



**BERNECK**

***CASE STUDY***

***BERNECK***

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*Wood panel  
manufacturer*

## THE COMPANY

Berneck® is a Brazilian company close to 70 years of history. Specialized in MDP, MDF and HDF panels, as well as sawn pine and teak, it has four industrial sites with a high volume production capacity and cutting-edge technology, with over 5,000 employees. All its products comes from planted forests, with around 90 thousand hectares of forest cultivation, producing more than 2,400,000 m<sup>3</sup> of wood products per year and are destined for the furniture industry, civil construction, automotive, electronics, and packaging, among others, in Brazil and abroad. Exporting to more than 60 countries. Since its foundation in 1952, the company has been contributing to social and economic development, through the human capital and innovative and sustainable products, they are currently export leaders in Brazil of sawn wood.

## CUSTOMER NEEDS

The customer sought Cassioli with the goal of improving the storage and quality of its pallets of melamine products. Cassioli presented a customized automated warehouse solution, in which load units are manipulated using stacker cranes that slide on rails, with a double column structure in an optimized layout. The large size of the pallets and the limited area available led Cassioli to develop the project for a stacker crane of 8 meters height and 130 meters long. The project started with the analysis of the statistical flow data, to calculate the system, and the volume, to provide the ideal load unit in order to efficiently accommodate the products. The pallet dimensions used on the study are 2.9 m x 1.94 m x 0.45 m, with a maximum weight of 2,500 kg. The project required a connection with the products receiving area and production area, with a difference in their heights that was compensated with the installation of the stacker crane.



## THE CASSIOLI SOLUTION

- ▶ Automated warehouse composed of a stacker crane with double telescopic fork and single depth.
- ▶ Single depth warehouse and 7 levels for 385 pallets.
- ▶ Loading station, entry with weight scale and dimensional verification through external shape control.
- ▶ Turntable for positioning and direction of pallet in the warehouse.
- ▶ Pallet exit station for production and return of fractionated pallets.



## ADVANTAGES

- AREA OPTIMIZATION AND LOGISTICS EFFICIENCY
- REDUCTION OF HEALTH RISKS FOR THE OPERATOR
- SAFETY AND OPERATIONAL COSTS REDUCTION
- DAMAGES REDUCTION WITH STORED MATERIALS
- CONTINUOUS MONITORING OF PERFORMANCE AND TRACEABILITY
- AUTOMATED HANDLING OF PRODUCTS
- MAXIMUM USE OF AREA
- ORGANIZATION OF WORK SITE
- STORAGE CONTROL WITH CASSIOLI WMS AND TOTAL INTEGRATION WITH CUSTOMER'S ERP