



ZERKLEINERUNGSMASCHINENBAU NORKEN GmbH

A term for quality and future-oriented technology



Shredders, conveyor and screening equipment, complete plants for processing sawmill residues and waste wood



SHREDDING



SORTING



CONVEYING



STORING

www.zeno.de



Your partner...

...for waste wood disposal in sawmills, waste wood recycling, bark and chip processing plants, combustion and silo plants. Another strength of ZENÖ is, thanks to the long experience in sawmills, the planning, development and implementation of tailored solutions for the waste wood disposal.



Shavings, wood chips



Logs



Long pieces of waste wood



Short pieces of waste wood



Bulky waste



Bark bundles



Roots



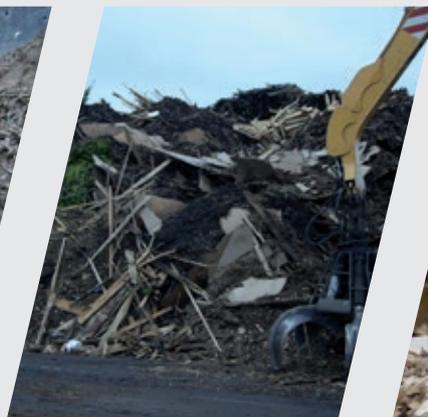
Fresh wood



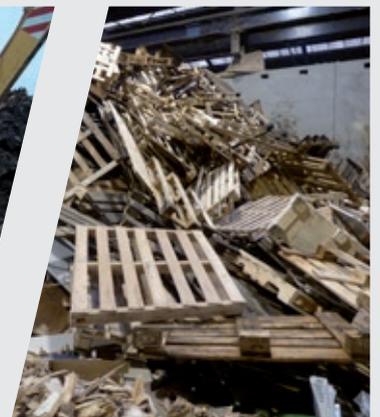
Chipboards



Pre-crushed waste wood



Bulky waste



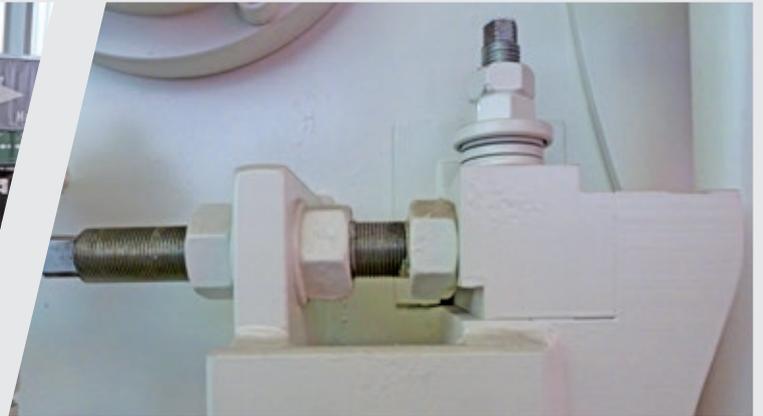
Palettes

Waste wood disposal in sawmills

The product spectrum ranges from the extremely robustly built vibrating table, the also with vibrating technique working vibrating feeder and the trough chain conveyor, which masters long distances, gradients and angulations without problems to drum screens and vibrating screens. Thanks to decades of experience and optimization all these products for the waste wood disposal ensure reliable service.



ZENON drum chipper type ZTH



Cutting gap adjustment device



Infeed rollers of the drum chipper



Sawmill wood treatment plant



Chain conveyor for chips and sawdust



Chain conveyor for silo feeding



Sawmill installation



Chain conveyor for waste wood treatment



Pre-shredding

The two counter-rotating solid steel rotors are available with different tool systems. These are massive, force-fit, 2-times reusable cutting tools or 4-times reusable cutting plates fixed on frictionally inserted tool holders. The 2-rotor-system ensures optimal throughput with waste wood, bulky waste and similar materials.



