

# E. J. JACKAMAN LIMITED.

## VACFORM MACHINES

### Model 438 Automatic Reel Feed

This modern single heater type automatic thermoforming machine is constructed within a strong mild steel box section framework, guarded with wire mesh panels integral to the main frame, and suitably finished with neatly fitting sheet metal panels which are easily removable to provide access into any part of the machine.

The machine is designed to operate on manual or automatic mode and includes all sequences associated with any thermoforming operation.

The unit is fitted with reel feed, indexed electronically by timed sequence through geared motor linked to a short pin chain drive for material transport.

**ELECTRICS** : All electric controls are housed in the main control box at the front of the machine, the panel of which is clearly engraved from black and white traffolite.

**PNEUMATICS** : All pneumatic valves are neatly fitted to a special air reservoir within the frame. This reservoir also provides a safety feature in the event of air failure to the unit during operation, in as much as that sufficient air is stored at any time to return the heater to it's rest position to prevent damage to the heated sheet.

**HEATER** : The heater oven has a 9450 watt output and is controlled by 20 energy regulators. This excellent control of heat pattern facilitates fast and efficient cycles.

**VACUUM** : The vacuum reservoir tank is coupled to a high performance oil lubricated vac pump, as well as being fitted with a reliable non return valve to ensure the highest possible displacement. The system also contains twin vac solenoid valves to provide optimum air flow.

**CLAMP FRAME** : The hingeing of the clamp frame is self compensating to all thicknesses of sheet being used. The hinge bar is drilled to accept sub frames when needed.

**DRAPE TABLE** : This is fabricated from steel plate to provide a solid sturdy platform. The four corner extremities are drilled and tapped for mould fixing. There are two vacuum ports and two inflate/eject ports equally spaced to assist rapid air flow.

**INDEX** : The index is driven by a motor gearbox fitted with integral brake, thereby producing the acceptable repeat accuracies associated with this type of equipment. Length of index is governed by electronic timer with tolerance of  $\pm 1\%$ .

**MATERIAL TRANSPORTER** : This is a short run of pin chain on either side of the web, adjustable for any width of web within limitations of the machine.

#### **GENERAL :**

All proprietary components are purchased from reputable suppliers.

#### **SPECIFICATION :**

Forming area.....	: 35" x 23"
Sheet width max.....	: 25"
Drape depth.....	: 6"
Maximum index length.....	: 40"
Air pressure needed.....	: 80psi
ELECTRICS.....	: 3 phase, 4 wire and earth.
Electrical loading.....	: 15A per phase.

NOTE : Water cooled bolster can be supplied if required.

FANS : Four cooling fans are fitted as standard on this machine.

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