

NGV

SpeedCut Granulator

On-target particle size for low-density, light materials

BHS
SONTHOFEN

TRANSFORMING
MATERIALS
INTO VALUE



Headquarters of BHS-Sonthofen



TRANSFORMING MATERIALS INTO VALUE

BHS
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The Company

BHS-Sonthofen is an owner-operated group of companies specialized in machinery and plant engineering. The group is headquartered in Sonthofen, Germany. BHS provides technical solutions for mechanical process engineering with a focus on mixing, crushing, recycling and filtration technologies. With more than 300 employees and several subsidiaries, BHS-Sonthofen maintains a global presence.

More than 100 Years of Experience in Crushing Technology

100 years have already passed since we built the first crushers for the rock and stone industry. We have been producing innovative crushing machines for the recycling industry for around 20 years. Our acquisition of the AMNI Maschinenbau GmbH product range means that we have rounded out our portfolio with the addition of cutting technologies. The AMNI machine technology is based on many years of experience and extensive practical applications. Given this range of products and expertise, we are a true technology innovator and experienced system supplier for every type of recycling application.

Global Service

We provide fast and reliable service around the world, complete with technical customer support and a large inventory of spare parts for all common machine types including older models.

www.bhs-sonthofen.com

BHS Granulator

The Granulator is a high-speed single-shaft cutter designed for secondary sizing of low-density, light, elastic and brittle materials. The feed material is cut between the rotor equipped with fly blades and the static blade seat. The final product has the desired particle size.



On-Target Cutting Results

The Granulator can be used to process a wide variety of feed stock. The selected screen pitch determines the desired particle size.

Clean Cutting Quality

The blades are precision manufactured to very tight tolerances. They are hardened using a special process to ensure a long service life. The blades are also simple to adjust and replace.

Consistent Cutting Results

The blades usually wear more quickly near the center of the rotor than at the edges. The modular static blade seat segments are adjustable to help maintain a consistently high cutting quality.

Blades

The blades on the rotor and static blade seat are simple to replace. They are each equipped with two cutting edges, which makes the blades more versatile.

Segmented Screen

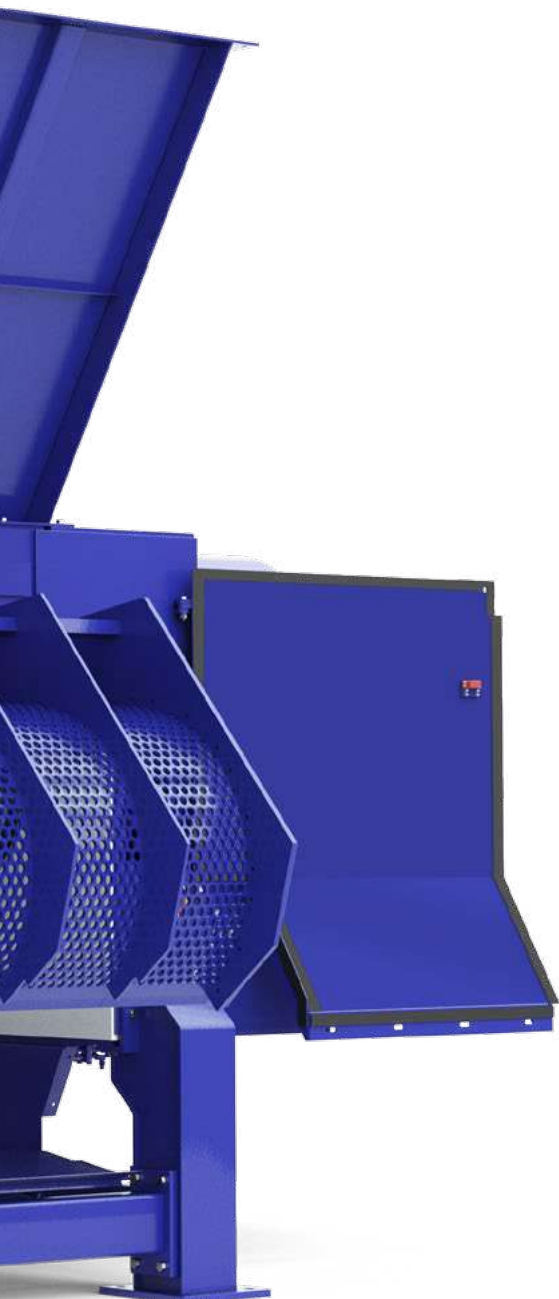
The screen consists of multiple segments that can be replaced individually. The screen support operates on a hydraulic swivel, making it much easier to perform maintenance work.

