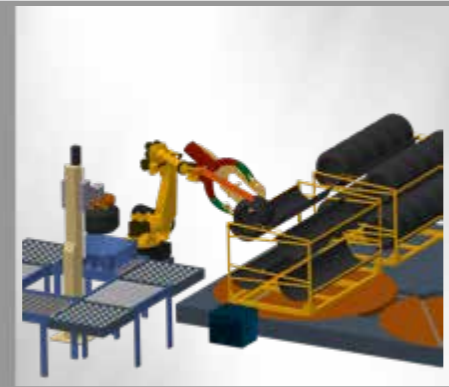


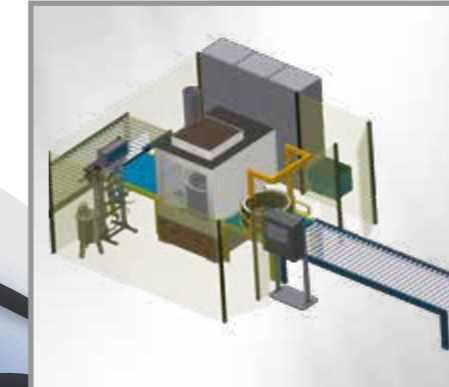


Special Mechanical Engineering:
Tire Technology

Tire palletizing & loading cells



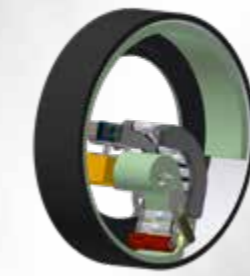
White sidewall painter



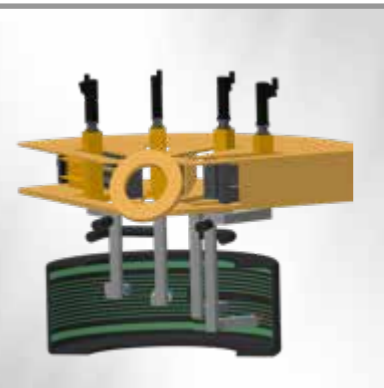
Tire inbound & flipping station



Tire foam application - for reduced noise tires



Sealant tire application & sealant covering



RFID sensor sticking



Tire bladder spraying



Airless & Airmix spraying technology - Splice free function



The conveyed tires are verified by the SAR camera system. Inner, outer diameter and height of the tire are compared with the determined values given from the database. Also the barcode label on the bead can be identified for orientation of splice free spraying effect. The tire will be scanned also by a barcode scanner to receive GT code and recipe for spraying.

Then the robot picks up the tire with a servo driven special green tire gripper on the top bead and transport it to the spraying cabin. A downholder stretches the lower bead of the tire down and thus, the variable servo driven spraying nozzles spray the inner surface (from bead to bead) with release agent. Therefore the gripper with the tire is rotated inside the cabin to ensure complete inside spraying or splice free spraying (not

complete inside spraying), if required. The lube application is realized by using an Airless or Airmix spraying technology, depending on customer needs and used lubricant. An automatic cleaning of the tire gripper is made according pollution degree and adjustable in sequence and duration through rotation brushes, water cleaning and finally dried by air nozzles.

SAR automation kits for Tire Technology

Options

Tire gripping & handling - single or double



Tread loading



Tire process data management



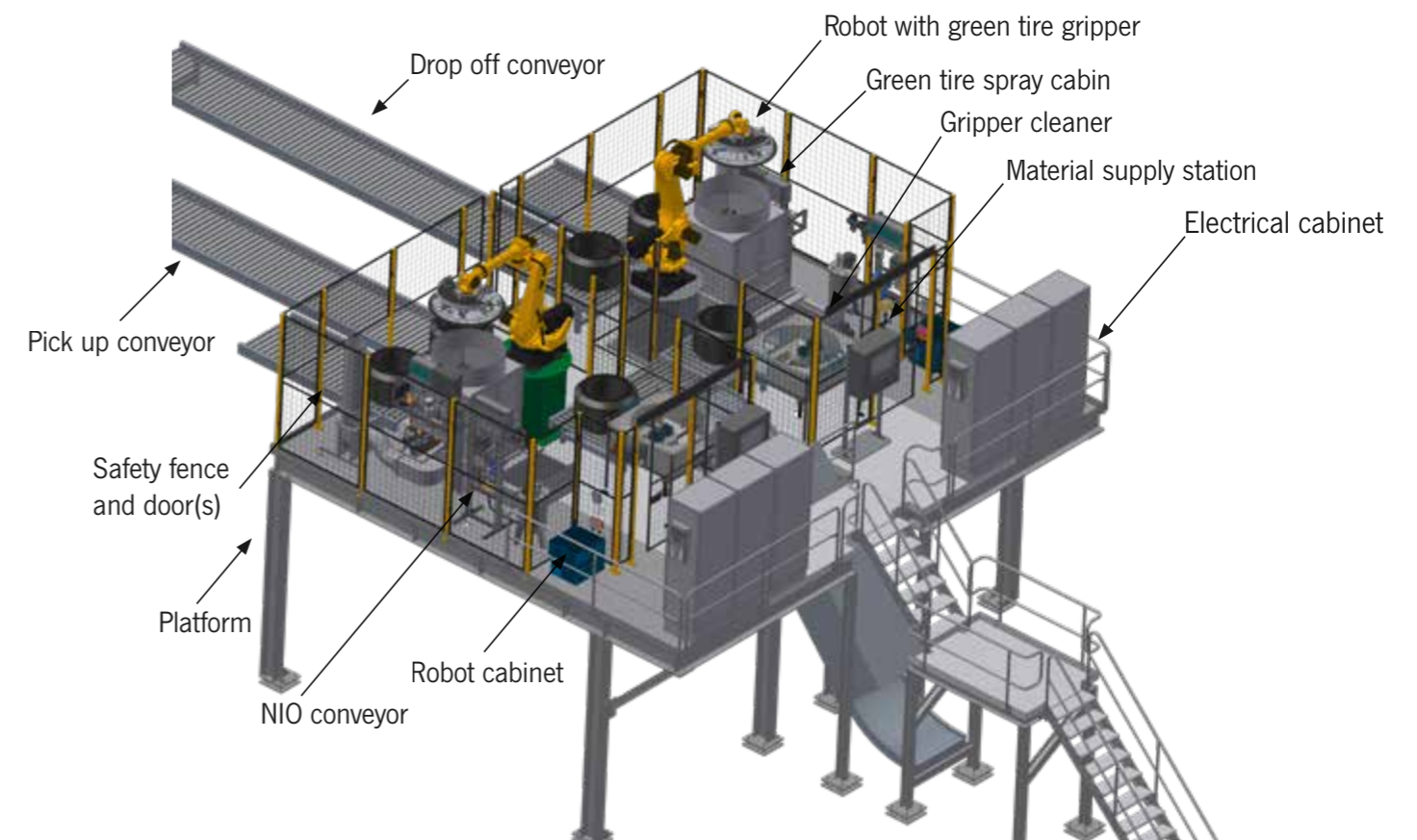
Tire intralogistics



Service & spare parts



Green Tire Spraying System - with Airless or Airmix spraying technology



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