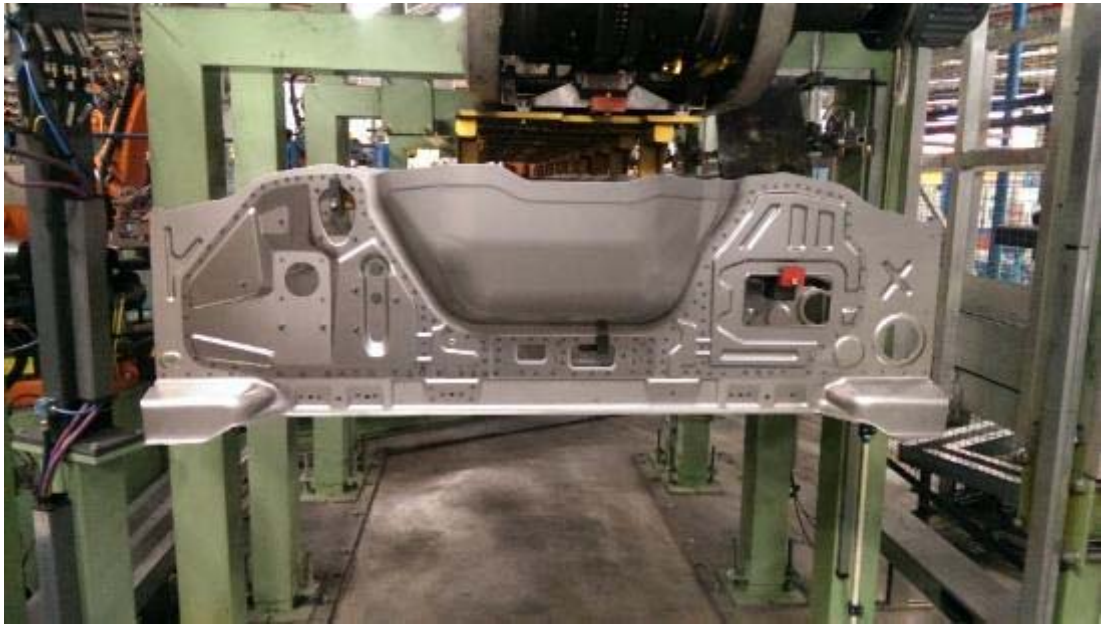
TÜNKERS
Erfindergeist serienmäßig.

Application report

AFS conveyors replace storage system

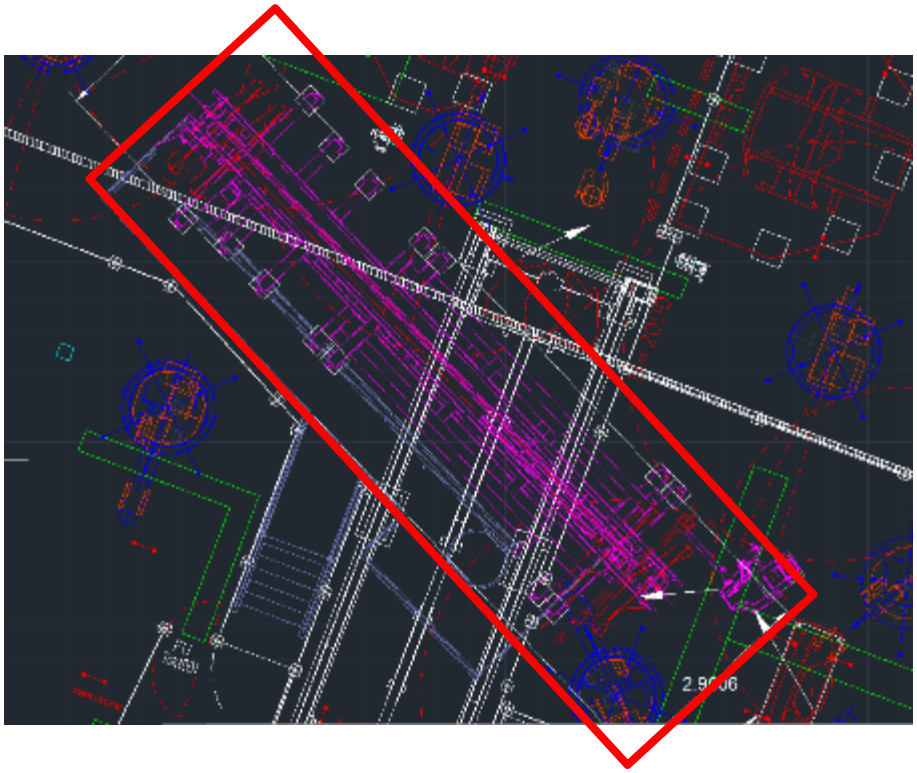
Task

- An existing installation for the storage of fronts must be expanded from two variants to four
- The area used cannot be expanded
- Uncoupling per type must be at least nine parts
- The system must be rearranged within two weeks‘ time



