



## ABOUT US

Metwiz Materials is a dynamic research and innovation center. We strive to identify problems, ideate solutions, create and innovate implementable solutions through practical applicability, tools, and research to solve real-world problems in the field of laboratory process equipment and embedded system development.



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## TABLE TOP HYDRAULIC PRESS

For Preparation of Samples for  
XRF Analysis or IR Spectroscopy.



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### WHY US

Metwiz Materials offers cost effective, reliable and high quality advanced laboratory instruments with customized solutions as our expertise.

### PRODUCT SPECIFICATION

Capacity: 20 Ton / 30 Ton

Operation: Manual / Semi automatic

Top Platen Size: 250 x 200 x 25mm

Bottom Platen Size: 250 x 200 x 25mm

Pillar Rod Size: 30mm x 410mm Length (4 Nos.)

Cylinder Bore Size: 100 mm

Piston Rod Size: 90mm

Stroke Length: 25mm

Hydraulic Cylinder Type: Single action

*Customization offered*

**PERISTALTIC  
PUMP**



**MANUAL  
HYDRAULIC  
PRESS**



**POT MILL/  
JAR MILL**

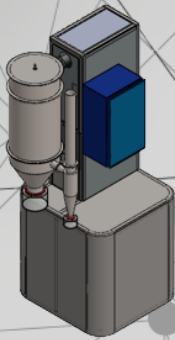


### KEY FEATURES

- Compact and sturdy
- Simple operation
- Acrylic doors for safety
- Calibrated pressure gauge

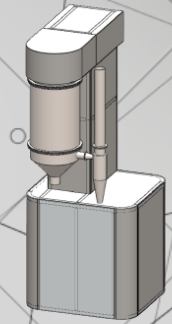


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## SPRAY DRYER

To produce powder with specific particle size and moisture content. Customizable to customer requirements.



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### PRODUCT INFORMATION

Model:

Type: Laboratory Spray Dryer.

What is Spray Drying?

Spray Drying is a process of drying water solution, emulsion or slurry to make soft agglomerate.

It is used in Ceramic Granulation, Pharma Industries, Fertilizer Industries, Industrial Chemistry and Food Industry. Spray Drying is used for preservation and granulation of food, milk powder, detergents, dyes, etc.

### KEY FEATURES

- Quick Process.
- Quality Stainless Steel Body.
- Aesthetic Design.
- High Precision Double Fluid Nozzle.
- Calculated diameter and height for maximum utilization of slurry, depending on various customized applications.
- Adjustable Peristaltic Pump.

#### PERISTALTIC PUMP



#### MANUAL HYDRAULIC PRESS



#### POT MILL/ JAR MILL



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## PERISTALTIC PUMP

To pump out highly reactive or clean liquids without exposing the liquid to contamination.

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### PRODUCT INFORMATION

Model: PP-M 01

Type: Peristaltic Pump

Motor: Gear-less Stepper Motor

Speed: Variable

Maximum Speed: 450 RPM

Least Count: 0.1 RPM

Operation: Continuous

Rotation: Bi- Directional

Electronics: ARM based Micro- controller

Input Supply: 230V AC/ 50Hz

Modbus Compatible

### KEY FEATURES

- Quality Stainless Steel Body.
- Compact Design.
- Simple Operation.
- Hassle free cleaning and maintenance.

PERISTALTIC  
PUMP



MANUAL  
HYDRAULIC  
PRESS



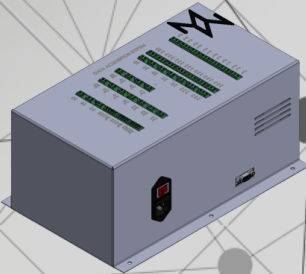
POT MILL/  
JAR MILL



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# DATA ACQUISITION SYSTEM

To log and store data continuously as well as periodically using a predefined timer for inputs like Temperature, Pressure, Current, etc.



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## PRODUCT INFORMATION

Type: Data Logger

Input: 24V, 4.5A

14 Temperature Channels (9 RTD and 5 K-Type), 6 Pressure Channels, 2 Dew Point Channels, 3 Mass Flow Channels.

7 Solenoid Valves.

3 Limbs of Voltage and Current.

Sampling Frequency: Multiples of 500ms.

Temperature Measuring Range: RTD- 0 to 250°C and K-Type- 0 to 400°C.

## KEY FEATURES

- Fully Customisable Channels as per requirement.
- User Friendly Software on PC/ Laptop Customized to user requirement.
- Sensor Monitoring and Live Graph Plotting during ongoing process.
- Logged Data can be stored in a Database which can be printed or exported to PDF.
- Switching Operation using Relays
- Data is backed up automatically to MicroSD Card.



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# SPHERONIZER CUM EXTRUDER

To produce spherical granules.



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## PRODUCT INFORMATION

Type: Spheronizer cum Extruder

Extruder Capacity: 100 gm/ batch to 1kg/ batch

Spheronizer Capacity: 100 gm/ batch to 250 gm/ batch

Max. Batch Processing Capacity (Combined): 3 to 5 kg/ day

MOC: Parts in contact with produce- SS316; Rest- SS304

Extruder Speed: 10 to 100 RPM (Variable)

Drum Speed: 200 to 3000 RPM (Variable)

Food Grade Silicon Gaskets

All Bearings and Oil Seals are isolated, to not come in contact with product.

Motor Capacity: 0.5HP

Power Consumption: 0.75 kW

Net Weight: 40 kg (Approx.)

L x B x H: 600 x 550 x 800 mm (Approx.)

## KEY FEATURES

- Suitable for producing Spherical Granules.
- Compact Design.
- Easy to Operate.
- Hassle Free Cleaning and Maintenance.

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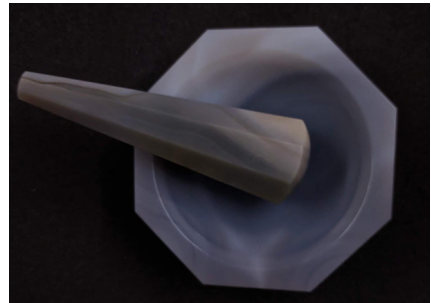
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**99.99% TRANSPARENT  
QUARTZ LABWARE**



**GREY AGATE PESTLE  
AND MORTAR**



**HARDENED STAINLESS STEEL  
DIE WITH HEAD**



**HARDENED STAINLESS  
STEEL DIE WITHOUT HEAD**



**METWIZ MATERIALS PVT. LTD.**

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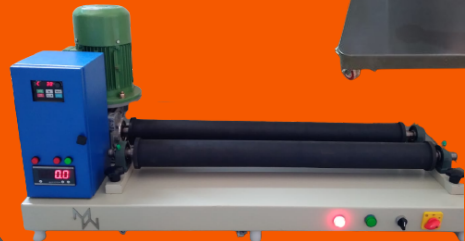
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Take your Research to  
the Next Level

# LABORATORY PROCESS EQUIPMENT AND EMBEDDED SYSTEMS

## PRODUCTS

TABLE TOP HYDRAULIC PRESS  
LABORATORY GRANULATOR  
LABORATORY JAR/ POT MILL  
EXTRUDER CUM SPHERONIZER  
DATA ACQUISITION SYSTEM  
FREEZE GRANULATION UNIT  
PERISTALTIC PUMP  
SPRAY DRYER



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