

AUTOBOND Laminating Machinery

the leader in laminators

Autobond Mini T 74 x 74



Photo shown of Mini 52 Model

Laminator

Maximum sheet size 74 x 74 cm. This machine is a single sided, thin film thermal laminator with a perfecting option (P). The laminator is of heavy-duty construction, using 30 mm steel side plates with 150 x 80 mm steel support beams. The roll of film is mounted on a quick-change airshaft with film tension controlled by a pneumatic brake. The film roll has a trim slit and perforating mechanism. The rollers are heated with a sophisticated Swiss made temperature control unit. There are two laminating rollers; a highly polished 240 mm diameter chrome roller, and a 150 mm diameter rubber roller. These are pneumatically adjustable up to 6 metric tonnes on the nip. The temperature control unit pumps very hot water into the chrome roller at a rate of 22-litres/ min, and immediately back to the TCU for re heating.

Feeder

The machine is fitted with a bottom separation, continuous suction feeder with a Stahl suction drum feeder. A three phase Becker pump is used to blow air down the side lays. The air inflates the pile from the bottom and sides, allowing the sheets to float on a bed of air. The suction drum feeds the bottom sheet forward at speed into the laminating nip where it meets thermal film. The feeder is continuously replenished with sheets top loaded on the run, every three of four minutes, thus providing continuous feed.



FOR FURTHER INFORMATION PLEASE CONTACT OUR HEAD OFFICE



Toll Free 1300 885 550 Fax 02 9531 1199
Phone International +61 2 9037 4402
Email info@graph-pak.com.au
Address Unit 3, 59-63 Captain Cook Drive, Caringbah NSW 2229
www.graph-pak.com.au

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Perfector

A printing term for two sides in one pass. The perfecting option consists of an extra film airshaft for mounting a bottom roll of film which then wraps around a preheat roller and the rubber roller. When a valve is opened, both the preheat and the rubber roller are heated with water from the TCU at a rate of 55 litres/min.

Magnet (optional)

The bottom airshaft is driven for rewinding the release liner paper backing from the roll of 0.3 mm thick magnet onto an empty core. The magnet passes underneath the bump roller section before reaching an idler roller and then the pre-heat roller. The idler roller is the separation point of the paper release liner from the magnet. Rolls of magnet are mounted on mandrels fitted between extended side-plate arms. A second set of arms with a second mandrel can be fitted as an optional extra. Sheets are separated [cut] by the bump separator and delivered into the vibrating jogger.



Sheeter

The Autobond bump sheeter runs in line. Features include a digital sheet counter, an adjustable anti curl bar, pneumatically adjustable in feed nip rollers, and a pneumatic air clutch to give a constant tension between the laminator and the sheeter. Start/stop and speed up and down controls are located at the jogger end. Maximum speed is 45 metres/min. Electrics are three phase 380-415 v.

Shingle Delivery (optional)

Designed to increase one man operation capability, the shingling unit extends from the rear of the laminator. You will be capable of controlling the shingle to offer a smooth transport of the laminated sheets into the jogging box.

Chill Rollers (optional)

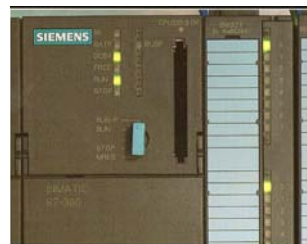
The Chill Rollers increase net operating speeds when running both sides at once (perfecting). The Chill Rollers remove the heat from the laminated product and reduce risks of blocking due to "hot sheets" – ideally aimed at laminating stocks under 150gsm both sides.

Electronics

The machine is fitted with a Siemen's programmable logic controller, which controls all machine functions. All drives are digital AC inverter drives.

The machine is fitted with Siemens Sinamic and Simotion motion control programmable logic controllers and drives, which control all machine functions. All drives are digital AC drives. Electrics are three phase 380-415v. Siemens electronics provide remote machine diagnostics via an Ethernet connection to Autobond technicians.

Siemens products provide remote machine diagnostics, via a modem link, to Autobond technicians.

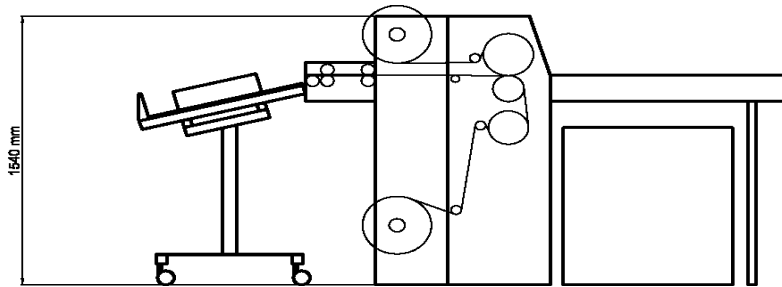


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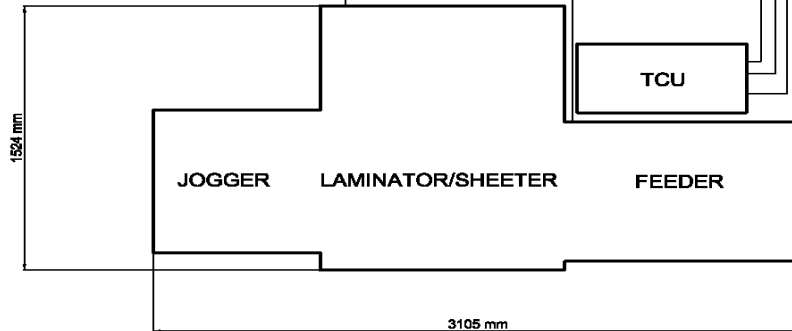
MINI 74 X 74 TP
FLOOR PLAN AND TECHNICAL SPECIFICATION

LAMINATING LINE + JOGGER
 380-415V 3AC, NEUTRAL + EARTH
 50Hz, 20 AMP, 13.8KVA
 DIRECT CONNECTION TELEPHONE LINE

COMPRESSED AIR SUPPLY
 100L/MIN @ 7 BAR
 (COMPRESSOR SUPPLIED BY THE CUSTOMER)

TEMPERATURE CONTROL UNIT (TCU)
 (WATER HEATER)
 380-415V 3AC + EARTH, 50Hz, 20 AMP (12 kW), 13.8KVA

WATER REQUIREMENTS
 @ 2 BAR
 20mm DIAMETER SUPPLY MINIMUM
 20mm DRAIN @ 100°C - COPPER PIPING REQUIRED FOR FIRST 2M
 NOTE: A BUCKET OR CAN, CANNOT BE SUBSTITUTED FOR A DRAIN



NOTES:
 YOU WILL NEED A PLUMBER AND ELECTRICIAN
 TO MAKE THE FINAL CONNECTIONS.
 AUTOBOND RECOMMEND A MINIMUM OF
 1.5M ACCESS AROUND THE MACHINERY
 OPERATORS WALKWAYS AND STEPS NOT SHOWN