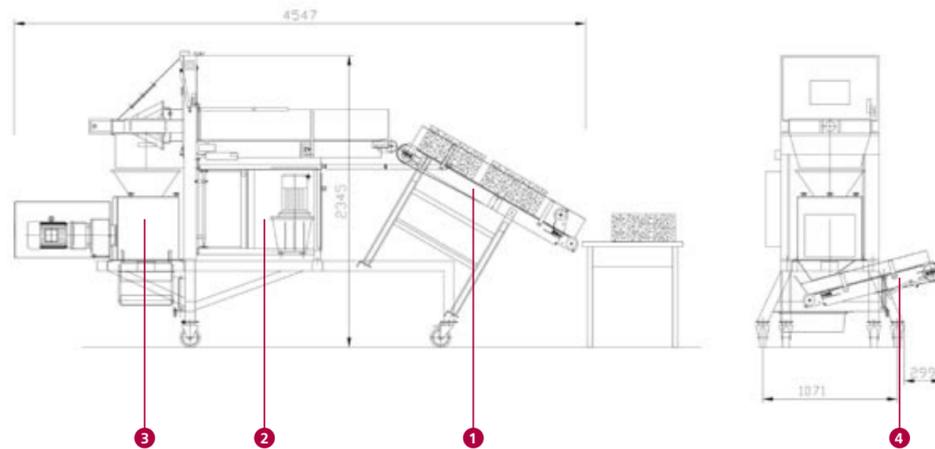


Alexanderwerk grater-shredders as part of the processing line in the food industry

Alexanderwerk grater-shredders are compact and modular. They can be used both as a single machine and within the processing line we have developed. Here the Alexanderwerk grater-shredders are at their most impressive in terms of capacity, combining the gentle crushing of raw materials with economical food production.

Our food processing technologies offer you everything you need to develop a complete processing line using Alexanderwerk grater-shredders. The necessary components such as conveyor belts or cube cutters are designed modularly and can be easily tailored to individual needs. Ask for our "Food Processing Technologies" brochure.



Graters and shredders for the food processing industry



Alexanderwerk Graters Shredders

	<p>Grater Shredder RAN 70 N The RAN 70 was designed as a mounting device for a Alexanderwerk UM series universal drive motor. The UM universal drive motor has an integrated driver coupling which can be used to mount the different mounting devices directly onto the UM. All the Alexanderwerk GSA family mounting devices can be operated at the UM via the driver coupling: the UMA N multi-purpose and combined cutting device, the RSP mixing, whipping and kneading device, the WA 82 F mincer, the AFM II meat tenderiser, the AFS II steak maker and the SS 1200 II slitter. Throughput up to 1000 kg/h. Ask for our GSA brochure! The diagram illustrates the RAN 70, the universal drive motor and the optional running gear.</p>
	<p>Grater Shredder PGS 300 The PGS 300 grater shredder is available in two models – fitted or mobile with a 300mm diameter grating or shredding cylinder with a capacity of 1000–2000 kg/h. The PGS 300 has a 4 or 5.5 kW drive and, like the RAN 70 N, is made of stainless steel.</p>
	<p>Grater Shredder R 340 N Capacity of up to 4000kg/h</p>

We can provide numerous special models or redesign according to customer needs. Due to changes in technology and technical advances, the machines may differ slightly from the models illustrated in the figures.

Alexanderwerk graters shredders

No matter how diverse the products to be grated and shredded, Alexanderwerk has the grater-shredder for your needs. Its numerous and various grating and shredding cylinders allow you to select nearly all grating and shredding sizes. Alexanderwerk graters and shredders are used in the chemical, food and pharmaceutical industries: **grating, shredding, loosening and granulating** hard products, dry or moist.

Grating and shredding are technologies which are frequently used in the food processing and food production industries as the (pre-) crushing of raw materials is often necessary for subsequent steps in the production process.

The requirement not to exceed certain maximum grain sizes is, for example, due to mechanical and geometrical factors during the production process. In many cases, conveyors or feed modules on machines only function reliably if certain grain sizes of the goods to be conveyed are not exceeded.

The requirement not to exceed the specified, maximum grain size may also be due to the characteristics of the final product. Therefore, pieces of chocolate and nuts or similar ingredients found in yoghurts, for example, may not exceed a certain size. We like to evenly distribute the fine pieces of our flavour carriers in our yoghurt. In case of mixtures made of hard/liquid or hard/hard components, the set grain size of the hard component is an important factor in determining product quality.

