

Shredder Model RML - Pre-crushing of Bulky and Thick Walled Material

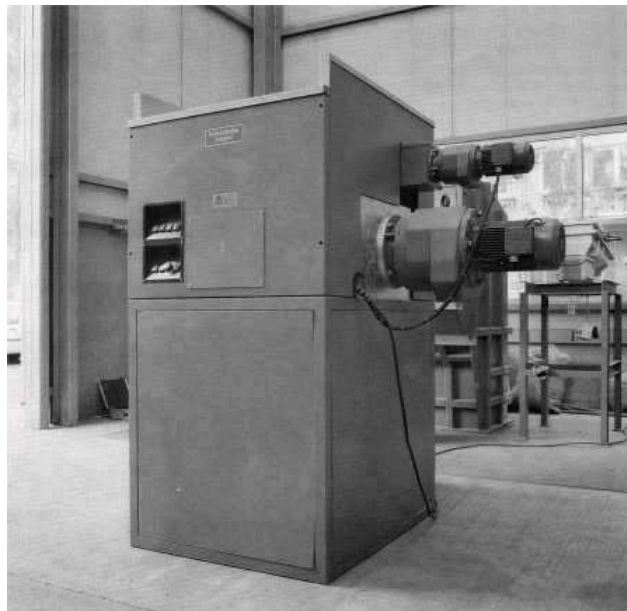


The new series of small shredders has been designed for applications such as packing material, injection moulded pieces, blow moulded pieces, whirl sintered pieces, etc. - all applications where relatively bulky or thick-walled material has to be size-reduced before being fed to the following processing plant.

Mode of operation: Two shafts fitted with very wear resistant shredding tools rotate slowly in opposite directions. The tools grip the material and size-reduce it with a cutting, tearing and breaking action into pieces about the size of playing cards or occasionally strips.

The feed of extremely bulky pieces of large volume can be carried out with a pressing device. On model RML 300 this is being carried out manually, the larger models are equipped with motorized pressing devices.

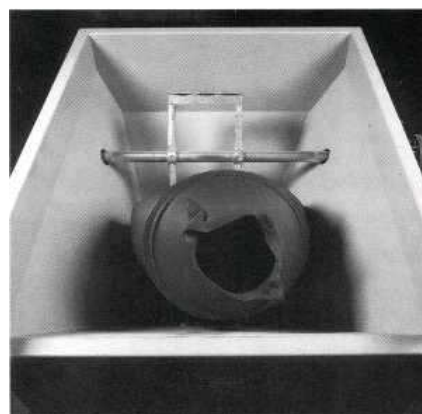
Construction: The generously dimensioned drive system of the RML shredders accounts for the very high capacities that can be achieved - even when relatively solid pieces are being fed. If, however, a certain piece of material or some foreign matter overloads the unit, the high amperage overload cutout switches off the shredder motor for a short time. This is



followed by a short period of reverse operation before the unit is re-switched into forward mode again. This sequence is repeated, until the piece of material is reduced. The electronic control can differentiate between "hard" and "soft" stops: the difference between thick-walled material that can be reduced by the unit and hard foreign matter that cannot.

The "inherent problem" of this type of reduction unit - the very much feared shaft fracture - is prevented in two ways: firstly, the choice of a new type of high strength material for the shaft and secondly the use of an elastic coupling to absorb the overload shock caused by foreign matter suddenly blocking the unit.

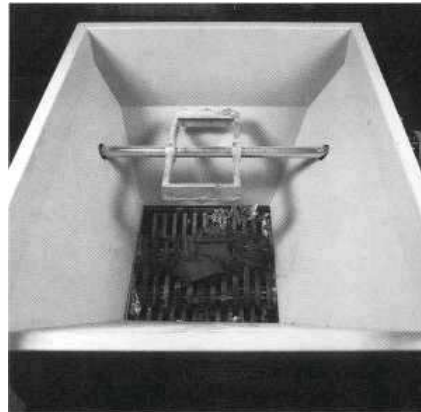
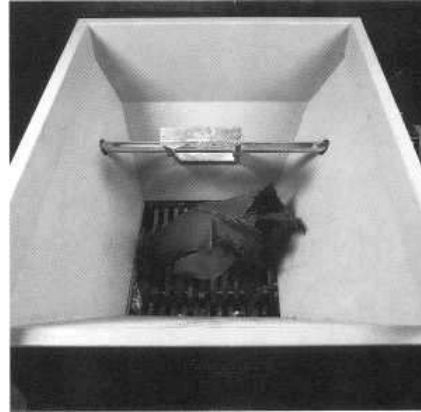
Measures to reduce wear and to increase the working life have also been taken. Two examples of this new technology: the shaft has been constructed from special multi wedge profile which has been tempered for high strength. The shredder discs have been made from tempered high quality steel as used for knives.



The shredders of the RML series can be combined with various follow-up devices:

- a container for collecting the reduced scrap, fitted below the shredder;
- a conveyor belt for discharging the reduced material;
- a follow-up granulator for producing re-usable granules.

A combination of shredder/granulator, specially designed for the plastics processing industry, is presently being developed.



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