



Slow Speed Granulators



ZERMA

The Home of Size Reduction



The completely redesigned slow speed granulators of the GSL series feature:

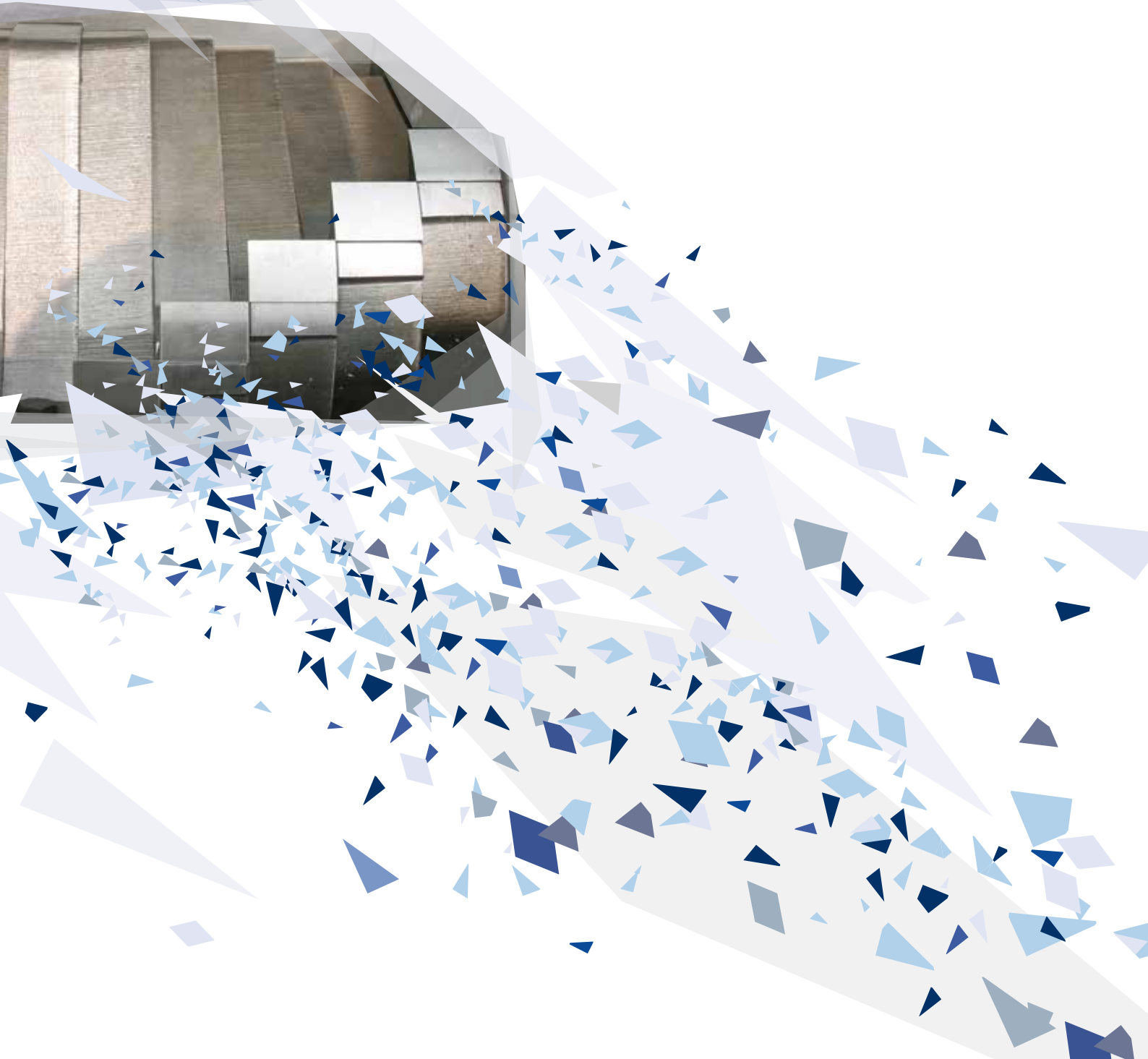
- Lightweight sound-proofed hopper
- Modular drive concept
- Spare part compatibility with the previous generation

Slow Speed Granulators for inline grinding of sprues and rejects

The slow speed granulators in the GSL range are mainly used in injection and blow molding processes as beside the press machines to grind runners, sprues and rejected products as well. Different hopper and base frame designs make it possible to integrate the machine with most types of injection molding machines and robots.

