

Die Roller Extruder

Model No.- VJDRE - 01



WATCH NOW



About VJ Instruments

At VJ Instruments, we're not just a pharmaceutical instruments manufacturer; we're a driving force behind scientific innovation in the fields of Pharmacy and Pre Clinical research. Since our inception in 2006, we have continually strived to revolutionise the industry by delivering world-class products that not only meet rigorous quality standards but also prioritise ease of use

Our team comprises seasoned professionals with extensive experience in the pharmaceutical industry and academia. We have a proven track record of excellence and a deep understanding of the unique challenges and requirements of the field.

Our Products are specifically meant for small animal behaviour research as well as tools used in R&D, pilot drug development. We also deal with innovative custom-based requirements, tailoring solutions to the specific needs of our clients.

Customer Support

At VJ Instruments, we recognise that our clients need to maximise their ROI over the entire lifecycle of ownership. For our clients, machine downtime is not acceptable. To support them, we maintain a dedicated team of service engineers.

Technical Support and Repair

Live and immediate technical support is available using all major communication tools.

Standard on-site response time.

Value Added Services

We offer our clients value-added services so that they can run their machines with the highest efficiency over time.

- Operator training programs
- Annual maintenance contract
- Machine upgrade consultations

*Terms & condition apply.

Industries we Serve



PHARMACEUTICALS



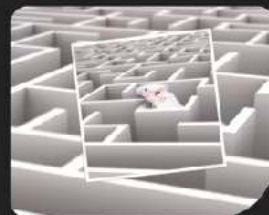
FOOD



COSMETICS



NUTRACEUTICALS



PRE-CLINICAL

General

The Die Roller Extruder in Operation.” This captivating visual guide takes you through the intricate process of the Die Roller Extruder, showcasing how it effortlessly transforms raw materials into precisely extruded products. Watch as the perforated and knurling rollers work in harmony, driven by a motor-controlled hopper, to produce high-quality outputs. Whether you’re in the food, pharmaceutical, plastics, or chemical industry, this video reveals how this versatile machine can optimise your production.

Application

The Die Roller Extruder is engineered to facilitate the extrusion of materials, making it an invaluable tool in various industries. It is especially ideal for applications that require precision and consistency in extruded materials.

Operation

The Die Roller Extruder features two horizontally placed rollers:

1. Perforated Roller: This roller is responsible for creating perforations in the material.
2. Knurling Roller: The Knurling roller adds texture or specific patterns to the extruded material.

Here’s a step-by-step breakdown of how it works:

1. Material is manually charged into the hopper.
2. the hopper includes a drum and blade provision attached to a motor. This motor rotates and drives the material into the feeding hopper situated between the rollers.
3. Due to the pressing nature of the rollers, the material is extruded through the perforations in the perforated roller.

This process results in precisely extruded material with the desired texture or pattern, making the Die Roller Extruder an indispensable tool for various applications.

Sr. No.	Specification	Details
1	Certificates	GMP, ISO, CE
2	Type	Single Screw
3	Production Capacity	2-6 kg/hr depends on formulation. Minimum batch size: 100 g/batch (Apprax): Maximum batch size 2kg 0.5 kg/h (Minimum) - 2 kg/h (Maximum) capacity output on continus batch.
4	Perforated mesh hole diameter	1mm Standard. optional 2.00 - 8.00 mm available with extra cost.
5	Product	Any Aqua base or solvent base formulation.
6	RPM of screw	10 to 150 rpm
7	Hopper Discharge	Auto discharge by gravity
8	Electric Accessories	440 V 3 Phase 50 Hz
9	MOC Contact Parts	SS 316
10	MOC Non-Contact Parts	SS 304
11	Hardware	Standard Make (Bearing shaft seal of SKF etc or equivalent)
12	Finish	Non Contact Area Matt Finish Contact area Matt Finish Machine part- Machine Finish
13	VFD	Delta
14	Drive Motor	Crompton or equivalent
15	Reduction Gear Box	Impel or equivalent
16	Cutter arrangement for extruder	A blade cutter arrangement capable of cutting the extruded material to make granule of desired length
17	Documents	User Manual
18	Electric Consumption	1 kWh
19	Dimension (LXWXH) in mm	540 mm (L) X 565 mm (W) X 415 mm (H)
20	Weight	85 kg. (Approximate) 150 kg. with packing (Approximate)

Some of Our Other Instruments.

<https://www.vjstruments.com/products/>



Note - Upgrading design is continuous process.

1. All the images displayed in the offer are for representation purpose only but actual may vary.
2. Dimension & weight may vary

Technical Specifications



International Clients



Industrial Clients



IITs, AIIMS, CSIR, Government & Private Institute

