

Efficient process chain in greenhouse facilities

How QuickMOVE helps optimize biotechnology production



Challenges and initial Situation

A manufacturer of biotechnological products previously operated its greenhouse setup with a largely manual conveyor and drying chain. The process steps were sensitive and slowed down the overall flow considerably:

- o Very slow throughput, which placed high demands on drives and gearboxes
- o Working in a humid environment
- o Vibration and drying process with high energy requirements
- o Difficult ergonomics when loading and unloading the transported goods
- o Very low max speed due to the design

The customer was looking for a solution that would enable a stable, energy-efficient, and ergonomic process despite humidity, low cycle times, and sensitive products.

The Solution

QuickMOVE was requested to implement the system in such a way that the entire process, from wetting to the vibrating section to drying, functions reliably, ergonomically, and energy-efficiently. Despite the very slow process speed, the system could be fine-tuned so that the drives and gearboxes run stably and without malfunction. Since moisture is present in the halls, the line was shielded accordingly in some areas and operated openly in others, so that neither condensation nor heat build-up occurs and operation remains safe in the long term.



Image: QuickMOVE conveyor system in the greenhouse facilities

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A key component of the implementation was the integration of a specially developed vibrating conveyor, which significantly accelerates the drying process and noticeably reduces energy consumption. In addition, the QuickMOVE conveyor was lowered at one point so that employees can pick up and set down the transported goods ergonomically. This improves both, work safety and the consistency of the entire process.

The result is a streamlined and open plant layout that takes into account the specific biological and technical requirements in the greenhouse and enables a stable, efficient, and comfortable production chain for employees.



Image: Ergonomic transfer area with lowered QuickMOVE route, service vehicles during installation of the conveyor system

Contact

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