



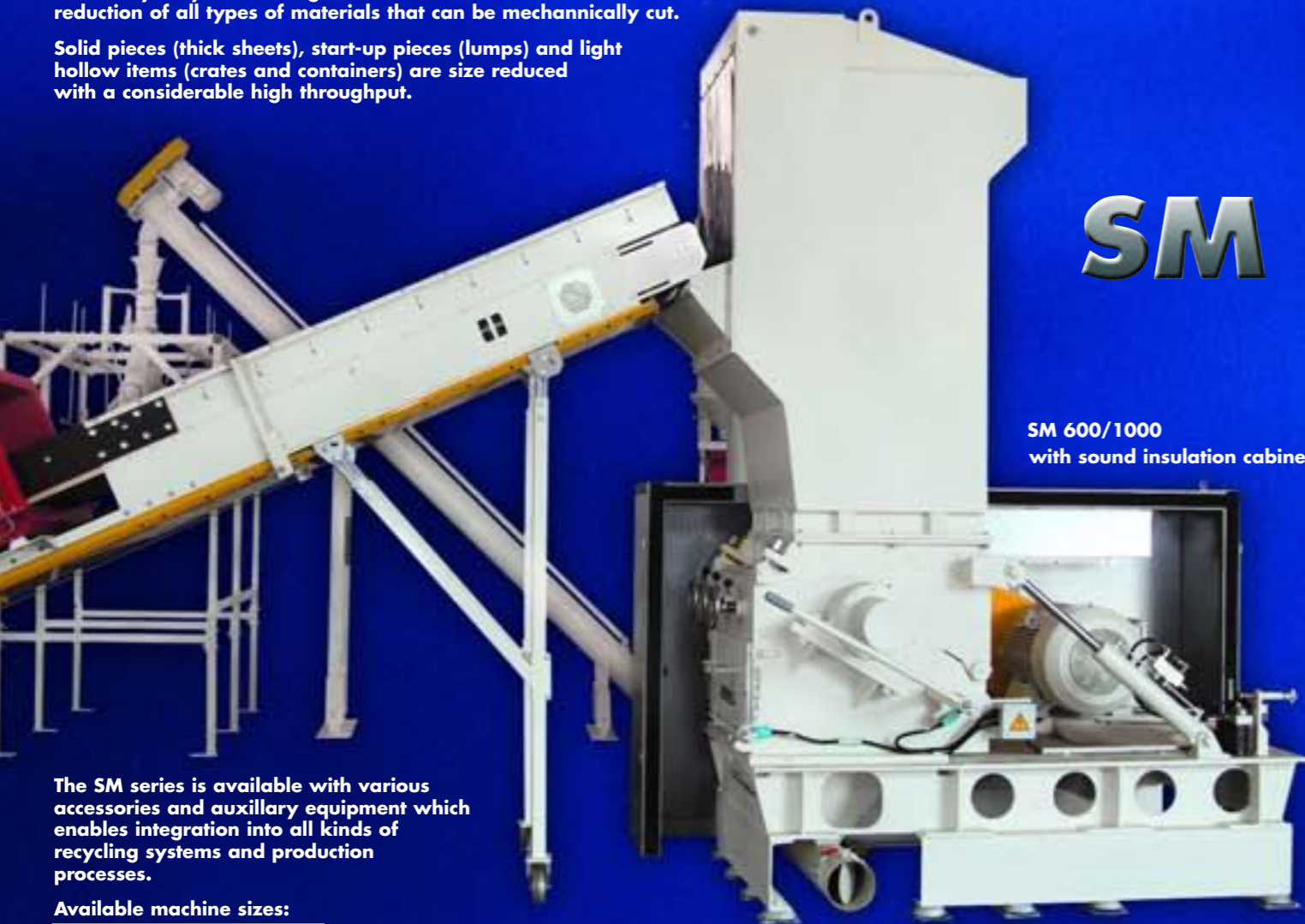
RANGE OF PRODUCTS

GRANULATORS

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 materials that can 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.



SM

SM 600/1000
with sound insulation cabinet

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 1000 mm (12" to 40")
Working width: 300 mm to 2000 mm (12" to 80")



