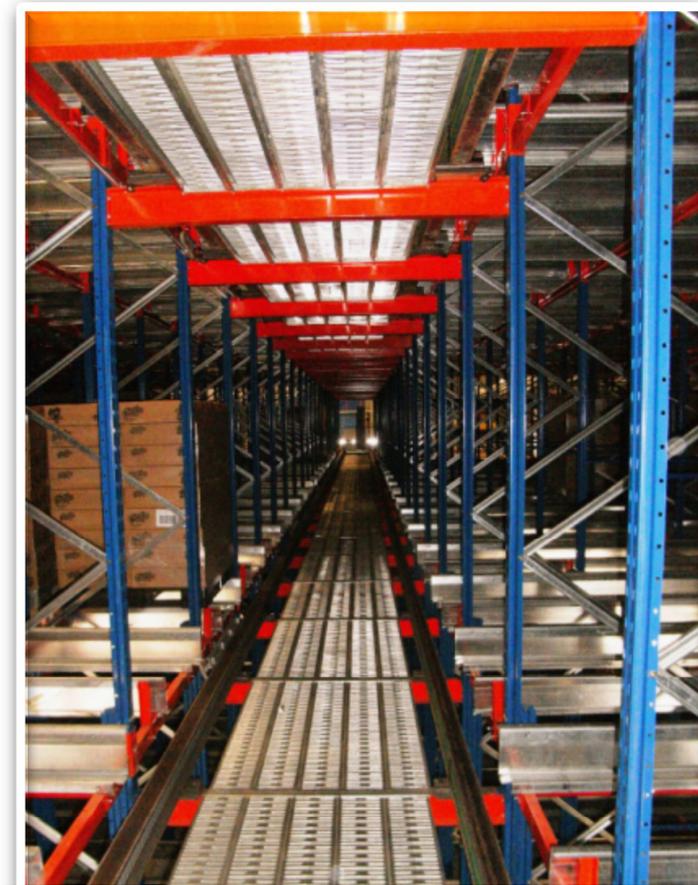


Beverage

PEPSICO – Saudi Snack Foods

Riyadh, Saudi Arabia



The Company

Saudi Snack Foods Company is a subsidiary of PepsiCo and amongst its major brands include Lays, Doritos, Cheetos, Sunbites, & Quavers in addition to the local Tasali brand. Thanks to strong global brands and excellent selling and manufacturing capabilities, PepsiCo has a strong presence throughout the region with sufficient scale to operate efficiently and expand the industry.

Problems and Objectives

SSFL has a strong presence in the GCC and Levant, and, due to a rapid market growth and expansion, the business required additional storage space and opted for additional inventory management, fast and precise order preparation activities, just in time inventory in order to be able to further manage and schedule production and delivery. System Logistics has been involved to support PepsiCo as a partner to figure out the complexity of SSFL plant needs and requirements and to develop and organize different logistic flow activities according to the growth of the market.



The solution and the results achieved

System Logistics provided SSFL Riyadh Plant with the design and turn-key installation of an HBWH for finished goods, in order to let the customer have goods stock, orders configuration and right deliveries under control.

First step, a storage capacity of 8,000 pallet slots has been obtained within an area of nearly 3,800 sqm installing a double depth internal rack 16m-6-level-high, where 6 stacker cranes operate. The entire system is dimensioned to be able to handle plastic pallets of 1,000mm x 1,200mm, with a maximum height of 2,000 mm.

Finished product pallets are built manually on 24 inlet bays which are connected to three stretch wrapper machines by two shuttles, transporting each one-two pallets and moving both on the same rail, sorting pallets according to the stretch wrapper machine availability. The third stretch wrapper machine is working as a spare machine, just in case one of the other machines would stop, in order to ensure high efficiency at the HBWH inlet. Furthermore, since the pallets are quite high and composed by light boxes, in order to avoid any damage before stretch wrapping, both shuttles are equipped by top pressure devices.

A main conveyor path constituted by roller and chain is connecting this part of the plant with the automatic warehouse inbound.

The handling system takes advantage of the SVL monorail steering shuttles technology to face the high flows of pallets required (150 pallets IN/150 Pallets OUT).

A loop with 11 independent steering shuttles (SVL) connects the storage section of this part to all the system peripherals, entry bays from the outside and shipping bays.

All the operations are managed by Systore® WMS, developed by System Logistics and connected to the company system SAP.

One and a half years later, due to the sharp market growth, SSFL asked for an expansion of the stock. System Logistics then designed and installed a multi-depth warehouse with 2,000 pallet places capacity to increase the total stock capacity of the Riyadh plant.

Today the nominal storage capacity is 10,000 pallets slots and inlet/outlet flows are consisting of 200 pallets/h.

TECHNICAL SPECIFICATIONS

Height: 16m

Dimensions: 3,800sqm

Stacker cranes: 6

SKU: 300

Pallets slots: 10,000

Pallet maximum load capacity: 300Kg/SKU

SVL: 12

Flows: 200 pallet/h in, 200 pallet/h out