

GRANU 100

Granulation Technology for R&D



- **Machine performance**

Depending on the product characteristics of the material (SAP or similar) the throughput of the GRANU 100 is optimal for small test batches (up 1.000 kg / h)



- **Machine high degree stainless steel (SUS 316)**

The machine has an optimal design for its purpose and is made in a massive high level stainless steel which enhances the machine stability and allows a cleaning in the shortest possible time.

The chemical / hygiene requirements (with Chemical and Food Grade) are fulfilled.

- **Hopper designed to the production flow (special polished on high degree)**

The high level stainless steel hopper is designed to the production flow and is integrated in the machine body, forming a single unit without corners or edges.



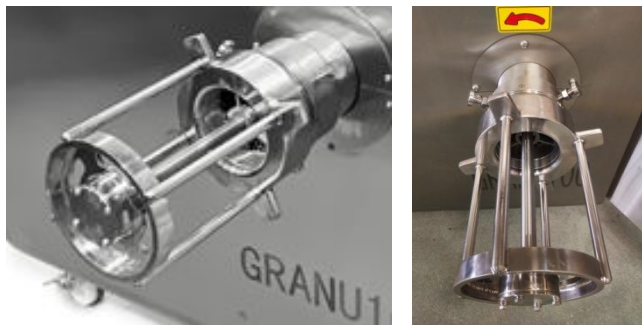
- **Special screws in high degree stainless steel (SUS 316)**

Both screws (conveyor and main screw) are placed in a 90 degree angle to optimize the product transport from one to another.

- **Cutting system**

The GRANU 100 is designed to work either many different cutting sets. Depending on the product we will recommend the suitable configurations.

- **Hopper designed to the production flow (special polished on high degree)**
The high level stainless steel hopper is designed to the production flow and is integrated
- **External bearing for main worm**
The external bearing is supporting the stability of cutting set and is recommended to increase the quality of the grinded material and the production flow. It includes two main components: an extension pin for the main worm and the external bearing unit.



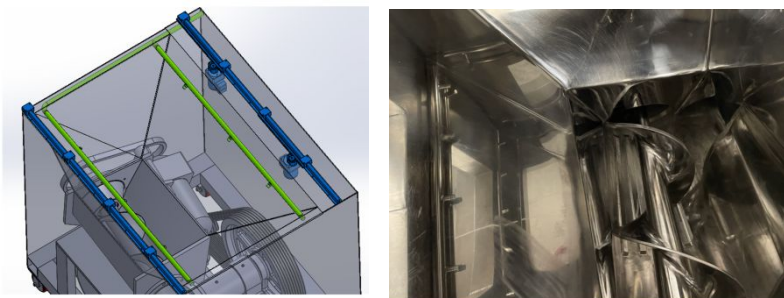
- **Automatic Spray system for additives or for cleaning with moveable lid**

After an automatic closing of the moveable two lids the cleaning process can be carried out.

A pipe- and spraying - system with nozzles supports a smoothly automatic adding of required liquids for a better production flow or for a required cleaning process of the main parts of the machine.

On request an external cleaning device (either moveable on rollers or fixed at the wall close to the machine) can be provided (not scope of the supply).

The lid can be closed automatically by using the buttons only.



- **Automatic Central Lubrication**

The automatic central lubrication system secures, that each lubrication point is greased sufficiently. Faults in maintenance work can thus be avoided and the machines life prolonged.



- **Variable, frequency converter controlled AC-drives for main and conveyor screw**

Using variable drives offers an asset in flexibility together with a higher economic efficiency and preserves the machine through avoidance of harmful mechanical and electrical peak loads. The electricity consumption and especially the starting current are markedly reduced.

Thus, it is possible to adapt both crews to each other in a precise way which leads to a higher quality result.

- **PLC: Control with key pad**

The modern and reliable PLC control is operated easily with the key pad. The speed of the conveyor as well as the main (cutting) screw can be adjusted at the machine for an optimized output.

- **Roller for machine**

The GRANU 100 can be equipped with 4 rollers, which will support the mobility especially for further cleaning and inspection.

- **Hydraulic Screw discharger incl. hydraulic aggregate and electrical connection**

The machine can be equipped with a hydraulic system which moves the ejector of the main screw, a most welcome device (especially for very sticky products, like SAP) to push the screw out of the screw housing.



- **Remote Control via OPC-OA Server / Industry 4.0 (according to customer request)**

The machine can be equipped with the most modern technology for a remote control and/or integration into process lines with self adjusting technology with sensors and/or online visualization of process data incl. storing (Industry 4.0)



- **Separate switch cabinet, stainless steel (Stand model with base)**

The electrical components are integrated in a separate switch cabinet and are thus well protected against impurities and also easy to reach in case of maintenance or service. The separate switch cabinet is connected with the machine through a 3 m cable (other length on request).



- **Power main screw drive 30 kW, 400V, 50 Hz**
- **Power conveyor screw drive 1,5 kW, 400V, 50 Hz**



Dimensions:

