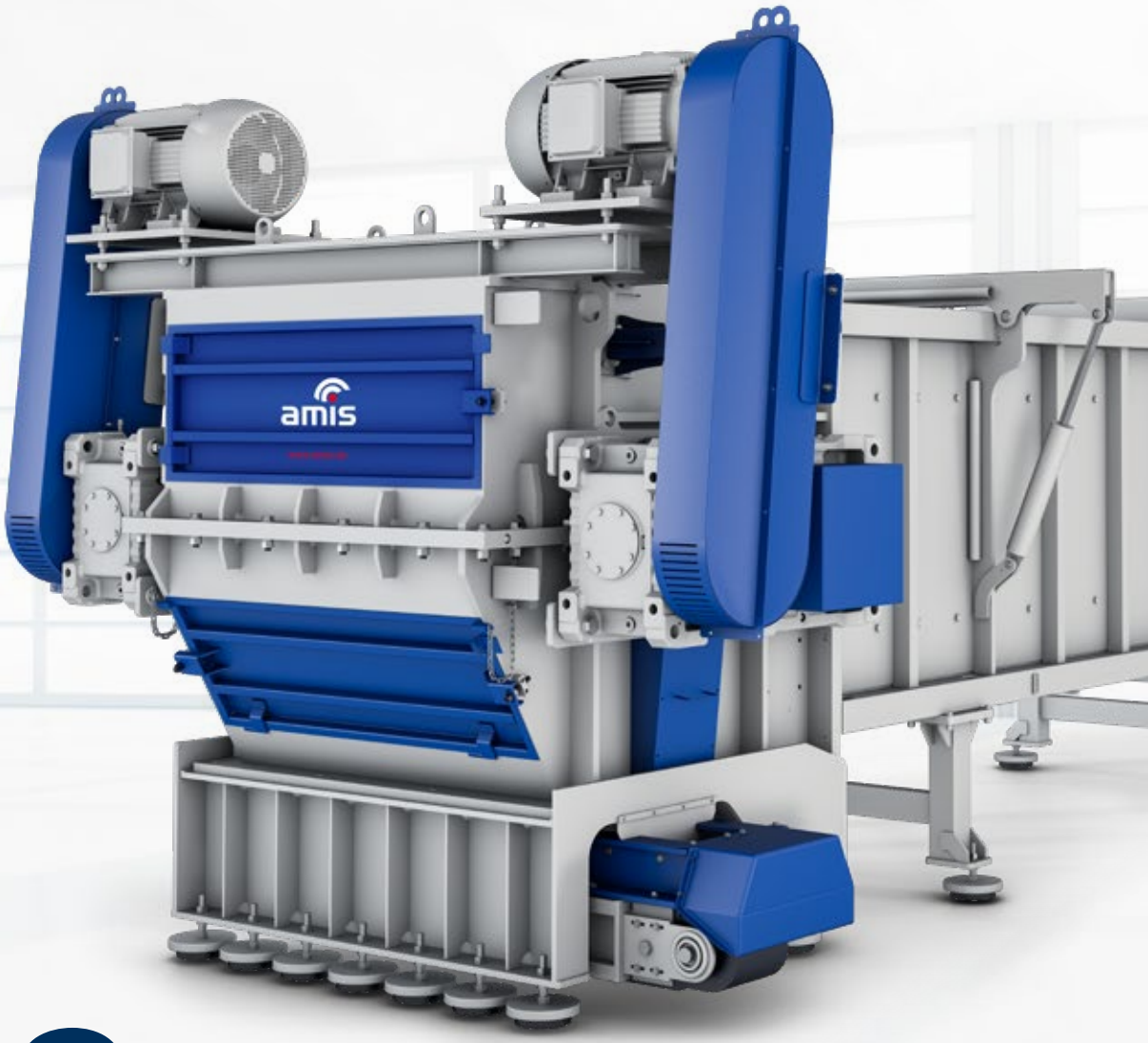
amis
RECYCLING TECHNOLOGY



ZRS

SINGLE SHAFT SHREDDER

ZRS-SERIES

The ZRS shredder is the world's first single shaft shredder capable of handling large diameter pipes (up to 1200 mm dia) without the need for pre cutting. The standard hopper accepts pipe lengths of up to 6 m.

The material is transported via the load-dependent controlled hydraulic pusher to the rotor. The slowly rotating rotor is equipped with cutting crowns which, together with the stator knives in the housing, shred the material.

It is driven by a drive motor, V-belts and a generously dimensioned gearbox.

The main focus of the ZRS shredders is the shredding of large diameter pipes or bundles of smaller pipes and profiles made from HDPE, PP and PVC. The machines can also be used for recycling of other plastic materials such as large lumps, stacked wheelie bins and pallets etc.

In combination with other size reduction equipment such as granulators and pulverizers we are able to provide a complete turn-key recycling solution.