High Throughput Rates

The Granulator is equipped with several design features that enable a high throughput rate without sacrificing quality. The solid design of the rotor ensures strong inertia mass. The offset arrangement of the blades also produces optimum force distribution, while the V-cut geometry of the paired blades ensures high cutting quality.

Long Service Life

The machine design and solid construction are intended to ensure a long service life. This is also achieved by a sturdy wear-resistant lining.



1 Infeed Hopper

The machine is equipped with a large, central infeed hopper. On demand, customized hoppers are offered in addition to the standard versions.

2 Rotor

The rotor is produced from a solid forged part and has a high inertia mass. A rotating wear ring protects the rotor edges at the housing mounting point from wear.

3 Blade Seats

The special V-shaped arrangement of the blade seats on the rotor ensures optimum material infeed and optimal cutting results. The blade seats are welded to the main body of the rotor.

4 Screen Unit

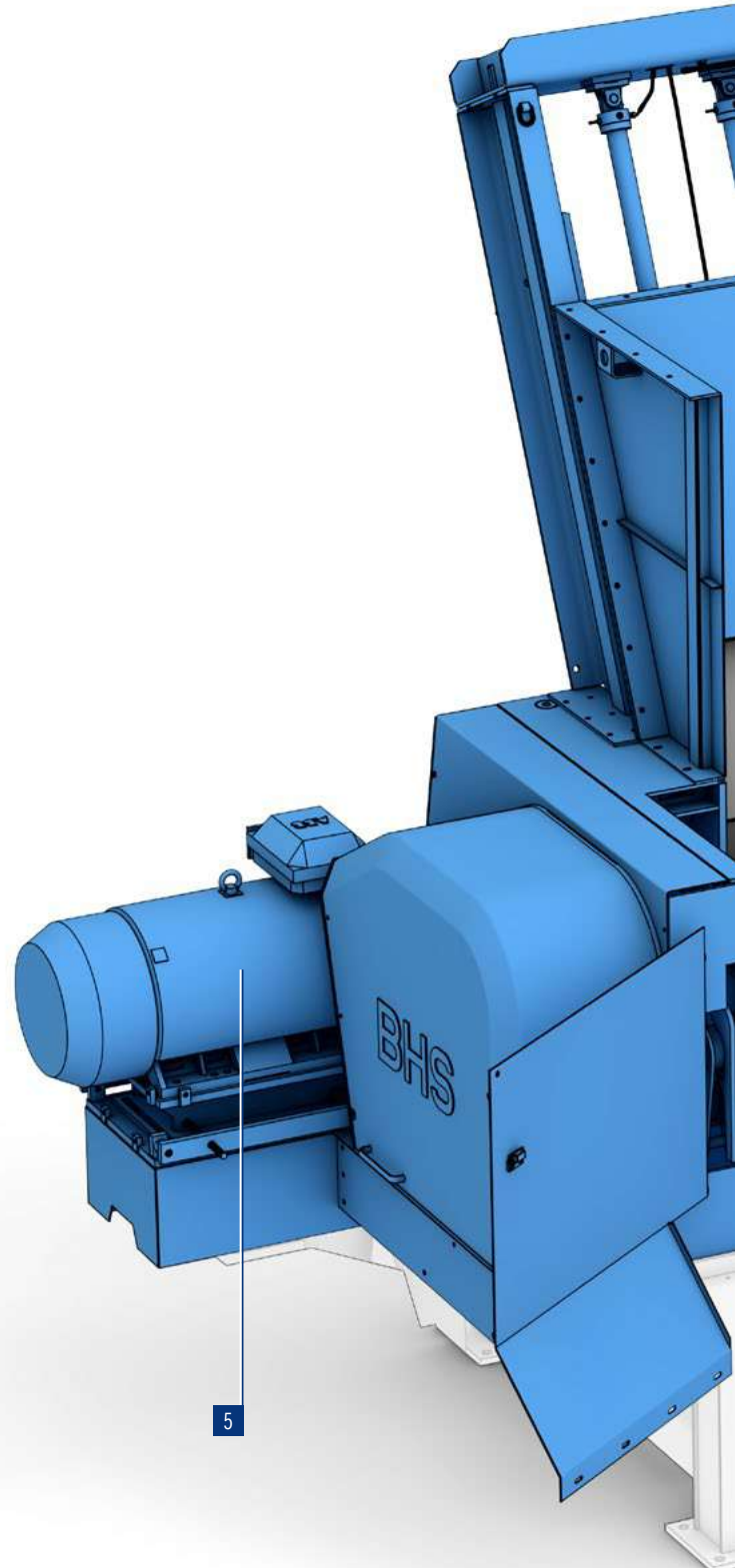
The screen unit consists of several screen segments in series. This modular design results in lower component weights and enables the easy exchange of individual screen segments. In addition, the screen unit operates on a hydraulic swivel, which allows for screen replacement without dismantling the conveyor system located beneath it.