Grating and shredding

Grating and shredding is an ongoing process: the raw material to be processed is either put into the grater-shredder manually or from above via a conveyor system and as such into the cutting area of the grating or shredding cylinder. A carrier rotates inside the grating or shredding cylinder, which presses the products to be processed up against the inside of the cylinder. The cylinders have numerous holes and their different designs define the geometry and grain size of the final product. You can distinguish between cylinders with grating and shredding characteristics. The raw material is pressed sideways through the holes in the cylinder wall, is crushed in the process and finally falls freely out of the machine.



The product to be processed is fed through a funnel tube and comes out through the bottom of the grater-shredder. Alexanderwerk grater-shredders come in two models – mobile or fitted (flange design).



The geometry of the numerous, inward-facing blades of the shredding cylinder determines the geometry of the final product.

A carrier rotates inside the grating or shredding cylinder: it presses the raw material up against the inside of the grating or shredding cylinder. It is then crushed and the final product leaves the cylinder through the holes.

Note: All cylinders for PGS 300 are available in one or two ring holder models with exchangeable cylinder bodies.

Processing examples



Hard chocolate
Shredding cylinder no. 700, 6.0 mm



Almonds
Shredding cylinder no. 6200,



Pistachios
Shredding cylinder no. 6400, 3.0 mm



Rough-cut cheese
Shredding cylinder no. 740, 8.0 mm



Fine-cut cheese
Shredding cylinder no. 6600,



Granulated cheese
Grating cylinder no. 52, 2.0 mm



Ice-tea
Shredding cylinder no. 1, 3.0 mm

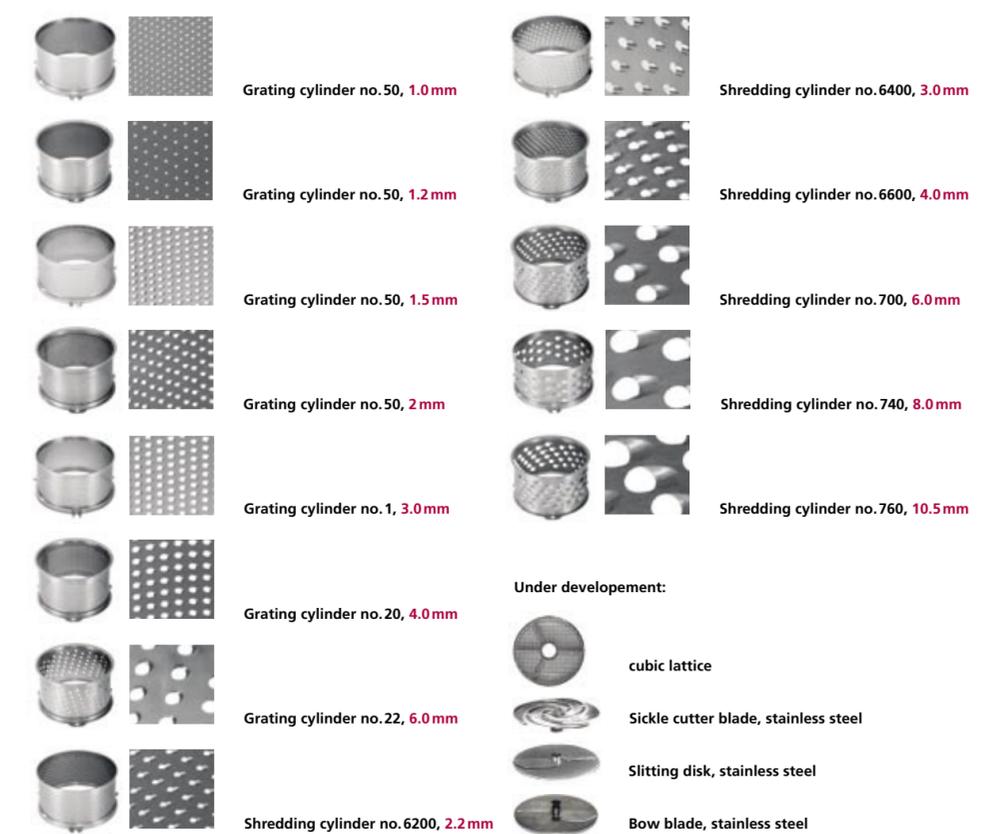


Biscuits
Grating cylinder no. 50, 1.0 mm



Carrots
Shredding cylinder no. 6400, 3.0 mm

Grating- and Shredding cylinders



Examples of product use



Pralines



Potatoe pancakes



Pizza



Creamed cake