



Transport and buffering of injection moulded parts for international automotive supplier

Challenge / Project goal

- Storage capacity for 2800 injection moulded parts (instrument panels)
- Control of left and right-hand drive parts as well as empty trolleys in the same system
- Compliance with FIFO within a production shift
- Process connection or decoupling of the injection moulding machine and further processing
- Connection different fire compartments
- 50-second cycle at the loading and unloading station

Scope of delivery and performance

- 770m SkyTrain circulation conveyor ($v = 0.2 \text{ m/s}$) with fire damper
- 700 Skyfall trolleys for 4 pieces each
- 1 manual loading station with lift and high-speed door
- 1 manual double unloading station with lift and high-speed door
- Secondary auxiliary construction with ceiling suspension and floor support
- Drip protection in injection moulding hall to protect the parts
- 2 semi-automatic lines for manual connection between

Customer details

- Antolin Straubing (until 2015 Magna Interiors)
- Part of the international automotive supplier group Grupo Antolin
- 26,000 employees at 167 production sites in 26 countries
- Headquarters in Burgos, Spain
- Founded in 1950



Solution / Result

- 770m SkyTrain circulation conveyor
- 700 trolleys with joint for each 4 nested instrument panels (cockpit)
- Identification of trolleys with RFID
- Auf- und Abgabestation mit Schnellaufator (Personensicherheit)
- Installation/Commissioning: 2017
- Fire damper with security mechanism
- Safety nets along the entire conveyor line



Reason Why

- Free floor area
- Integration in existing factory buildings
- No tugger train traffic
- Flexibility for future requirements/extensions

