

## GTI-LG Lab Scale Pharmaceutical Granulator Machine



Fluid Bed Granulator is mainly used for mixing, granulating and drying power materials in pharmaceutical, food and chemical industries. For example granules of tablet, quick resolving drinking and condiment.

The powder particles in the container appear the state of fluidization. It is preheated and mixed with clean and hot air. At the same time, the solution of adhesive solvent is fogged and sprayed into the container. It makes some particles become granules that contains adhesive. Being of unceasing dry through hot air, the moisture in the granules is evaporated and the adhesive is solidification. The process is carried out continuously. Finally it forms ideal, uniform and porous granules.

## Working principle:

After being heated and purified, air comes up to a certain temp. and is taken to container by air motor, then through screen plate under the action of stirring and negative pressure, forming fluid, connecting between large area air and solid. The water of material (solid) is vaporized rapidly and taken away by air exhaust pipe, then reach the standard of drying the material. Fine powder flying off during dying process is collected by bag filter, then return to Fluid bed through ash removal device

## **Technical parameters:**

| LG<br>(dry +<br>granulation) | Weight<br>(kg)          | 60          | 100         | 200         | 300         | 400         | 500         |
|------------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                              | Container<br>Volume (L) | 160         | 320         | 668         | 1000        | 1200        | 1400        |
|                              | Product<br>Volume (L)   | 25%-<br>80% | 25%-<br>80% | 25%-<br>80% | 25%-<br>80% | 25%-<br>80% | 25%-<br>80% |