

NEUE  
**HERBOLD**

# *Range of Products*



# Granulators

## SM

**Start-Up Lumps, Head Waste, Thick Walled Material, Fibres, Film Blanket Waste and Purgings**

Heavy duty with versatility:  
The heavy duty SM series granulators are suitable for size reduction of all types of cuttable materials that are able to be mechanically cut.

Solid pieces (thick sheets), start-up pieces (lumps) and light hollow items (crates and containers) are size reduced with a considerable high throughput.

The SM series is available with various accessories and auxiliary equipment which enables integration into all kinds of recycling systems and production processes.

Available machine sizes:  
Rotor diameters: 300 mm to 800 mm (12" to 32")  
Working width: 300 mm to 2000 mm (12" to 79")

## LM

**Film, Waste Hollow- and Injection Moulded Parts**

**Peak performance utilizing minimum space:**

Due to compact construction, the LM series can deliver ideal performance at minimum space requirements. Machines of this range can achieve high, reliable throughput and have the advantage of good accessibility for cleaning and maintenance. Blades can be changed quickly and easily. Specially designed safety protection is standard for all machines.

Available machine sizes:  
Rotor diameters: 160 mm to 600 mm (6" to 24")  
Working width: 300 mm to 1200 mm (12" to 47")



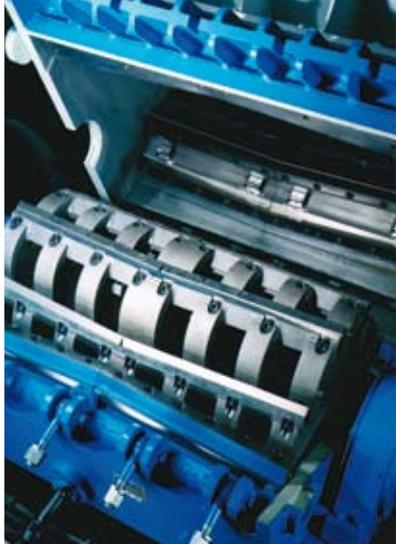
LM 600/1000



SM 800/1200



LM 300/800



### Double Cross Cutting

All NEUE HERBOLD granulators are designed with the double cross cutting action. The inclined angle of both the rotor and the bed knives ensures a constant cutting gap across the whole width of the knives.

### Advantages

- Less power requirement
- Better feed characteristics
- High throughput
- Lower noise level
- Less knife wear
- Greater granulate bulk density
- Narrower particle size distribution
- Lower fines characteristics

# Pulverizers

# ZM

### Pulverizing Precise and well proven

The well established and fully proven ZM pulverizer range is the NEUE HERBOLD solution for the fine milling of thermoplastics such as UPVC, LDPE, PS etc.

### The mode of operation is quite simple

A highly wear resistant serrated grinding disc rotates at high speed against an identical stationary disc. The disc design and the high rotation speed ensures an extremely efficient size reduction of the infeed material. The required powder size of the material to be pulverized is determined by an adjustable gap between the two discs.

Available machine sizes:  
Disc diameters: 300 mm to 800 mm (12" to 32")



ZM 800

# Granulators for Pipes and Profiles



## Ergonomically designed

Profile granulators of the SP-Series are equipped with a horizontal feed inlet chute to enable direct feed of bar-length, profile or pipe length thus eliminating the need for precutting, high level feed platforms or pit mounting of the granulator.

The multi-blade self-feeding rotor ensures a simple manual feed process and prevents the danger of flyback through the hopper.

Available machine sizes:  
Rotor diameters: 300 mm to 600 mm (12" to 24")  
Working width: 300 mm to 1000 mm (12" to 39")

**LP 450/1000**



## Tool change / Blade adjustment

Rotor and stator blades are adjusted outside of the machine in a jig while the granulator is in operation.

Necessary blade changes can therefore be carried out quickly and cost efficient.

# SR/LP

## Professional and reliable

This professional and efficient system is for the size reduction of thick and thin walled pipes and profiles made of thermoplastics like UPVC, HDPE, PP etc.

A unique construction results in simplicity of operation. A trough fitted with a forced feeding device controlled by a high current overload cutout enables horizontal feeding of the granulator. This is a special advantage in cases where long and bulky scrap is processed. Operation with a high level of sound protection and safety is ensured by interlocked cover to the granulator trough and housing.

