The Energy Series

The central granulator for large-volume parts and high throughput

Wanner Technik GmbH

Model E 45.80 Standard >

The E-series granulators are perfectly suited to function as powerful central granulators as well as granulating systems built in-line grinding to process tops and tails as well as rejects generated during the manufacture of large blow-moulded parts.

A total of five cutting chamber sizes as well as various cutting chamber configurations and different feed hopper types allows to adapt the machines specifically to meet the customer's needs and to the type of material feeding.

Granulators in the E Series are equipped with an integrated sound enclosure into which the optionally available material transport blower can be integrated. Furthermore, vibration elements decouple the grinding chamber from the booth, thus dampening the vibrations.

The cutting chamber is designed as a robustly sized structure held together by welding and screws, the rotor shaft runs on oversized bearings.

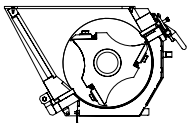
The granulator's cutting chamber and blower can be accessed quickly and easily without any tools through the wide-opening access doors. Cleaning the granulator is easy.

Advantages

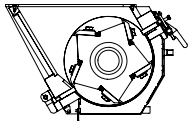
- Sound enclosure integrated as standard into machines of the series
- High regrind material quality thanks to Chevron-cutting design
- Aggressive rotor design for reliable pull-in action of very large parts, optional super-tangential grinding chamber available
- Five-edged rotor available for extra high throughputs
- Optional blower can be integrated into the sound enclosure
- Cutting chamber decoupled from the machine frame and sound insulating booth for effective insulation of the structure-borne noise
- Extensive accessories available, including various blowers, cyclones, rotative wheel gates, dust removal systems, conveyor belts, and much more

Technical Data

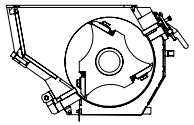
	E 30.50	E 35.40	E 35.60	E 45.50	E 45.80
Cutting chamber opening	300 x 500 mm	350 x 400 mm	350 x 600 mm	450 x 500 mm	450 x 800 mm
Rotor diameter	250 mm	300 mm	300 mm	400 mm	400 mm
Rotor knives	2 x 3	2 x 3 oder 2 x 5	2 x 3 oder 2 x 5	2 x 3 oder 2 x 5	2 x 3 oder 2 x 5
Stator knives	2	2	2	2 optional 3	2
Cut geometry	Chevron cut	Chevron cut	Chevron cut	Chevron cut	Chevron cut
Motor power	7,5 kW - 11 kW	11 kW - 18,5 kW	18,5 kW	18 kW - 30 kW	22 kW - 30 kW
Rotor speed	630 rpm	500 rpm	500 rpm	450 rpm	450 rpm
Weight (Standard)	1000 kg	1300 kg	1450 kg	1850 kg	2200 kg



< **Three-edged rotor with standard grinding chamber** – the universal solution for parts and sprues



< **Five-edged rotor with standard grinding chamber** – for larger throughputs

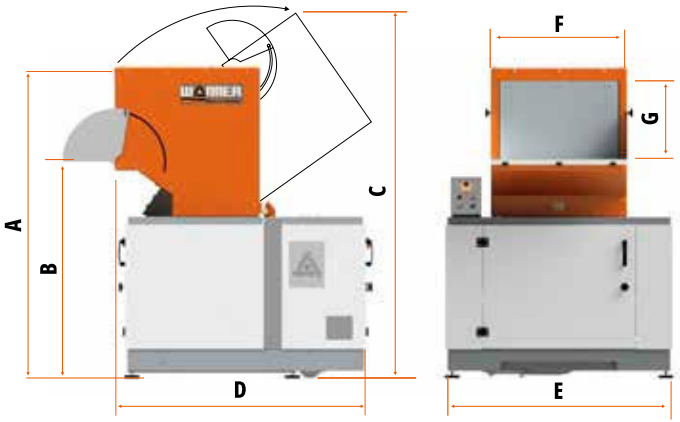


< **Three-edged rotor with super-tangential cutting chamber** – for processing especially voluminous parts

Dimensions

	E 30.50	E 35.40	E 35.60	E 45.50	E 45.80
A	1915	1960	1960	2100	2100
B	1405	1450	1450	1505	1505
C	2250	2320	2320	2520	2520
D	1625	1760	1760	1745	1745
E	1000	960	1260	1100	1540
F	505	430	630	510	810
G	430	430	430	545	545

(All dimensions in mm, rounded, subject to technical modifications)



