by the main cutter's teeth – **post-shredding**.

The end product is precisely defined, uniform granules.

## Benefits

### Costs

- Pre and secondary shredding with a single machine
- Four screen faces ensure high throughput
- Well-defined, homogenous end granulate
- Easy screen and cutter replacement
- Reliability and ease of operation

### Construction and Quality

- More than 300 cutting set-up options
- Modular kit system
- Intelligent Siemens SPS control with automatic foreign body shut-down
- Shaft mounting protected by bulkhead partitions
- Robust casting frame construction
- Various rev count options due to belt drive
- Reliable drive due to three-step spur gear system

# RS45 / RS50 / RS60 / RS100 4-shaft shredding system

For more information please visit [www.untha.com](http://www.untha.com)



## Application

UNTHA-industrial-shredders are used successfully in a wide range of applications:

- Aluminum sections • Bark • Bank notes • Bio-waste
- Bumpers • Car internal linings • Cardboard • Cardboard tubes • Carpets • Chipboard • Circuit-boards • Dashboards • Dish-washers • Domestic waste • Electronic scrap
- Files • Film bales • Films • Foams • Foam sheets
- Garden waste • Hazardous waste • Industrial waste
- Leather • Medical waste • Metals • Metal drums • Metal turnings • Oil filters • Packaging materials • Paper
- Plaster-board • Plastic bottles • Plastic drums • Plastic packaging • Plastic tubes / pipes • Radio-active waste
- Refrigerators • Garbage containers • Reject paper
- Rubber waste • Shredder light fractions • Spring interior mattresses • Stamping lattices • Substitute fuels
- Tetra-paks • Textiles • Truck tires • Washing machines
- Waste wood • Workshop waste

## NEW! Rev count regulation via frequency converter (optional)

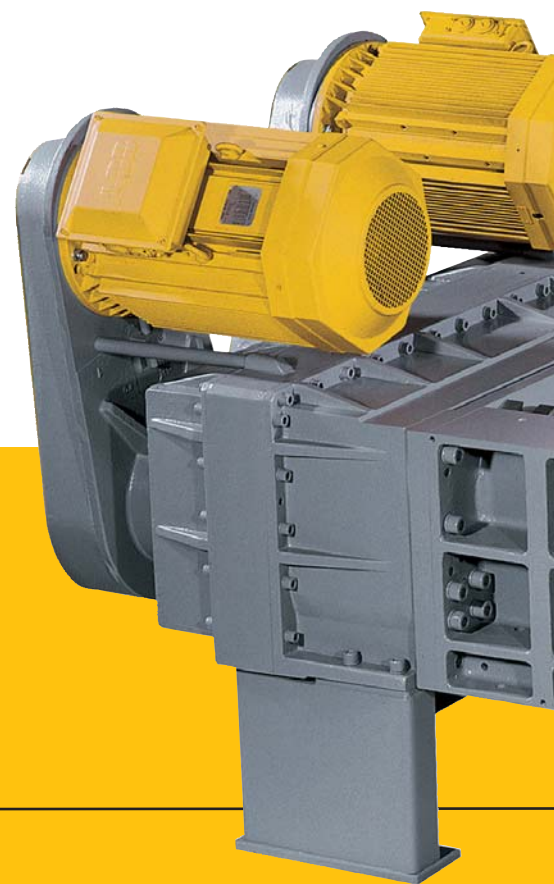


- Ideal for shredding problematic materials
- Rev count can be set for each individual shaft
- Infinitely settable throughput volume via rev count control
- Reduced reversal occurrence due to optimal throughput set-up

## Patented UNTHA four-shaft cutting

All UNTHA-industrial-shredders are equipped with the patented UNTHA four-shaft cutting system with a perforated screen (patent number 319535).

- 1 Cleaning or changing is quick with a perforated screen that can be removed on rollers.
- 2 Cutter changes are fast and easy as the complete moveable bearing plate can be withdrawn on support shafts.
- 3 Power is supplied to the cutter shafts by a reliable and low maintenance double drive and a three speed spur gearbox



