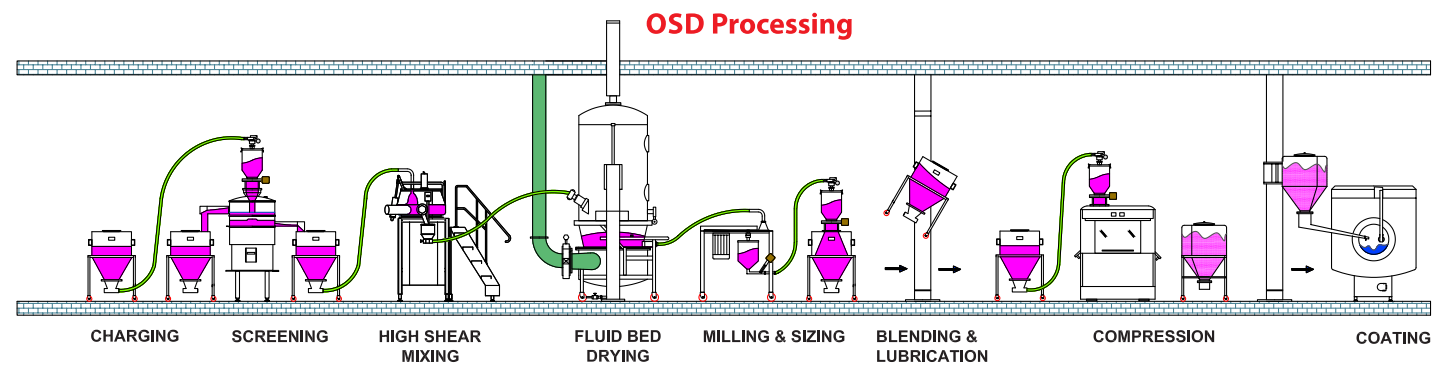


## ROLL COMPACTOR



Entire range of OSD granulation and Auto coating equipment covering range of:

- R & D scale from 0.1 kg to 5 kg
  - Pilot scale from 5 kg to 15 kg
  - Production scale 30 kg to 500 kg
- 
- Rapid Mixer Granulator
  - Vibro Sifter
  - Fluid Bed Dryer, Processor and Coater
  - Rotocone Vacuum Dryer
  - Wet and Dry Mills
  - Bin Blender, Double Cone Blender & Octagonal Blender
  - Paste Preparation Vessel
  - Auto Tablet Coating System
  - Vacuum Transfer System
  - Roll Compactor
- 
- Turnkey Solutions for Ointment / Oral Liquid Preparation & Filling is also available.



Roll Compactor is an ideal solution for any type of dry granulation process.

In Roll Compactor powder is compressed into solid form called ‘flakes’ using two counter rotating rollers. The flakes are gently milled to the required particle size as required by the process. Sieving is performed to achieve a tighter distribution.

Roll Compactor is widely used in the pharmaceutical, healthcare, food, chemical and agricultural industries for increasing the bulk density and reducing particle size in dry granulation process.

**Main Functions of Roll Compactor:**

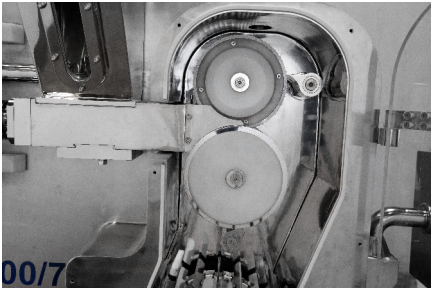
- Compaction
- Milling (Granulation)
- Sieving

**Salient Features:**

- In compliance with cGMP guidelines
- Uniform Roll forces and compaction
- Contact parts are made of SS 316, SS 420 and Delrin material
- PLC/HMI based operating panel
- Servo Motors for Feed Screw, Oscillator and Stirrer
- ACVFD for Roll Motor
- Hydraulic Power Pack for Roll Pressure
- Cooling System for Roll
- Vacuum System for removing air bubble from fine powder in Hopper
- Vibrator attached with Hopper for transferring complete powder to Rolls
- Hopper Level Sensor with Interlock
- Roll Gap setting through HMI
- Minimal Product Heating
- Dust free processing
- Low energy consumption

**Optional Features:**

- Plain and Knurled rollers available as per requirement
- Compliance as per 21CFR PART11
- Vacuum Powder Transfer System



**Rolls**



**Feed Screw**



**Oscillator**



**Discharge**

**Technical Specifications:**

| MODEL                         | RC-60/25       | RC-200/50      | RC-200/75        | RC-200/100       | RC-200/150       |
|-------------------------------|----------------|----------------|------------------|------------------|------------------|
| Roll Diameter                 | 60 mm          | 200 mm         | 200 mm           | 200 mm           | 200 mm           |
| Roll Width                    | 25 mm          | 50 mm          | 75 mm            | 100 mm           | 150 mm           |
| Output                        | 0.3 to 3 Kg/hr | 20 to 60 Kg/hr | 30 to 100 Kg/hr  | 100 to 250 Kg/hr | 100 to 350 Kg/hr |
| Roll Speed                    | 2 - 18 RPM     | 5 - 25 RPM     | 5 - 25 RPM       | 5- 25 RPM        | 5 - 25 RPM       |
| Feed Screw Speed              | 10 - 100 RPM   | 5 - 60 RPM     | 5 - 60 RPM       | 5 - 60 RPM       | 5 - 60 RPM       |
| Oscillation Granulation Speed | 1 - 100 RPM    |                |                  |                  |                  |
| Gap Between Rolls (±0.2)      | 0.3 - 4 mm     |                |                  |                  |                  |
| Roller Drive Motor            | 3 HP / 960RPM  | 5 HP / 960RPM  | 7.5 HP / 1440RPM | 7.5 HP / 1440RPM | 10 HP /1440RPM   |
| Roll Surface                  | Corrugated     |                |                  |                  |                  |
| Roll Material                 | SS 420         | SS 420         | SS 420           | SS 420           | SS 420           |
| Feed Screw Material           | SS 316         | SS 316         | SS 316           | SS 316           | SS 316           |