5 Dual Drive System

The Granulator is operated by two electric motors via V-belts. The rotor pulleys are equipped with a safety clutch for protection against overload.

Static Blade Seat with Blade Segments

The modular static blade seat is equipped with multiple blade segments in series. This modular design enables easy adjustment of the static blades in cases of uneven wear, thereby ensuring consistent cutting quality.



Frequency Inverter

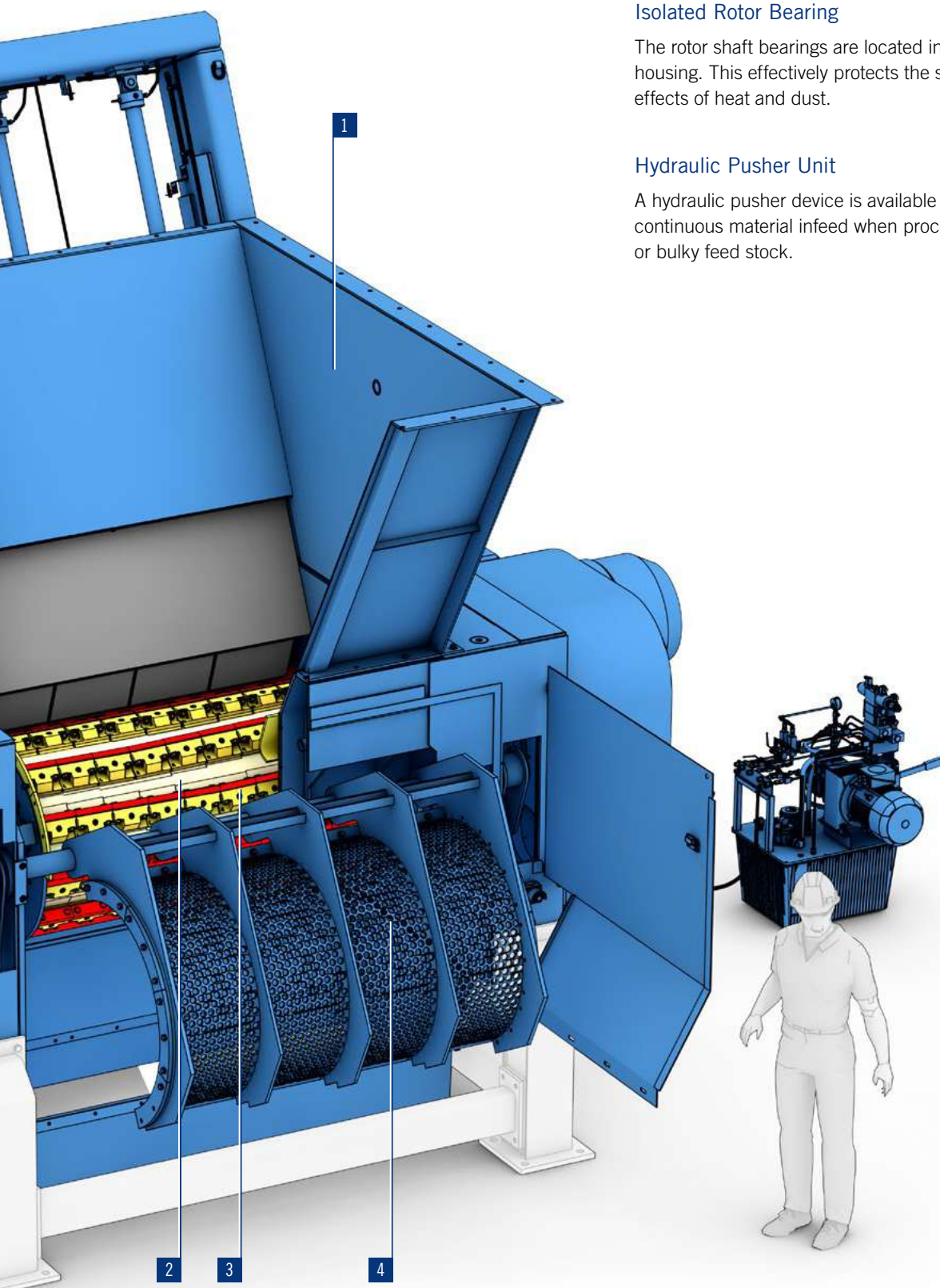
The machine is equipped with an electronic frequency inverter. This allows the speed to be adapted to individual process conditions and prevents the generation of costly peak currents.

