

TVG 10/25/50/100/200/400 Wet Granulation Machine



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.

Technical Parameter

Model	TVG-10	TVG-25	TVG-50
Gross Volume	15L	30L	70L
Working Volume	2-10L	5-20L	10-45L
Main Motor	2.2Kw	2.2Kw	5.5Kw
Main Motor Speed	50-720rpm	50-720rpm	25-500rpm
Chopper Motor	0.75Kw	0.75Kw	2.2Kw
Chopper Motor Speed	300-2850rpm	300-2850rpm	300-2850rpm
Machine Dimension (mm)	1050X500X 1300	1050X500X1300	1700X730X1650
Machine Weight	165 Kg	200Kg	500Kg
Model	TVG-100	TVG-200	TVG-400
Gross Volume	120L	270L	500L
Working Volume	20-80L	50-180L	100-330L
Main Motor	11Kw	15Kw	22 Kw
Main Motor Speed	15-350rpm	6-230rpm	5-160rpm
Chopper Motor	3.0Kw	5.5Kw	7.5Kw
Chopper Motor Speed	300-2850rpm	300-2850rpm	150-1440rpm
Machine Dimension (mm)	1750X780X1750	2115X1615X2350	2700X1565X2235
Machine Weight	700Kg	1200Kg	2200Kg