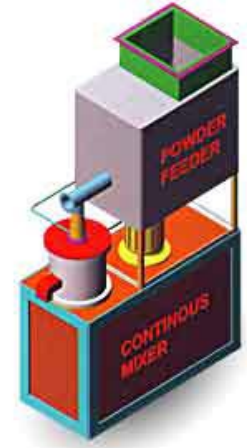


Continuous Mixers

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

The outstanding feature of the continuous mixers 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 Continuous mixers is highly flexible, quick product changeover increases productivity and cost effectiveness.

The Continuous mixers 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 Continuous mixers can be stand-alone or linked to a extrusion spheronization system or a fluid bed wurster or fluid bed processor to form an integrated system.



Standard Features for Continuous Mixers :

- Identical bowl + mixer + Nozzle configuration.
- Rotating driven due to the design of the machine : no seals 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 wet granulation.

Optional Features for Continuous Mixers :

- 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
- Liquid addition system (peristaltic pump / pressure vessel)
- Product feeding both by gravity or vacuum loading system directly from the containers
- Validation documentation and assistance based on GAMP

Technical Specifications for Continuous Mixers :

MODEL	Continuous Mixers - 250	Continuous Mixers - 350	Continuous Mixers - 550
OUTPUT	100KG/HR	250KG/HR	500KG/HR

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