

UNTHA

shredding technology

The reliable brand!

RS
4-SHAFT SHREDDING SYSTEM



RS30 | RS40

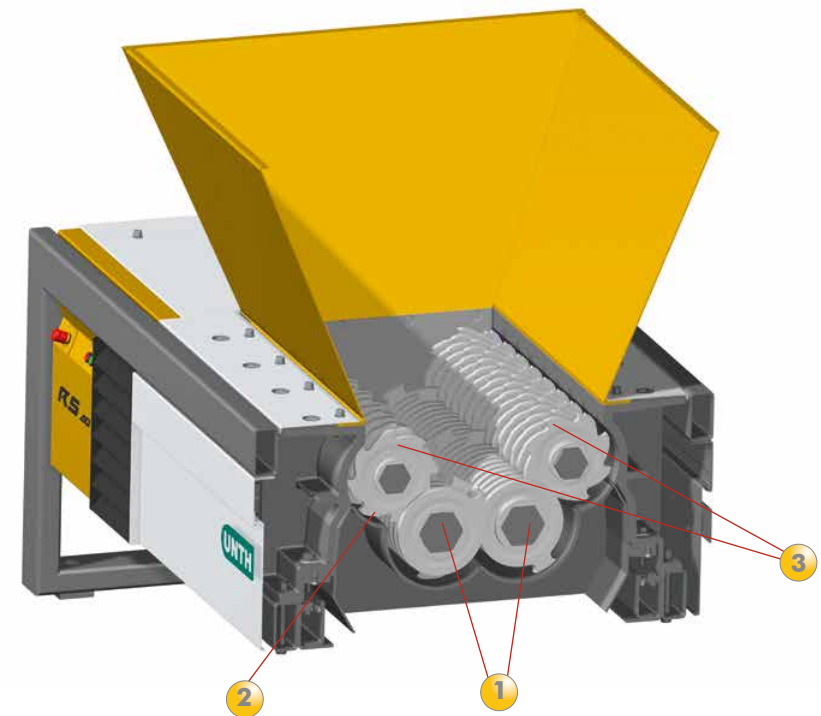
A TRADITION OF RELIABILITY

The reliable and rugged RS30 and RS40 shredders were developed for a wide range of applications and have a proven track record for decades. These compact machines can stand alone or be integrated into comprehensive systems.

Functional design, high availability and consistent throughput are all hallmarks of these tough and dependable machines.

FUNCTION AND DESIGN

Material is drawn into the main cutters **①** and both pre-shredded and re-shredded in a single pass. Material that doesn't pass through the screen **②** is transferred to the secondary cutters **③**. The secondary cutters then transport the material back into the cutting chamber for re-shredding. The final product: precisely defined, homogeneous particles.



TYPICAL APPLICATIONS

- Files and folders
- Dashboards
- Interior auto trim
- Bank notes
- Organic waste
- CDs
- Plastic film
- Green waste
- Waste rubber
- Wood waste
- Cardboard packaging
- Cardboard tubes
- Plastic drums
- Plastic packaging
- Leather
- Metal chips
- Oil filters
- Paper
- Plastic bottles
- Production waste
- Foamed boards
- Punching scrap
- Bumpers
- Tetra pack
- Textiles
- Transformer coils
- Packaging material
- etc.

Options

- > Hydraulic ram (J) for bulky materials



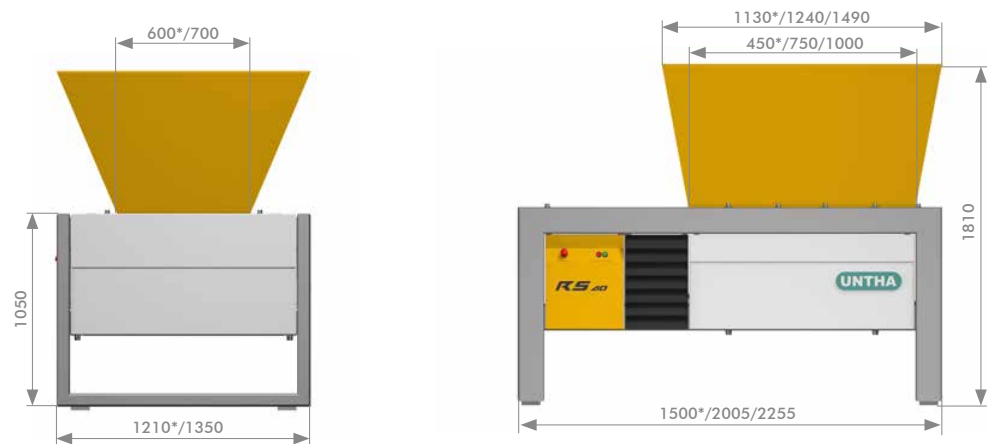
Further Options

- > variable frequency drive (VFD) speed control for adjustable throughput and reduction of start-up peaks
- > screw conveyor for efficient discharge of shredded material
- > automatic central lubrication system
- > "UNTHA Carefree package"

