

AMC

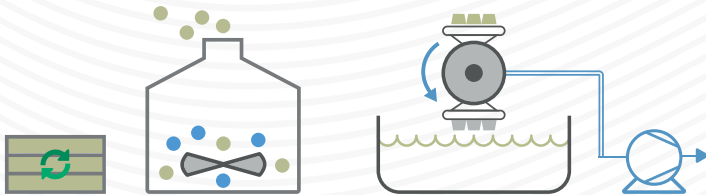


PULP MOLDING PRODUCTION LINE

Molded pulp products (MPPs) are an eco-friendly packaging that has gained commercial importance in recent years.

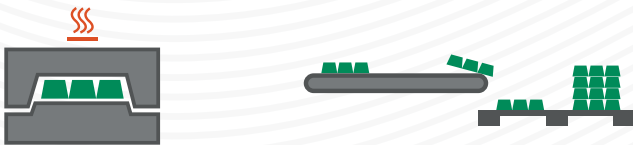
MPPs, also referred to as molded pulp or molded fiber products are made of wood fibers, essentially cellulose, typically from recycled paperboard, currently, molded pulp is being used as a green statement by some industries and the applications are broader in many fields, for example: Food Market, Industrial Packaging, Disposable Items.

Molded pulp is also used as a cushioning material for the protection of a product during transportation. With its high strength, durability and low cost, this material can replace wood and plastics. For many applications, molded pulp is less expensive than expanded polystyrene (EPS), vacuumed formed PET and PVC, corrugation, and foams.



1) Pulpers blend the raw material, mix it with water and the non-fiber material is removed.

2) Machines pull pulp onto molds and remove water by applying a vacuum to the form the product.



3) The part is pressed and dried by two heated matched halves of a mold.

4) Finished parts undergo a quality inspection and they are then stacked and palletized



Pulp Moldings are made from 100% recycled materials and are 100% recyclable.

Molded pulp is often considered a sustainable packaging material, as defined by the Sustainable Packaging Coalition, since it is produced from recycled materials, and can be recycled again after its useful life-cycle.

Molded pulp products can be made waterproof with a spray or dip coating of wax. In general, the production of molded pulp involves a water suspension of fibers being deposited onto a screened mold.

A vacuum is then applied, and the fiber-mat starts to develop some strength. Water can be removed by pressure applied to the slurry by means of a matched mold. After this phase, the molded preform usually reaches 50% in consistency (i.e. the mass fraction or percentage of solid in a given slurry) and is then completely dried out in a heated mold or oven.

MODULES

Pulping System

Is used to make liquid pulp from waste paper, such as used newspaper, waste carton, off-cut in paper making mills and printing factories, the machine blends paper fibers into slurry by creating a swirling effect within a chamber filled with water and waste paper.

The pulping system is mainly comprised of hydropulper, pulp pump, multi-function refiner machine blender, control cabinet, etc.

The machine is ruggedly built to withstand fluctuating heavy pulping loads and the walls are made of mild steel with rust preventive coatings. The special material used in cutter (Impeller) ensures aggressive cutting action with less input of power and time. The cutter is operated by an electric motor. Optional automatic waste paper conveyor can be attached to pulping system.



Moulding System

This Moulding system is used to mold the pulp products by using the relevant molds, such as egg trays, apple trays, bottle trays, electronic product packaging, etc.

It works when the paper pulp is transported into the forming mold. Besides, with the help of the vacuum pump, the pulp is pressed and adsorbed to the forming mold closely.

Meanwhile, most water in the pulp is pumped to the wastewater pool for recycling. Finally, the pulp is shaped up according to the molding dies.

The advanced design of control has independent control circuits for all operating units and conveniently located remote control operation ensures the operator to work comfortably and to have close monitoring of the process. Most of the sensitive operations are logic controlled and fail safe.



Drying System

Is used to dry the products and delivers out the same through the conveyor, is a tunnel type having independent metal trays coated with heat resistant coating and holders operated by automatic indexable conveyerized chain.

The conveyor is of multi-pass system to save energy, space and investment. The whole chamber is made in a strong fabricated structure and the walls are insulated to have minimum radiation loss.

Both sides can be opened easily for general maintenance and inspection. The inner walls and ducts are protected with heat resistant paint for long life. A safety clutch is provided to prevent any major accident while in operation.



APPLICATIONS

Food Packaging



Industrial Packaging



Disposable Items



BOX



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