

INDIVIDUALITY



PROVEN SOLUTIONS

OUR PRODUCTS:

- Material Handling Equipment
- High-Bay Storage Systems
- Area Storage Systems
- Automatic Storage and Retrieval Systems
- Feeding and Stacking Systems

OUR PRODUCTS
FOR THE TYRE INDUSTRY:

- Automatic Tread Booking
- Manual Booking
- Scrap Handling
- Tread Loading at Tyre Building
- Green Tyre Handling
- Tyre Storage and Sorting
- Cassette and Leaf Truck Storage

ROBOTIC TREAD BOOKING

Customer specific solutions



Knowledge
ensures movement



SYSTRAPLAN GmbH & Co. KG

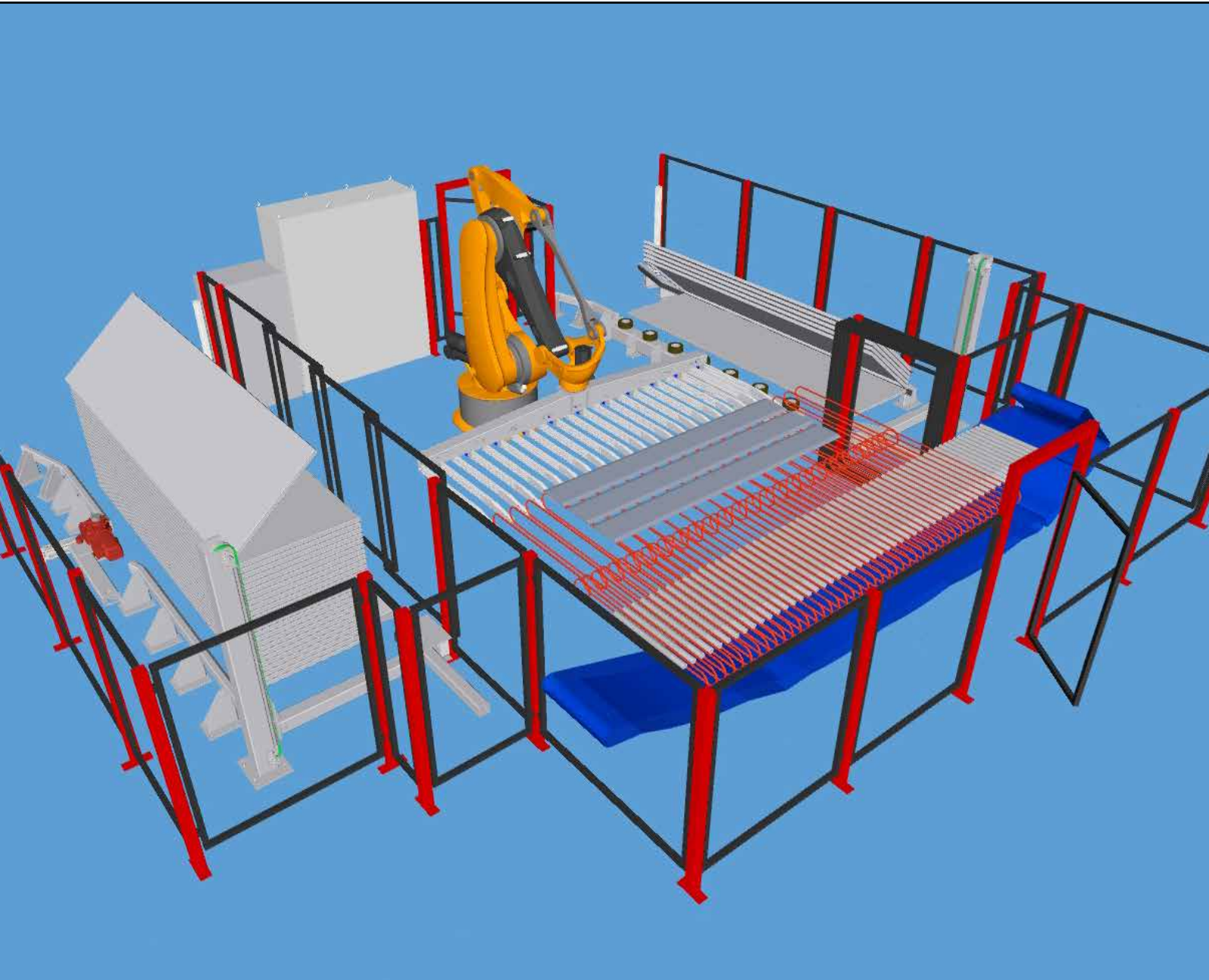
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Loading systems
meeting highest standards



IMPROVED PRODUCT QUALITY



Advantages of Automatic Tread Booking:

- Improved product quality
- Continuous production - increased output
- Reduction in manpower

Improving Product Quality by Implementation of Automatic Tread Booking

Automatic booker loading devices are well known and used in the tyre industry for quality assurance of treads and tyres as well as for rationalization.

Faster extrusion speeds and requirements for higher accuracy encouraged the tyre manufacturers to replace the manual loading with automatic tread booking systems. More and more booker loading systems were installed to alleviate the problems associated with manual loading.

Improved Product Quality

Tyre quality depends on the correct transport and storage of the initial products. It does not matter which booker type is used or whether you need to flip the treads or not. What is important is the accurate and uniform depositing of the green treads to guarantee a constant high quality.

Loading with Suction Frame or Belt Tray

Two different systems are available for handling the batch of treads for loading:

A conventional surface suction frame which picks up the treads from the top,

or a belt tray which picks up the batch from below, as it has been done for years in automatic tread booking systems.

The advantage of the belt tray lies in the fact that the treads always keep on lying on the belts with a tight spacing and due to their own weight; and the surface can be finely structured or freshly cemented as it is not touched.

Manual Booking and Scrap Handling

Several additional solutions related to tread booking have been implemented, such as manual booking and work-off stations.

**Benefits of Robotic Tread Booking:
Cost-effective**

Robots can work for long periods without breaks and require less supervision compared to human workers. This translates to lower labour costs in the long run.

Space-saving

Robotic tread booking systems can be designed to be compact and efficient, minimizing the footprint needed in your facility compared to our traditional automatic tread booking systems.

Quicker and easier to implement

Robotic systems often require less upfront setup and training compared to complex automatic booking systems. This can get your tread booking operation up and running better with less interruptions.

Minimal maintenance

Robots are generally built for reliability and require less frequent maintenance compared to some complex machinery. This translates to less downtime and disruption to your production schedule.

Sustainable and environmentally friendly

Robots can potentially reduce energy consumption compared to some traditional systems. Additionally, they can minimize the risk of human error that might lead to material waste.



Robotic Tread Booking Systems are composed of the following major components:

- Vacuum flipping, cross transfer or boomerang
- Cross conveyor for batch forming
- Robot with suction frame or belt tray
- 2 Leaf truck loading positions for a loading process without an interruption
- Automatic leaf truck conveyor system for a loading process without an interruption
- Electrical control system (Allen Bradley, Siemens)

The specialists
for material flow technique