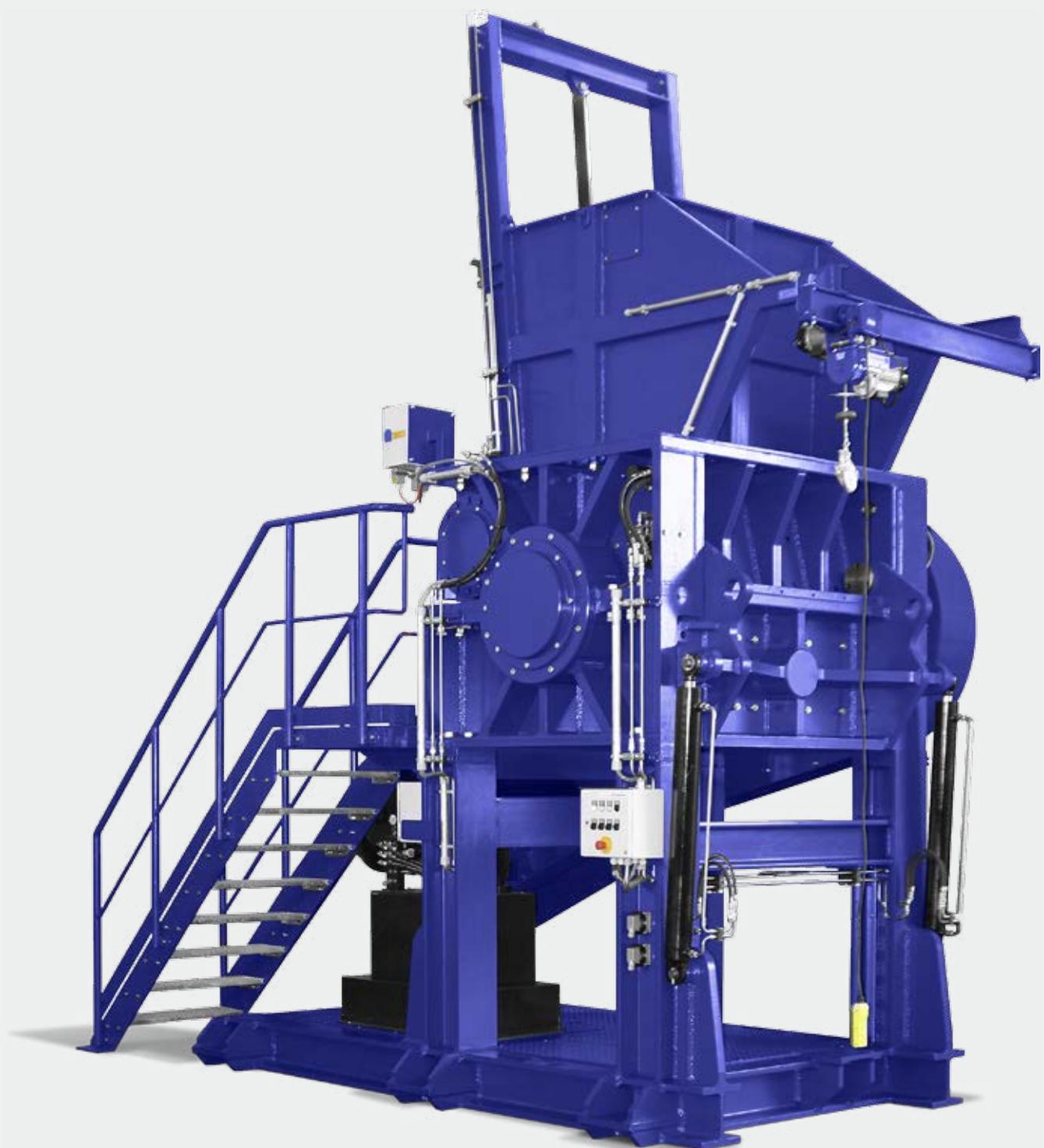


NG Granulator

Selective grain size

BHS
SONTHOFEN

TRANSFORMING
MATERIALS
INTO VALUE



Headquarters of BHS-Sonthofen



TRANSFORMING MATERIALS INTO VALUE

BHS
SONTHOFEN



BHS-Sonthofen

We are a mid-sized, owner-operated group of companies with over 300 employees. We are innovative, passionate about technology and place a premium on quality. The group of companies is based in Sonthofen, Germany, and has subsidiaries in the US, China, India and Russia. We are a successful global player in the fields of mixing, crushing, recycling and filtration technology. We provide our customers with well-engineered, state-of-the-art solutions.

