



KMI Information KMI-540-200

For KMI Pulp Moulding System # KMI-540-200, Machine with a single source pulping system #M540-200, Process #P540-200 c/w Three Pass, Two Zone Dryer D540-200, stacker and packing tables,

Delivery: 12 months from receipt of deposit for Machine

On site assembly: 4 weeks

List of Equipment supplied with each KMI pulp moulding machine M540-200

- Four face VFD driven stainless steel moulding drum with quick die clamps suited for quick die change, anti friction bearings (Platen size 1372 mm x 381mm)single face transfer.
- Automatic die and decal wash system. This water is heated through a heat exchange system from the seal water in the vacuum pump.
- Automatic transfer die oiling and cleaning system.
- Manual and automatic operating settings.
- One air receiver and two air puff receiver tanks with inline filter, regulator and lubricators.
- All necessary electrical controls and starters all wired to a control panel that can be run in automatic or manual.
- One stainless steel moulding vat with a constant pulp flow system for product weight control, one 1100 liters per minute pulp transfer pump and 450 liter stainless steel circulation tank with automatic pulp level control from the pulpers.
- One 230 psi die and decal wash pump and spray wash gun for cleaning dies.
- One Travaini vacuum pump 75 Kw – 50 cubic meters per minute.
- One 130 liters per minute seal water pump.
- One white water pump 900 liters per minute.
- One 1400 liter stainless steel vacuum tanks and white water return pump @ 900 liters per minute.
- One 900 liter stainless steel vacuum accumulator tank.
- Five heavy structural assembly frame epoxy coated.
- 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 37Kw drives @2400@ 5.5% and 5660 liter @ 1.8%
These pulpers work in sequence and are completely automated. You push the start button and #1 pulper fills up to the pulping level, the lift bin is loaded with paper manually, dumps into the pulper automatically. The pulper then pulps for a preset time (on the panel) and then automatically fills up to the final usage level. At this time the pulper drive goes down to low and is ready to use. This tank is selected and automatically screened and then fed into the pulp storage tank. The pulp is now ready for use in the pulp circulation system for moulding. When the tank is empty a red light comes on (pulper #1) and then pulper #2 which has already gone through the same process as pulper #1 is selected. Then pulper #1 and so on. Two pulpers supplying 340 Kg per hour
Pulp is supplied on demand to the pulp circulation tank by gravity. Two 12,000 liter white water tanks with agitators.

KMI Dryer D540-200:

- This three Pass Two Zone Dryer (for 54" system) has:
- Two 11.8 meter dryer zones.
- One main conveyor drive motor with a VFD control to match the speed of the moulder.
- One 2.5 meter lead-in conveyor with adjustable height.
- One automatic chain oiling system
- Fabricated from structural steel and heavy galvanized steel sheeting
- Has a continuous variable speed roller chain tray conveyors that automatically matches the moulding speed of the KMI moulder.
- Two Natural gas or oil burners Total 3,600,000 btu's
- Two plug circulation fans per zone. (285 cubic meters per minute)
- One exhaust fan per zone (126 cubic meters per minute).
- One inlet fan per zone.(75 cubic meters per minute)
- Has a high temperature cut off and E stops
- The dryer is complete with a user friendly PLC main control panel.
- One heat exchange system per zone, c/w stainless steel storage tank, pump, heat exchange coils for makeup air and the process water and related controls to operate the system.
- This heat exchange system removes heat energy from the exhaust and returns it back into the makeup air for the dryer and then goes into the white water tanks to heat them.
- The exhaust system includes a water recovery.
- The insulation is 10 cm and 15cm rock wool fiber board. The panels are assembled to provide a sealed enclosure.
- Paper lifts with built in scale and automatic dumping to pulpers.



- One set egg tray dies, 5- transfer and 20-forming dies are included:
- **Training** on the moulder and process is provided as part of the installation cost. All maintenance staff and skilled operational personnel are required to be on-site and assist in the installation of the equipment. All production staff required for every shift must be available for training during the last two weeks of installation. Schedule TBD by Seller Installation manager.
- **Technology improvements:** At KMI Pulp Machines we are always working on improvements to our products. Our primary focus is on energy savings and recovery from the dryers. These new improvements will be offered to our customers at cost for a period of three years.
- **Programming improvements:** KMI Software improvements will be offered at no charge. KMI Hardware improvements will be offered at cost for a period of two years.
- **On-site Technical visits:** During the warranty period of the KMI moulding system KMI personnel will visit the buyers' facility. While visiting the buyers' facility the seller will observe the operation of the equipment and made recommendations if required.

