

The process automation system improves process efficiency and utilizes various conveyors to maximize transportation efficiency



Overview



- Project: LingLong Tire G/T Logistics Automation and finished good products AS/RS
- Period: 2017. aug ~ 2018 march
2018. jun~2019 nov
- Stacker Crane 39set
- EMS 91 set
- GANTRY 16 set
- RGV 37 set

Needs

Among more than 300 Chinese tire companies, Ling long tire is China's leading big tire company, which ranks first in passenger car tires in china and second in commercial vehicle tires.

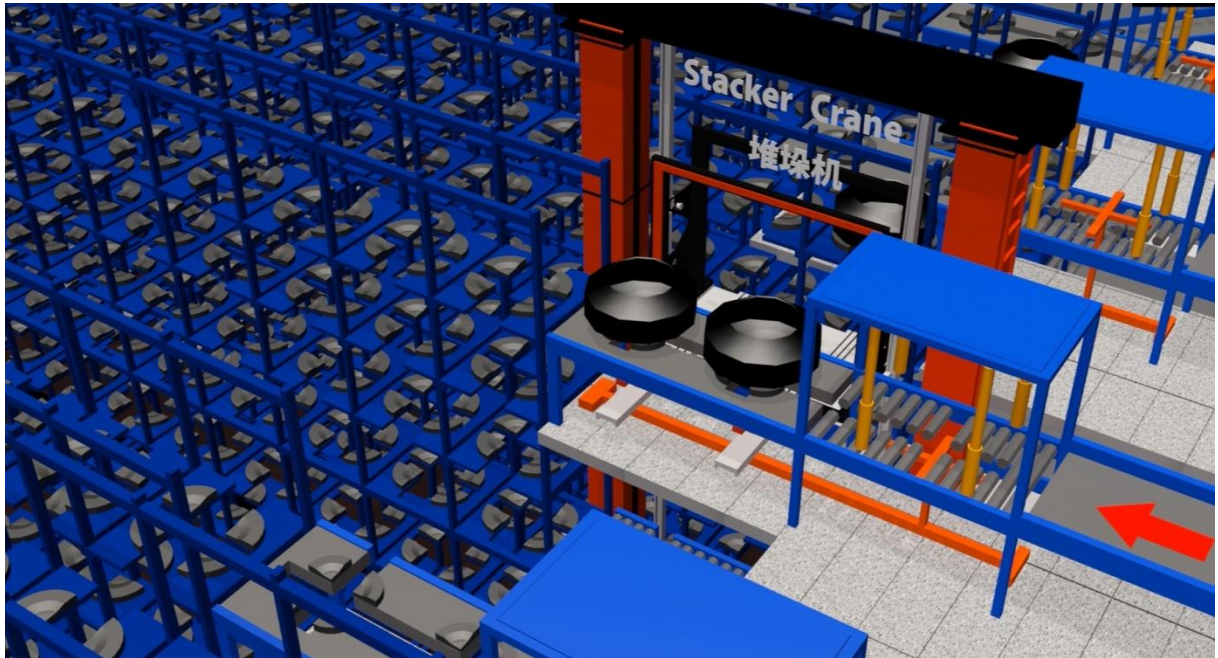
In the past, since all workers transferred green tire produced during molding process to the vulcanization process by manual, The introduction of optimized automated logistics system was needed.

Solution

During the initial system review of the project, we identified various problems such as space narrowness and safety problems in existing manual logistics logic of LingLong Tire and the occurrence of quality abnormality during the transportation of tires. After proposing, designing, installing and commissioning the best logistics system, we took over as Turnkey.

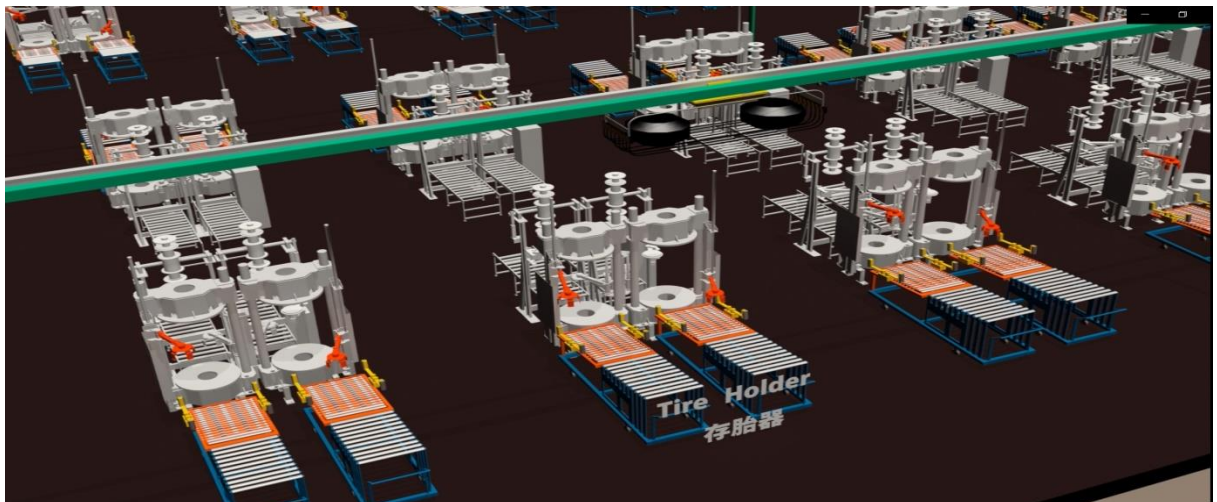
We improved the harsh work environment in the tire production process and greatly reduced the manual work, maximized the productivity, and built the best logistics transportation system composed of fast and cutting-edge high speed mini rod stacker crane, EMS transfer line, gantry shorting system and RGV.

