

# 乾式造粒機

## ROLLER COMPACTOR



### 原理介紹 +

- 一般造粒：主要分成濕式與乾式造粒，所謂「濕式」就是在造粒過程中需加水或溶劑的黏合劑。
- 而「乾式」造粒，則免除了加水或溶劑，因此不需再乾燥（但仍可加黏合劑及潤滑劑）。
- 一些密度很鬆但比重非常輕且流動性差之原料，經過乾式造粒可獲得改善，成為假比重大、密度高、流動性良好的原料或成品。

### 適用產業 +

- 製藥：中藥、西藥、抗生素
- 化工、農產品、食品
- 將質輕密度低的粉末，壓成密度高流動性好的顆粒。

### 特點 +

- 乾式造粒：將粉末壓片、切碎、整粒三個製程設計成一體。
- 不必加水或溶劑，所以造粒後可得到穩定的顆粒。
- 造粒不需加水，所以不用乾燥，造粒過程較簡單。
- 造出的顆粒流動性非常好，能容易的充填入膠囊中。
- 可加選篩選機，將太細的顆粒篩出再做一次造粒。
- 可加選自動送粒設備以減少人力。



+



實驗型  
Laboratory Size



## THEORY +

Two categories of granulation methods : **WET & DRY**

### WET TYPE:

granulation requires water or solvent to be added during the granulation process; consequently a drying process is essential after granulation stage.

### DRY TYPE:

granulation eliminates the water, or solvent adding process, and as a result the drying process is not required. However binder or lubricant can still be added during the drying granulation process.

Some raw material have the characteristic of low density (low specific gravity) and bad flow ability. By using the Roller Compactor- dry granulation process, it will improve the above characteristics and result in a bigger bulk density, higher specific gravity and good flow ability of granules.

## FEATURE +

- Three functions in one unit compression, milling and granulating.
- No water or solvent is added, granules are highly stable after granulation.
- Without water adding in the process, drying process is not required. Therefore, granulation process is easier.
- The good flow ability of outcome granules can be easily filled into capsules.
- Option to equip a vibration sifter, it filtrates small or undersize granules for re-granulation purpose.
- An automatic suction conveyer for charging powder or granule is available as an option for saving labor cost.

## APPLICATION +

- **Pharmaceutical:** Chinese Medicine \ Western Drug \ Antibiotic Chemical \ Agriculture Product \ Food.
- Producing granules of higher specific gravity and better flow ability.

## 規格表 | SPECIFICATION

型號 Model	產能：公斤/小時 Capacity : Kgs/hr (B/D:0.5)	尺寸 Size(WxLxH)(MM)
YS-RC-5	02-05	800X1000X1800
YS-RC-10	07-10	800X1000X1800
YS-RC-30	15-30	900X1100X2000
YS-RC-70	40-70	1100X1200X2050
YS-RC-100	60-100	1100X1200X2051
YS-RC-150	100-150	1400X1600X3500
YS-RC-200	150-200	1500X1800X3500

\*Customized machinery for varied capacity. \*Capacity based on B/D:0.5