

MAX FOAM PLANT

FOR PRODUCING FLAT TOP FLEIXIBLE PU FOAM BLOCKS

SLABSTOCK FOAM PLANT FM400



The FM400 is a high capacity machine for production of a continuous slab of flat top flexible PU foam with easy operation. Blocks of desired length can be cut with the help of a block cut-off machine at the end of the conveyor.

This machine comes along with a three conveyor system & a large touch panel for operation (PLC-Touch Panel).

All trial & production recipies may be stored in the PLC memory and can be recalled easily.



Square Foam Block
Produced on
ASE Foaming Line
FM400

Special Features:

- Three Conveyor System
- Recipe Storage and Recall
- Online Density and color change
- Silicone-Air Mixer
- Digital Mass Flow Meters for Polyol, TDI, Water and Mecl
- Top Film System to get Square Block Profile.



A.S. ENTERPRISES

An ISO 9001:2008 Certified Company

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INDIA'S LARGEST MANUFACTURERS & EXPORTERS OF POLYURETHANE FOAM MACHINES

The company policy aims at continuous improvement of the products, and therefore all rights to change the design and specifications without notice are reserved.
Pictures are only suggestive, actual machine may look different.

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STANDARD EQUIPMENT

CHEMICAL LOADING	Raw material loading pumps are provided for Polyol, TDI, MeCl. They are used for transferring the chemicals from drums to their respective tanks.																								
CATALYSTS TANKS	<table border="1"><thead><tr><th>S. No.</th><th>Chemical</th><th>Quantity</th><th>Capacity</th></tr></thead><tbody><tr><td>i</td><td>Water</td><td>1 Tank</td><td>500 Ltrs.</td></tr><tr><td>ii</td><td>Amine</td><td>1 Tank</td><td>100 Ltrs.</td></tr><tr><td>iii</td><td>SO</td><td>1 Tank</td><td>100 Ltrs.</td></tr><tr><td>iv</td><td>Silicone</td><td>1 Tank</td><td>200 Ltrs.</td></tr><tr><td>v.</td><td>Colors</td><td>4 Tanks</td><td>100 Ltrs. Each</td></tr></tbody></table>	S. No.	Chemical	Quantity	Capacity	i	Water	1 Tank	500 Ltrs.	ii	Amine	1 Tank	100 Ltrs.	iii	SO	1 Tank	100 Ltrs.	iv	Silicone	1 Tank	200 Ltrs.	v.	Colors	4 Tanks	100 Ltrs. Each
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CHEMICAL METERING	All the chemicals are metered with the help of suitable capacity geared pumps from internationally reputed companies (Viking USA). There are in all 9 chemical streams and air injection. Catalyst streams come with tanks, pumps, return valves and pipeline to and from the mixer Polyol, TDI and Mecl streams come with pipe, valves and flexible pipe upto 1.5m from the mixer. Output of all chemicals is controlled from the touch screen. TDI-Mag drive pump																								
FLOW MONITORING	Highly accurate mass flow meters are provided for Polyol, TDI, Mecl, Water. The flow of Polyol, TDI, Mecl and Water can be set on a closed loop program which automatically maintains the output of these chemicals as per the set values. Catalysts are metered through accurate RPM sensors.																								
MIXING HEAD AND MANIFOLD	It is high speed pin type stirrer with a 50 hp. AC motor controlled by a variable frequency drive. RPM adjustable from 0 to 5600 RPM. All the streams are fitted on to the mixing head via 3 way valves mounted on a manifold heaving pneumatic controls. A multi-groove belt is used for driving the mixer without slippage. All the Re-circulation valves are fitted to the manifold. Provision for adding 2 streams of Polyol and 3 streams for additional catalyst can be made against order. The machine also has a Silicone - Air mixer resulting in very fine cell structure.																								
FOAMING SYSTEM	Two aluminum troughs are provided with the machine. Troughs are made in one piece and have plastic holding system for easy maintenance. The fall plates are made in 5 sections each having independent motor for height adjustment and indication on the panel.																								
TUNNEL & CONVEYOR	A totally enclosed tunnel is provided with the machine. Side walls are adjustable in width from the control panel. Two Powerful fume extraction fans are provided in the tunnel, without duct. Bottom and side conveyors have strong Aluminum slats and heavy duty MS chain. The tunnel is made with heavy duty MS sections, covered with waterproof ply-boards.																								
PAPER FEEDING	Bottom paper feeder is placed under the foaming tunnel and the side papers are fed from vertical paper feeders located on both sides of the tunnel. All the papers are automatically rewound at the end of tunnel, with the help of re-winders driven by torque control drives.																								
ROLLER CONVEYOR	A three meter long free-roller conveyor is provided after the slat conveyor.																								
CONTROL PANEL	A walk-in type panel is provided with this machine. Pneumatic & electric controls are all placed in this panel and are clearly marked. All meters and gauges are mounted on the front for simple operation. Clearly marked MPCB are provided for all motors.																								
PLC & TOUCH SCREEN (HMI)	It is very easy to operate this machine through the touch screen display. Operating instructions are also included in the touch screen. All production formulas can be stored with given names. Online formulation change can be done easily. Fall plate settings are also done from the HMI.																								
OPTIONAL EQUIPMENT	Additional Polyol / Color streams, Chiller, Trolleys, Tanks for Polyol, TDI and Mecl																								

● Space Required : 50M x 6M ● Power Required : 90 KW. ● Power Supply : 410V AC 50Hz



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