

SHREDDING HOT ALUMINIUM WITH UNTHA RS50 & RS60

Bharat Forge Aluminiumtechnik GmbH

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The UNTHA shredders – models RS50 and RS60 – serve two key purposes at our facility: First, they ensure smooth operations in our production process. Second, they help us process punching scraps and aluminum pieces so we can remelt and reuse them.

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» MATERIAL
Aluminum (burr scrap)

» SHREDDER
RS50, RS60

» THROUGHPUT
Over 1.500 lb/h





CUSTOMER

Bharat Forge Aluminiumtechnik GmbH, located in Brand-Erbisdorf, Germany, develops aluminum forging solutions for the automotive industry. With 500 employees, the company primarily produces chassis components. It is a subsidiary of Bharat Forge Limited (BFL), a globally active market leader in forged parts manufacturing.

APPLICATION

The company recycles pure aluminum that is heated, pressed, and punched during the production process. The punching scraps and aluminum burrs are remelted in the company's foundry and turned into new blanks. To prepare the material for melting, it must first be shredded. The company was looking for shredders capable of withstanding intense, continuous operation and processing hot aluminum.

SHREDDING SOLUTION

Bharat Forge Aluminiumtechnik GmbH chose shredders from UNTHA's RS series. The RS50 and RS60 are used in two processing lines. The aluminum pieces, approximately 600 mm (23.6 inches) long and 30 mm (1.2 inches) thick, are fed into the shredders at temperatures up to 450°C (842°F). The cutting units and wear plates/inserts were specially engineered to resist extreme heat and reduce wear. Additionally, the shredders are fitted with an automatic central lubrication system.

The processing lines—and the shredders—operate 24 hours a day. To ensure continuous uptime and reduce maintenance-related downtime, the company uses two UNTHA RS50 and two RS60 shredders. This setup allows for maintenance to be performed on one unit while the other continues operation.

REQUIREMENTS

- » Robust construction
- » Heat-resistant cutting mechanism
- » Low maintenance
- » Easy placement and integration into the plant
- » 24-hour operation



UNTHA conducted two series of tests, both with us and for us, to find the perfect shredding solution for our needs. The first trials were performed at the technical center in Austria, and we later had the opportunity to test the shredder at our facility.

— Andy Vogel
Head of Forging at Bharat
Forge Aluminiumtechnik
GmbH

