

A DEVICE FOR PNEUMATIC EXTRUSION OF DOUGH AND DEVICE USEFUL FOR DUSTING AND CUTTING OF DOUGH SHEET INTO GEOMETRICAL SHAPES

(Chapati sheet cutting machine)

The conceptual design of the machine is based on pneumatic extrusion of dough sheet followed by shaping the dough using slat cutter and a Teflon roller. All the contact parts of the unit are made of stainless steel. The unit is divided into three different sub assemblies i.e., the pneumatic extruder, continuously moving slat cutter and a return conveyor with a trough.

The pneumatic extruder is made up of SS-316 L material and can hold wheat dough of about 15 Kg. The extruder is provided with a thickness varying assembly to vary the thickness of the dough sheet. The width of the sheet is kept constant at 180 mm. The top of the extruder is provided with a cover plate, which is hinged at its end and will be opened at the time of loading the dough. The cover is closed after loading the dough and compressed air is admitted into the extruder. The normal extrusion pressure is around 6 – 8 bars. The dough starts coming out of the extruder in the form of a sheet, to the preset thickness. The extruded sheet is allowed to fall/rest on the moving slat cutter, which is dusted with dry wheat flour. The sheet spread on the slat cutter is dusted on top as well. The spreadsheet dusted on either side is passed below the Teflon roller, which punches the sheet into the slat cutter into a circular shape. The circular discs are collected in the tray for further processing. The uncut portion of the dough sheet is moved out of the slat conveyor by a return conveyor and collected in a trough. The uncut portion is mixed with the fresh dough for extrusion.

SUPPLIERS OF THE MACHINE

The following firm has taken our design drawings and manufacturing the machine as per our specifications. For requirement of the Chapathi sheeting machine you may contacted to the following address.

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