Equipment Specification

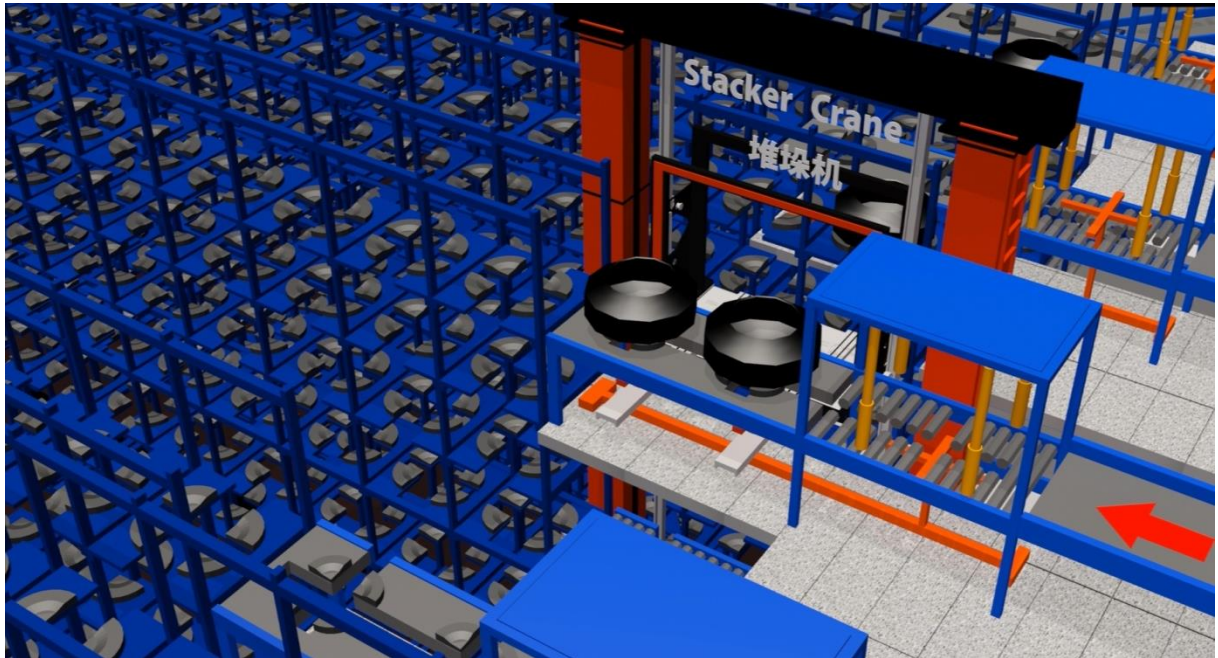


Stacker Crane

- ✓ Single Deep Twin Fork
- ✓ Double Deep one Fork
- ✓ Drive 270m/min, Hoist 80m/min, Fork 55m/min

