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ZERMA ZCS shredder integrates shredder and granulator technologies

ZERMA ZCS – combines a single-shaft shredder with an efficient granulator

Installing a recycling system for in-house scrap, such as rejected parts and purgings, into an existing location can be challenging. For this reason, ZERMA, with headquarters in Shanghai and a U.S. office in Crystal Lake, Illinois, has developed a stacked shredder-granulator combination.

ZERMA, a leading supplier of size reduction equipment to the plastics industry, has been developing and producing granulators and shredders for more than 50 years.

The ZCS series combines the proven design and high torque of the ZERMA single-shaft shredder with a highly efficient granulator, according to the company, providing a compact size reduction system.

The shredder and granulator are individually driven, allowing for better control of the complete process. The shredder is driven via a gearbox on the shaft end on one side of the rotor. The granulator is driven by a separate belt drive. To increase efficiency, a ZERMA Smart Drive system is used to constantly monitor the load and adjust the current accordingly to reduce electricity consumption.

Equipped with a hydraulically operated ram, the shredder feeds the material automatically into the rotor's cutting chamber by load-related controls. The hydraulic system is equipped with high-pressure valves and volumetric flow controls that are set to the demands of the input materials.

The ZCS1000's combined electrical power of less than 50 kilowatts makes it suitable for plastics converters. In combination with a ZERMA Smart Drive, this series is designed to run efficiently as the current is reduced when there is no load.

Typical applications for the ZERMA ZCS include injection molding, rotational molding, blow molding, recycling, extrusion and thermoforming.

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: ZCS Range with special hopper

