

Columbia Machine Engineering (India) Pvt. Ltd.

CONCRETE PRODUCT SOLUTIONS
AND PALLETIZING SOLUTIONS



Hand stacking cases into pallet loads for storage or direct distribution has been around since the very first packaging lines were installed. However, as production rates increased to levels of 20 cases per minute and beyond, an automatic means for stacking cases became necessary. This created a need for an automatic solution, known today as the "palletizer".

Row-forming automatic palletizers were first introduced in the early 1950's. Pallet loads were created by product arranging on a row forming area and pushed onto a layer forming area. This process is repeated until a complete layer of product is formed and placed onto the pallet, until the pallet is complete and removed from the machine.

In the 1970's, the demand for higher speeds encouraged palletizer manufacturers to invent an in-line, continuous-motion palletizer. An in-line palletizer uses a continuous motion flow divider that guides the product into the appropriate location on the layer forming area until a layer is complete and placed onto the pallet.

Introduced in the early 1980's, robotic palletizers use an end of arm tool (end effector or product gripper) to pick the product from a conveyor or layer table and place it onto a pallet.

Both conventional and robotic palletizers can receive product at a high elevation (typically between 84" to 124" or low "floor level" elevation (typically at 30" to 36").

This has revolutionized the industry by allowing more efficient and faster means of handling finished goods. Thereby strengthening the entire supply chain and reducing turnaround time.

Columbia Palletizers

Our range of products includes Columbia **FI1000** 8 Feet Floor Level Palletizer, Columbia **FL3000** Floor Level Palletizer and Columbia **SP 4000** High Level Palletizer.





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