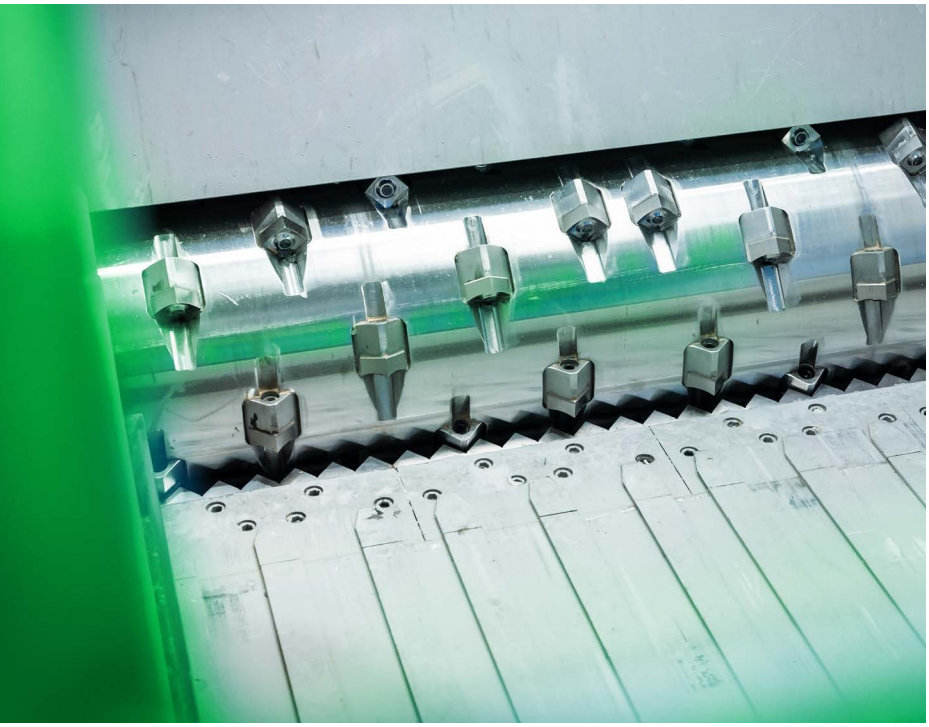
amis
RECYCLING TECHNOLOGY

ZWS

SINGLE SHAFT SHREDDER

ZWS-SERIES

The AMIS single-shaft shredders from the ZWS series are used in the plastics and wood processing industries to ensure economical processing of a wide variety of materials. The machines have been designed for heavy-duty use and reliability in continuous operation.



The ZWS series has a load-dependent hydraulic pusher that feeds the material to the rotor, in a horizontal movement, in a slightly inclined, position.

The material is shredded between the rotor and stator knives until it falls through the screen installed and bolted under the rotor. The replaceable screen defines the final grain size. The shredded material can be discharged via a conveyor belt, a discharge screw or pneumatically by means of an suction system.

- Roller-mounted hydraulic pusher with horizontal movement
- Bolted knives and knife holders
- Optionally with segmented base for particularly thin materials
- Aggressiveness of the rotor can be reduced or increased by filling pieces
- Can be combined in a 2-stage system with a granulator

SCAN ME!

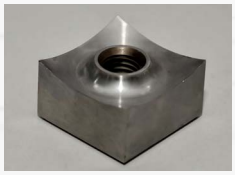
ZWS-SERIES

ZWS	600	850	1100	1400	1700	2000
Rotor Ø (mm)	404	404	404	404	404	404
Rotor length (mm)	600	850	1100	1400	1700	2000
Rotor speed (rpm)	100	100	100	100	100	100
Drive rotor (kW)	22 / 30	22 / 30	30 / 37	45 / 55	55 / 75	90
Drive hydraulics (kW)	1,5	1,5	1,5	7,5	7,5	7,5
Rotor knives (pcs.)	26	20 / 40	27 / 54	34 / 68	41 / 82	96
Stator knives (rows)	1	1	1	1	1	1
Cutting Chamber (mm)	540 x 480	820 x 830	1100 x 1040	1400 x 1380	1600 x 1660	1980 x 1660

Large gearbox
In relation to the drive motor, it is generously dimensioned with a factor of 2 to 2.5. The drive is provided by a drive motor and V-belts.

