



High Speed Super Rapid Super Mixer Granulator TVG



This Vertical Granulators have a long history in the pharmaceutical industry, they are always first choice when the process needs high granulate density and rapid granulation. In addition, they have low space requirements, are simple to operate and easy to clean.

This Vertical Granulators adopt conical working vessel and "Z" shaped rotor blades and various product-optimized choppers. HMI touch screen and Siemens PLC control system, operation is simple. It can be filled manually by means of containers with lift and transporter devices or pneumatically by means of suction conveyor systems. The finished granule is discharged from the working vessel into a fluid bed machine or a container. It can easily be incorporated into horizontal or vertical product flow. A Rotor Mill is often used downstream in order to achieve a homogeneous granulate spectrum.

Working Principle:

In the Wet Granulation process, powder is presented in the vertical granulator and subsequently moistened or sprayed with molten material. The shear forces produced by the Z-shaped rotor blades lead to an intensive mixing of the powder and, with the addition of binder solutions, to the rapid formation of high-density granulates. The chopper on the side wall of the container assists the formation of larger agglomerates.

1. Machine Description

This machine is suitable for mix different powder material and granulate, wet granules in one procedure.

The principle of action is based on:

- 1) Feed the powder material into the container of granulator.
- 2) Dry mix by the rotor stirring oar
- 3) Add binder make wet material
- 4) Break the wet material to wet granules by cutter.

2. Technical Parameters

Model	TVG-100	TVG-200	TVG-300	TVG-400	TVG-600
Gross Volume	100L	200L	300L	400L	600L
Working Volume	25-70L	50-150L	60-220L	100-280L	150-400L
Material Feeding Capacity (density:0.5g/cm ³)	12-35Kg	25-75Kg	30-110Kg	50-140Kg	75-200Kg
Stirring Motor	7.5Kw	15Kw	22Kw	22Kw	30Kw
Stirring Speed	30-360rpm	30-260rpm	20-200rpm	20-200rpm	20-200rpm
Chopper Motor	3.0Kw	4.0Kw	7.5Kw	7.5Kw	11Kw
Chopper Speed	50-3000rpm				