RS Series 4-shaft shredding system

TECHNICAL DATA		RS30	RS40
Power	kW	11/15/22	30/37/44
Cutting chamber	mm	450 x 600	750/1000 x 700
No. of cutting shafts		4	4
Speed main shafts	rpm	23	24
Speed secondary shafts	rpm	34	32
Perforated screen Ø	mm	15 - 40	15 - 40
Weight	kg	appr. 2,000	appr. 3,300/3,600

All dimensions in mm.



40 years of expertise.
More than 9,000 shredders in daily operation!

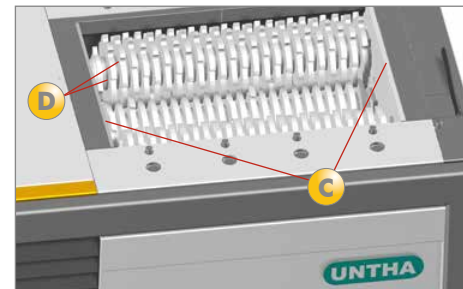
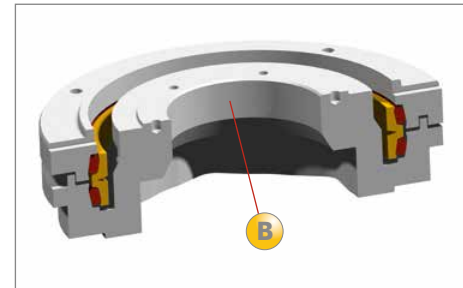
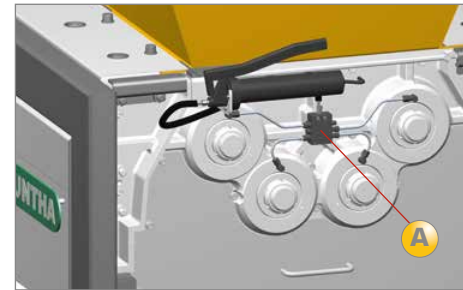
QUALITY FEATURES

High availability

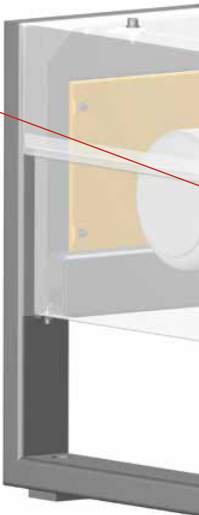
- > integrated electronic shut-down for unshreddable items
- > resistant to foreign material due to low speed cutting shafts
- > integrated central lubrication system (A)
- > maintenance-free mechanical seals (B) prevent dirt and dust from entering into gears and bearings
- > electric oil level monitoring
- > easily replaceable wear plates (C)
- > straight forward design (no hydraulics, couplings, etc.) ensures reliable operation
- > cutting disks with integral collar (no separate spacers) distributes cutting force over wide area