Current situation

- In the existing system, the components carried are suspended diagonally from two accumulating conveyors placed one above the other
- Below the belts, there is another belt for special parts which shall remain in place
- Only the marked space is available, which corresponds to the existing installation



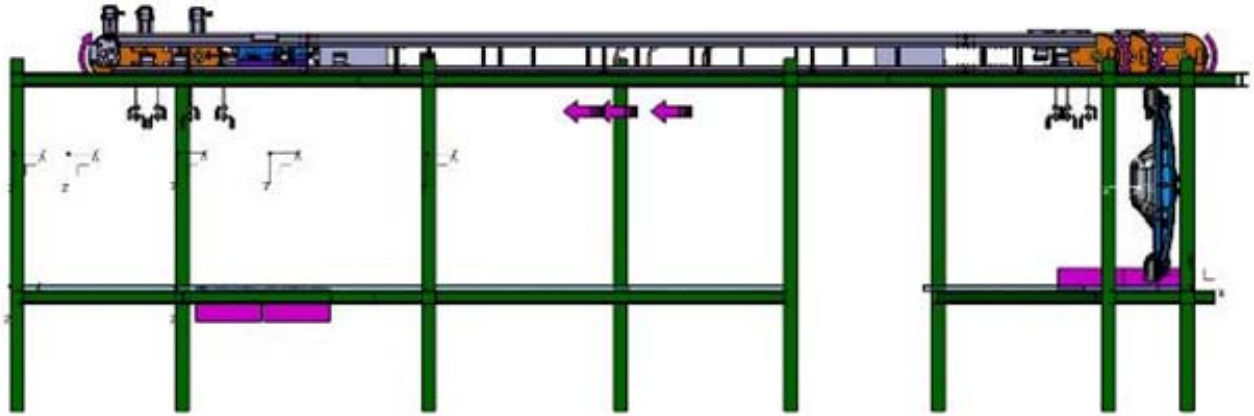
Planning approaches

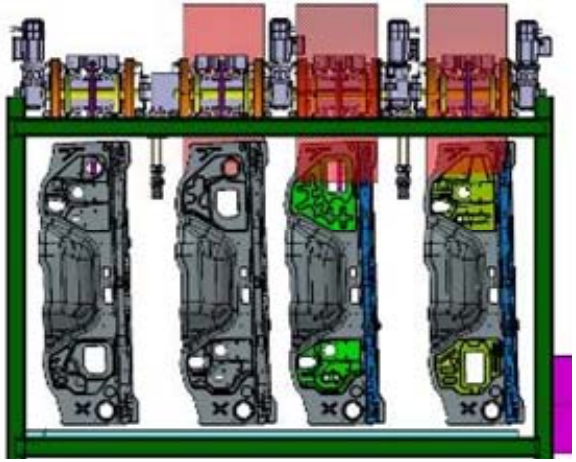
- Robot on 7th axis with 40 racks in shelf system
  - Requires a lot of space
  - A lot of programming required
  - 40 robot sub-programmes
  - 120 initiators
  - Poor accessibility for maintenance
  - Long installation period
  - Additional protective circuit
  - Two additional intermediate racks
  - Interference contour with floor conveyor must be removed

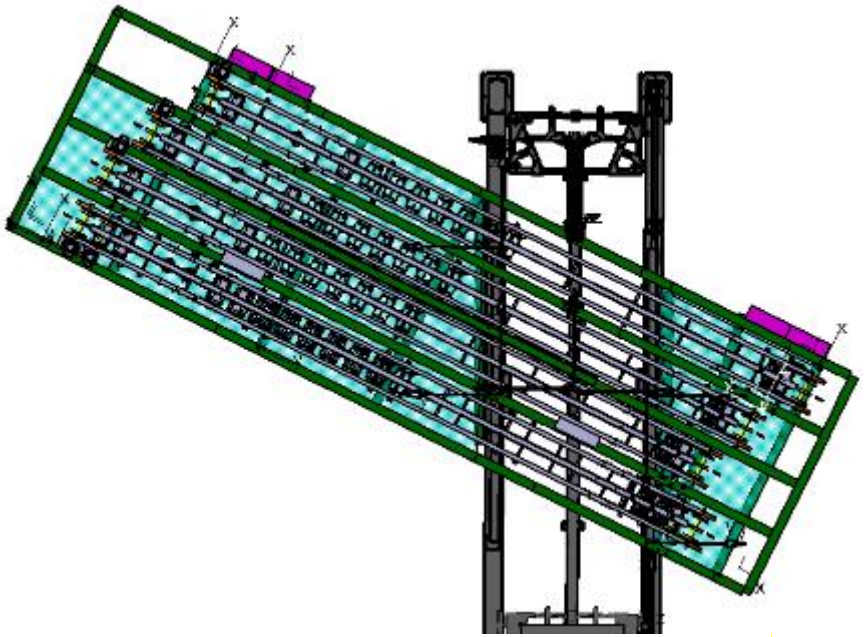
- 4 accumulating conveyors in one steel construction
  - Best fit in layout
  - Lower investment
  - Safety concept remains in place
  - Easy maintenance
  - Maximum uncoupling, providing space for 15 parts each
  - One steel construction
  - Period of rearrangement incl. dismantling of old system: 1.5 weeks incl. programming
  - Only loading and unloading must be reprogrammed
  - No collision with existing systems that remain

