



GRANOMAT

Toothed disk mills

MADE IN
JAPAN

Applications

The GRANOMAT JP toothed disk mill is designed both for dry coarse crushing and for ultra-fine, mostly wet grinding of numerous products, in this context also called colloid mill. The type of disk employed depending on the product to be processed.

Here are some examples of products processed with a GRANOMAT JP toothed disk mill

- ✓ Pastes made from vegetables, fruit, meat, sesame seeds, peanuts, pigments, seaweed, soya beans, rice, ginger, etc.
- ✓ Powdering of corn, ginger, mustard seeds, almonds, carbon, talc, silica, cellulose, etc.
- ✓ Emulsifying of fats and cosmetics
- ✓ Powdering or slurring of hard materials such as eggshells, minerals, bone, metal oxides, zeolite, glass, pigments, medical materials, etc.
- ✓ Pre-crushing of bone, wood chips or resin pellets, etc.
- ✓ Powdering of mugwort, herbs, spices, tea leaves, chitosan, potassium sulphate, chlorella, nitric acid, etc.
- ✓ Crushing of cereals, maize, etc.
- ✓ Grinding of dried malt husks, bleaching soda, peas, coffee and coffee substitutes, cacao beans, lentils, lupins, minerals, soups and dried vegetables, starch, etc.
- ✓ Production of bread crumbs

Users

- ✓ Food industry
- ✓ Animal feed industry
- ✓ Milling
- ✓ Cosmetics
- ✓ Chemical industry
- ✓ Pharmaceutical industry

Advantages

- ✓ Very precise milling process
- ✓ Adjustment of grinding unit during operation
- ✓ Wide variety of grinding disks
- ✓ Low-noise and low-vibration
- ✓ Very easy to clean
- ✓ Simple installation
- ✓ Available with optional cooling or heating systems

Standard executions

	GRANOMAT JP 150	GRANOMAT JP 250	GRANOMAT JP 360
Power (standard)	3.7 kW	15 kW	22 kW
Power (min./max.)	1.5/3.7 kW	11/30 kW	15/75 kW
Disk diameter	DN 150	DN 250	DN 360
Throughput (wet)	30 to 100 kg/h	70 to 1'000 kg/h	300 to 3'000 kg/h
Throughput (dry)	1 to 30 kg/h	30 to 300 kg/h	300 to 1'000 kg/h
Max. size of prod. inflow	10 mm	30 mm	50 mm
Target granulometry	10 to 4'000 µm	10 to 4'000 µm	10 to 4'000 µm
Cooling/heating ¹⁾	Yes	Yes	Yes
Mobile version available	Yes	Yes	No
Approx. dimensions	d 350 x H 650 mm	d 600 x H 1305 mm	750/850 x 1685 mm
Approx. weight	60 kg	250 kg	650 kg

¹⁾ Without cooling / heating



GRANOMAT JP 150



GRANOMAT JP 250



GRANOMAT JP 360

Working principle

The product is drawn through the grinding disk by centrifugal forces, whereby the static grinding disk is attached to the lid (stator) and the rapidly rotating disk is located below in the grinding housing.

The distance between the grinding disks is adjusted by means of the laterally mounted hand-wheel according to the desired granulometry.