/ABS

POM



GSL series – slow speed granulators

The beside the press granulators of the **ZERMA** GSL series run at low speed to ensure low noise operation and a virtually dust free regrind. The specially designed rotor knives can be sharpened numerous times and due to their unique design do not require adjustment. The granulators are fed via a sound absorbing hopper which can be tailored to fit specific needs. All GSL machines offer connections for vacuum systems in order to directly reintroduce the regrind into the production process.



Advantages

- Special knife design makes adjustment unnecessary
- Easy access for maintenance and cleaning
- Slow rotor speed creates less noise and dust
- Easily customizable to suit different applications



GSL 300

Low speed – great results

All New GSL180 series

The redesigned GSL 180 series retains the advantages of previous generations such as low noise, easy maintenance and cleaning. The redesigned hoppers are well suited for manual and automated feeding. Multi-layer construction makes the hoppers lightweight yet sturdy with superior sound insulation.



Applications

The GSL slow speed granulators of the 180 series are mainly used in injection and blow molding processes as beside the press machines to grind runners and sprues. The resulting granules are then immediately reintroduced into the production process.



The modular design of the redesigned GSL180 series introduces new drive options. The granulators can be driven by either belt drive or gearmotor.

Ultimate Size Reduction Technology

GSL 300 series

The slow speed granulators in the GSL 300 range feature a staggered 300 mm diameter rotor with widths ranging from 400 to 800 mm. The rotor is directly driven by a geared motor. The low rotor speed reduces the noise level of the machine and creates less dust while grinding. The GSL 300 series granulators use the same type of multi-layer hopper as the smaller machine series. Depending on the requirements the machines can be fitted with different hoppers. Different base frame heights and designs allow the machines to be tailored for specific applications.



Applications

The GSL slow speed granulators of the 300 series are mainly used in injection and blow molding processes as inline granulators. But they can be used as low noise central granulators for small throughput requirements as well. The stronger design of the 300 series GSLs allow them to be used for heavier and thicker materials while offering the same advantages regarding low noise and dust as the smaller GSL machines.



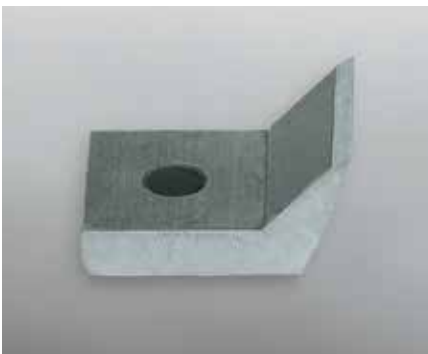
Ultimate Size Reduction Technology

Technical details – well thought out and efficient



Sturdy rotor system

The modular rotor star system allows combined with the staggered rotor blades ensure maximum cutting torque by reducing the number of concurrent cuts.



Special knives make adjustment work unnecessary

The curvature of the specially profiled rotor knives ensures a constant cutting circle maintaining the cutting gap after resharpening. Downtime for knife changes is therefore reduced. The GSL stator knives can be turned 4 times and can also be resharpened.