Available machine sizes:  
Rotor diameters: 450 mm to 1600 mm (18" to 63")  
Working width: 600 mm to 1200 mm (24" to 48")



**SR 800/600**

# Recycling Machines and systems

**HM** Hammer Mills

**GS** Guillotines

**SB** Bale Breakers

**FS** Silos and Conveying systems

**IW** Intensive Washers

**FW** Friction Washers

**TM** Mechanical Dryers

**TB** Separation Tanks

## Complete Solutions from NEUE HERBOLD

Made to measure: Specially designed systems, tailored to customers requirements, for size reduction, separation and recycling of plastics and other valuable materials is a NEUE HERBOLD's speciality. In cases of complex and difficult individual demands the NEUE HERBOLD experienced engineering and design departments can assist in the formulation of a solution.

## Innovation and experience

For the recycling of contaminated or mixed plastics NEUE HERBOLD can always offer good value solutions.

Recycling installations engineered and supplied by NEUE HERBOLD are tailored to precise installation requirements and are designed to the latest technical and economical standards. High costs for waste management can be turned into profits when the NEUE HERBOLD technology is used to produce high-grade recycled materials.

## Shredder

# HZR

### Precutting

Neue Herbold single shaft shredders type HZR are mainly used for the precutting of plastic bales or lumps, wood, straw etc.



