

Twin Screw Extruder

Twin screw extruder is the new extruder range that builds on the proven Umang technology and its benefits. We have 3 designs in the equipments mainly Radial extruder, cone extruder, dome extruder and axial extruder, the variety of designs ensures that process chosen for the product and process suits its application like variable density in pellets needed as per the fill weight of the capsules. This unique design of the four processing heads not only a perfect wet granulator but also make the twin screw extruder a most preferable design for pharmaceutical pelletization.

The outstanding feature of the twin screw extruder range is the integrated, covered and sealed so the outside of the machine is smooth and very easy to clean. As a result of this the our Twin screw extruder is highly flexible, quick product changeover increases productivity and cost effectiveness.

The twin screw extruder ranges from 5 to 600 Kgs/ hr. 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 twin screw extruder can be stand-alone or linked to a high shear mixer for down stream integration or a spheroinizer for up-stream integration.

The features of our TWIN SCREW EXTRUDER are the following:

Standard Features for Twin Screw Extruder :

- Variable meshes from 300 - 1200 microns available.
- 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.
- Feeders for feeding controlled rate of powder for extrusion.

Optional Features for Twin Screw Extruder :

- Explosion proof design
- 21 CFR part 11 certified controls.



- ADVANCE PROCESS + for easy and automated granulation control
- Jacketed / insulated extrusion chamber
- Different processing heads like radial extrusion, axial extrusion, cone and dome extrusion.
- Total containment through up- and downstream split valves and flexible isolation systems.
- Integration with mill and/or spheronizer 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 Twin Screw Extruder :

MODEL	Twin Screw Extruder -60	Twin Screw Extruder -60/70	Twin Screw Extruder -100/110	Twin Screw Extruder -130/140	Twin Screw Extruder -170/180
Batch Cap./Kgs.	1-4	5-50	30-150	50-400	100-900

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