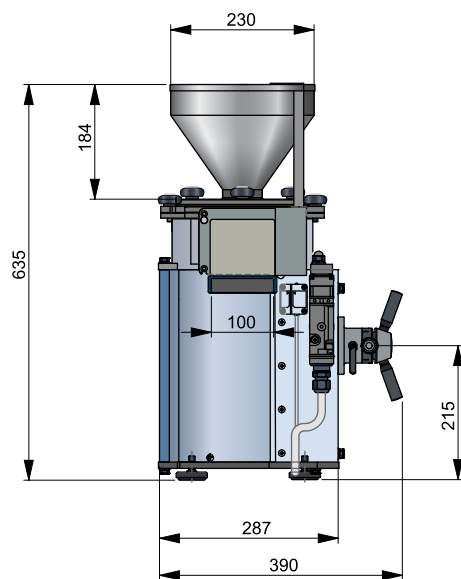
Grinding disks

Photo	Type	Material	Granulometry	Applications	Suitable for food and pharma
	E	Silicon carbide+ Alumina	10 µm – 3'000 µm	For making pastes of vegetables, fruits, meat, sesame seeds, peanuts, pigments, plaster, seaweeds, soya beans, rice, ginger, etc.	Yes (wet + dry)
	GA GC	GA: Alumina GC: Silicon carbide	Nano – 3'000 µm	For powdering or slurring egg shells, minerals, bone, metal oxide, fossil shells, zeolite, polyamide fluororesins, etc.	Yes (wet + dry)
	D	Diamond (plating)	100 µm – 3'000 µm	For pulverizing corn, ginger, mustard seeds, almonds, carbon, talc, silica, cellulose etc. and for emulsifying grease, cosmetics, etc.	No
	M	Ss 304	100 µm – 3'000 µm	For powdering or slurring medical materials, etc.	No
	new E	Silicon carbide + Alumina	Nano – 3'000 µm	For pigments, dyes, lubricants, cosmetic ingredients, ointments, etc.	No

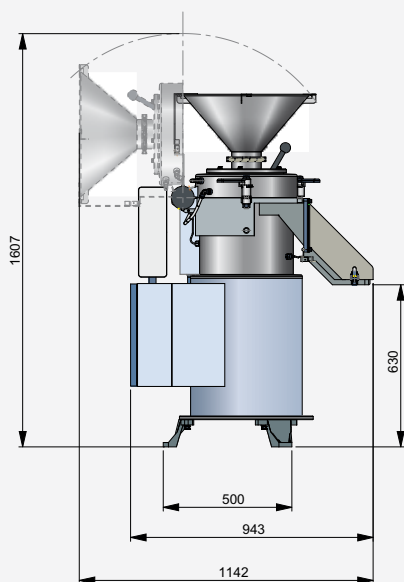
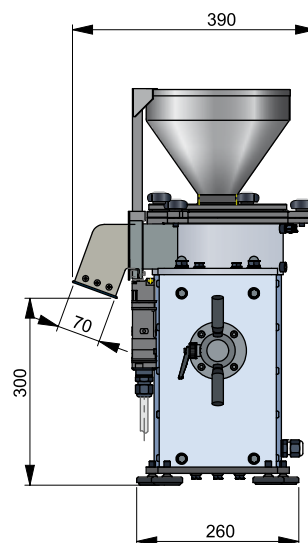
Grinding disks

Photo	Type	Material	Granulometry	Applications	Suitable for food and pharma
	FC	Fine ceramic	10 µm – 3'000 µm	For powdering or slurring glass, minerals, medical materials, plaster, pigments, antimony trisulphide, ink lead, calcium hydroxide	No
	FC W	Fine ceramic, white	10 µm – 3'000 µm	For powdering or slurring white materials, including cosmetics, pigments and drinks	No
	B	BA: Alumina BC: Silicon carbide		For powdering mugwort, herbs, spices, minerals, tea leaves, chitosan, potassium sulphate, chlorella, etc.	Yes, for dry milling
	C	Cast steel	0.5 – 4.0 mm	Maize and cereals grids, etc.	Yes, food
	H	Cast steel	0.2 – 2.0	Breadcrumbs, cereals, minerals, etc.	Yes, food

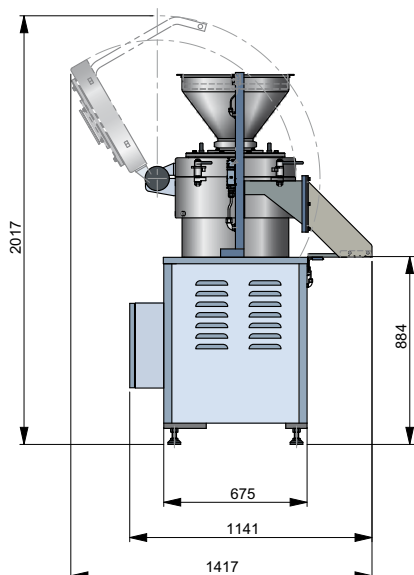
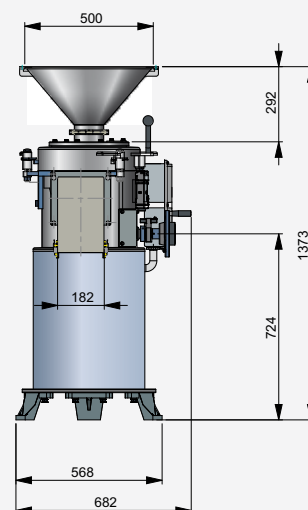
Dimensions