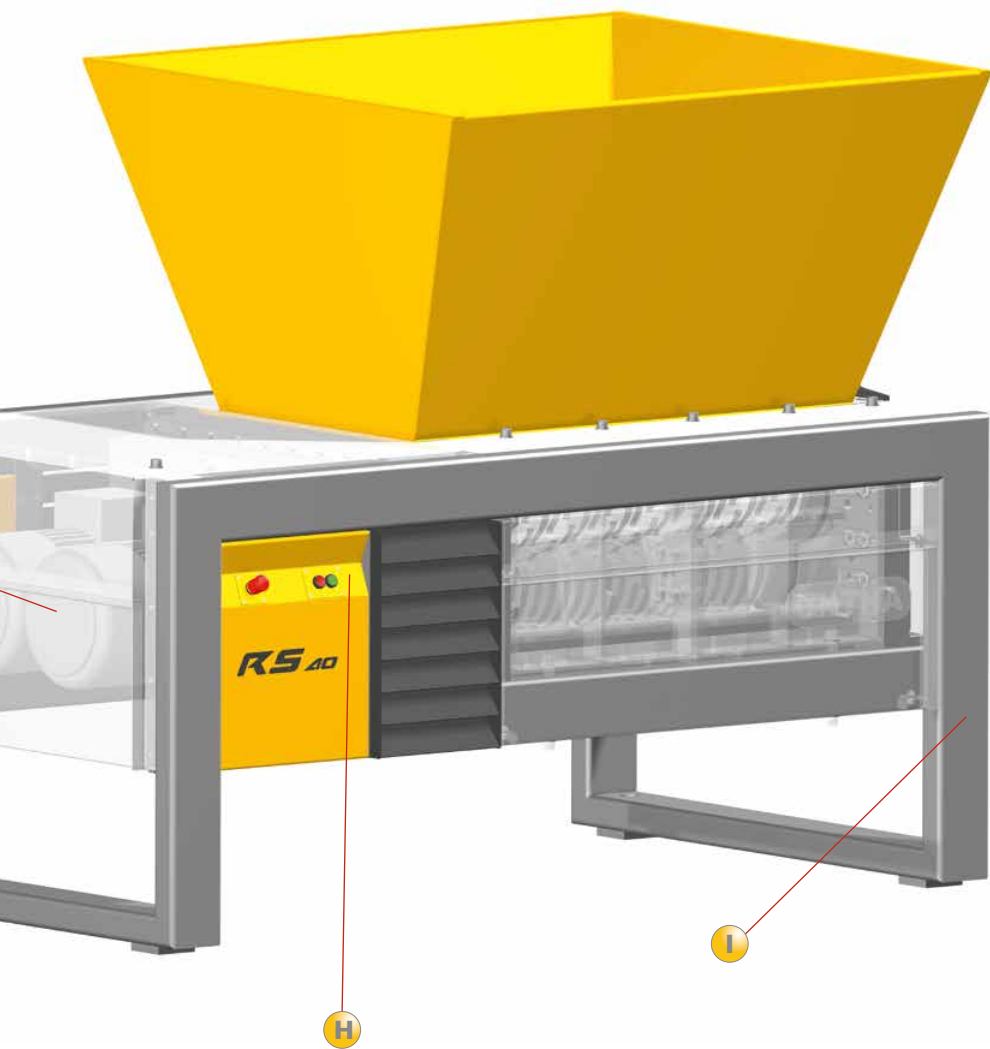
Operational advantages

- > quick change screen system (E)
- > Reliable drive with two independent motors and robust spur gear (F)
- > unique anti jam screen design (G) with bevelled sides
- > consistent final particle size
- > one step pre- and re-shredding
- > self feeding for most materials – no ram required
- > low noise and dust generation



F





Functional design

- > operational controls **H** directly at the machine with integrated emergency stop
- > new enclosure design protects all components from dirt and dust
- > sectional tubular steel frame **I** resists warping
- > compact design integrates into complex installations without difficulty
- > universal discharge flange easily interfaces with downstream components
- > can be loaded from all sides

Unique productive

- > very large screen area ensures high throughput
- > high torque drive easily handles tough materials
- > standard cutting chamber wear plates

Low noise and dust pollution

- > low-speed cutting shafts

A SELECTION OF IMPLEMENTED PROJECTS



Application: Files and paper
Solution: RS40
Options: spezielle Schurre, custom hopper
Location: Austria



Application: Tissue paper
Solution: RS30
Options: Extraction hood
Location: France



Application: Hard drives
Solution: RS30
Options: Stand, conveying system, custom hopper
Location: Finland



Application: Blister
Solution: RS40
Options: -
Location: Germany



Application: Slaughterhouse waste
Solution: RS40
Options: Ram device supports, custom hopper, Extraction hood
Location: Poland



Application: Files and paper
Solution: RS40
Options: -
Location: Germany



Application: Textiles
Solution: RS30
Options: -
Location: Netherlands



Application: Files and paper
Solution: RS40
Options: Stand
Location: Germany



UNTHA RESEARCH & DEVELOPMENT CENTRE

In 2000, UNTHA opened a modern research and development centre where trials and tests with customers' specific materials are simulated under practical conditions.

The focus is always on the customer and on fulfilling each task in the best possible manner. The technology centre enables us to gain important experience and data so we can offer the ideal shredding solution for any given task.

Take this opportunity and make an appointment at our test and demonstration centre!



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