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PENTA®

Handling plant for the production of concrete products

Individual solution for your plant

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Industrial automation since 1991

Production plant

Penta's wide range of products includes fully-automated handling systems which are becoming indispensable for the production of quality concrete products. Penta links its proven skills in designing handling system following the specific requirements of the customer with the achievement of the most economical and efficient production process.

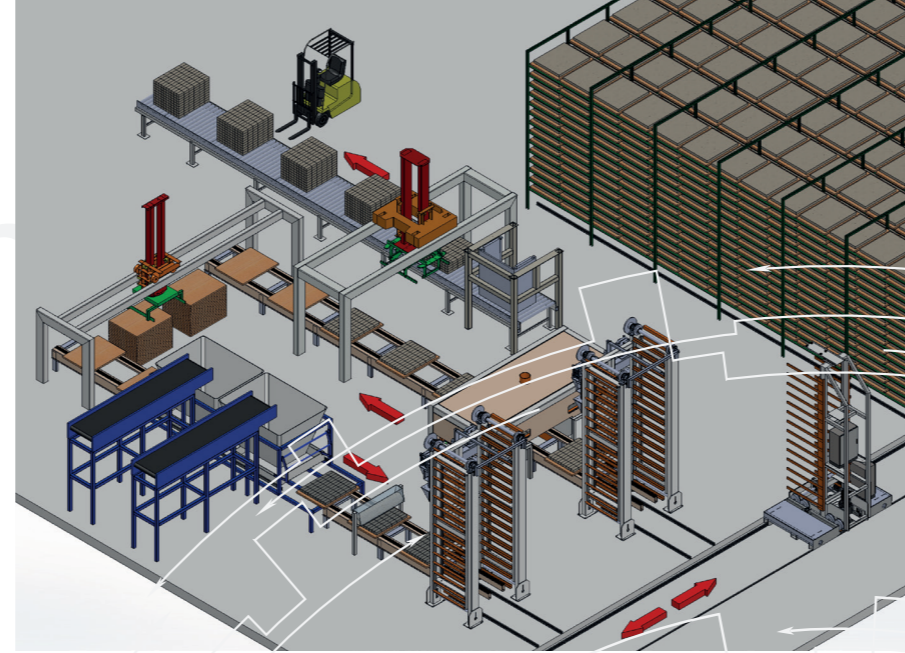
This system can be integrated with every block machine and Penta equipment technologies optimize the flow rate and balance the wet side with the dry side in order to increase the throughput of the plant.

Penta transport systems provide the most flexible and safest means for moving green and cured products to reduce potential product damages.

The flexibility of Penta transfer car is specifically designed for the most reliable performance on a daily basis.

It is designed to gently transport the products in and out the curing chambers and it is equipped with servo motors that grant variable speed and precise movements. The cubing grippers are all equipped with servo motors and adjustable acceleration/deceleration ramps with variable speed that contribute to achieve the cycle time for the efficient flow of the production.

Beside this Penta can offer a wide range of stacking grippers that can handle not only any type of concrete pavers, blocks, kerbs and pipes, but also very special products like roof tiles, concrete barbecues and drainage concrete channels. Handling so many different types of products, high pliability and adaptability of Penta systems is a must. This capacity is easily verifiable by the multiple possibilities of the stacking operations: void packs or palletless packs; first and second quality packs; stacking of different concrete tiles in a unique pallet and many more.



The handling systems proposed by Penta can also be completed with packaging lines that can be integrated with pallet dispensers and other packaging machines (like strapping and hooding machines) or systems to protect the surfaces of your products.

Penta handling system can also be adapted to use flat beds to store the concrete products. This particular type of production boards, equipped with feet, can be stacked one above the other so it is not necessary to have curing chambers to dry the products but it is possible to create storage by superimposing the flat beds.

Or again, Penta can offer its customer with automatic rack handling plants for moving the racks with product in and out the curing chambers for eliminating from the process the forklift and so saving time and labor costs.

Furthermore the production process can be completed with secondary treatment processes like aging, washing, shot-blasting, splitting, pitching, etc. adding value to your products. According to some special and particular production needs, the grippers can be replaced by extremely reliable and precise robots as they offer such a wide flexibility that it would be hard to achieve with grippers. The easy operator interface used for all our equipments allow a perceptive and a smarter understanding of the plant.

Penta is glad to offer its customer turn-key plants and we will look after all the steps from the design up to the commissioning.

