

Spheronizer

Spheronizer is the new pelletization range that builds on the proven Umang technology and its benefits. The design of the plate and the gap between the bowl and the chequered plate ensures that process and validation wise there is no difference to the **pelletization process**. This unique design of chequered plate, the chequered design of the plate cuts the **extrudes** in round **pharma pellets** making it an ideal **spheronizer** machine.

The outstanding feature of the **Spheronizer** is the integrated and CIP optimized design. Connections, cabling and supplies are completely integrated, covered and sealed so the outside of the machine is smooth and very easy to clean. The innovative discharge valve design and optimized seals inside the bowl allow for CIP. As a result of this the our **spheronizer** is highly flexible, quick product changeover increases productivity and cost effectiveness.

The **spheronizer** ranges from 100 gms / batch capacity to 100 Kgs./ batch featuring through the wall design and completely cleanable designs, allowing operation with platform and dust-free discharging via a linked mill directly into an IBC. The **Spheronizer** can be stand-alone or linked to a **extruder** like a **die roller extruder**, **screw extruder**, **basket extruder** or a **mixer extruder** giving a highly dense and uniform pellet. A Fluid Bed Wurster can also be a part an integrated system.



Standard Features for Spheronizer :

- Various designs of chequered plate starting from 1mm chequered size.
- Plate and shaft seals not in direct contact with the product
- Perfect cGMP-design: smooth covering, no external tubing and piping allowing easy cleaning
- Completely integrated full opening side discharge: perfect discharge of difficult products
- Through the wall installation: minimum space required in GMP area
- User-friendly operator-machine interaction via graphical operator panel 12" Industrial PC software with PROCESS + range of software which helps interlinking all plant equipments to a single system.
- Flexibility (processes and products) for spheronization or pellet line / pelletization process

Standard Features for Spheronizer :

- Explosion proof design
- Automatic cleaning (WIP/CIP) of entire system

- 21 CFR part 11 certified controls.
- ADVANCE PROCESS + for easy and automated granulation control
- Jacketed / insulated bowl
- Total containment through up- and downstream split valves and flexible isolation systems. Integration with mill and/or fluid bed possible: perfect closed link for dust-free operation
- Video monitoring of the process
- Product feeding both by gravity or vacuum loading system directly from the containers
- Validation documentation and assistance based on GAMP

Technical Specifications for Spheronizer :

Model	Spheronizer – 380	Spheronizer – 500	Spheronizer – 700	Spheronizer – 900	Spheronizer – 700(T)	Spheronizer – 900(T)
Batch Cap./Kgs.	0.5-3.2	3-10	5-20	15-50	10-40	30-100

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