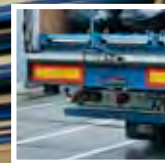
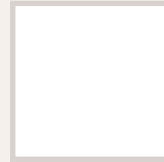


Just in time (JIT) delivery of car seats

389



AUTOMOTIVE



Case Description



■ ■ ■ ■ experience the difference



Johnson Controls is a worldwide operating corporate group. The business unit »Automotive Experience« is dealing with the production of complete sets of seat and interior systems for cars and commercial vehicles.

Design criteria

The Johnson Controls / psb engineering team was asked to find a solution for the just-in-time (JIT) and just-in-sequence (JIS) delivery of seating sets, for the Fiesta model, to the assembly line of Ford in Cologne. Instead of establishing a new production plant near Ford, it was decided to extend the existing factory of Johnson Controls in Bochum, which is 80 km away from Cologne.



The solution

According to a »rough« sequence order by Ford, the seating sets are made in Bochum and stored in a three-storied load buffer. Five trucks, equipped with conveyor technology, take 60 sets each out of this load buffer. At Ford in Cologne, the trailers dock at an unloading buffer.

The pallets are stored in an automatic JIT buffer (3 aisles), operated by *runloader*® AS/RS stacker cranes, with cassette push-pull technique.

The seats are sequentially brought out of the buffer and transported, by psb conveyors, to the final assembly area. This is possible through the integration of the PLCs modules with the Ford's computer system.

With the logistical combination of a just-in-time production in the existing facility in Bochum, and the just-in-sequence supply out of the automatic buffer at the premises of Ford in Cologne, the utilization of the existing production equipment could be improved, and a high investment in a completely new production site was avoided.

– Another important milestone in the successful cooperation of both companies.

Customer: Johnson Controls Bochum
Automotive Experience
44789 Bochum/Germany

System: JIT buffer with 3 *runloader*® AS/RS stacker cranes (cassette push-pull technique), conveyor system, conveyor technology in trucks