Over 100 years of experience in crushing technology

We built our first crushers for the aggregates industry over 100 years ago. For the past 20 years, we have been manufacturing innovative crushing machines designed for the recycling industry. The acquisition of the products of AMNI Maschinenbau GmbH further enhances our portfolio to include cutting technology. AMNI's machine technology is founded on many years of experience and extensive practical applications. Today, we are the technologically innovative problem solver and experienced system supplier for recycling applications of all types.

Worldwide service

We offer quick and reliable service worldwide with our technical customer support and a large stock of spare parts for all standard machine types and also for older machines.

www.bhs-sonthofen.com

BHS Granulator

The Granulator is a high-speed, single-shaft machine. The granulation of the input material takes place between the rotor, which is equipped with fly blades, and the static blade. The Granulator is suitable for the secondary treatment of both ductile and brittle materials. The final product is selectively granulated to the desired grain size with very few undersized grains.



Targeted granulation results

The Granulator can process a broad range of input materials. The size of the screen determines the grain size, virtually eliminating the production of oversize grains.

Clean cutting quality

The blades are precision made and are manufactured with very tight tolerances. Long blade life is guaranteed by using a special hardening process during manufacture. The blades are easily adjusted or replaced.

Consistent cutting results

There is generally more wear on the blades in the middle of the rotor than at the edge. Nevertheless, it is possible to achieve a consistently clean cut by adjusting the modularly designed static blade segments.

Cutting tools

The static and rotor blades are of the same design and thus exchangeable. Each blade has four cutting edges, allowing it to be used four times. The blade seats are screw-fitted and not welded. A keyed joint allows them to be easily removed.

Swivel-mounted static blade seat

The Granulator comes as standard with a fixed static blade seat. An optionally available swivel-mounted static blade seat offers effective protection if the input material is thought to contain solid or potentially harmful components.

Segmented screen

The screen consists of several individually exchangeable segments. The screen holder is hydraulically retractable, facilitating easy maintenance work.

High throughput rates

The Granulator has several design features which allow high throughput rates without a loss of quality. The solid rotor design provides the basis for high cutting forces. In addition, the staggered arrangement of the blades results in optimal force distribution, and the V-cut geometry of each pair of blades guarantees a high cutting quality.

Long service life

The design and solid construction of the machine are optimized for a long service life. A sturdy interior lining of wear-resistant plates offers a further guarantee.



1 Feed hopper

The input material is fed into the machine through a large, central hopper. In addition to standard solutions, customer-specific hoppers are available.

2 Static blade seat

The static blade seat is of a modular design and is equipped with several consecutively arranged blade segments. This modular design allows the static blades to be easily adjusted so as to accommodate various degrees of wear, guaranteeing a consistent cutting quality.

3 Rotor

The rotor is made from a solid forging and generates high cutting forces. A rotating wear ring protects the rotor edges at the housing entry way from wear.

