



Overview



- Project: Hankook Tire US Tennessee PCR Phase 1 Logistics Automation
 - Period: June 2015~ September 2017
 - Rack : 22,312 Cell
 - Stacker crane : 23 Set
 - RGV : 18 Set
 - Conveyor : 1,018 Set
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Needs

Hankook Tire manufactures tires for various vehicles and the logistics flow consists of finished product delivery after production process of raw materials, refining, semi-finished products, molding and vulcanization. Hankook Tire has expanded its production bases to various countries to secure sustainable growth engine. SMC has been providing various automation equipment and systems to Hankook Tire's global projects for 20 years to achieve higher productivity. All production lines need optimum logistic flow so that there is no disruption to the production of Buffer and supply with optimal stock rate.

Solution

Raw material for pre-production of tire → Refining → Semi finished product → Molding → Curing → Inspection → Finished product : SMC selected logistics facilities according to shipping process and applied logistics flow using Stacker Crane, RGV, Dolly, Conveyor to operate with best production efficiency without interruption in supply and production between processes.

Equipment Specification

RACK

- ✓ Rack Supported Building Type
- ✓ Single Deep - Load Beam Type : 16,058 Location
- ✓ Single Deep - Load Arm Type : 6,254 Location
- ✓ Handling Size : 1,600W * 1600L * 1650H
- ✓ Handling Weight : Min 650 Kg ~ Max 3,500 Kg

Stacker Crane

- ✓ Single Deep Euro Type Fork : 13 Set
- ✓ Single Deep single Fork : 10 Set
- ✓ Drive 120m/min, Lift 30m/min, Fork 40m/min

RGV

- ✓ Linear RGV : 3 Set
- ✓ Loop RGV : 15 Set
- ✓ Drive 160m/min, Conveyor 30m/min