system

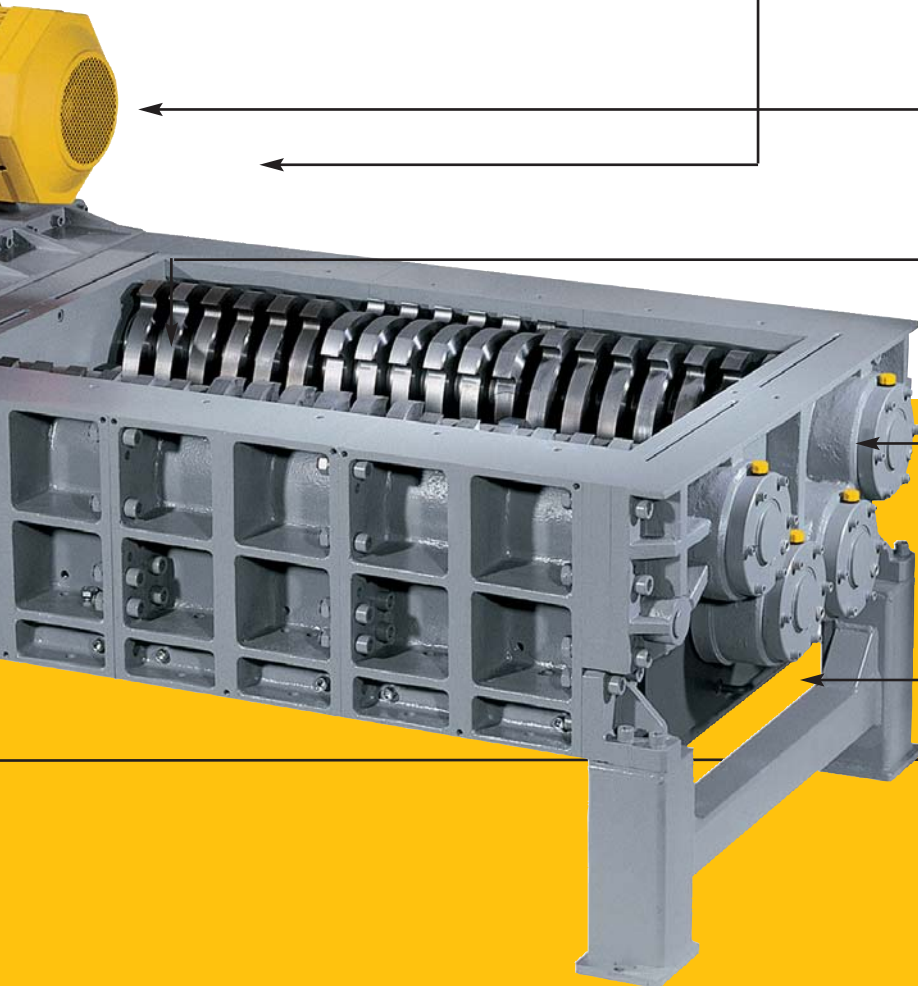
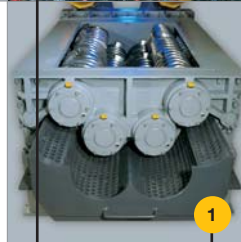
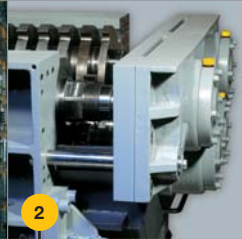
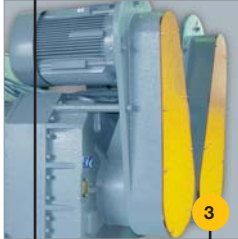


## Sorting system with perforated screen

4 Over **300 different cutters** are available to ensure that the UNTHA-industrial-shredder is optimally configured for the input material

5 **Accessories and options**

We can optimally configure an UNTHA-industrial-shredder for your specific application with our wide range of accessories and options. The range includes a wide variety of cutters (300 in total), compression feeders, screw conveyors for removing granules from the machine, exhaust hoods, special filling hopper, multi-layered shaft seals, special supporting frames and many other accessories.





## For demanding applications

**UNTHA-industrial-shredders**, with their long development and refinement history, are extremely reliable and resistant to non-shreddable foreign bodies. We can supply shredders for virtually any application.

With our modular component system, we deliver a product customized to your needs by combining different speeds of rotation, torques, cutter clearances, cutters, perforated screens and seals.

**Each of our shredders is tailored to your specific customer requirements – guaranteeing top performance with the optimal configuration.**

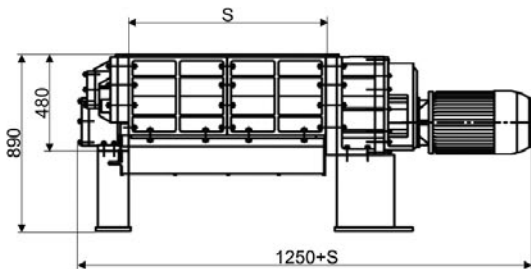


**30 years of expertise**  
**More than 8,000 shredders**  
**in daily operation!**

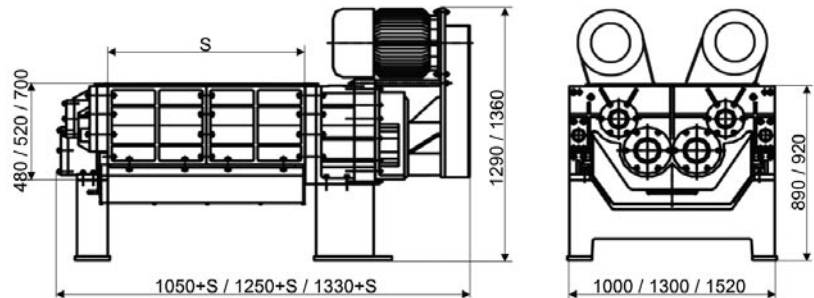


## Technical data RS45 / RS50 / RS 60 / RS 100 4-shaft shredding system

RS45



RS50 | RS60 | RS100



All dimensions in mm. Dimensions only valid for standard machines.

Machine type		RS45	RS50	RS60	RS100
Driving power	[kW]	30/37	44/50/60	60/74	100/110/150
Charging hole	[mm]	750/960	750/960/1,230	960/1,200/1,440	1,200/1,500
No. of blade shafts		4	4	4	4
Speed main shafts	[min-1]	16-24	21-28	17-22	17-28
Speed secondary shaft	[min-1]	21-32	32-41	21-26	17-28
Perforated screen	[mm]	15-40	15-40	15-100	30-100
Direct drive		yes	no	no	no
Belt drive		no	yes	yes	yes
Weight	[kg]	2,200-2,800	2,600-3,200	4,000-5,300	9,000-12,000
Throughput	[kg/h]	bis 3,000	bis 4,000	bis 6,000	bis 10,000

Distribution partner



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