4 Blade seats

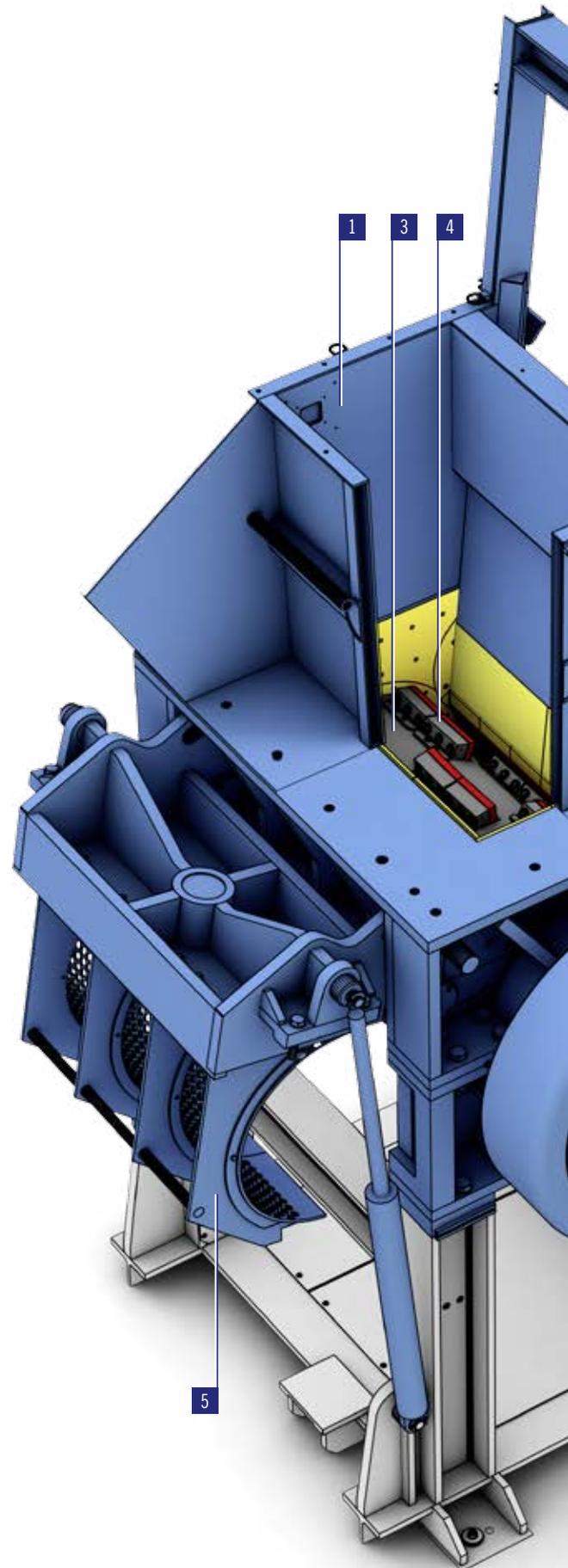
The positioning and shape of the blade seats on the rotor ensure optimal feeding of the material and optimise cutting results. The blade seats are screwed to the main body of the rotor and are fixed with a keyed joint.

5 Screen unit

The screen unit is manufactured in modular in-line sections. This reduces screen weight and allows for the easy replacement of individual segments. Furthermore, the screen unit is hydraulically retractable, making replacement possible without the need to dismantle the conveyor equipment beneath it.

6 Drive system

The Granulator is driven by an electric motor via V-belts. The pulley on the rotor has a safety clutch to protect against overload.



