



Columbia Machine Engineering (India) Pvt. Ltd.

CONCRETE PRODUCT SOLUTIONS
AND PALLETIZING SOLUTIONS



WHAT IS PALLETIZATION AND WHAT ARE ITS ADVANTAGES?

Palletizing is simply the process of placing the FG on a pallet for convenient shipping especially in cases of high volumes.

Originally, palletizing was carried out with human labor, which involved manual work, placing boxes or heavy bags on pallets to load them on trucks, but increasingly, automated systems have taken on this task for the packaging of products.

How is the palletizing process?

Most companies that ship domestic and international merchandise place their products on pallets for safe and secure transportation.



Conventionally manual packaging has always been in use, but over time, industrial development and the increase in the number of consumables and industrial products has led to the need for the technical fraternity to develop a machine that reduces the effort and thereby the workload.

Palletization also allows the segregation of shipments when they are jointly loaded in trucks or containers for remittances abroad. Today, these machines are used in all types of industrial packaging, from small consumer products to high-tech industrial products and goods.

Gears, cardboard boxes, pails, bags or bales can be handled in this way. Most of these machines are available on the market, operate automatically, and are extremely easy to use.

Ideally, products are stacked in a pattern that maximizes the amount of product in the load by weight and volume, while being stable enough to prevent products from moving, tipping over, or crushing each other.

The goal is to avoid movement between the smallest units that make up a palletized load, since a shift in a single unit at the base of the pallet can cause the entire load to collapse, which can lead to product damage and / or personal injuries.

Typically, the palletizing equipment incorporates a combination of applied mechanical, pneumatic, and servo mechanical functions to meet the specific needs of palletizing.



The advent of automatic palletizers

Automatic palletizing was developed in the mid-1970s and used a combination of conveyor belts and industrial sorting and material handling equipment to organize standardized containers into preset patterns.

In its early days to stack products, each container layer was held in place and lifted on a conveyor belt and placed on the pallet. In order to alternate the stacking pattern, the entire pallet was rotated before the next layer was put into place.

Advantages of palletizing equipment

The advantages associated with palletizing equipment are numerous. The palletizing equipment have been working in the packaging industry for years and have proven to be extremely efficient and effective.



1. SIGNIFICANT SPACE SAVINGS:

Equipment of this type require less space than labor involved to handle an equivalent volumeat specific speeds and are available 24 hours a day. Use of complex equipment further reduces unnecessary labor.



2. EASY TO USE:

The palletizing equipment are easy to use and their handling as well as maintenance is extremely simple.



3. FAST AND CAREFUL:

The machines described above are designed to handle each object with care and to ensure that none of the objects and pallets you handle is damaged.



4. COST EFFECTIVENESS:

In addition to many other advantages, a palletizing equipment is extremely profitable. Reducing manpower at a particular site would result in much greater savings in the long run than is spent on purchasing such a machine.



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