Pre-crusher for waste and fresh wood



Pre-crusher for waste wood, approx. 50 t/h



Waste wood treatment plant – in one step to 60 - 80 mm grain size



Mobile pre-crusher with Diesel engine



Pre-and post-shredding with metal separation



Pre-shredding with a single shaft shredder

Shredding and post-shredding

Besides recycling, energetic use as a renewable source occurs more and more. This is only possible through an efficient comminution of the raw materials for further processing. In addition, treatment techniques are necessary to meet the specific requirements of purity and of the comminution.



ZTLL with pre-switched stone trap



ZTLL for chipboard plants with lifting device



Mobile ZTLL with engine and chain conveyor



ZTLL for waste wood post-shredding with water injection



ZENO post-shredder type ZHM, in- and outfeed via chain conveyor



Hammer mill for post-shredding



Facilities

Exclusive manufacturing creates flexibility for the planning and execution of treatment plants for wood. Individual solutions are developed by our engineers working together with our customers. With its treatment plants for wood ZENON satisfies the customer's specific requirements.



ZENON plant with shredder type ZTLL and infeed hopper. Conveying of wood chips via chain conveyor into a silo with 1000 m³



ZENON infeed bunker with screening plant for RDF processing line "wood" in a cement plant



Waste wood treatment plant



Material handling in a processing plant



Moving floor system I



Moving floor system II



Moving floor system III



Chain dosing bunker with TKF chain conveyor

Screening, separating, conveying

Grain size classification, discharge of undesirable materials and conveying of materials are – besides shredding – the main ingredients of a complete deliverable ZENO wood treatment plant.



ZENO drum screen for screening sawdust in a sawmill



Disc screen for grain size classification of waste and fresh wood



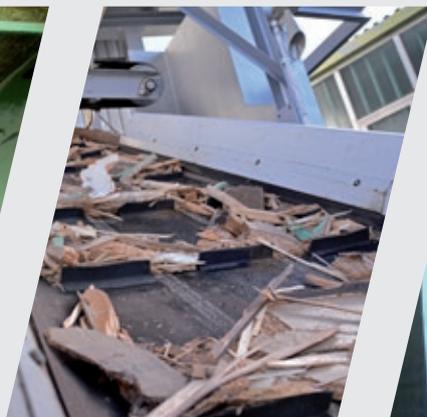
Oscillating screen for grain size classification of treated wood



ZENO vibrating dosing feeder with vibratory trough conveyor in a sawmill



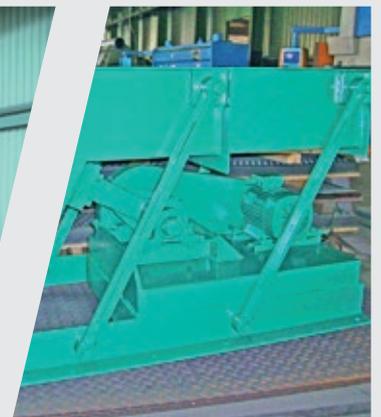
Chain conveyor for chip transport



ZENO belt conveyor ZFB



ZENO belt conveyors ZFB



ZENO vibrating trough conveyor



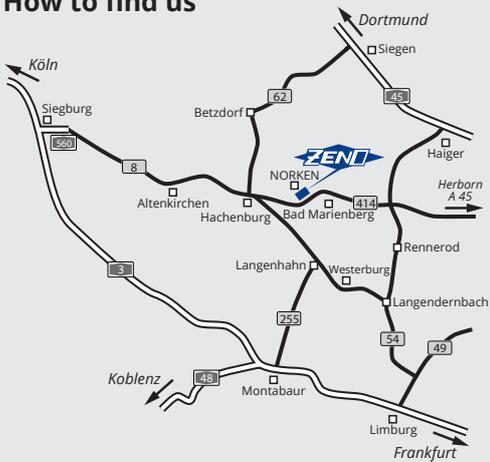
ZENO – a highly efficient company with modern production sites and a practice-oriented manufacturing program.



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 m² 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!



ZENO-Zerkleinerungsmaschinenbau Norcken GmbH
ZENO-Platz 1 · 57629 Norcken
Tel + 49 26 61 / 95 96 - 0 · Fax + 49 26 61 / 95 96 - 47
E-Mail: info@zeno.de · www.zeno.de

