

The history of Molan and Independent companies Dates back to 1946 when the original Company began trading in rubber and felt. This Company took up polyurethane slab-foam manufacturing in 1956 by license of BAYER AG.

Based on the long standing experience in developing and manufacturing Plastics, foams, non-woven material and rubber, the companies are oriented today towards the Technologies of Polyurethane and expanded polypropylene. The thermoplastic area is focused on road safety and sheets.

Companies:
Molan Werke AG, Schweiz
Vossino AG, Schweiz
Molan Pino, South Africa
Pino Componentes, Spain
Leichtform GmbH, Germany
Tim bv, Netherlands
Allmex AB, Sweden



Molan Reticulation Machine

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Reticulation Machine

Jigs and fixtures to realize the process

A cubic steel box loaded with foamed Plastics will be closed hydro-mechanically, to be shock and pressure resistant. It will then be evacuated by approx. 10 mbar by means of a vacuum pump.

The reaction mixture, consisting of oxidizing, flammable and phlegmatizing components, will be formulated in a high precision batcher and afterwards homogenized in the connected parallel piped dispersion mixer. It is then fed through an electropneumatic locking device into the reticulating receiver up to a variable Pf 1000 mbar.

As soon as the chosen pressure (Pv) is reached, the initiation of the reticulation operation will take place by a 5kV impuls ignition, started by a Pex of app. 10 bar with a temporary pressure dp/dt max of 10-50 MS arises.

Occuring water vapour with carbon deposits will be evacuated through the vacuum aggregate and blown out through a condenser with filter.

Once the pressure in the Receiver has adjusted to atmosphere, the loading-flap will automatically open and the reticulated foam will be ejected.

Technical Equipment:

The reticulation set-up consists mainly of 10 Groups: the control distributor, the receiver with feeder and discharging mechanism, the vacuum set, the storage and distribution system for reaction components, the dosing and mixing apparatus, the flametrap and the safety system, the redundant 3-circle safety system, the measuring and controlling instruments with digital operation programm and igniter.

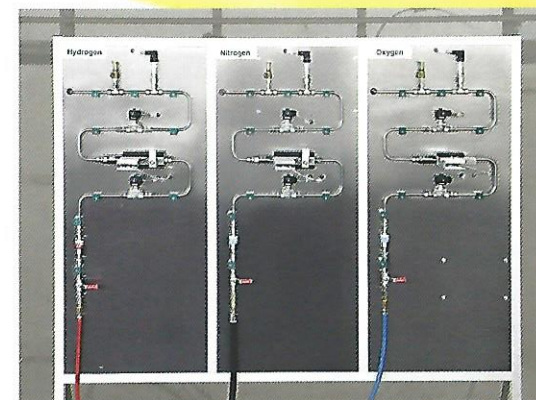
In case any necessary operating or safety part of the equipment is malfunctioning, the automatic Zero position will be switched on by a safety-control. All functions are combined to guarantee a trouble-free operation.

Molan

Reticulation Machine

State-of-the-art Technology

with Highest Safety Standard and Smart Operation Process



Chamber types:
WxHxL (inner size)

1200 x 1300 x 2150 mm

1150 x 1150 x 2150 mm

1600 x 1300 x 2150 mm

Customized sizes and roll adapter on request.