

Specifications of EN-1000 Machine

EN-1000 is a single station bi-axial rotational moulding machine with one U arm, which has capacity to mount a mold of 1000 liter or 750 liter or 500 liter or 300 liter.

EN-1000 is most fuel efficient rotational moulding machine with low man power requirement and hence the production cost is very low.

EN-1000 includes the following equipments:-

1. 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.

2. Burner:

Italian "REILLO" make burner RL 40 G20, which is suitable for Diesel as a fuel 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 and natural gas burner FS 20 is optional at extra cost.

3. 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. 1.5 Hp LHP standard motor is used to run blower. Standard taper lock "FENNER" make pulleys are used.

4. U Arm:

Heavy duty U arm can take up a 1000 ltr x 1 mold or a mould of 750 liter or a mould of 500 liter or a mould of 300 liter. Moulds rotate in both X and Y directions with 6 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.

5. Control Panel:

A user friendly control panel with adjustable mounting is provided with furnace. **Toshiba or Schneider** 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.

Operating Parameters.

- | | |
|--------------------------|-----------------------------------------------------------------------|
| 1. Production Per Cycle: | 1000 ltr x 1 or 750 Ltr x 1 or 500 ltr x 1 or 300 ltr x 1 . |
| 2. Total Cycle Time: | 60 min. (Heating: 25 min, Cooling: 20 min, Loading unloading: 15min.) |
| 3. Production Per day: | 24,000 lit. Max (24 hrs). |
| 4. Production Capacity: | 24 tanks of 1000 lit. |
| 5. Electrical Load: | 3.5 Hp(415 volt 3 phase). |
| 6. Diesel Consumption: | 3.5 liter/cycle |
| OR | |
| Gas Consumption: | 2.9 kg/cycle |

7. Process Temperature: 180 degree.
8. Space for Machine: L 3.8Mtr x W 3.9 Mtr x H 3.7 Mtr.
9. Machine suitable for: Double layer, Triple layer, Four layer and Foam /Insulated tank.
10. Manpower: 2 Semi skilled persons.

Technical Specifications:

Model No. : EN-1000

Spindles.....	1
Maximum Weight on U Arm.....	200 Kg
Spider Diameter.....	1200 mm
Major Axis R.P.M. (x-axis).....	0-6
Minor Axis R.P.M. (y-axis).....	0-6

Furnace / Oven

Maximum Kcal / Hr.....	2,00,000
Usage Normal (Kcal/cycle).....	33,000
Maximum Temperature °C.....	250.0
Circulating Blower C.F.M.....	4500

Electrical

Supply Voltage.	415 V, 50 Hz, 3 Ph & Neutral
Oven Circulating Blower H.P (1 Nos.).....	1.5 HP
Major Axis Drive AC Motor H.P.....	1.0 HP
Minor Axis Drive AC Motor H.P.....	0.5 HP
Burner H.P.....	0.5 HP

Scope Of Our Supply :

Scope of supply includes machine and control panel as specified above.

Customer will have to provide for

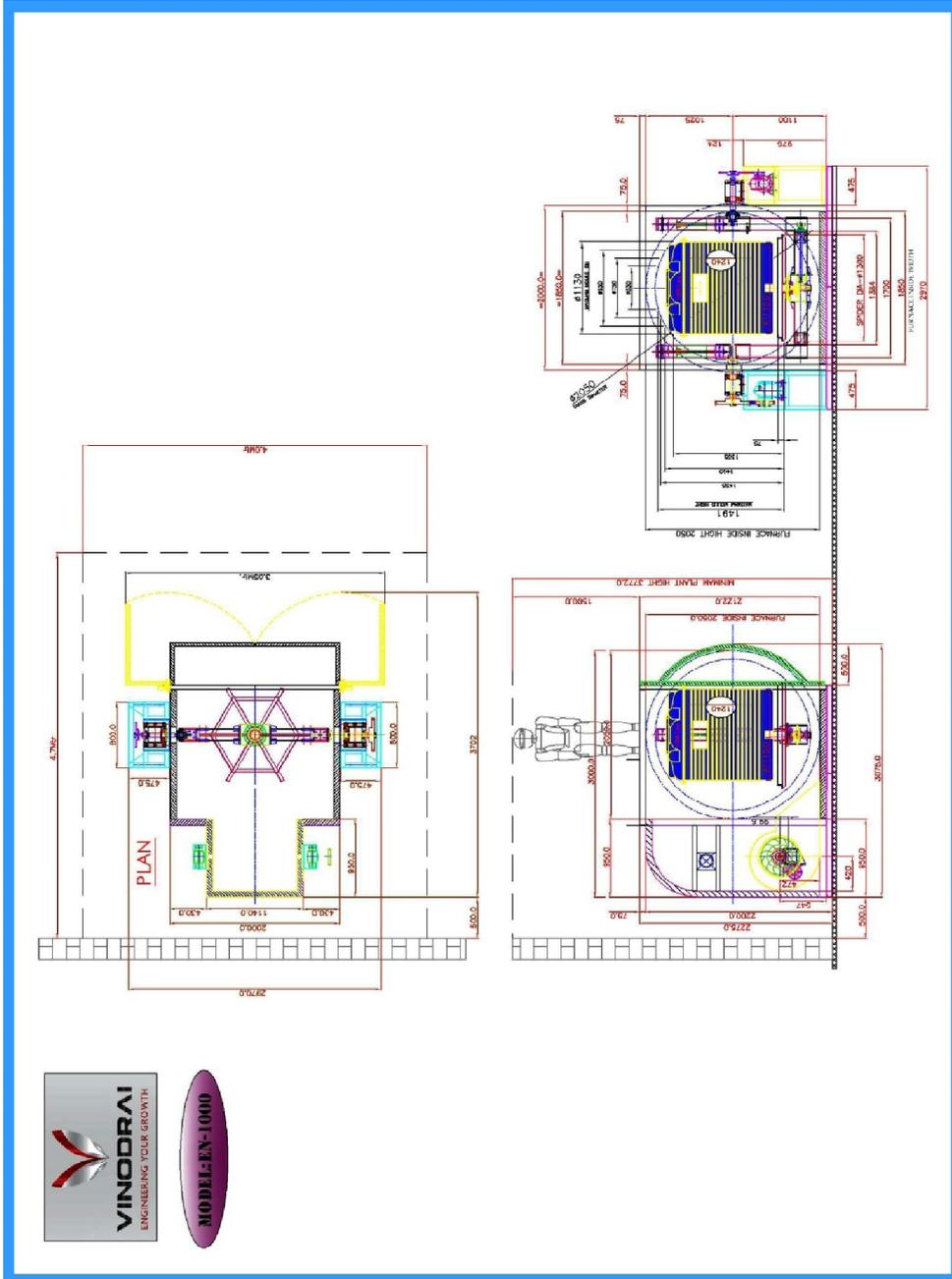
- 5) Plain and level ground for installation of machine.
- 6) Electrical connection up to panel.
- 7) Erection and commissioning as per agreed terms.
- 8) Diesel storage tank/ gas pipe line up to the burner.

Note:

Vinodrai also manufacture touch screen PLC based control panel on buyer's demand. It's a semi-automatic panel with ALEN BRADLY make PLC.

❖ Specification is subjected to improvement and development.

Vinodrai Engineers Pvt Ltd



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