

RECYCLING TECHNOLOGY

BHS
SONTHOFEN

RAPAX

Pre-shredding on a new level

TRANSFORMING
MATERIALS INTO VALUE



YOUR CHALLENGE – OUR SOLUTION

Whatever your task: the RAPAX tears it all.



Metal recovery

Thanks to high-torque shredding, the machine is versatile and universally applicable with easy maintenance.

- Light ferrous scrap
- Aluminum scrap
- Non-ferrous scrap
- WEEE (large & small appliances)

Commercial & industrial waste

Continuous operation, flexible tool configurations and low maintenance are ensured with the RAPAX due to its robust design.

- Commercial & industrial waste
- Household waste
- Bulky waste

Construction waste

High-torque drive, robust design and flexible tool configurations, the RAPAX offers efficient operation even in demanding applications.

- Construction waste (CDW)
- Asphalt clods
- Plasterboard

Powerful design and performance.

Not only in design, but also with many technical innovations, the robust and high-torque RAPAX sets new standards in pre-shredding. As a slow-running twin-shaft pre-shredder, it offers a wide range of applications in the recycling industry with different variations of tools, shredding table installations and control parameters. With extensive test series and innovative design details, it offers optimal conditions for metal recovery, commercial and industrial waste processing, and recycling of construction waste.

Intelligent solutions: Design details

To cope with specific tasks, each shaft can be equipped with a variable number and style of shredding tools. Depending on the feed material and requirements, the shape of the tool varies. An intelligent control system offers specially designed programs and parameters for the respective application area. Individual travel cycles and exact setting options for asynchronous operation can thus be adapted.

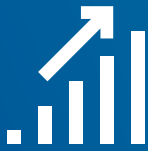
[Check it out](#)

www.bhs-sonthofen.com/rapax

FLEXIBILITY AT ITS BEST

All advantages at a glance.

BHS-Sonthofen set a benchmark in the pre-shredding technology. Continuously developed and adapted to the prevailing conditions over more than 100 years. BHS-Sonthofen provides a new state-of-the-art product. Pre-shredding with an extremely robust, high-torque machine defines a new solution and level: The RAPAX.



High capacity

With material-adapted tear tools and power of up to 400 kW, enormous throughput rates are easily mastered.



Maintainability

Compact, robust design with easy access makes maintenance fast and efficient.



Less downtime

Innovative design and intelligent detail solutions reduce the risk of wrapping of material, bridging, stops and cleaning time.



Optimum drive power

Applicable for many scrap and waste materials, whether metal scrap, commercial and industrial waste, or construction waste.



Intelligent control system

Material adapted programs with individual driving cycles, both in synchronous and asynchronous operation.



In safe hands with BHS

Proven technology, processing experts, modern test center, intensive process consulting and global after sales service.

WELL THOUGHT-OUT TO THE TINIEST DETAIL

Best in class engineering for highest demands.

1 Drive powers! Even the highest demands on shredding forces place no limits on the RAPAX with drive powers of up to 400 kW. This guarantees reliable, high throughput even under the most adverse conditions.

2 Shock resistant! BHS has set a new benchmark in gearbox-saving technology. The combination of belt drive and planetary gear in a compact design with the bearing of the drive unit on rubber buffers can effectively protect the drive unit against shocks and constraining forces. For a significantly increased service life of the gear unit.



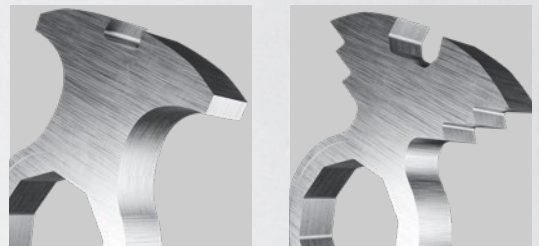
3 Strong and modern engineering! A structurally very robust machine design with state-of-the-art engineering results in maximum robustness. This is one of the key factors why the RAPAX can be used in a very wide range of applications.

4 Hydraulic pusher unit! A hydraulic pusher device is available as an option. It ensures continuous material infeed when processing low-density, light or bulky feed stock.





5 Individual configurations! Depending on the application, the RAPAX can be individually configured. In addition to the model size, various tearing tables as well as electric or hydraulic drives are available. Furthermore, two different shredding tools in terms of geometry and design can be equipped. The wear-optimized "JANUS-Shape" masters heavy applications, while the throughput-optimized "BAT-Shape" scores top grades in light applications.