Frequency inverter

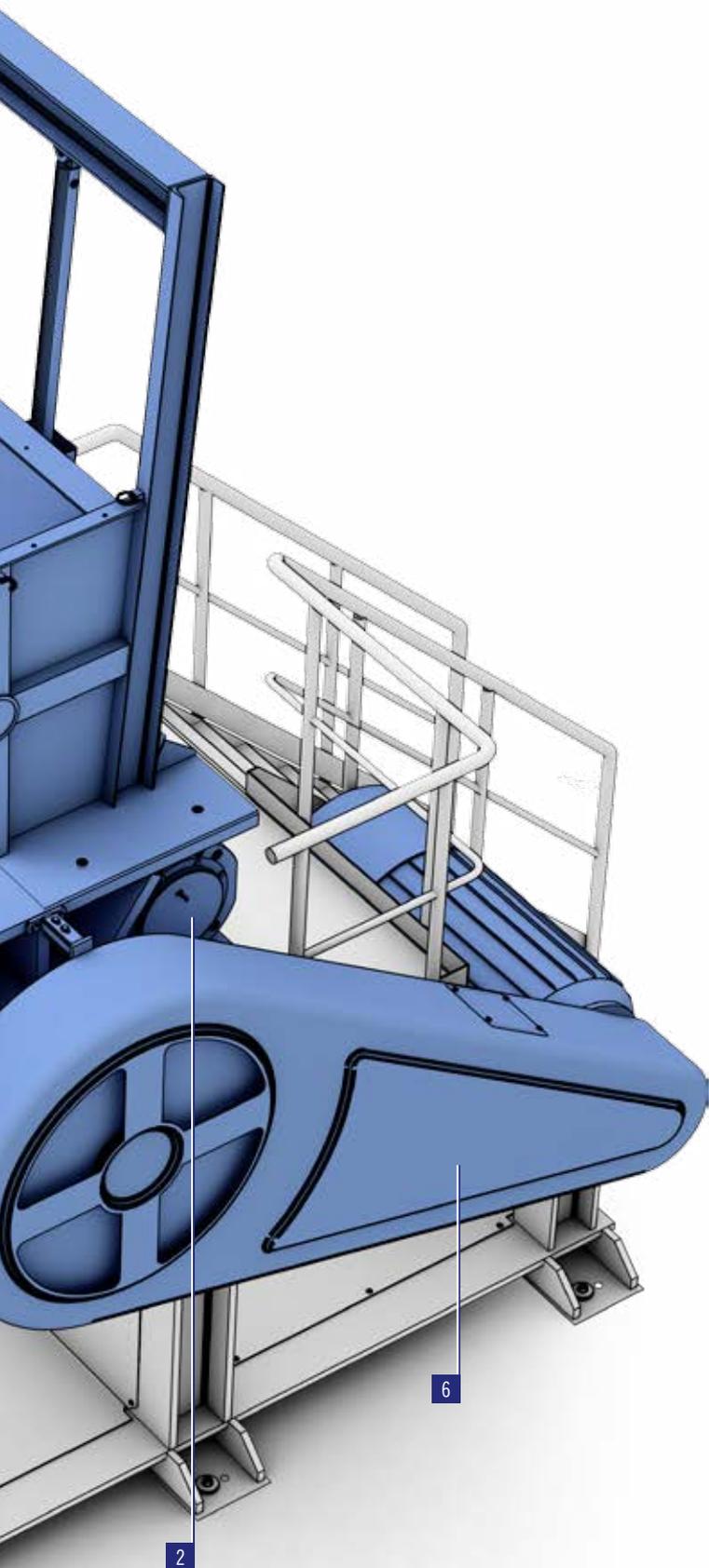
The machine can optionally be equipped with an electronic frequency inverter. The frequency inverter allows the speed to be adapted to the individual process conditions, preventing costly current peaks.

Isolated rotor bearings

The rotor shaft bearings are installed outside of the housing in a welded bearing box and are thus protected from heat and dust.