Isolated Rotor Bearing

The rotor shaft bearings are located in a double-walled housing. This effectively protects the shaft bearings from the effects of heat and dust.

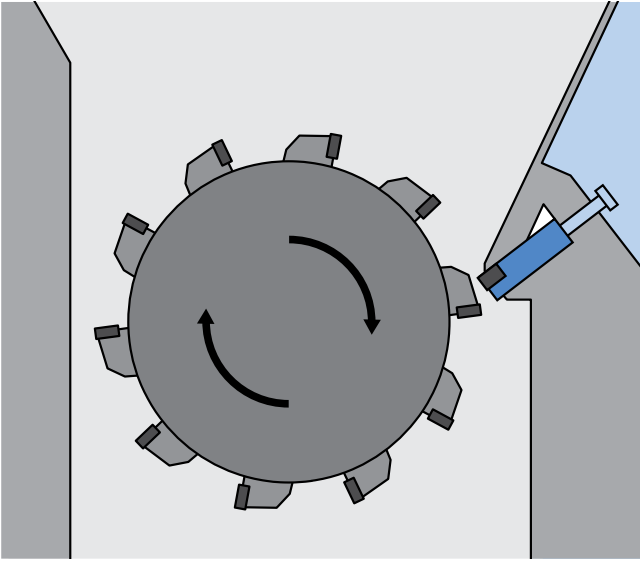
Hydraulic Pusher Unit

A hydraulic pusher device is available as an option. It ensures continuous material infeed when processing low-density, light or bulky feed stock.



Functional Description

The feed material is cut between the rotor equipped with blades and the static blade seat. A screen is located beneath the rotor. Oversize feed stock unable to pass through the screen will be transported back to the top of the rotor and cut again. As a result, the final product has the desired particle size with few undersized particles.