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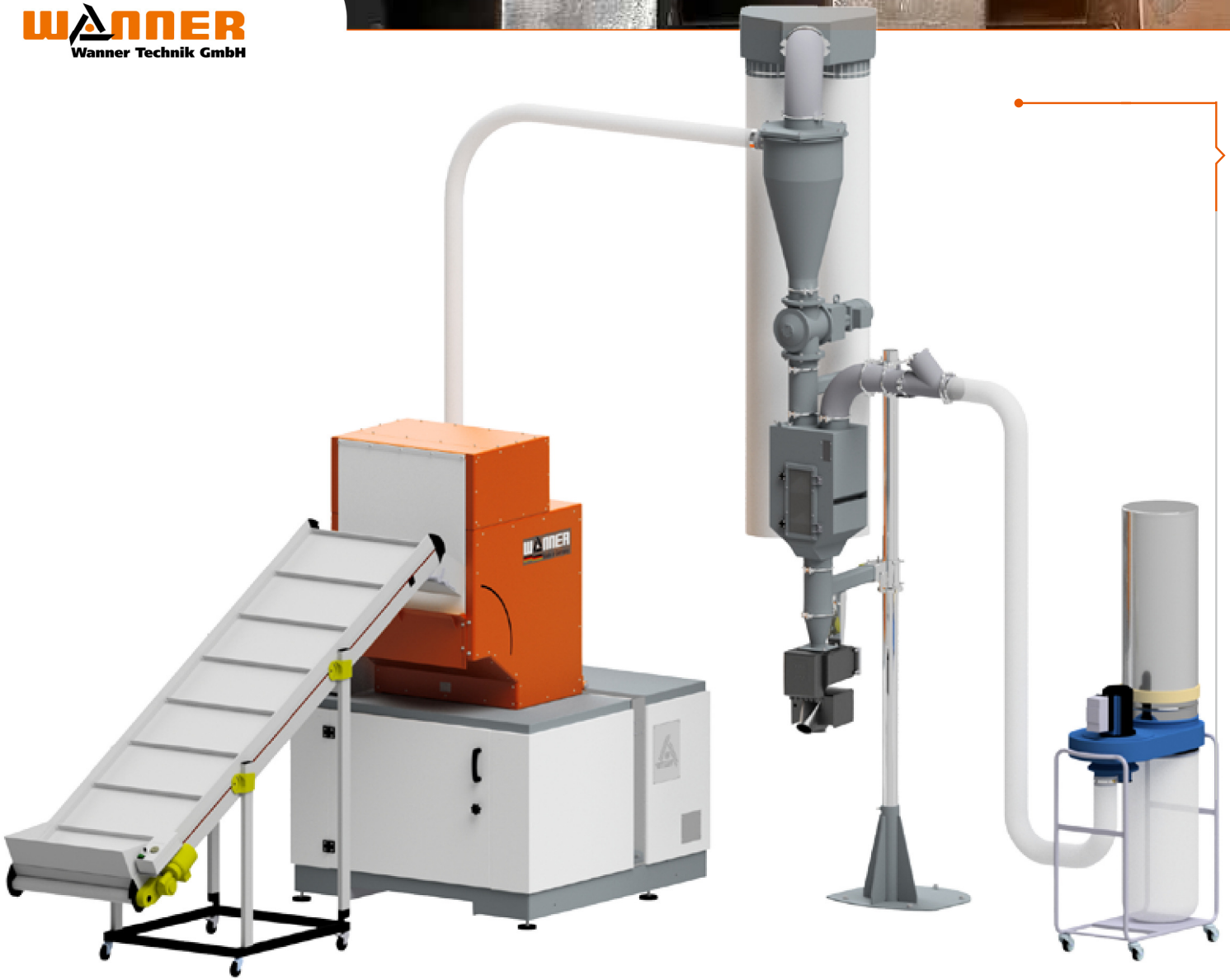

From granulator to size-reduction centre

If centralised granulating is required, our granulators from the Energy Series can easily be used to build central granulation stations for throughputs of up to 500 kg/h.
In addition to supplying you with the granulator to meet your needs, we also offer a full range of peripheral equipment, including material transport blowers with suitable tubing, cyclone separators with frame and the rotary wheel feeder, metal separator, and conveyor belt with or without metal detector.

In very noise-sensitive areas, it is also possible to encapsulate the entire granulator completely to allow a central set up of the system e.g. near the production areas in a hall without generating a noise issue. The air flow volume of blowers and cyclones used to convey materials is adapted and coordinated so that granulate and air is cleanly separated. The two large filter sacks ensure that the environment remains mostly undisturbed. If you have special requirements here, just let us know.

< Granulator E 45.80 with conveyor belt feed, extended feed opening of the hopper, integrated blower, cyclone separator with rotary wheel gate, dedusting unit, and metal separator as central grinding station

E 35.60 Special hoppers with side feed opening

For special applications, we can adapt our machines to fit our customers' needs perfectly. if for example longer profile sections need to be processed, we do make special hoppers with additional feed hopper inlet on the side.
Depending on the customer's requirements, we can adapt our hoppers in any way in which material to be ground in the machine needs to be fed in. Our granulators can be well-adapted to your specific requirements for part size and throughput by using different rotors, such as the three-edged or five-edged versions or using grinding chambers with infeed areas of different shapes. Other options, such as additional wear protection in the cutting chamber or on the blower, as well as a number of control unit options enable us to meet even the most exacting demands. No matter if it's blow-moulded parts, injection-moulded parts, or extrusion profiles – we are sure to have a solution for your granulating problem.

The Energy Series – easily accessible

The granulators in our Energy Series come standard with an integrated sound enclosure. A door that opens wide and the gas spring-supported, wide-opening feed hopper make accessing the cutting chamber for cleaning and service work quick and easy. The screen cradle can be opened without tools and the screen can also be easily removed.

Some of our customers in Swabia even call our granulators " the fast cleaning granulators" instead to Wanner granulators, because of their easy accessibility and user-friendliness. We see this name both as a compliment and a duty.

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Everything integrated and easily accessible

Granulators from our Energy Series are available with an optional blower integrate into the standard sound enclosure that is easily accessible through a large back door. Incorporating the blower into the sound enclosure of the granulator sustainably dampens the noise generated. In order to save space, the blower is installed at the back in the sound enclosure and accessible through a wide opening door. The robustly designed blower itself is also hinged for easy opening.

Depending on customer requirements, the blower as well as the pipe bends can be provided in a wear-protected design, so that even fibreglass-reinforced materials can be reliably processed.