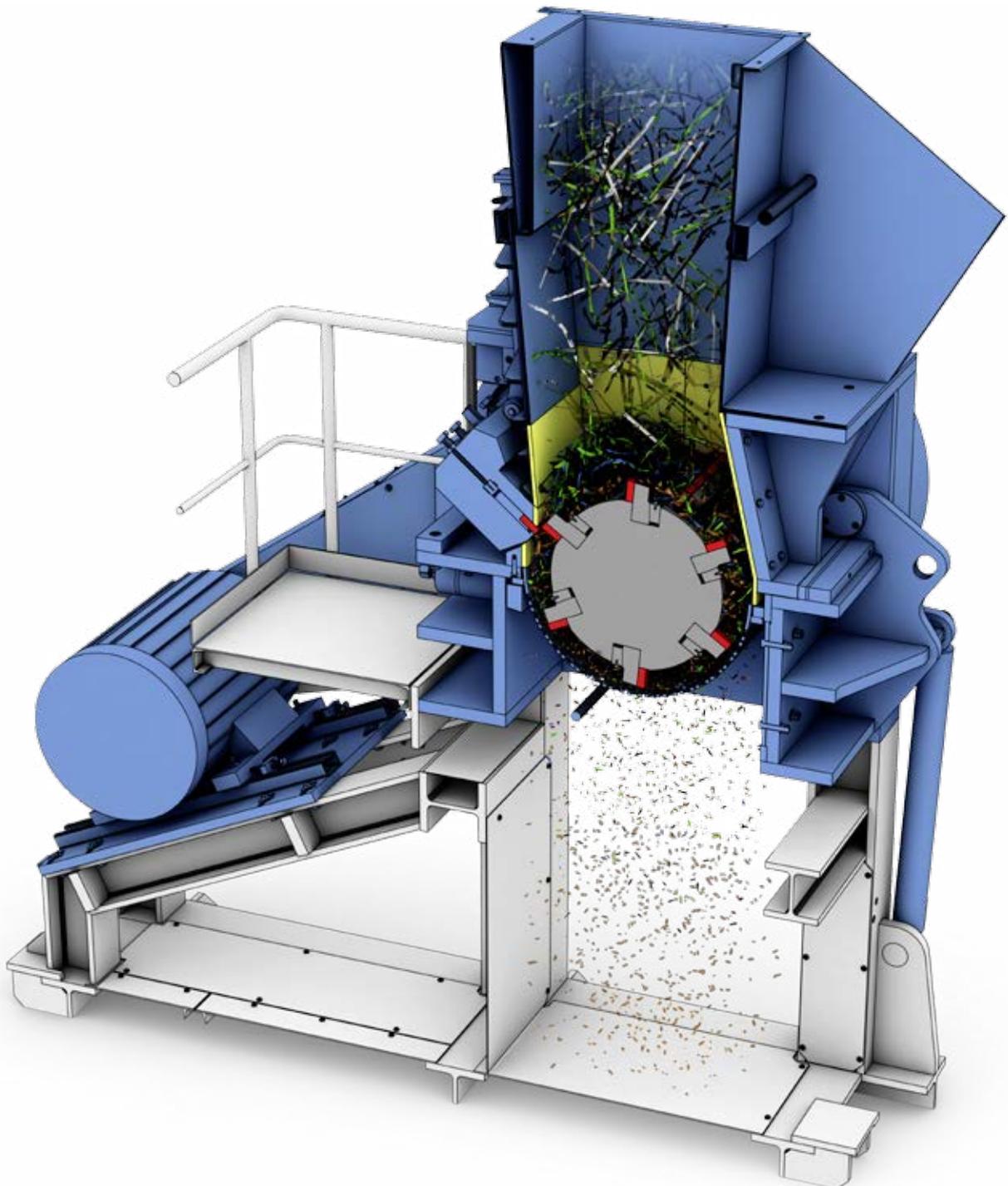
Hydraulic push-in device

A hydraulic push-in device is available as an option. It ensures the continuous feeding of large-volume, lightweight or bulky input material.



Functional description

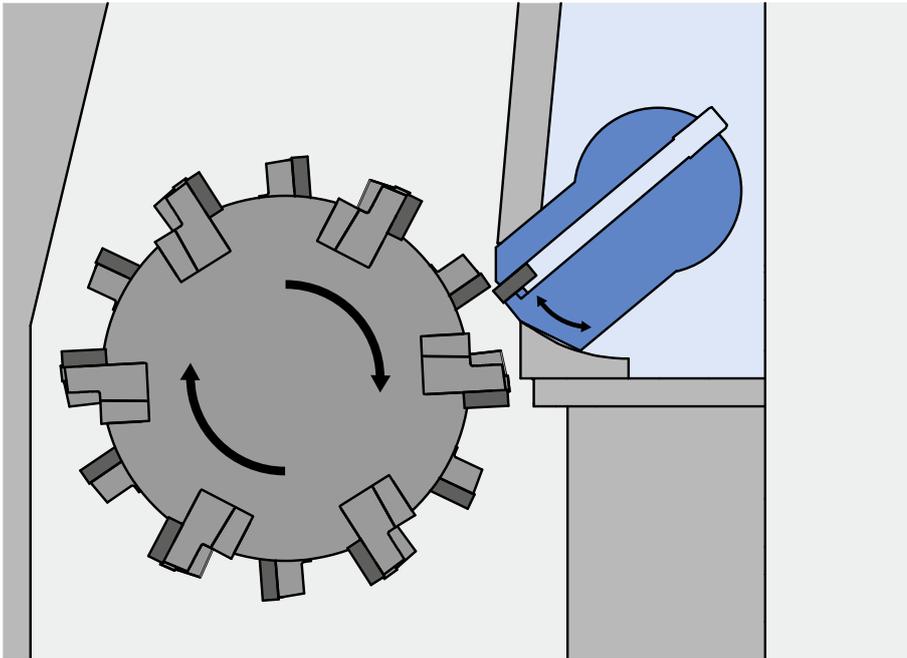
The granulation of the input material takes place between the rotor and static blades. A screen is located beneath the rotor. If material components do not exit the machine through the screen, they are fed back to the top and re-granulated. This process selectively cuts the final product to the desired grain size and results in very few undersized grains.



