

Extruder Die

Extruder Die is the oldest **extruder** range that builds on the proven Umang technology and its benefits. We have a **die roller** and a **pressing roller** called as the **knurling roller**, the variety of designs ensures that process chosen for the product and process suits its application like high **pressure extrusion** giving dense pellets needed as per the fill weight of the capsules. This unique design of the machine makes it act as a **wet granulator** but also make the **twin screw extruder** a most preferable design for **pharmaceutical pelletization** or **pharmaceutical granulation**.

The outstanding feature of the **Extruder Die** 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 **Extruder Die** is highly flexible, quick product changeover increases productivity and cost effectiveness.

The **Extruder Die** 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 **Extruder Die** can be stand-alone or linked to a high shear mixer for down stream integration or a **spheroinizer** or a **Fluid Bed Wurster / fluid bed processor** for up-stream integration.



Standard Features for Extruder Die :

- Variable meshes from 800 - 7000 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 / wet extrusion for manufacturing pharmaceutical pellets.
- Feeders for feeding controlled rate of powder for extrusion.

Optional Features for Extruder Die :

- 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 Extruder Die :

Model	Extruder Die-65 L	Extruder Die-65 R	Extruder Die-65 E	Extruder Die-100	Extruder Die-130	Extruder Die-200	Extruder Die-270
Batch Cap./Kgs.	1-3kgs/hr	5-15kgs/hr	10-25kgs/hr	50-90kgs/hr	150-300kgs/hr	300-700kgs/hr	500-1500kgs/hr

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