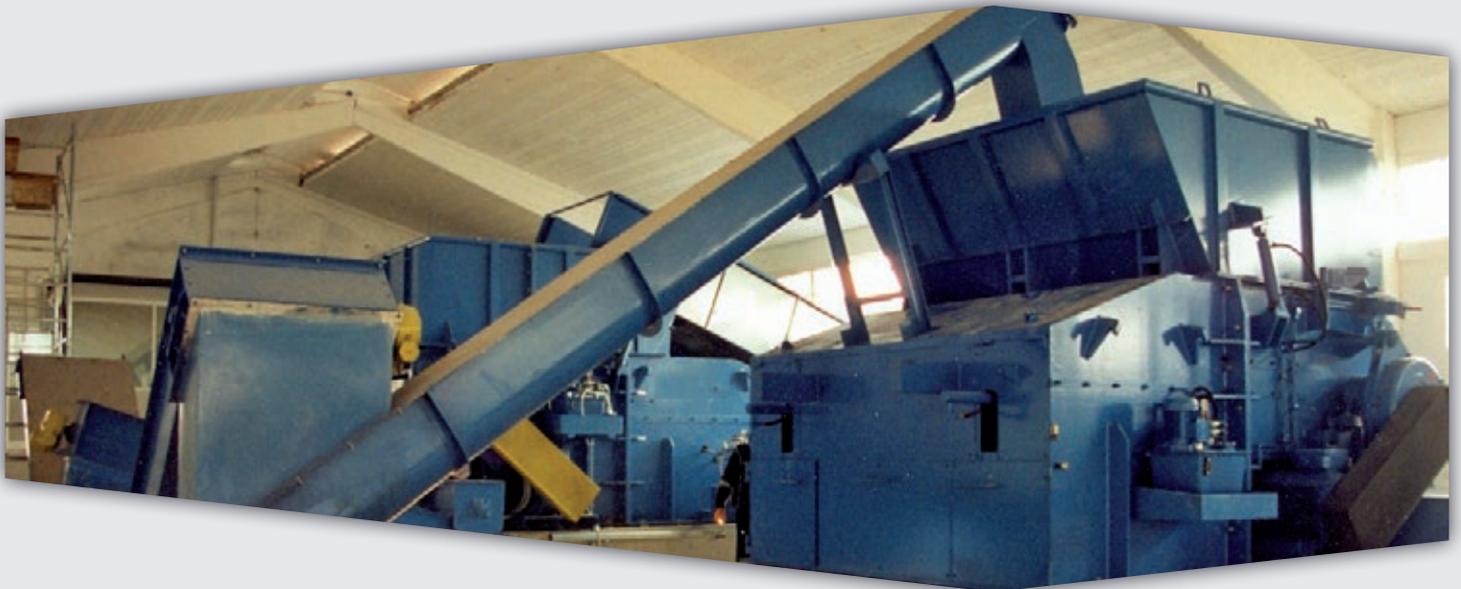


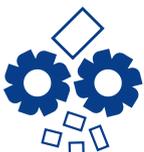


# ZERKLEINERUNGSMASCHINENBAU NORKEN GmbH

*A term for quality and future-oriented technology*



**Synthetic material and recycables processing**



SHREDDING



SORTING



CONVEYING



STORING

[www.zeno.de](http://www.zeno.de)



## Plastic shredding, data storage media, special applications

The crushing of recyclables is no problem for ZENØ. Different plastics, but also materials such as disks, tires, upholstery, rejects, GRP, solar panels, roofing, electrical devices or printed circuit boards are crushed and can be used in further steps of recycling.



Plastic, shredded into different particle sizes



Recyclables, shredded into different particle sizes



Plastic tanks



Mixed plastics



Tires



Baled PET bottles



Lightweight packing  
in bags



Thick-walled plastic pipes



Foils and lumps



PVC pipes

## Plants

According to the customer's requirements and the influence of our long experience in the field of plastics and recyclables preparation, we develop individual concepts. Each plant is planned by ZENON, manufactured and assembled turnkey on request.



Treatment plant for HDPE/LDPE/PP



Fully automatic system with comminution and NIR-separation



Plant with pre- and post-shredder, sieving, wind sifter and storage



ZENON sorting plant for packings



ZENON bunker systems for plastics agglomerate



ZENON silo for 15000 m³ agglomerate



## Application examples



ZENO plastics crushing plant with feeding belt for bales



Sorting plant for packaging with latest technology, capacity: 8 to/h



ZENO crushing plant for documents and paper



ZENO treatment plant for light fraction from shredder



Polymer sorting



ZENO reject treatment plant



ZENON polymer treatment plant



ZENON treatment plant for expired food in stainless steel



ZENON light material separation plant



ZENON treatment plant for commercial mixed waste



ZENON aluminum processing plant



ZENON processing plant for HDPE/LDPE



## Pre- and post-shredding

ZENNO has an extensive range of machines to ensure the crushing of various materials.