HZR 1300

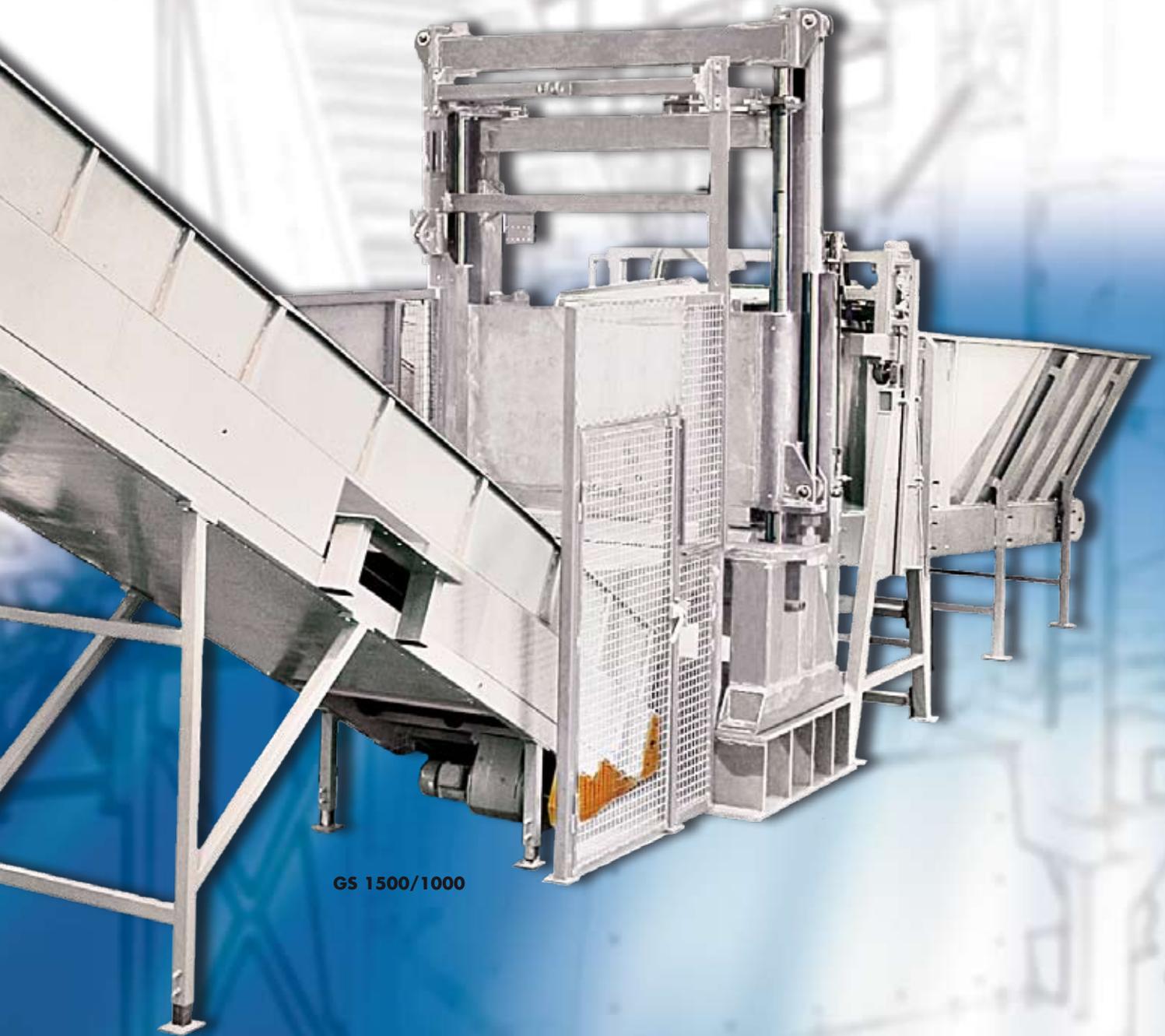
# Recycling Machines and systems

## **GS** Guillotine Cutters

### **Precutting**

Neue Herbold guillotine cutters are used for precutting of bales of multifilaments, fibres, sticky films as well as for large lumps, rubber bales etc.

Neue Herbold guillotine cutters are designed with a welded frame construction. The cutting blade is installed between 2 support frames; 2 oversized hydraulic cylinders move the blade towards the stator. High precision adjustments guarantee the complete separation of the cut portions. The cutting power can be adjusted to the material by adjustment of the hydraulic system. Optionally the cut portion can be set with a hydraulically operated counter flap.



**GS 1500/1000**

# Separation Tank

## TB

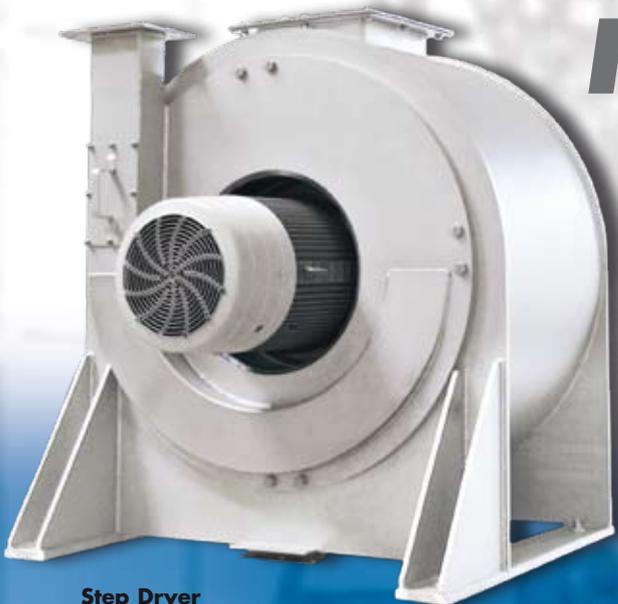
### Separation by Floatation

Separation tanks type TB are used for separation of materials that float (specific weight < 1, e.g. PE/PP) and materials that sink (specific weight > 1, e.g. PET/PVC)



TB 1600/5000

# Dryers and Intensive washers



Step Dryer  
T9/5

## TM

### Mechanical surface cleaning

Neue Herbold dryers (mechanical) type TM are installed after a wash process. They are used for the surface drying of film flakes (e.g. PE/PP)



TM 1006

## IR

### Mechanical surface cleaning and drying

The cleaning process separates contaminants such as paper or soil; such contaminants (PET flakes or other regrind materials) are then removed from the machine by an integrated cleaning system.

# Hammer Mills and Bale Breakers

## HM

Neue Herbold hammer mills series HM are available for a wide range of applications. With different tool designs for rotor shafts and machine housings the machines can process rigid plastics, electronic scraps, wood and mineral scraps (such as rockwool, glasswool etc.) at high production rates / low energy consumption.

Available sizes:  
Rotor diameters: 450 mm up to 1000 mm  
Working widths: 300 mm up to 1600 mm



HM 450/600

## SB

Neue Herbold screw shredders series SB are designed to process voluminous materials such as pallets, cable drums, insulation materials, porous concrete, chalky sandstone as first step of size reduction as well as for final opening or dosing system for bales of pressed materials. This allows separation of foreign materials in further downstream systems.

### Recycling system for porous concrete...



SB 560/2



HM 1000/1000

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