JANUS-Shape

BAT-Shape

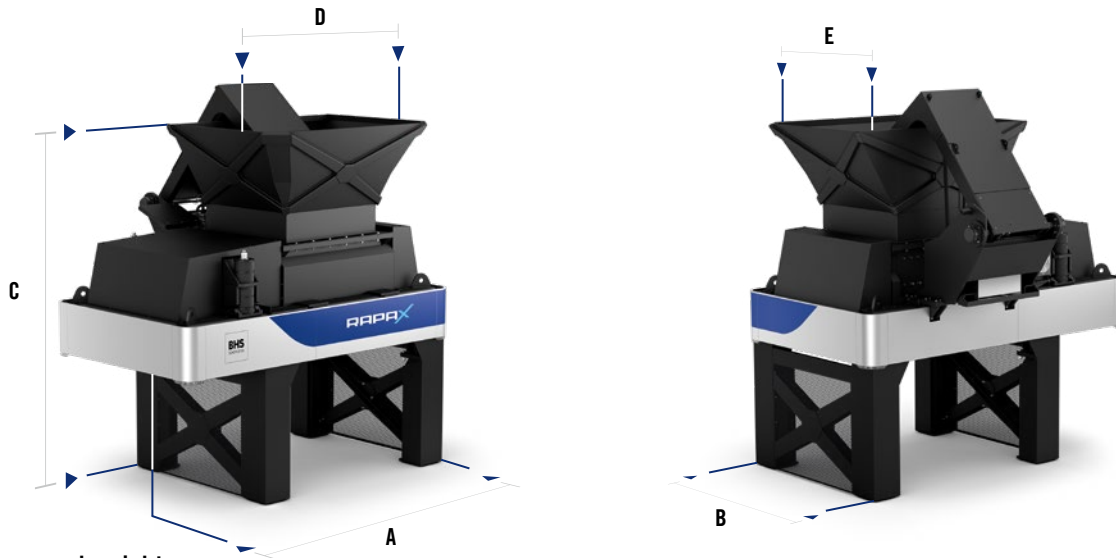
6 Less downtime guaranteed! The RAPAX features a split machine housing and unique BHS shaft changing system for quick and convenient replacement of the tearing shafts. This allows a fast and efficient tool exchange that is perfectly adapted to the application and the grain size of the output material.

SNEAK A PEEK	

Discover the RAPAX live on your device. Simply scan the QR code and experience the unleashed strength of the power machine.

NEARLY ALL. POWER, FLEXIBILITY, DESIGN

The RAPAX in two series and six sizes: Engineered for pure performance



Dimensions and weights

Type	A	B	C	D	E	Working chamber length x width	Weight
RAPAX 1512	4,300 mm	2,700 mm	4,700 mm	2,400 mm	2,000 mm	1,500 x 1,200 mm	22 tons
RAPAX 1516	4,700 mm	2,700 mm	4,700 mm	2,800 mm	2,000 mm	1,500 x 1,600 mm	25 tons
RAPAX 1522	5,300 mm	2,700 mm	4,700 mm	3,400 mm	2,000 mm	1,500 x 2,200 mm	30 tons
RAPAX 2022	5,500 mm	3,200 mm	5,200 mm	3,400 mm	2,500 mm	2,000 x 2,200 mm	38 tons
RAPAX 2028	6,100 mm	3,200 mm	5,200 mm	4,000 mm	2,500 mm	2,000 x 2,800 mm	45 tons
RAPAX 2032	6,500 mm	3,200 mm	5,200 mm	4,400 mm	2,500 mm	2,000 x 3,200 mm	50 tons

Performance data (standard designs)

Type	Drive power	Rotor speed (max.)	Rated torque	Rotor diameter	Number of tearing tools
RAPAX 1512	150 – 220 kW	40 rpm	28,000 – 42,000 Nm	700 mm	4 / 5
RAPAX 1516	180 – 264 kW	40 rpm	34,000 – 50,000 Nm	700 mm	7 / 9
RAPAX 1522	220 – 264 kW	40 rpm	42,000 – 50,000 Nm	700 mm	10 / 12
RAPAX 2022	220 – 320 kW	40 rpm	42,000 – 58,000 Nm	950 mm	9 / 12
RAPAX 2028	320 – 400 kW	40 rpm	58,000 – 67,000 Nm	950 mm	11 / 15
RAPAX 2032	320 – 400 kW	40 rpm	58,000 – 67,000 Nm	950 mm	12 / 16