# THE HOME OF SIZE REDUCTION

COMPANY PROFILE





GRANULATORS



SHREDDERS



PULVERISERS



**SPECIALISED MACHINES** 



ACCESSORIES



**SPARE PARTS** 

THE NAME ZERMA COMES FROM THE GERMAN WORD ZERKLEINERUNGSMASCHINEN, TRANSLATING TO "SIZE REDUCTION MACHINE". SINCE THE COMPANY WAS FOUNDED IN 1943, THIS HAS REMAINED OUR MISSION.

With more than 70 years of experience ZERMA is a leading manufacturer of size reduction machinery. ZERMA has traditionally focused on the development and production of size reduction machinery for the plastics industry. However, today ZERMA has expanded into the related

industries of tyre, wood, e-waste and MSW/RDF recycling. Our core strength is as a machinery and component producer. As such we are an ideal partner for systems integrators and OEM projects. We remain committed to the improvement and development of size reduction machinery.







GSL 180 GSL 200 GSL 300 The slow speed granulators in the GSL range are mainly used in injection and blow moulding processes as beside the press machines to grind runners and sprues. The machines can be used for rejected products in the inline recycling process as well. Different hopper and base frame designs make it possible to integrate the machine with most types of injection moulding machines and robots.



## GSE

GSE 300 GSE 500 GSE 700 The GSE series of machines are designed as economical granulators for in-house recycling. The aggressive tangential infeed and advanced cutting geometry of the GSE series allows bulky hollow parts to be ground. The GSE granulator series achieves a high quality regrind independent of the material type or form such as injection moulded parts, blow moulded parts, profiles, sheets, film, etc.

# GSC / GST

GSC 300 GSC 500 GSC 700 GST 250 GST 400 The GSC series compact soundproofed machines are mainly used in inline operations or central granulators for processing of thinwalled products, or runners and sprues. With different rotor designs and a wide variety of options the machines can be tailored for many different applications. The GST series with extremely tangential cutterhouse and aggressive rotor design is purpose-built to accept and reduce large volume containers without "bouncing" or bridging.



## GSH

GSH 350 GSH 500 GSH 600 GSH 700 GSH 800 GSH 1100

The wide range of rotors and hopper styles allow the GSH machines to be tailored to almost every application in the plastic recycling field. The GSH heavy duty granulators are mainly used as central granulators for in-house recycling applications to process thick walled parts in one step or as a second step granulator after a shredder to reach higher throughput rates.



GSP

Conventional granulators have substantial problems handling long pipes and profiles. Therefore Zerma developed the GSP range. Thanks to the almost level feeding hopper, long pieces can be fed easily. While the machine is operating there is no risk of blocking, in case of congestion no more material will be accepted by the machine. Once the grinding chamber is empty the machine will accept material again.





# PRODUCT OVERVIEW SPECIALISED MACHINES





- **INJECTION MOULDING**
- **BLOW MOULDING**
- **EXTRUSION**
- THERMOFORMING
- FILM
- **ROTATIONAL MOULDING**
- **GENERAL RECYCLING**
- **POST-CONSUMER RECYCLING**
- **RUBBER**
- WOOD
- **E-WASTE**
- **MSW / RDF**



### ACCESSORIES

#### CONVEYORS

ZERMA offers a large variety of conveyor belts, either as feeding belts for shredders and granulators, or as discharge belts to move material from the first step of shredding to a granulator in a twostep recycling process.

#### **BLOWER & DE-DUSTING SYSTEMS**

ZERMA offers a complete program of suction systems to discharge material from the machines. These systems include blowers, piping, cyclones and bag filling stations.

#### **METAL DETECTION & SEPARATION**

In order to create the best output material it is important to make sure the material is free from contamination such as metal. ZERMA offers a wide range of products to detect and remove various kinds of metal contamination.

#### SCREENING

It is always important to achieve a well defined output size. ZERMA offers a range of screening solutions for different materials and throughputs.

#### FORCE FEEDING

Increasing the throughput of the ZERMA GSH granulators when used with loose materials. This system forces the material into the cutting chamber and avoids the problem of material 'dancing' on the rotor.

### SPARE PARTS

#### **BLADES**

A granulator performs best and most economical when the blade is sharp. Regular knife changes and correct setting of the cutting gap help ensure a good final result and reduced power consumption.

#### SHREDDER KNIVES

The ZERMA shredder knives can be turned once one side is worn out, this helps increase the blades lifetime. For new blades, contact Zerma Africa.

#### **PULVERISER TOOLS**

The Pulverisers can be equipped with either segments or one piece grinding discs, both can be resharpened. If you need help resharpening or replacing them contact Zerma Africa.

#### SCREENS

The right screen size can make a big difference in the performance of a machine, and sometimes you just need a new screen fast.

#### **OTHER STANDARD PARTS**

From bolts to V-belts, there are many more parts to a ZERMA machine than knives, screens and rotors, but the spare part service is the same. We keep most standard parts in stock available for a fast delivery.



For more information email us at info@zerma.co.za