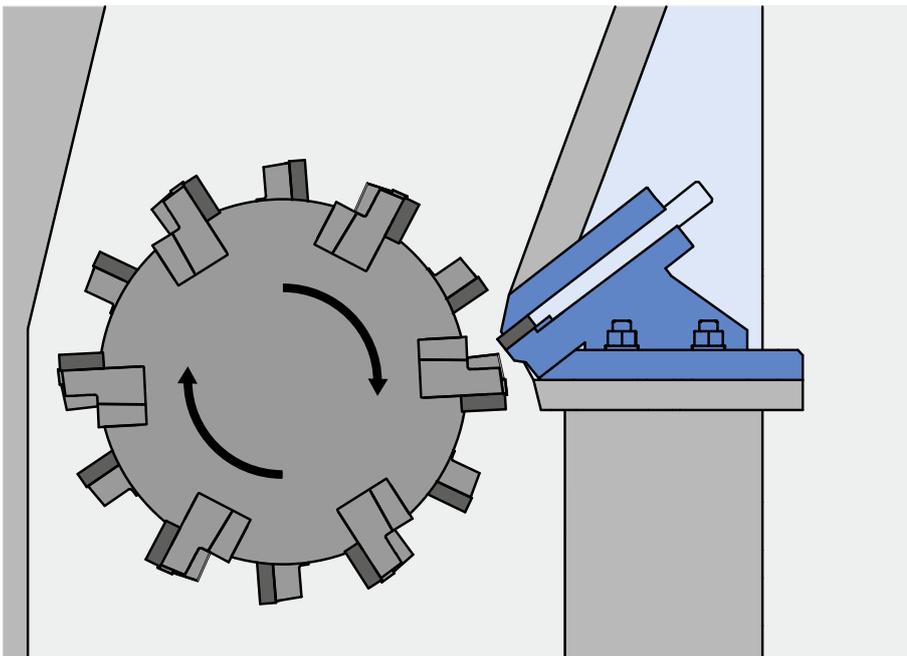
Static blade seat: two styles

The Granulators are equipped as standard with a static blade seat which is permanently integrated into the machine housing. A swivel-mounted static blade is optionally available if the input material is thought to contain large amounts of potentially harmful components. The static blade seat is normally kept in its working position by a mechanical safety clutch.

Granulator NG 0812 with swivel-mounted static blade seat



Granulator NG 1020 with fixed static blade seat



Tires



Cables



Refuse-derived fuels (RDF)



Domestic & commercial waste



Oil filters



Aluminum



Electrical & electronic waste



Bulky waste



Circuit boards



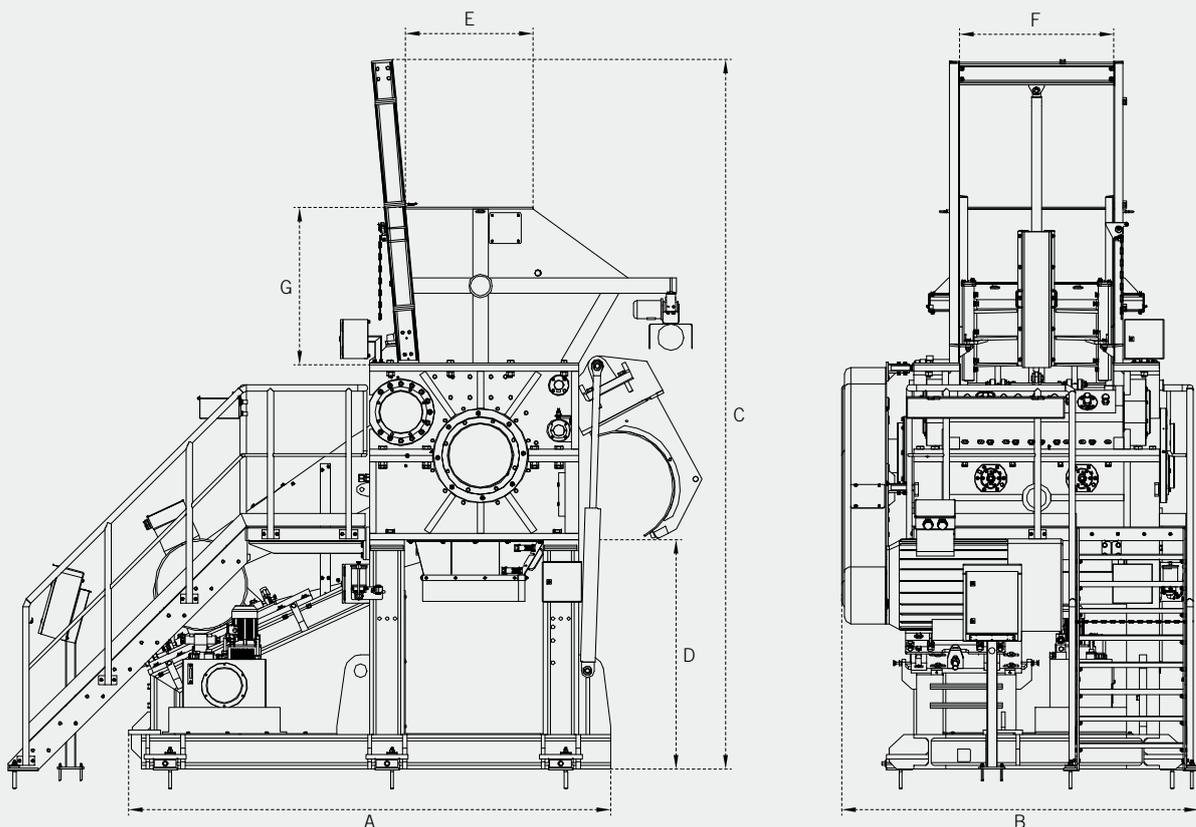
Performance data (standard designs)

