

GSL

Slow - speed Granulators



ZERMA



GSL 180/120 - GSL 180/430 Range

The slow-speed granulators in the ZERMA GSL range from 180/120 to 180/430 have been specially developed as show-running grinders for applications in the injection-moulding sector.

The material to be granulated is fed via a sound-absorbing feed hopper that is available in a range of variants to suit the application.

The slow-speed granulators of this range are mounted on either low or high level baseframes, depending on application, and with suction trough/bag fill chute to suit. With these numerous options, the slow speed granulators can be tailored to an extremely wide range of applications.

In addition to the advantages common to all slow-running grinders such as low noise characteristics and near dust-free product, GSL 180/120 to GSL 180/430 stand out due to their special knife, rotor, 'quick-snap' opening and good accessibility features.



GSL 300/400 - GSL 300/800 Range

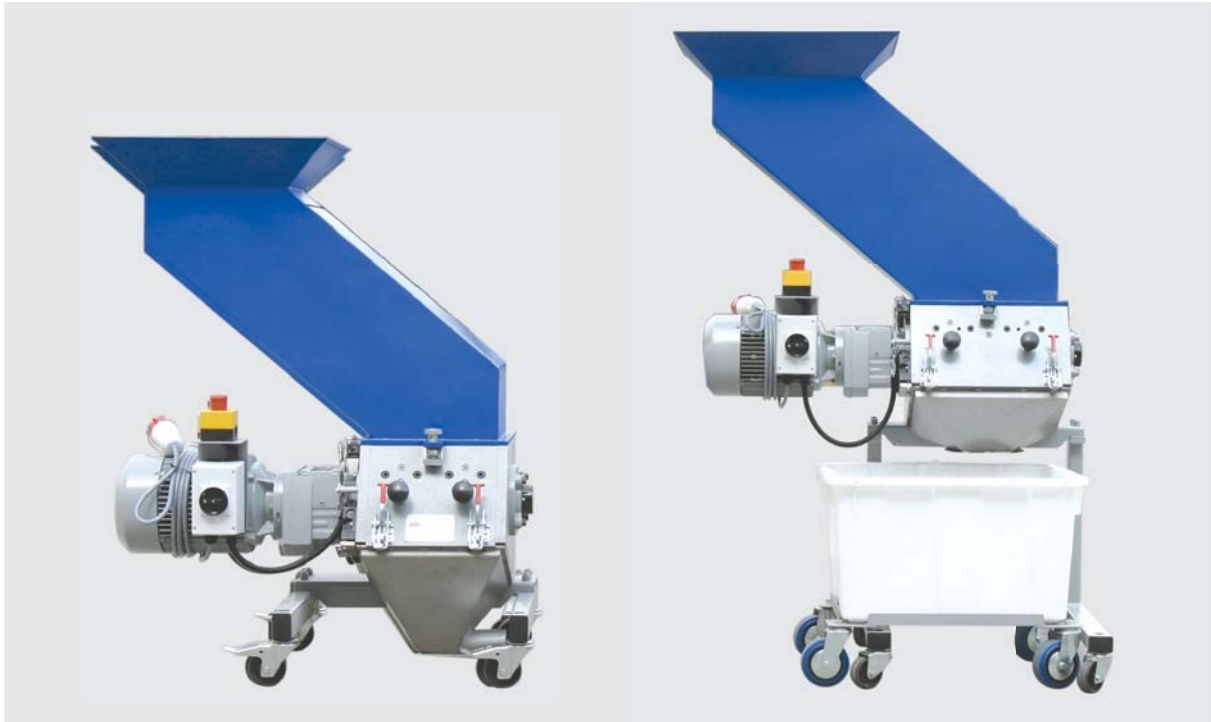


The granulators of the GSL 300/400 and GSL 300/800 range are primarily intended for grinding scrap mouldings and sprues from the injection and blow moulding sector.

In addition to all the important advantages and features described for the GSL 180 range, the GSL 300/400 and GSL 300/800 slow running machines are especially suitable for larger mouldings such as car door liners, bumpers or hollow bodies.

The V shaped arrangement of the staggered rotor blades holds pre-cut material in the center of the cutting chamber. This prevents material sticking to the side walls and considerably reduces wear on the grinding chamber walls when processing fibre and glass reinforced plastics. The staggered rotor blades means only one blade cuts at once thus increasing the cutting torque.