Solution

- Four AFS belts in one steel construction







Solution

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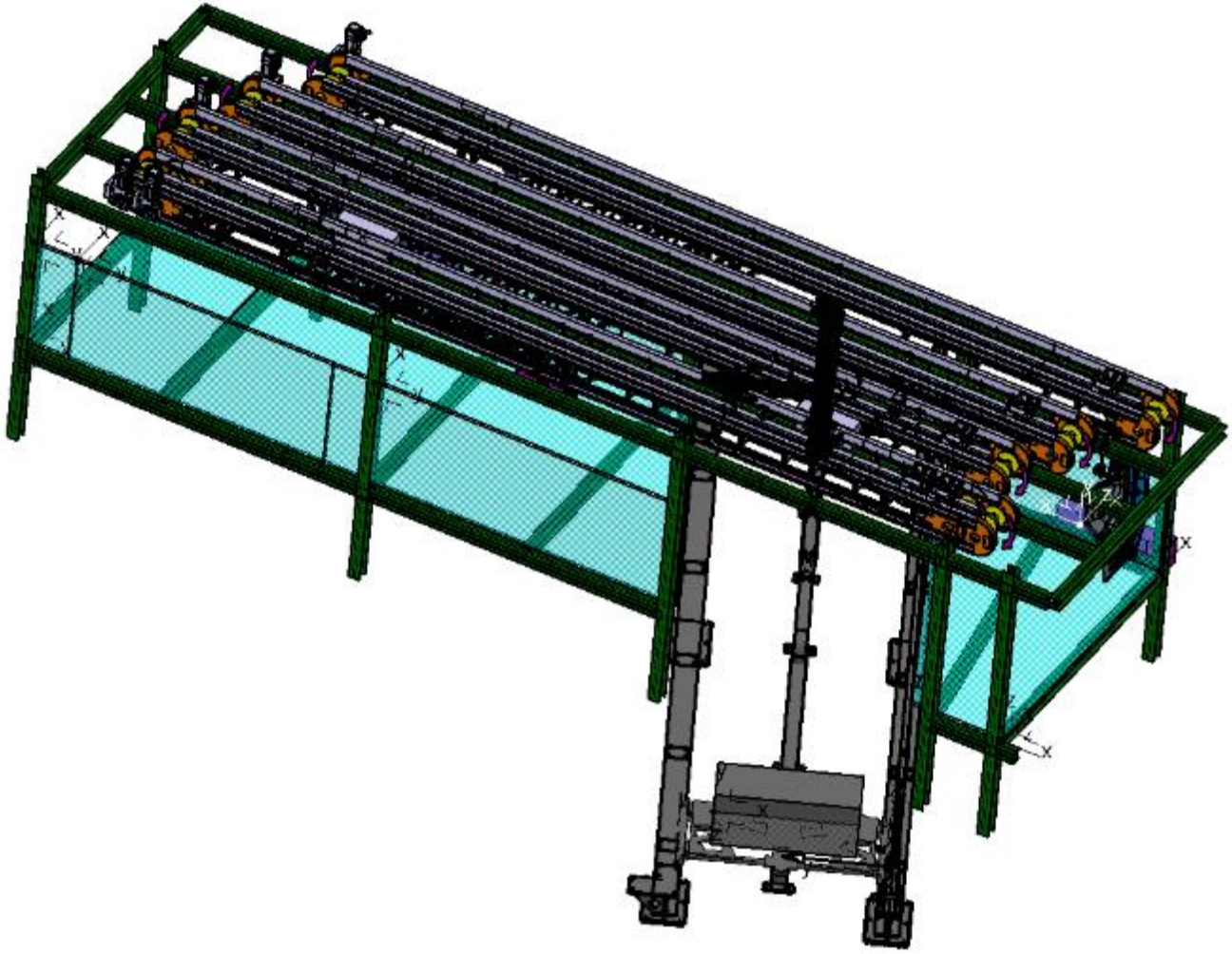

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