



**PV Crystalox,
Manufacturing
of silicon tubes,**

**Bitterfeld,
Germany**

Realisation of a logistic concept with Telelift MultiCar for transportation of silicon tubes

The Customer, the Requirements, the Solution

The manufacturing of semifinished products from raw silicon is one of the fastest growing markets worldwide.

This requires constantly further automation of manufacturing processes. In view of increasing competition in solar industry as well as changing surrounding conditions it is more necessary than ever to permanently optimize existing structures and processes.

The task was to connect the tube production area with the finishing area in an existing production hall occupying minimal space requirements. This logistic process was realized in an optimal way by application of a MultiCar transportation system.

By application of modern technologies, a three-dimensional track layout and best maintainability enables the high professional plant for best use of available resources and provides a higher transport quality.

The requirement of this solution is an automated transportation of silicon tubes with the diameter of 8 mm and a length of approx. 3,200 mm. Further demand is the increase of system flexibility with intermediate buffering of tubes and the installation of a conveying system in the existing hall architecture and in multi-shift-operation.

Cycle time needs to be flexible, minimum 30 seconds. The system takes 10,000 transports per year in two transport lines and has to comply with all rules and regulations concerning industrial safety, working place ergonomics and operational safety.

Industry

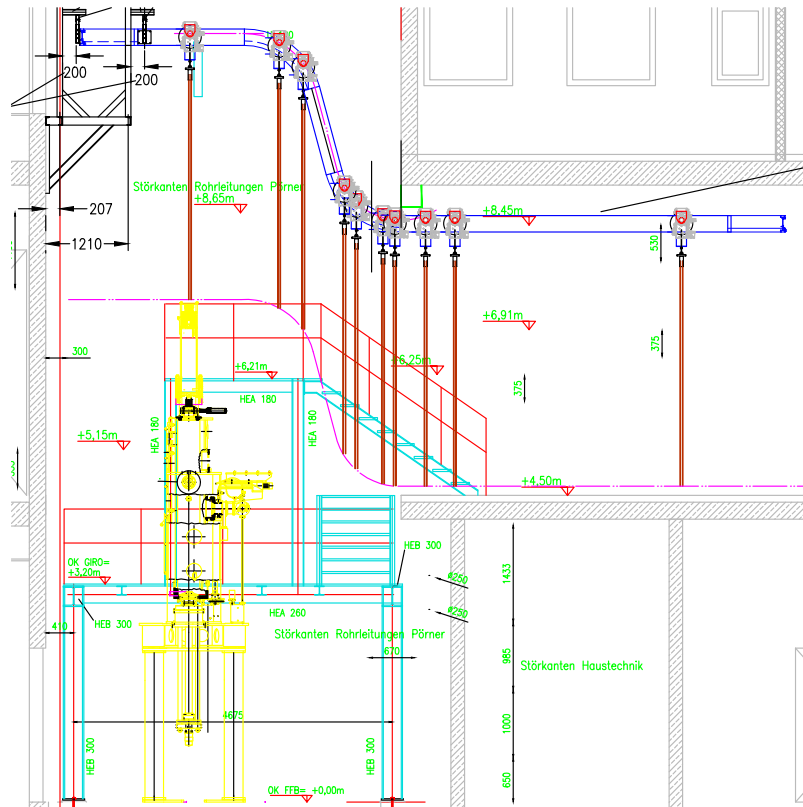


The Solution:

System: MultiCar
Track length: ca. 50 m
No. of station: 4
No. of vehicles: 4
Commissioning: 2009
Control: SPS TELEcontrol

Benefits:

- > Strong cost reduction
- > Payback in less than 2 years
- > 24/7 operation mode
- > No damaged parts
- > 100% transparency by monitoring of delivery status
- > 99% system availability



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