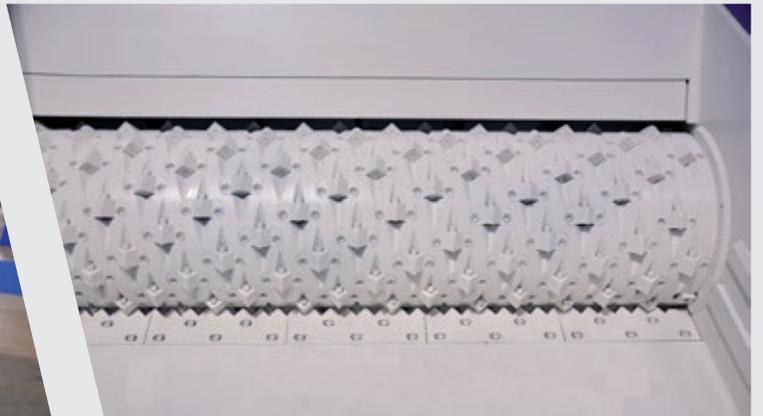
ZENNO rotor shear



ZENNO rotor with bolted crushing tools



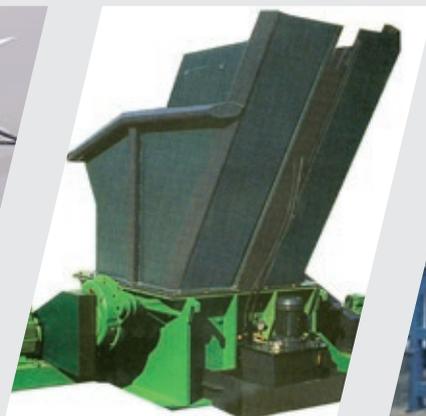
ZENNO pre-shredder type ZTLL



ZENNO rotor with bolted cutting tools



ZENNO centrifuge



Rotor shear with pressure device



ZENNO drum dryer



ZENNO cyclone

## & special machines

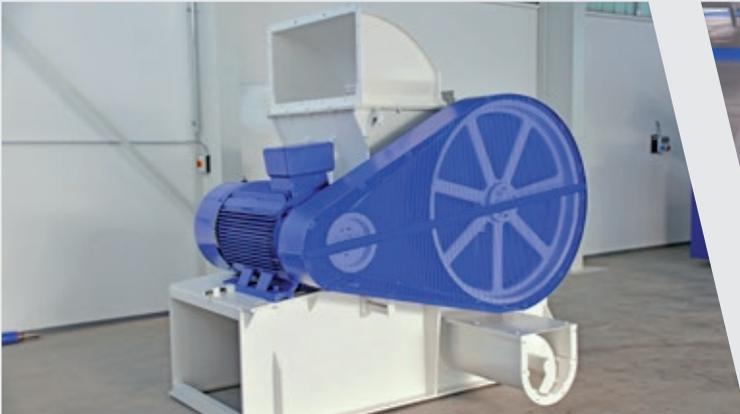
Depending on the final grain size, single shaft slow-speed shredders type ZTLL or ZENO rotor scissors are used for pre-shredding, and granulators type ZNZGV or ZSM are used for final shredding.



Two ZENO granulators type ZNZGV



Certified crusher for data carrier and document destruction



ZENO granulator type ZNZGV



ZENO rotor with chipping knives



ZENO cutting mill type ZSM



ZENO rotor with cutting bars



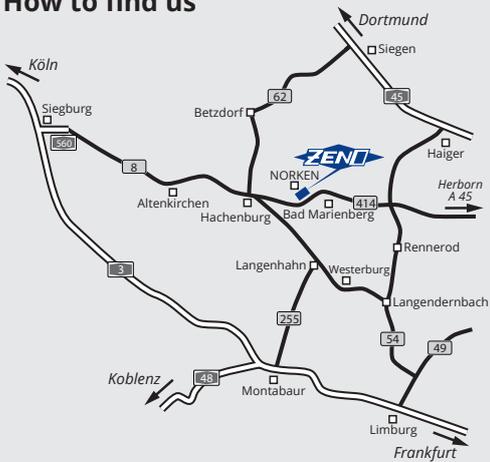
ZENO – a highly efficient company with modern production sites and a practice-oriented manufacturing program.



### The enterprise

For more than 35 years - as a member of the company group KRÜGER with more than 200 employees - ZENO delivers quality-recycling facilities throughout the world. On the sprawling premises you can find the commercial and technical office, diverse manufacturing and assembly halls, the paint shop, the cabinet construction, the pilot hall and an exhibition hall. On an area of 3.000 m<sup>2</sup> numerous second-hand machines are available for an immediate delivery. These machines are rebuilt and are sold with a factory warranty. A company owned fleet of several trucks, mobile cranes and installation vehicles is available for machine deliveries.

### How to find us



*Arrange an appointment with us and visit our exhibition centre with pilot plant for experimental purposes in Norcken!*

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An enterprise of the group



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