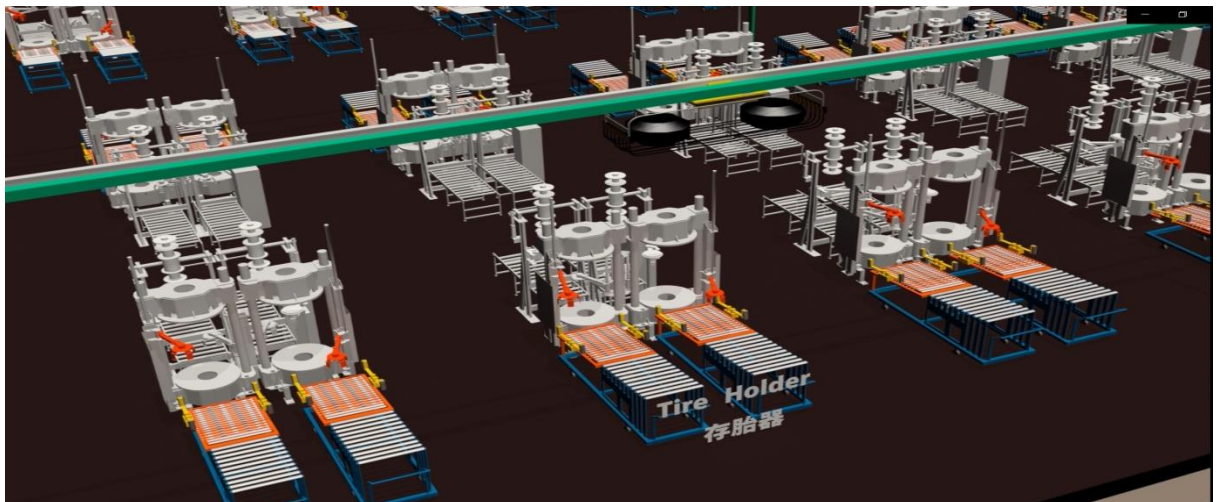


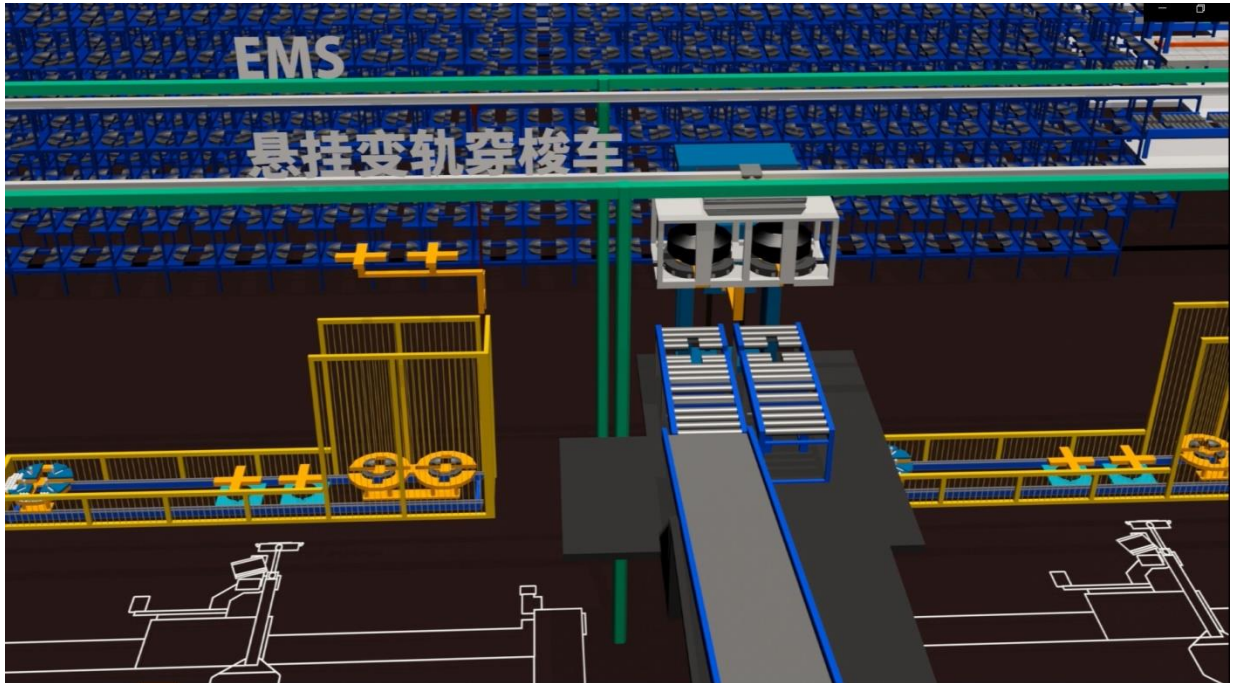
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EMS

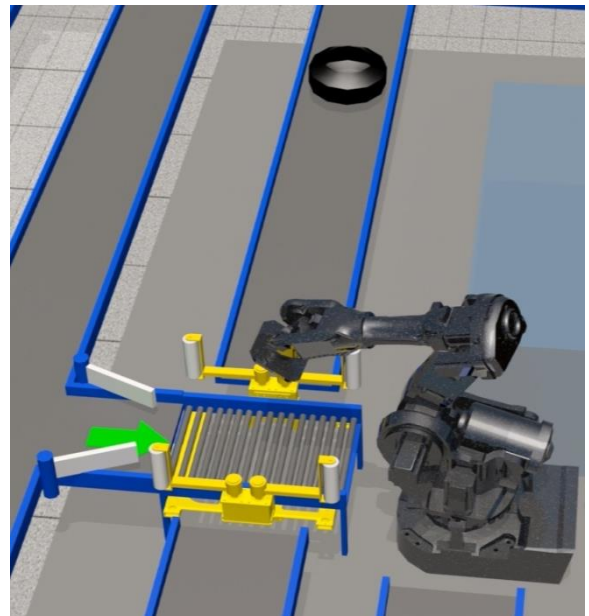
- ✓ Loop EMS : FIX Cage Type , Elev Cage Type
- ✓ Liner EMS : Chuck Type
- ✓ Drive Speed : 320m/min Lift Speed : 90m/min

GANTRY

- ✓ PCR Gantry and TBR Gantry
- ✓ Speed : X 3.5m/sec , Y 3.5m/sec ,
Z 2.5m/sec , G 0.5m/sec

RGV

- ✓ Loop Type
- ✓ Traveling : 200m/min
Feeding : 35m/min





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