



## COMPLETE LINE FOR PULP THERMOFORMING MACHINE



- Complete pulp mill capacity 300 kgs/h
- **5 x machine TPM-1600 year 2023**
- Vacuum pumps line for 38 m3/min per machine
- Compressed air system
- 5 x auto stacker units and 12 air tanks

### **5 X Machine Model No.: TPM-1600**

Machine dimension L: 9665 mm by W: 2321 mm by, Weight: 21700kg

Direct hot press technology, no drying oven required

Construction materials

Frames: SS41 Carbon Structural Steel (Annealing)

Upper Transfer Mold Base: SS41 Carbon Structural Steel (Annealing) Lower

Forming Mold Base: Stainless Steel SUS304

Hot Press Mold Bases: SS41 Carbon Structural Steel (Annealing)

Stainless Steel for all wetted part

Effective moulding area L: 1.600 mm by W: 1.200 mm H: 100 mm

Horizontal travel length: 2100mm

One movable lower forming platen driven by servo motor

Three connected upper movable platens with 2-dimensional directions driven by servo motor Upper platen with flexible connection joints (overcome thermo-expansion)

The lower vertical moving platen for Hot Press 1 and Hot Press 2 are driven by a unique Electro/Mechanical Toggle System. The 4-x point toggle, servo driven and controlled by the PLC will optimise speed and precisions as well as parallelism during mould closure pressure 1s'Hot press side access mould change

1<sup>st</sup> Hot press force: 60tons (max.), 2<sup>nd</sup> Hot press force: 60tons (max.)

Equipped with lower platen mould alignment pin on the machine for quick mould change Automatic water spray bars cleaning mechanism for deckle ring edge



wash and mesh cleaning Water pressure: 2-3 bar for wash spray; 10-15 bar for mesh clearing

TFT touch-panel user interface with integrated control panel (Allen Bradley)

Average Pulp consumption: 65-90kg/hr (it depends on the characteristic of product) Heating element: Heater Cartridges by electricity

Tanks to stable air supply for forming platen and pressing platen New Rotary

Joint flexible air —vacuum pipe

Automatic central oil lubrication unit

Control Components.

AB / SIEMENS / EATON or FUJI/MITSUBISHI

Ball screw & Linear guide way bearing: REXROTH (Germany) or equivalent All pneumatic parts FESTO (Germany) or equivalent

Servo motor / HMI / PLC control: Allen-Bradley or MITSUBISHI with remote trouble shooting via internet

Electrical wire: for flexible cable drag chain (IGUS, Germany) or equivalent

| Model        | No. of M/C | Voltage/Ttz/Control | Installed Power    | Running Power |
|--------------|------------|---------------------|--------------------|---------------|
| TPM1600      | 5          | 400v/50hz & 24V/24V | 760kW/ea *3=2280kW | 50%-70%       |
| <b>Total</b> | <b>5</b>   |                     | 2280kW             | 1140kW-1600kW |