ZRS-SERIES

ZRS	800	1000	1500
Rotor Ø (mm)	850	1050	1450
Rotor length (mm)	800	1000	1500
Rotor speed (rpm)	40	36	23
Drive rotor (kW)	2 x 37	2 x 45	2 x 55
Drive hydraulics (kW)	11	15	15
Rotor knives (pcs.)	60	81	136
Stator knives (rows)	1 oder 2	1 oder 2	1 oder 2
Max. pipe size (mm)	3500/6500 x Ø 630	6500 x Ø 850	6500 x Ø 1200
Weight (kg)	12800	17500	24000

Maintenance doors for easy rotor access.

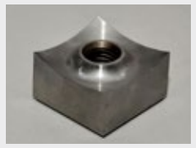
Pneumatic locking of the infeed trough

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

The rotor
The rotor has a smooth, closed surface. It is ideal for processing pipes and profiles of different lengths and diameters.

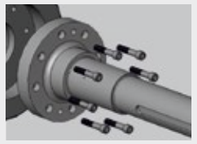
Bolted rotor knife holders and rotor knives
The rotor knife holders are screwed (and not welded) in a pocket. The rotor knives are also screwed into the knife holders. Changing the knives / knife holders is quick and easy using the puller included in the scope of delivery.

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

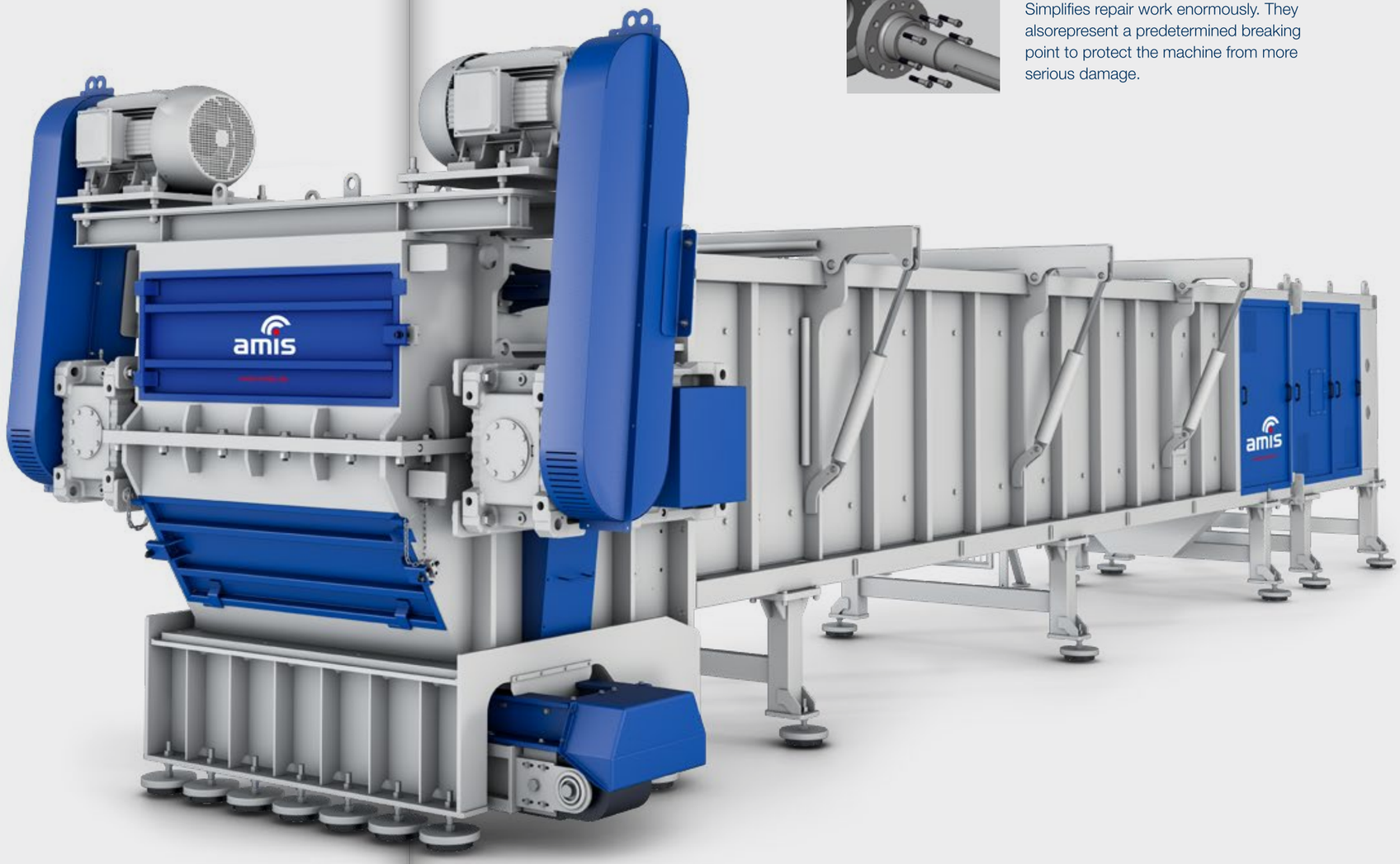


Rotatable cutting crowns
The knife holders are equipped with concave shaped, rotatable cutting crowns.

Feeding trough
The hydrualic pusher guarantees continously feeding of the material to the rotor.



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



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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