On site assembly:

Two weeks plus two weeks of training of pulp formulations and machine settings. Placement and reassembly of the system, electrical connections, air connections and water connections to be done by customer under the supervision of three KMI technicians. Exhaust on dryer to be vented outside by customer. All fluids required to run the system are to be supplied by the customer (example: Hydraulic oil, Glycol, chemical additives for moulded products... etc.)

Buyer is required to supply the following during installation:

1. Off-loading facilities on the arrival of the containers. Unload and place the system in its location. A 5 ton forklift during construction and a light mobile crane.
2. A crew of skilled construction workers for the duration of the installation and



commissioning of the machine. These workers will include a qualified electrician, pipe fitter and rigger with assistant to work under the supervision of KMI Pulp Machines Inc.'s technicians. Two technical people that will be the maintenance and operator staff for this system should be available for the duration of the installation

3. Connection of the electrical, water and natural gas (or Fuel oil) as required by the moulding system.
4. A sump or drainage for accidental spills – this will be needed during installation, training, and general operation. Even though this is a closed system, accidental spills occur.
5. Openings in the roof for exhaust duct, cooling tower and vacuum separator. Weather proofing of the ducts after installation. Note: Cooling tower is best vented outside the building.
6. Insurance to cover all risks during construction including damage or loss to new and existing equipment and buildings.
7. Access to fax, telephone, and email facilities for KMI Pulp Machines Inc.'s Technicians.
8. Compressor for the system is to be supplied by the customer.
9. Access to the site 12 hours a day seven days a week during installation.

- **Remote Internet link:**

We will be providing a internet connection in this systems; This is so that we could offer support to our customer and make program upgrades and or changes at their request from Canada However there are a few issues you should advised of if they want to use it.

1) We would provide an unconfigured VPN appliance in the control panel. The price doesn't include configuring the VPN and local network on site. You will have to get your IT department (or local IT support) to configure and integrate it with their existing network.

2) If they need support with setting up the VPN, this can be provided by the supplier based on a maximum of 2 hours telephone support @ a fee of \$600.00 USD. (They will likely need this). And if they require more than 2 hours a higher fee applies.

3) There is an annual fee for VPN support of \$100.00 USD covering a maximum of 5 incidences. It is suggested you purchase this ongoing support because if the network is down, we won't be able to connect.



TERMS OF PAYMENT: For the Equipment (f.o.b. Jacksonville, Florida), the Buyer shall pay the Contract Price in full to the Seller on the following terms:

- (a) By Wire Transfer: 35% of the total Contract Price in US funds, payable within 15 days of signing of this Quotation by the Buyer.
- (b) By Wire Transfer: 30% of the total Contract Price in US funds, payable within 75 days of signing of this Quotation by the Buyer.
- (c) By Wire Transfer: 30% of the total Contract Price in US funds, payable prior to shipping after copies of the:
 - i. Bill of Lading in 3 copies
 - ii Packing List in 3 copies
 - iii Commercial Invoice in 3 copies have been submitted to the client.
- (d) 5% of the total Contract price upon start-up

The costs of all bank charges, bank guarantees etc. are to be paid for the Buyer. Any such costs incurred by the Seller shall be reimbursed by the Buyer to the Seller on demand of the Seller.

This Agreement shall become a firm and binding contract only upon acceptance and signature of this Agreement by the Seller; notwithstanding such acceptance and signature, the performance by the Seller of its obligations under this Agreement is conditional on the part of the Seller, until such time as the Buyer fulfills its payment and delivery obligations set out in this Terms of Payment section.

GENERAL:

The Buyer shall pay any and all sales tax, value added taxes, goods and services taxes, transfer taxes and transaction taxes or other taxes that are or may hereafter be levied by any government or other taxing authority on any Equipment or services sold, leased, rented or otherwise provided by the Seller to the Buyer pursuant to this Agreement. The buyer shall pay for all certifications and inspections required before and upon arrival at its destination for equipment. (As required by countries regulations)

The Buyer shall be responsible for arranging for and expediting of work visas for the Seller's technical personnel, and such work visas shall be supplied by the Buyer to the Seller prior to such technical personnel arriving at the appropriate installation site. In addition, the Buyer shall be responsible and pay for the accommodation, meals, air transportation to the site and transportation costs of such technical personnel during their stay at or near the installation site. The buyer is responsible to cover transportation costs to and from the airport. Should the Buyer require additional time for the technical personnel beyond the Seller's standard installation time, the Buyer shall pay the Seller an additional amount of \$650.00 (US)/day. It is required that flights over five hours will be business class. Buyer shall be required to pay the cost of the translator if one is required.