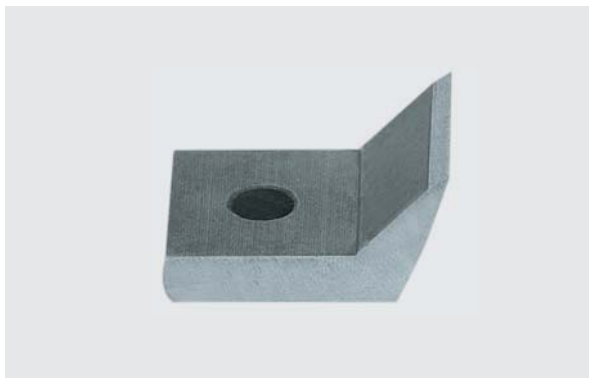
Newly designed more aggressive infeed

The rotor and cutting chamber of the GSL 200 series have been re-designed, creating a more aggressive infeed for hollow parts, such as bottles or other blow molded parts. The increased cutting chamber dimensions make feeding of bigger runners possible, thus making the GSL 200 series a very versatile machine.



Improved 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. Integrated sealing helps keeping the working area clean and dust-free.



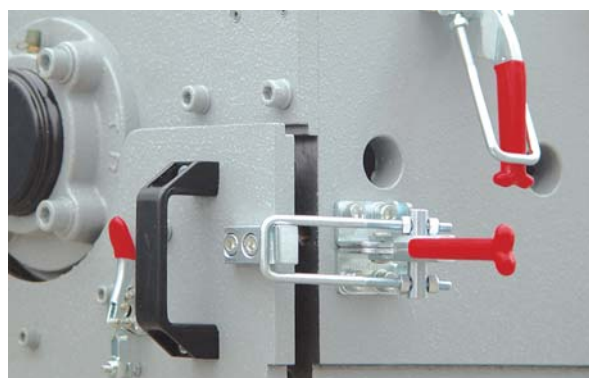
Special Knives make adjustment work unnecessary

The rotor is equipped with special knives. The curvature of the specially profiled rotor knives ensures a constant cutting circle after resharpening, maintaining the cutting gap. Awkward knife adjustment is no longer necessary. Downtime for knife changes is therefore reduced. The GSL stator knives can be turned 4 times and can also be resharpened.



Sturdy rotor system

The rotor shaft has bearings at each end and the shaft diameter is designed for the largest rotor width to enable use of a modular assembly across the width range. Staggered rotor blades means that only one blade cuts at once thus increasing the cutting torque. All of the machines in this range are therefore suitable for grinding more solid materials and thicker walled sprues.



Quick Snap System

The new ZERMA Quick Snap System allows the lower front plate section to be easily removed for granulator cleaning. The lower front plate section is held in position by two sturdy lever clamps. An electrical limit switch prevents the operation of the machine when this lower front plate is removed. The rotor outboard bearing is mounted in the fixed upper front plate section.



Good accessibility

The granulators can be safely opened in just a few steps and without the use of tools. The feed hopper is hinged and can be pivoted back. After removing the lower front plate section and the suction trough, the machine becomes easily accessible ready for quick cleaning in case of colour or material change.



Options GSL 180 and GSL 300 Range

The granulators of the GSL range can be equipped with numerous options for the most varied of intended applications. Here are some examples:



High model, mobile bin



High model, sack-fill



GSL 180/120 with integrated blower



GSL 300/400, high model

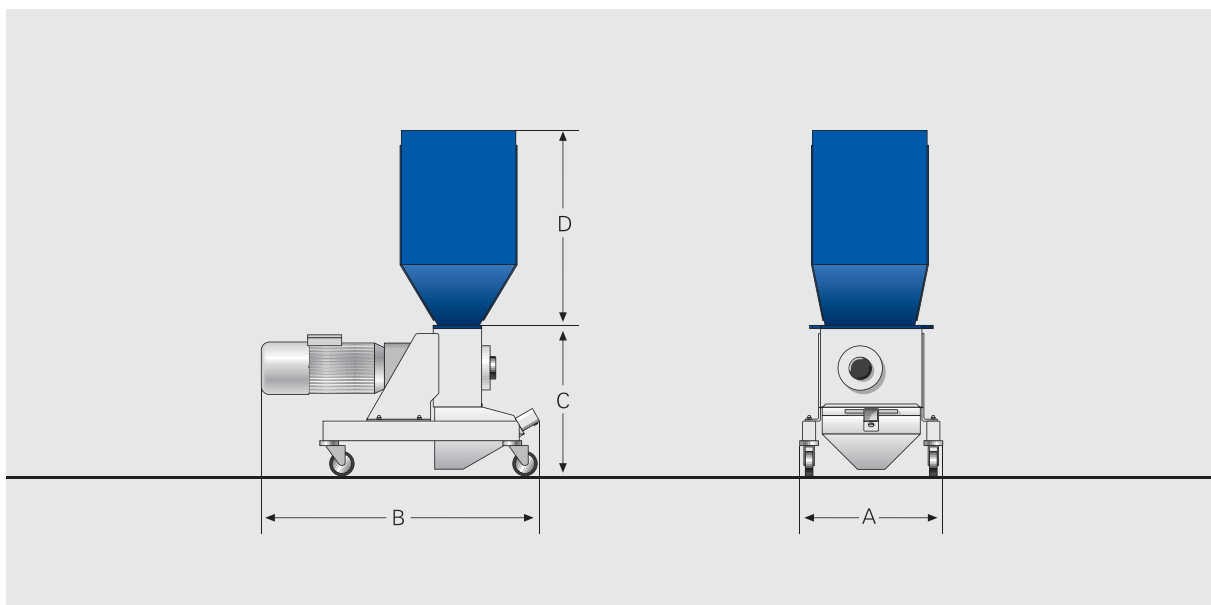
Technical Data GSL 180 Range

Technical Data

| Type GSL | 180/120 | 180/180 | 180/300 | 180/430 |
|------------------------------|-------------|-------------|-------------|-------------|
| Rotor speed (rpm) | 150 | 150 | 150 | 150 |
| Number of rotor knives | 12 | 18 | 30 | 45 |
| Number of stator knives | 2 (4 edges) | 2 (4 edges) | 2 (4 edges) | 2 (4 edges) |
| Rotor diameter (mm) | 180 | 180 | 180 | 180 |
| Width of the rotor (mm) | 120 | 180 | 300 | 430 |
| Feed opening (mm) | 350 x 350 | 350 x 350 | 350 x 350 | 430 x 270 |
| Opening cutting chamber (mm) | 270 x 120 | 270 x 180 | 270 x 300 | 270 x 430 |
| Drive capacity (kW) | 2.2 | 3.0 | 4.0 | 4.0 |
| Weight (kg) approx. | 120 | 130 | 150 | 170 |

Dimensions

| Type GSL | 180/120 | 180/180 | 180/300 | 180/430 |
|----------|---------|---------|---------|---------|
| A (mm) | 420 | 420 | 420 | 420 |
| B (mm) | 850 | 910 | 1030 | 1160 |
| C (mm) | 450 | 450 | 450 | 450 |
| D (mm) | 600 | 600 | 600 | 900 |

