

## Fluid Bed Coating

**Fluid Bed Coating** is the new mixer range that builds on the proven Umang technology and its benefits. Similar design of process bowl, mixer and chopper ensures that process and validation wise there is no difference to the mixing process. This unique design of process bowl, mixer and chopper makes the not only a perfect **wet granulator** but also an ideal machine.

The outstanding feature of the **Fluid Bed Coating** range 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 **Fluid Bed Coating** is highly flexible, quick product changeover increases productivity and cost effectiveness.

The **Fluid Bed Coating** ranges from 5 to 1200 liters featuring through the wall design and movable head, allowing operation with platform and dust-free discharging via a linked mill directly into an IBC. The **Fluid Bed Coating** can be stand-alone or linked to a **fluid bed** to form an integrated system.

The features of our **Fluid Bed Coating** are the following:

### Standard Features for Fluid Bed Coating :

- 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 Fluid Bed Coating :

- 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 Fluid Bed Coating :

Fluid Bed Coating Specification	Model No.	Unit	Micro Mini	Mini	1	3	5	15
Maximum Working	Top Spray	Ltrs.	-	1.2	4	16	16	16
Volume of Standard	Wurster	Ltrs.	50 ml.	0.6	1.5	5	8	19 8
Product Container	Rotor	Ltrs.	-	-	1.8(250)	7(380)	7(380)	7(380)

## Umang Pharmatech Pvt. Ltd.

Survey No. 146, H. No.1 (PT), Vasai Phata Highway Junction, Pelhar, NH8, Vasai (E) - 401 208, Maharashtra, India.

Tel: 022 - 30018900 & 30018915 - 98 | Fax: 022 - 30018908 & 30018913 | Email: [umang@umangpharmatech.com](mailto:umang@umangpharmatech.com)

Equipments for Pelletization & Granulation: [www.umangpharmatech.com](http://www.umangpharmatech.com) | Personal care ingredients & Bakery decoration products: [www.umangpharma.com](http://www.umangpharma.com) | Pharmaceutical and Nutraceutical pellet products: [www.umangpharmaceuticals.com](http://www.umangpharmaceuticals.com)