Skyfall

Automotive

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Automated conveying and overhead storage system for automotive parts

Challenge / Project goal

- Connection of injection molding machines and feeding of unloading stations
- Storage capacity for over 18,000 Skyfall trolleys
- Different parts: dashboards, door panels, center consoles
- Installation of conveyor technology at an altitude of more than 10m above the assembly/further processing

Scope of delivery and performance

- Over 18,000 trolleys with customer-specific hangers for 2 to 6 parts
- Loading stations with lift in the field of injection molding machines
- Unloading stations with lift in the field of further processing
- Fire damper between hall sections
- SkyTrain circulating conveyor, 0.3 m/s
- Warehouse: over 5,000 m gravity conveyor with speed limiter
- Safety nets along/below complete conveying system

Customer details

- DRÄXLMAIER Group
- International automotive supplier
- Site of installation: Shenyang (China)
- 75,000 employees at 60 locations in over 20 countries
- Specialized in vehicle interior, electrics and electronics

DRÄXLMAIER

Solution / Result

- A SkyTrain circulation conveyor for the connection of the injection molding area with the warehouse and the warehouse with the unloading stations
- Identification of trolleys with RFID
- Installation/Commissioning: 2017 - 2019, staggered in 3 expansion stages
- Fire damper between injection molding and assembly hall
- Complete Ferag control system including highly available and redundant data storage

Reason Why

- Use of the ceiling areas above further processing
- No in-house transports (tugger trains) for injection molded parts
- Fully automatic storage and retrieval
- Robust and durable technology

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