Vinodrai Engineers Pvt Ltd

Specifications CS-10000 Machine

Vinodrai has the privilege, of being the pioneer in introducing India's first Clamshell range of Rotational Moulding Machine for manufacturing high capacity tanks. CS-10000 is bi-axial machine with one U-arm, which has capacity to mould a tank of 10000 liter vertical max.

CS-10000 is a fuel efficient rotational moulding machine with low power requirement and hence the production cost is very low.

CS-10000 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. Top loading system is provided with ladder for producing multi-layer tanks. For better appearance and long life the oven is painted with Polyurethane paint.

2. Burner:

Italian "REILLO" make burner, which is suitable for **Diesel** is used. The burner is most fuel filter is used. It has flame failure indication along with safety feature which meets International safety standards. LPG and natural gas burner is optional at extra cost.

3. Re-Circulating Blower:

CS-10000 has twin impellers which are made of stainless steel and are 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. 10.0 Hp LHP standard motor is used to run blower. Standard taper lock pulleys are used.

4. U Arm:

7.

Heavy duty U arm can take up one mould of 10000 liter or 5000 liter. Mould rotates in both X and Y directions with 4 and 6 R.P.M max respectively. 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 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: 10000 liter x 1 or 5000 liter x 1.

Specifications 2. Total Cycle Time: 120 min. (Heating: 50 min, Cooling: 50 min, Loading and unloading: 20min.)

3. Production Per day: 1,20,000 ltr. Max (24 hrs). 4. **Production Capacity:** 12 tanks of 10000 ltr.

5. Electrical Load: 22.5 Hp(415 volt 3 phase).

6 Diesel Consumption: 30 liter/cycle

OR

Gas Consumption: 25.5 kg/cycle Process Temperature: 180 degree.

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CS-10000



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Pot Ltd 10.

Space for Machine: L 11.5 Mtr x W 6.9 Mtr x H 7.9 Mtr.

Machine suitable for: Double layer, Triple layer, Four layer and Foam /Insulated tank.

Manpower: 2 Semi skilled persons.

Technical Specifications:

Model No.: CS-10000

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| Spindles | 1 |
|--------------------------------|---------|
| Maximum Weight on Straight Arm | 1500 Kg |
| Spider Diameter | 2800 mm |
| Major Axis R.P.M. (x-axis) | 0-4 |
| Minor Axis R.P.M. (y-axis) | 0-6 |

Furnace / Oven

| Maximum Kcal / Hr | 2,20,000 |
|---------------------------|----------|
| Usage Normal (Kcal/cycle) | 2,80,000 |
| Maximum Temperature °C | 250.0 |
| Circulating Blower C.F.M | 30000 |

Electrical

| Supply Voltage | 415 V, 50 Hzs 3 Ph & Neutral |
|--------------------------------------|------------------------------|
| Oven Circulating Blower H.P (1 Nos.) | 10.0 |
| Major Axis Drive AC Motor H.P | 5.0 HP |
| Minor Axis Drive AC Motor H.P | 3.0 HP |
| Burner H.P. | 1.0 HP |
| Hood Motor | 3.0 HP |

Scope Of our Supply:

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

Customer will have to provide for

- Foundation and civil work as required.
- 2 Electrical connection up to panel.

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- 2 T electric hoist for Loading / Unloading of mould and product.
- Erection and commissioning as per agreed terms.
- 5 Diesel storage tank/ gas pipe line up to the burner.

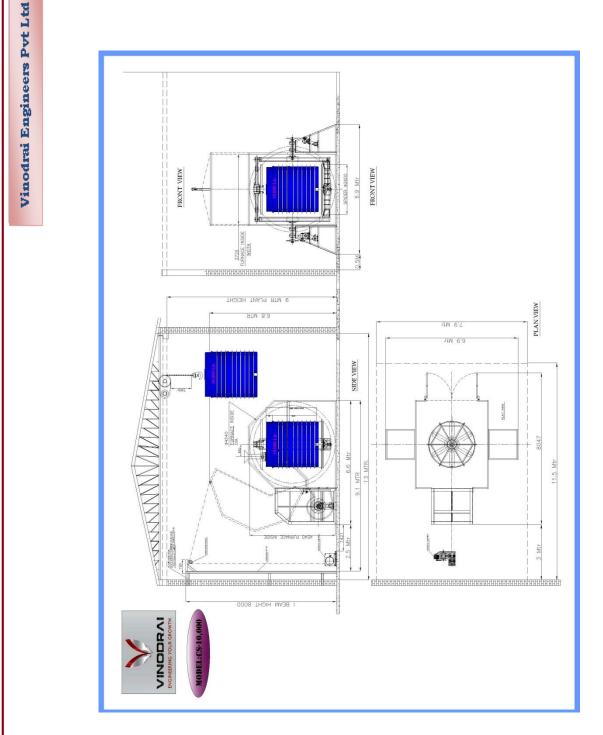
Note:

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.

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