



# Lab Rotational Moulding Machine

## Model EN-200



**For your Research & Development, Innovations, Customization, Rawmaterial Testing , Small Batch Production & Training needs.**

*Innovation distinguishes between  
a Leader and a Follower*



# Single Station Bi-Axial Rotational Moulding Machine Model EN-200. ( Lab Model )

**Oven Chamber:** The oven chamber is constructed of stainless steel. To reduce heat losses an insulation of 75 mm is used. The oven is very compact and hence fuel efficient. The oven door has an inspection window. Top loading system is provided with ladder for producing multi-layer tanks. The oven is painted with Polyurethane paint for better appearance and long life.

**Burner:** Italian “REILLO” make burner, which is suitable for diesel and kerosene is used. The burner is most fuel efficient with low noise and smoke free firing. A two stage 10 micron filter is used for higher efficiency and low maintenance. It has flame failure indication along with safety feature which meets International safety standards. LPG or Natural gas burner is optional at extra cost.

**Re-Circulating Blower:** The impeller is made of stainless steel and is dynamical balanced. It is a high capacity, low R.P.M and low noise blower. The blower shaft is supported on both sides with maintenance free high quality bearing. 1.0 Hp TEFC standard motor is used to run blower. Standard taper lock “FENNER” make pulleys are used.

**U Arm:** Heavy duty U arm can take up a mould of 200 liter. Moulds rotate in both X and Y directions with 8 R.P.M max. Variable speed A.C drive duty motors are provided. Heavy duty gear box is used for smooth operation. Chain drive is used for low maintenance. Mould mounting is very easy & fast.

**Control Panel:** A user friendly control panel with adjustable mounting is provided with furnace. Toshiba made drives are used for controlling speed of major and minor axis motor. For getting uniform thickness auto reversal facility is provided. Digital voltmeter for three phases, digital temperature controller, phase indicator lamp, and cycle timer are provided for easy operation & control. Hooter, flame failure lamp, safety interlocks are provided for safety propose.

**Optional Features:** LPG or Natural Gas Burner with gas train. Programmable Logic Controlled ( PLC ) based control panel with touch Screen, Mist Cooling Fan , 380 V 60 Hz supply & Mould Peak Internal Temperature Measurement System.

## Specifications:

Type Of Arm	One U Arm
Maximum Weight on Arm	100 Kg
Spider Diameter	800 mm
Major Axis RPM ( X Axis )	0-8
Minor Axis RPM ( Y Axis )	0-8
Maximum Kcal/Hr	200000
Normal Usages Kcal/cycle	35000
Maximum Temperature oC	210
Circulating Blower CFM	3200
Supply Voltage - Standard Machine	415 V, 50 Hz, 3 Ph & N
Overn Circulating Blower Motor	1.0 H.P.
Major Axis Motor	1.0 H.P.
Minor Axis Motor	0.5 H.P.
Burner H.P.	0.25
Size Of Machine	L 3.4 Mtr x W 2.4 Mtr x H 2.0 Mtr.

## ENGINEERING YOUR GROWTH

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