Type	Drive power	Rotor speed (max.)	Rotor diameter x length	Number of rotor blades	Number of static blades	Number of screen segments	Static blade seat
NG 0812	110 - 250 kW	420 rpm	800 x 1,200 mm	36	3	3	swivel-mounted
NG 0816	160 - 315 kW	420 rpm	800 x 1,600 mm	48	4	4	swivel-mounted
NG 1020	160 - 400 kW	320 rpm	1,000 x 2,000 mm	80	5	5	fixed
NG 1028	200 - 500 kW	320 rpm	1,000 x 2,800 mm	112	7	7	fixed

Dimensions and weights (standard designs)

Type	A	B	C	D	E	F	G	Cutting chamber length x width	Weight
NG 0812	3,700 mm	2,700 mm	5,500 mm	1,800 mm	800 mm	1,200 mm	1,500 mm	1,200 x 800 mm	24 t
NG 0816	3,700 mm	3,100 mm	5,500 mm	1,800 mm	800 mm	1,600 mm	1,500 mm	1,600 x 800 mm	30 t
NG 1020	4,000 mm	3,700 mm	6,000 mm	2,100 mm	1,000 mm	2,000 mm	1,500 mm	2,000 x 1,000 mm	32 t
NG 1028	4,000 mm	4,500 mm	6,400 mm	2,100 mm	1,000 mm	2,800 mm	1,500 mm	2,800 x 1,000 mm	40 t

All specifications apply to the standard design.
 Technical data for customized designs may differ from the specified data.
 All technical data may change due to development.
 Subject to modification without notice.



BHS FIELDS OF COMPETENCE



MIXING
TECHNOLOGY



CRUSHING
TECHNOLOGY



RECYCLING
TECHNOLOGY



FILTRATION
TECHNOLOGY

Germany

BHS-Sonthofen GmbH
An der Eisenschmelze 47
87527 Sonthofen
Phone +49 8321 6099-0
Fax +49 8321 6099-220
info@bhs-sonthofen.de

USA

BHS-Sonthofen Inc.
14300 South Lakes Drive
Charlotte, N.C. 28273
Phone +1 704 8451190
Fax +1 704 8451902
info@bhs-sonthofen.com

China

BHS-Sonthofen (Tianjin)
Machinery Co., Ltd.
Laiyuan Road 3
Wuqing Development Zone
Tianjin 301700
Phone +86 22 82126263
Fax +86 22 82107095
info@bhs-sonthofen.cn

India

BHS-Sonthofen (India)
Pvt. Ltd.
6-3-252/1/7/B
3rd floor, Opp. IIPM
Erramanzil / Banjara Hills
Hyderabad 500034
Phone +91 40 23315341
info@bhs-sonthofen.in

Russia

BHS-Sonthofen
Prishvina St. 8
Bldg. 2, office 404
127549 Moscow
Phone +7 499 9404808
Fax +7 499 9404898
info@bhs-sonthofen.ru