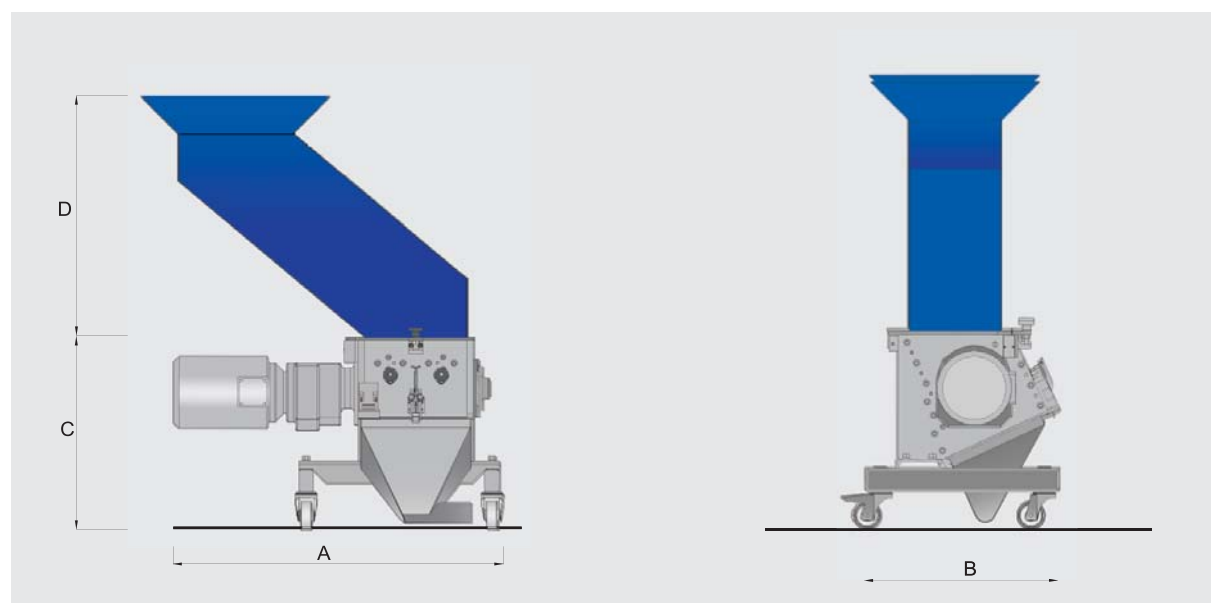


Technical Data

| Type GSL | 200/180 | 200/270 | 200/360 | 200/500 |
|------------------------------|-------------|-------------|-------------|-------------|
| Rotor speed (rpm) | 150 | 150 | 152 | 152 |
| Number of rotor knives | 12 | 18 | 24 | 33 |
| Number of stator knives | 2 (4 edges) | 2 (4 edges) | 2 (4 edges) | 2 (4 edges) |
| Rotor diameter (mm) | 200 | 200 | 200 | 200 |
| Width of the rotor (mm) | 180 | 180 | 360 | 495 |
| Feed opening (mm) | 240 x 240 | 240 x 240 | 460 x 240 | 540 x 240 |
| Opening cutting chamber (mm) | 250 x 190 | 250 x 280 | 250 x 370 | 250 x 505 |
| Drive capacity (kW) | 3 | 3 | 4 | 4 |
| Weight (kg) approx. | 175 | 205 | 235 | 270 |

Dimensions

| Type GSL | 200/180 | 200/270 | 200/360 | 200/500 |
|----------|---------|---------|---------|---------|
| A (mm) | 800 | 900 | 1080 | 1220 |
| B (mm) | 510 | 510 | 510 | 510 |
| C (mm) | 515 | 515 | 515 | 515 |
| D (mm) | 670 | 670 | 700 | 760 |



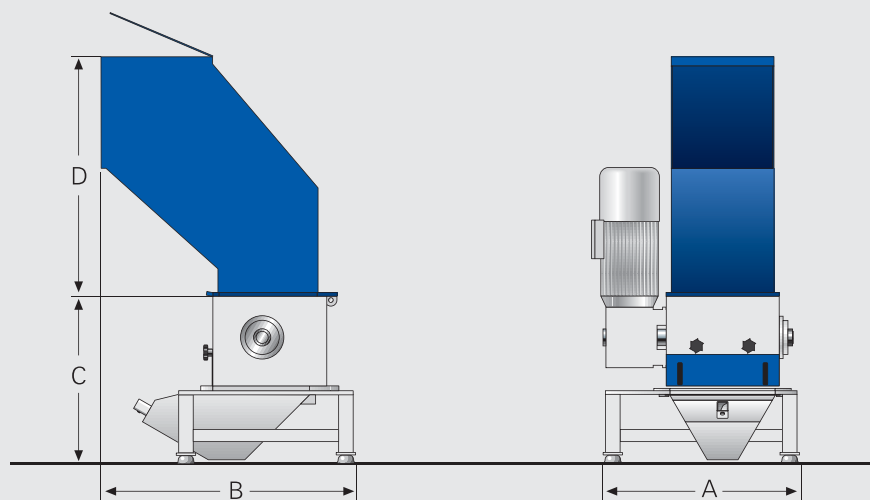
Technical Data

| Type GSL | 300/400 | 300/600 | 300/800 |
|------------------------------|---------------------|---------------------|---------------------|
| Rotor speed (rpm) | 150 | 150 | 150 |
| Number of rotor knives | 33 | 48 | 66 |
| Number of stator knives | 2 (4 cutting edges) | 2 (4 cutting edges) | 2 (4 cutting edges) |
| Rotor diameter (mm) | 300 | 300 | 300 |
| Width of the rotor (mm) | 400 | 600 | 800 |
| Feed opening (mm) | 400 x 400 | 600 x 400 | 800 x 400 |
| Opening cutting chamber (mm) | 400 x 400 | 600 x 400 | 800 x 400 |
| Drive capacity (kW) | 7.5 - 11 | 11 | 7.5 - 18.5 |
| Weight (kW) approx. | 550 | 890 | 980 |

Dimensions

| Type GSL | 300/400 | 300/600 | 300/800 |
|----------|---------|---------|---------|
| A (mm) | 820 | 1100 | 1410 |
| B (mm) | 1050 | 1010 | 1070 |
| C (mm) | 690 | 710 | 700 |
| D (mm) | 990 | 920 | 1050 |

Diagram :





GSL



GSC



GSE



GS



GSH



GSP



PM



ZS



With more than 60 years of experience, ZERMA is one of the leading manufacturers of high quality granulators. From the small slow speed granulators to the large high performance granulators and including special machines such as the front entry granulators for pipes and profiles, or the pulveriser system for fine grinding applications. With drive powers ranging from 2,2 kw to 200 kw, the ZERMA range of machines covers the whole spectrum of plastics size reduction applications. Just call us for more detailed information or visit our website from where you can download any required brochures in your own language.

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