Easy accessibility

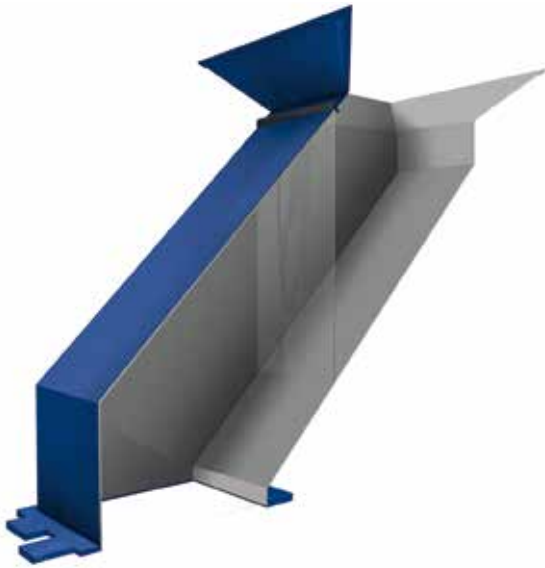
The already easy, comfortable and tool-less accessibility of the GSL series has been improved even more. Changes to the suction trough and screen holder make maintenance work easier and faster.



Quick-Snap-System

The **ZERMA** Quick Snap System allows the lower front plate section to be easily removed for cleaning and screen access. An electrical limit switch prevents the operation of the machine when this lower front plate is removed.





Sound insulated hopper

The GSL granulators are equipped with ultra-light multi-layer sound insulating hoppers built with materials and components from the aviation industry. This brings superior noise insulation while maintaining a low weight. The standard hoppers are designed for manual and robot feeding. For specific applications the hoppers can be tailored to customer requirements.

Options



Integrated blower

The GSL granulators can optionally be equipped with a blower system. This allows for flexible positioning of the machines and material handling.



High frame

The optional high frame allows flexible discharge into bags or bins.



Technical Specifications

Series GSL 180

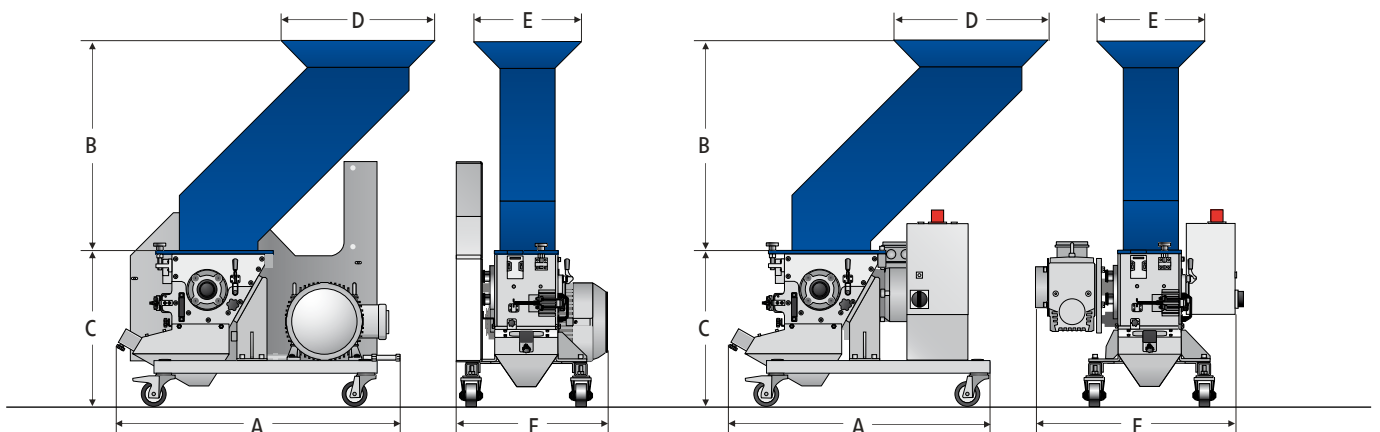
Type	180/120	180/180	180/300	180/430
Rotor diameter (mm)	180	180	180	180
Rotor width (mm)	120	180	300	430
Rotor speed (rpm)	150	150	150	150
Drive capacity (kW)	2,2	3	4	4
Rotor knives (pcs)	12	18	30	45
Stator blades (rows)	2	2	2	2
Screen size (mm)	>5	>5	>5	>5
Weight approx. (kg)	130	140	180	250

Dimensions with belt drive

Type	180/120	180/180	180/300	180/430
A (mm)	940	940	990	990
B (mm)	770	770	770	770
C (mm)	515	515	515	515
D (mm)	535	535	535	535
E (mm)	345	405	520	655
F (mm)	505	505	535	535

