

Solutions with ZERMA size reduction technology

ZERMA single-shaft shredder ZIS 1500 with water injection

The shredders of the ZIS 1500 series with water injection are suitable for the pre-crushing of highly contaminated film bales (e.g. agricultural films).

Since shredders are much less susceptible to dirt, such as granulators, this is also suitable for the use of the first washing process of the contaminated material.

The foils are delivered in baled goods. For material feed, the bales are placed in the large-scale hopper of the shredder by means of conveyor belts or forklifts.

There, the bales are dissolved and washed out. During the shredding of the material and through the water injection about 60 - 70% of the impurities (sand, stones, etc.) are washed out. Another advantage is that the material discharge is more uniform and controlled through the water. A Zick-Zack screen is also used, which is especially suitable for this application.

The material is removed from the shredder by means of a transport screw and further processed in another washing plant.

The machine runs successfully in practical use in South Africa.

About ZERMA:

With more than 70 years of experience, ZERMA is one of the leading manufacturers of high-quality size reduction machinery.

Covering a range of granulators starting from small slow speed granulators to versatile large heavy-duty granulators including small and compact granulators with integrated blower and soundproofing. Adding a complete line of shredders, ZERMA recycling machines range in drive power from 2.2 kW up to 200 kW and cover the whole spectrum of plastics size reduction applications.

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Picture: Single-shaft shredder ZIS 1500 with water injection