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## MODULAR SMART PALLETIZER (DIMAPS)

## **DIMAK DIREN MACHINERY R&D**

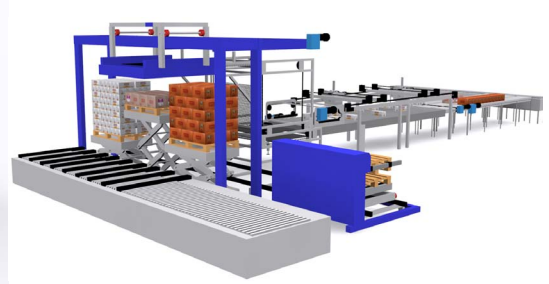
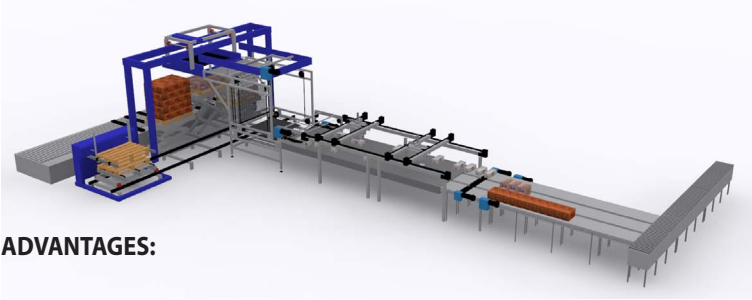
Having great contributions to the national economy by virtue of the long-standing background that dates back half a century and the knowledge possessed, Dimes Food Industry and Trade Company engaged with numerous research and development activities in the past and performed solemn studies as regards both the food processing operations and food processing machinery.

In line with the developments experienced in the economics of both our country and the world, Dimes Gıda established and carried into effect DIMAK Diren Machinery R&D Company in order to carry on the business in such manner capable of responding to the needs of all companies both in our country and in the countries located in the geography in a more institutional and more competitive environment by virtue of the studies carried out within its structure.

DIMAK Diren Machinery R&D is incorporated in İzmir Kemalpaşa Organized Industry Zone. It is a R&D company incorporated as regards research and development of the products related with the fruit juice and dairy products, food processing machinery and the machinery and equipment required by this sector.

Currently active in the field of "Food Processing Operations", "Food Processing Auxiliary Equipment", "Food Production Machinery", "Warehousing and Warehouse Management Systems", and "Logistic Operation Machinery and Equipment", Diren Machinery R&D implements very authentic projects intended for the Food Industry, which did not attract attention until this day, through its expert staff.

Computer controlled (PLC controlled) fully automatic “Modular Smart Palletizer (DIMAPS)” developed particularly for food enterprises with 3 distinct types or formats and capable of separating the parcel packages incoming from separate conveyors and pelletize on different pellets is capable of responding to the needs of all food enterprises by virtue of its maintenance-free structure.

**ADVANTAGES:**

1. The machine identifies parcel packages with various types and sizes incoming from the same line via barcode reading system and pelletize the same on separate pellets, thus the machine is capable of performing the pelletizing operation performed by 3 separate palletizers solitarily by means of a single operator
2. By virtue of its modular structure, it is possible to integrate pellet stretcher to the palletizer with ease.
3. The machine is suitable for use by the medium-scale enterprises by virtue of its maintenance-free simple structure and adequate production capacity
4. 75% reduction in the labor force
5. The machinery is an authentic palletizer developed by Dimak-Diren Machinery R&D and is distinguished from similar machinery by virtue of its kinematic structure and innovative technology
6. The bar-coded pelletized product identification system, which can be integrated to the palletizer upon request and recommended to all users by Dimak-Diren Machinery R&D is capable of recording and tracing all raw material and production data of the product from a single barcode
7. By virtue of this feature, the bar-coded product identification system which can be integrated to the information systems of the user enables the user to monitor products online



**TECHNICAL FEATURES:**

- Weight of Parcel Packages That Can be Palletized: 15 Kg (maximum),
- Width of Parcel Packages That Can be Palletized: 400 mm (maximum),
- Properties of Parcel Packages That Can be Palletized: PVC shrink or Cardboard Parcel Package with rectangular cross-section,
- Number of Different Parcels Incoming from a Single Conveyor: 3 (the machine is capable of stockpiling 3 types of parcels with different size and weight incoming from the same feeding conveyor to 3 different pallets. Upon special request, it is possible to manufacture machines capable of stockpiling 4 types of parcels to 4 different pallets with 2.200 parcels/hour capacity.
- Packing Capacity: 2200 parcels/hour (The capacity might vary depending on the parcel size at this capacity.)
- Size of Pallet on which the Parcels can be Palletized: Euro-pallet with 800 x 1200 mm and 1.000 X 1.200 mm size
- Parcel Entry Conveyor Code: 800 mm +/- 50 mm
- Full Pallet Exit Code: +/- 600 mm
- Full Pallet Weight: 1.200 kg
- Full Pallet Height: 1.500 mm (maximum)
- Machine Width: 7 m
- Machine Length: 18 m
- Machine Height: 3.5 m





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