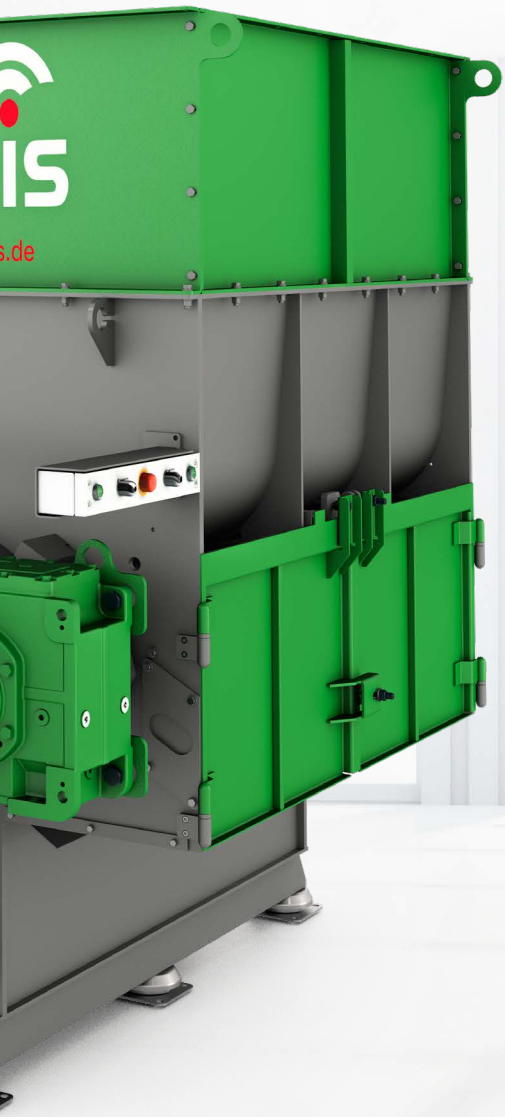
Hydraulic pusher
The hydraulic pusher is controlled by a load dependent two stage hydraulic system. From the ZWS 1400 model up, the reverse movement of the pusher is executed at a increased speed.

The rotor has a smooth, closed surface and is suitable for the processing of different products and materials.

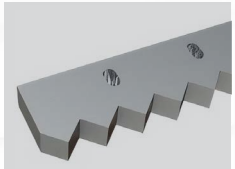


Rotatable cutting crowns
The knife holders are equipped with concave shaped, rotatable cutting crowns.

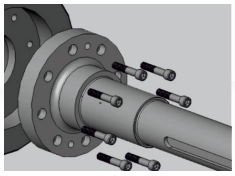
Segmented base and hydraulic pusher
They prevent very thin materials from getting under the hydraulic pusher and thus its jamming.



Bolted rotor knife holders and rotor knives
The rotor knife holders are screwed (and not welded) in a pocket. The rotor knives are also screwed into the knife holders. Changing the knives / knife holders is quick and easy using the puller included in the scope of delivery.

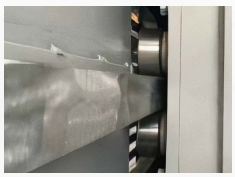


Adjustable stator knives
They guarantee a more precise cutting gap and therefore improved grinding quality.



Bolted rotor shaft ends
Simplifies repair work enormously. They also represent a predetermined breaking point to protect the machine from more serious damage.

Screen
It is firmly screwed to the housing. From the ZWS 1700 model, the screen basket is operated via a separated, 2-hand, hydraulic system. Maintenance work on the rotor, changing the screen, the rotor knives and the rotor knife holders can be done easily and quickly.



Pusher with heavy-duty steel rollers
The pusher of the ZWS series runs on oversized, heavy-duty steel rollers. This system prevents the pusher from tilting and increased wear.

OUR SERVICES

We offer comprehensive spare parts, repair and maintenance service.

SERVICE
Our qualified specialists draw upon many years of experience in handling various types of machines. We repair and maintain machines from all major manufacturers.

SPARE PARTS, REPAIR AND MAINTENANCE
AMIS supplies spare parts and wearing parts for all makes and offers overhaul, repair and maintenance work, if possible even on site.

OPTIMIZATION
Customer specific adaptations include, for example, special hoppers, zig-zag separators, roll feeders, noise protection housing, forced feeding via force feeding screws and much more.

TECHNICAL CENTER
Our in-house test center enables you to experience the quality of our machines and accurately simulate your process requirements.

WE PURCHASE YOUR MACHINE
We buy used granulators, pulverizers and shredders by all common manufacturers.

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