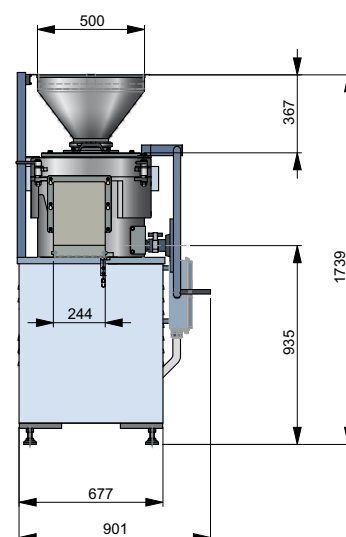
Granomat JP 150



Granomat JP 250

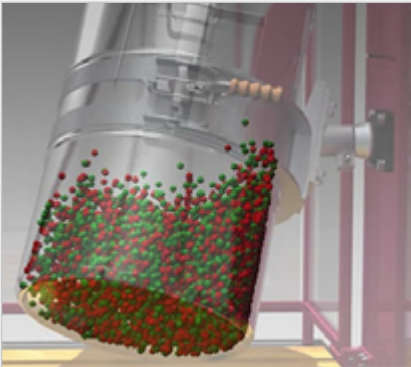


Granomat JP 360



Simple but efficient mechanical processes for bulk material by FUCHS.
Here is some additional information:

Blending

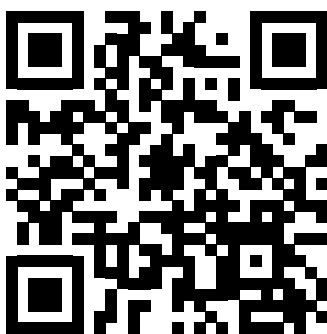


Applications

- ✓ Blending
- ✓ Homogenising
- ✓ Inking
- ✓ Blending sedimented liquids

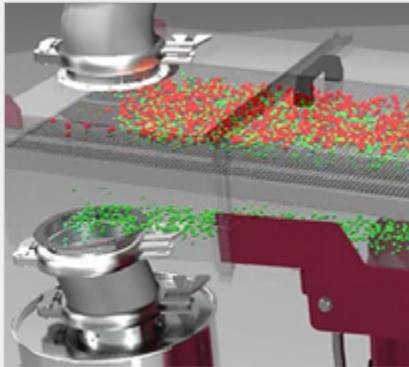
Users

- ✓ Food industry
- ✓ Chemical industry
- ✓ Pharmaceutical industry...



<https://fuchsag.com/drum-blender.html>

Sifting



Applications

- ✓ Sizing
- ✓ Control and safety sifting
- ✓ Dedusting

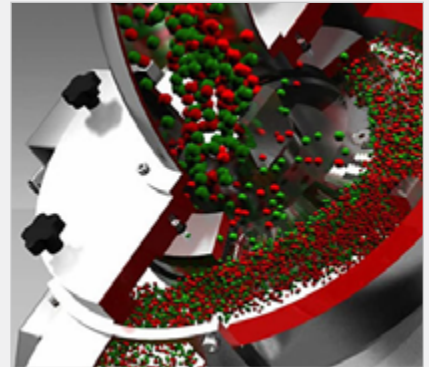
Users

- ✓ Food industry
- ✓ Pharmaceutical industry
- ✓ Chemical industry



<https://fuchsag.com/sifters.html>

Granulating



Applications

- ✓ Milling products such as sweet corn, cereals, stark, minerals, chemical and pharmaceutical products

Users

- ✓ Milling
- ✓ Animal feed industry
- ✓ Food industry



<https://fuchsag.com/granulating.html>



<https://fuchsag.com/downloads-192/type/brochure/machine-type/granomat.html>



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