Dimensions with geared motor

Type	180/120	180/180	180/300	180/430
A (mm)	865	865	915	915
B (mm)	770	770	770	770
C (mm)	515	515	515	515
D (mm)	535	535	535	535
E (mm)	345	405	520	655
F (mm)	600	660	800	940

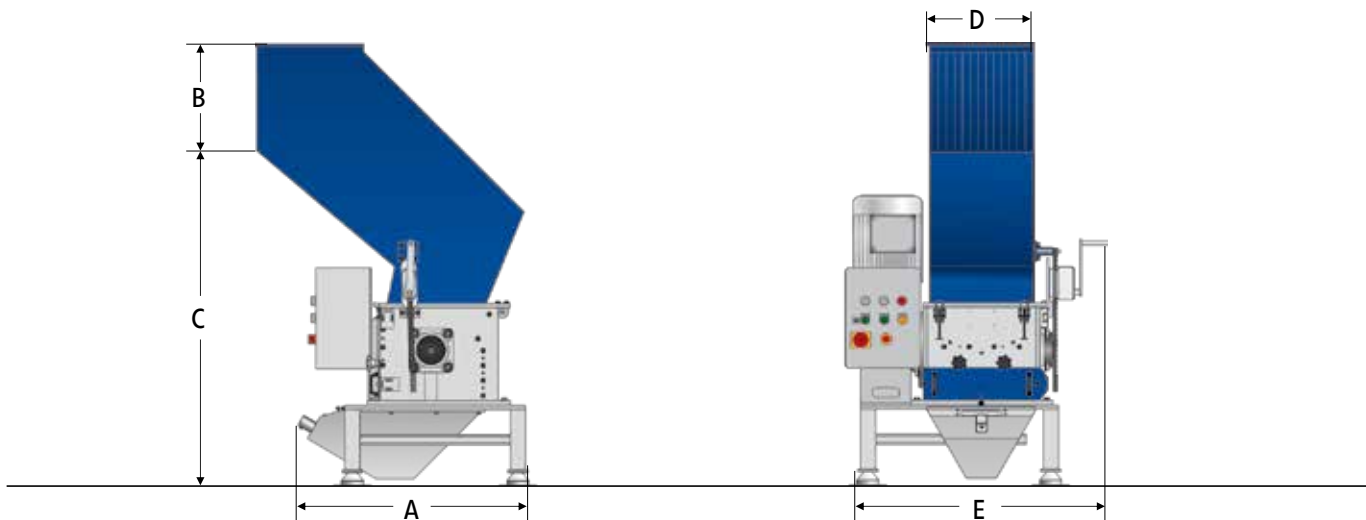


Series GSL 300

Type	300/400	300/600	300/800
Rotor diameter (mm)	300	300	300
Rotor width (mm)	400	600	800
Rotor speed (rpm)	150	150	150
Drive capacity (kW)	7.5	11	18.5
Rotor knives (pcs)	33	48	66
Stator blades (rows)	2	2	2
Screen size (mm)	> 6	> 6	> 6
Weight approx. (kg)	550	950	1100

Dimensions

Type	300/400	300/600	300/800
A (mm)	950	1125	820
B (mm)	485	485	485
C (mm)	1280	1280	1280
D (mm)	475	675	900
E (mm)	1035	1230	1635



The product range – the right solution for any application



GSE - Economical granulators

GSH - Heavy duty granulators

ZSS/ZPS - Generalpurpose shredders

With more than 70 years of experience, **ZERMA** is one of the leading manufacturers of high-quality size reduction machinery. With the wide range of machines **ZERMA** covers the whole spectrum of plastic size reduction applications.



ZXS - Heavy duty shredders

ZERMA – The Home of Size Reduction



Close to our customers

The global ZERMA network of branches and distributors



ZERMA Machinery & Recycling Technology (Shanghai) Co., Ltd

5 Xinjie Rd · Xinqiao Township Ind. Park

201612 Songjiang · Shanghai · China

Phone: +86 21 57645573 · info@zerma.com

zerma.com