Roller feed system / Nip-roll device
EB 1150

Advantages

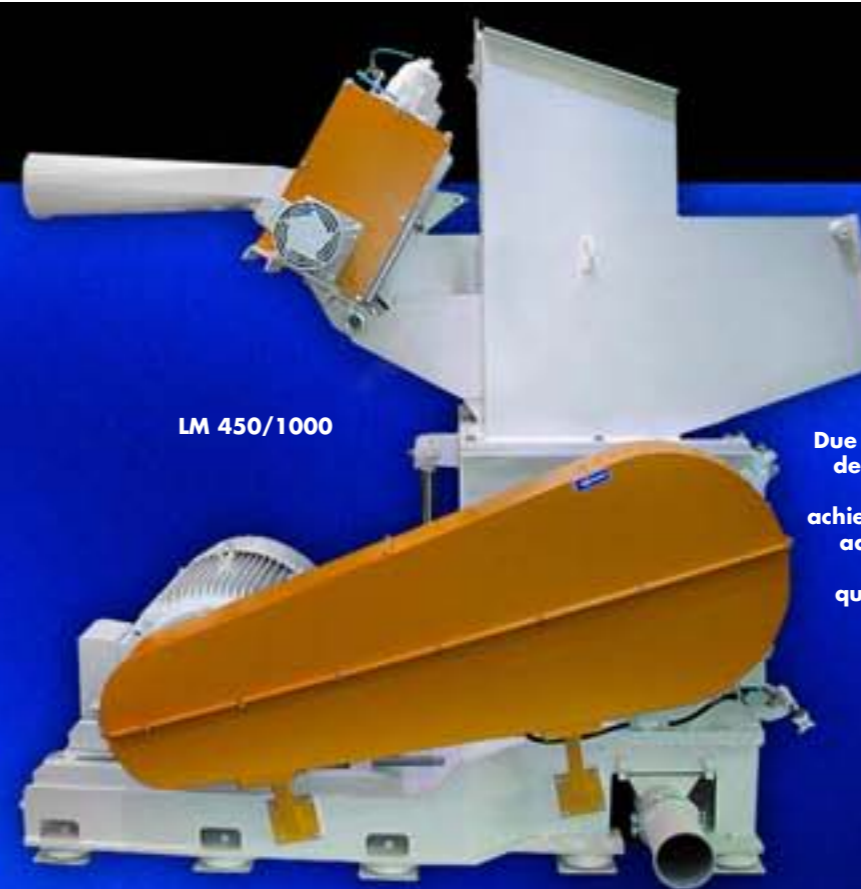
- Less power requirement
- Better feed characteristics
- High throughput
- Lower noise level
- Less wear on knives
- Higher bulk density
- Narrower particle size distribution
- Lower fines characteristics



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 entire width of the knives.



LM 450/1000

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 800 mm (6" to 32")

Working width:
300 mm to 1200 mm (12" to 48")

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 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



ZM 800

PULVERIZERS

GRANULATORS FOR PIPES & PROFILES

The NEUE HERBOLD Shredder type HZR 1300 is especially designed for an efficient pre-size reduction of thickwalled impact-resistant pipes with large diameters of up to 1300mm, as well as start-up lumps.

In a standard recycling line the HZR is followed by a granulator which grinds the pipes down to a free-flowing regrind. The new HZR together with the down stream granulator reduces the energy consumption by 20% - 50% compared with the single-step size reduction.

An additional advantage are the long-lasting cutting tools. This results in a high cost-efficiency of the NEUE HERBOLD HZR 1300.



HZR

HZR 1300/4



Example:
thick-walled PE pipe

Feeding

The pipes are laterally fed into the feed trough which is positioned in front of the shredder. From the trough the material is automatically fed to the shredder shafts with a load-controlled system.



HZR 1300/4



Ergonomically designed

Profile granulators of the LP-Series are equipped with a horizontal feed inlet chute to enable direct feed of bar-length profiles 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 40")



LP/SR

Professional and reliable

This professional and efficient system is designed 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 force-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 64")

Working width:
600 mm to 1200 mm (24" to 48")

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 1200/800



RECYCLING MACHINES & SYSTEMS

SHREDDER

HAMMER MILLS



HZR 1300/1

Precutting

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

HZR



HZR 1100/1



HM 1000/1600

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



Plant for recycling of
gas-/cellular concrete scrap



SB 560/2

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.

BALE BREAKERS

INTENSIVE WASHERS

Complete Solutions from NEUE HERBOLD

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.



Friction Separator
FA 600/3200

FA/FW



TM 1005

FW 560/3000

- Intensive Washers **IW**
- Friction Washers **FW**
- Friction Separator **FA**
- Mechanical Dryers **TM**
- Thermal Dryer **TT**
- Separation Tanks **TB**
- Silos and Conveying systems **FS**

T 9/5



IR

Mechanical surface cleaning and drying

The cleaning process separates contamination such as paper or soil. This contaminations are then removed from the machine by an integrated cleaning system.

TM

Mechanical surface cleaning

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



TM 1006

TT

Thermal drying

If required the mechanical dryer may be followed by a thermal drying process to reduce the moisture of the material. The thermal dryer type TT is the suitable device for this application.

To guarantee an efficient energy consumption the heating zones of the dryer are controlled in a sequential mode.

The standard dryer is supplied with an electrical heating aggregate.



DRYERS

SEPARATION

Cascade Sifter

The NEUE HERBOLD series cascade sifter is utilized for the separation of various types of materials. Necessary requirements for effective separation are differences in:

- Specific density
- Particle form
- Material surface characteristics
- Particle size



ZS

ZS 150/350



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 1600/3800



TB 2300/5600

Heavy contamination may be alternatively discharged through a valve or a chain scraper conveyor.

The floating material is usually discharged via screw conveyor.

ES

Pre-wash screw

The series ES is especially designed to discharge foreign substances in the material and for moistening of the material with water.

The pre-wash screw is mainly used in washing systems for protection of down stream systems like the intensive washer.



ES 405

FS

Film silo

The NEUE HERBOLD film silo type FS was especially designed for extremely thin up to thick film flakes.

The discharge capacity is controlled by the down stream recycling process.

FS 6000/2000



WT

Pre-wash drum

The pre-wash drum type WT cleans the shredded film from heavy contamination like stones, pieces of car tires etc.

WT 5045



SILO TECHNIQUE

N 49°13'27.742"
E 8°55'02.638"



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