Detailed illustration of the static blade seat





Substitute Fuels



Household Waste



Commercial Waste



Bulky Waste



Automotive Shredder Residues (ASR)



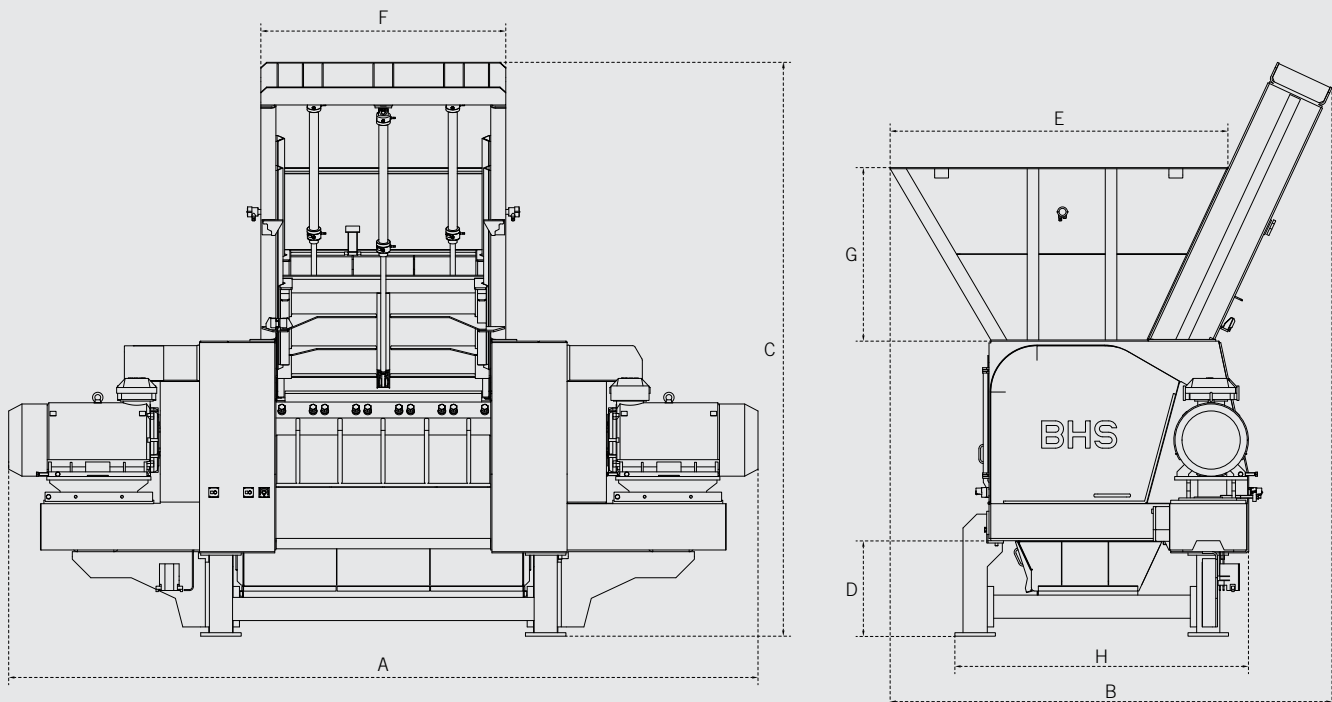
Performance Data (Standard Designs)

Type	Drive Power	Rotor Speed (max.)	Rotor Diameter x Length	Number of Rotor Blades	Number of Static Blades	Number of Static Blade Seats	Number of Cutting Rows on the Rotor	Throughput Rate ¹⁾
NGV 1020	2 x 200 kW	320 rpm	950 x 1,850 mm	100	10	1	10	12 t/h
NGV 1028	2 x 250 kW	320 rpm	950 x 2,590 mm	140	14	1	10	15 t/h

Dimensions and Weights (Standard Designs)

Type	A	B	C	D	E	F	G	H	Work Access Opening Length x Width	Weight
NGV 1020	6,480 mm	3,710 mm	4,960 mm	830 mm	2,920 mm	1,860 mm	1,500 mm	2,540 mm	1,430 x 1,850 mm	27 t
NGV 1028	7,250 mm	3,710 mm	4,960 mm	830 mm	2,920 mm	1,860 mm	1,500 mm	2,540 mm	1,430 x 2,600 mm	31 t


All specifications apply to the standard design.
 Technical specifications for customized designs may differ from the data provided here.
 All technical specifications are subject to change due to continuous development.
 Subject to change without notice.
¹⁾ With a 30 mm screen



BHS FIELDS OF COMPETENCE



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