

# RICHTEK INDUSTRY

## *Rotary Granulator Wet Powder Granulator RT-W300/500/800*



This rotary granulator is a device that uses a set of relatively rotating milling knives to squeeze the material out of the granules through a stainless steel screen. This machine can be combined with conveyors and drying equipment to form an automatic production line, saving labor costs.

The machine-made granulation device is mainly composed of a mesh ring, a pressing blade, and a large-angle grinding knife. The material is extruded from the screen mesh through the knife to form granules. The machine is easy to assemble, disassemble and clean.

This machine is equipped with frequency conversion speed regulation and a special air cooling device, which can effectively and uniformly cool the entire granulating screen, granulating knife and materials, avoiding local cooling and blocking the mesh, and cooling and cooling the granulation of viscous and heat-sensitive materials. Separation function, the chassis is equipped with water cooling device.

This machine adopts double seals at both the granulating knife and the pressing knife to reduce dust and foreign matter from entering the reducer case and seizing the bearings. The grinding knife with a special shape is used to improve the processing technology of the granulating knife, which can reduce the heating of the material and reduce the squeezing force between the knife and the screen, thereby prolonging the service life of the screen.

### **Features:**

- 1.This machine adopts a horizontal cylindrical structure with a reasonable structure.
- 2.Pneumatic and sealed drive shaft, which can be switched to water during cleaning.
- 3.Fluidized granulation, the granulation is approximately spherical, and the fluidity is good.
- 4.Compared with the traditional process, 25% binder is reduced, and the drying time is shortened.
- 5.Each batch only needs 2 minutes for dry mixing and 1-4 minutes for granulation. The work efficiency is 4-5 times higher than the traditional process.

6.Completed in the same closed container, dry mixing-wet mixing-granulation, the process is shortened.

7.The entire operation has strict safety protection measures.

8.It can be made into a jacket type according to user requirements.

### **Working Principle:**

The powder material and the binder are fully mixed from the bottom mixed slurry in a cylindrical container to form a wet soft material, and then cut into uniform wet particles by a side-mounted high-speed crushing paddle.

### **Application:**

It is used for dry powder granulation requirements in edible pharmaceutical, pesticide, food, chemical and other industries.

Pharmaceutical industry-pharmaceutical granules, traditional Chinese medicine prescription granules, anti-biomass capsule filling granules, anti-biomass direct injection granules, animal medicinal granules, powdered dialysis preparations;

Food Industry-Granules for condiments and spicy condiments, granules for dessert preparation, granules for health food, granules for convenience foods, condiments, dairy products, and health care products

Chemical industry and others-cosmetics, pesticides, chemical industry drugs, animal feed, detergents.

Ferrite block talc, porcelain materials, oil-bearing bearings, electromagnetic materials and other metallurgical particles in the electrical and mechanical industries.

Phenol, urea, melamine, epoxy resin and other plastic molded particles in the plastic industry.

In the chemical industry and other industries, particles such as catalysts, fertilizers, feeds, pigments, cosmetics, flour milling and various detergent chemicals.

### **Parameter:**

<b>Model</b>	<b>RT-W300</b>	<b>RT-W500</b>	<b>RT-W800</b>
Capacity	300kg/h	500kg/h	800-1000kg/h
Power	5.5-15KW	11-18KW	22KW
Final size	0.5-3mm	0.5-3mm	0.5-3mm
Grinding knife size	300mm	500mm	800mm
Dimensions	1000*720*1350mm	1200*800*1500mm	2100*1150*1700mm
Weight	420kg	560kg	1980kg