



System: KMI 1300tp-50

Production: 50 Kg per hour,
Specification

Specification of TPM Pulp Thermoforming Machine

Machine Model No.: TPM-1300tp

Machine Dimension L: 7000mm by W: 2250mm by H: 3700mm, Weight: 13,000kg (28,660lb)

Direct Hot Press technology, no drying oven required

Construction Material: High Strength Carbon Steel with heat treatment is for structure.

Stainless Steel for all wetted part

Effective Molding Area L: 1300mm by W: 750mm by H: 120mm

Horizontal travel length: 1750mm; Vertical travel length: 380mm

One movable lower forming platen driven by inverter motor

Three connected upper movable platen with 2 dimensional directions driven by servo motor

Two lower vertical movement pressing platen driven by hydraulic pump

1st Hot Press force: 16 tons, 2nd Hot Press force: 25 tons

Automatic two water bars cleaning mechanism for deckle ring edge wash and mesh cleaning;

Water pressure: 3 bar for wash; 15-20 bar for mesh cleaning

One Forming Tank Recirculation Pump

TFT touch-panel user interface with integrated control panel

Average Pulp consumption: 30~50 kg/hr (it depends on the characteristic of product)

Heating element: Heater Cartridges by electricity

Equipped with special cooling system designed preventing from thermo-expansion of based plate

Stable air tanks for forming platen and pressing platen.

Control Components:

AB / SIEMENS

All pneumatic parts: FESTO (German)

Hydraulic unit: YUKEN (Japan)

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

Electrical parts: AB, SIEMENS

Additional fence guarding, safety relay, stop and emergency stop button

Machine mechanic installed power: 15KW

CE and ISO 9001 standard; UL certified electrical parts & wires

Electricity rating: a) power: 220V/380V/480V, 50HZ/60HZ b) control: 24V/110V/220V

- 1 Automatic die and decal wash system. This water is heated through a heat exchange system from the seal water in the vacuum pump.
- One air receiver and one air puff receiver tank with inline filter, regulator and lubricators.
- One pulp transfer pump 300 liter stainless steel circulation tank with automatic pulp level control from the pulpers.
- One 230 psi die and decal wash pump.
- One Travaini TRSE 125-1550 vacuum pump 60 Hp, 45 Kw – 20 cubic meters per minute @ 25".
- One 200 liters per minute seal water pump.



- One white water pump 500 liters per minute.
- One 700 liter stainless steel vacuum tanks and one white water return Pumps @ 600 liters per minute.
- One pulp screening vibrating screen.
- One compressor: 1300~2500 L/min, 7 bar
- Two heavy structural assembly frames.
- Technical Services Supplied for installation and start-up.
- Drawings
- Assembly
- Crating
- Loading
- Documentation
- Jobsite Installation Materials
- Spare Parts (limited supply)
- All required electrical wiring (Note: the Buyer shall supply at its expense all the necessary electrical power including transformer as required by Seller for the Equipment as well as all cables up to the Seller's control panels)

Single Source Pulping System

- Two Pulpers with 21Kw two speed motors @ 500 liters @ 4.2% and 3500 liters @0.6%
These pulpers work in sequence. You push the start button and #1 pulper fills up to the pulping level, paper is manually dumped into the pulper . The pulper then pulps for a preset time (on the panel) and then fills up to the final usage level. At this time the pulper drive goes down to low and automatically starts filling the circulation tank and vat. When the tank is empty the cycle starts over (pulper #1) and then the next pulper is selected #2 which has already gone through the same process as pulper #1. Then pulper #1 and so on.

Two pulpers supplying 50 Kg per hour

Pulp is supplied on demand to the pulp circulation tank by gravity.

- One 8,000 liter Stainless steel white water tank.

Requirement/per machine

Maximum installed power for machine & mold (heated by electricity): 340KW
