

MEETING THE NEEDS OF A GROWING BUSINESS

CONTROLEDGE™ PCD POWERS A SMART SOLUTION FOR STRAWBERRY FARMING

Case Study

Honeywell's ControlEdge™ PCD provides the reliable temperature and moisture control Moleda needs for its pesticide-free solution for growing healthy plants. Flexibility, scalability and Honeywell's global reputation are helping this innovative Norwegian business take its solution to farmers across Europe and America.

BACKGROUND

Based in Sylling, Norway, Moleda's team come from generations of strawberry growers. It's a challenging process with pests and diseases able to destroy entire harvests. This has been increasingly difficult to deal with and because of this the University of Florida, the Norwegian Institute of Bioeconomy Research and the Myhre family collaborated on a project to see if they could address some of the issues.

Even where pesticides are allowed, they're expensive and don't resolve challenges such as high death rates due to diseases on mother plants or unpredictable growth rates.

Moleda does. Their Plantsauna is an innovative solution designed to grow healthy plants without chemicals.

CHALLENGES

Plantsauna disinfects plants without pesticides. Before planting, plants are put in a chamber housed in a chamber with a carefully controlled temperature and moisture level designed to kill pests and diseases without harming the plant.

Tested over years by the University of Florida and the Norwegian Institute of Bioeconomy Research, it's effective, efficient, and environmentally friendly, treating 7,500 to 25,000 at a time.

It can even help plants grow faster and bear fruit more evenly. As well as strawberries, it has applications for raspberry growing, flower bulbs, wine, and equipment sterilization.

The potential market is huge. Moleda needed a partner with technology to reliably control the chamber conditions and with a scalable solution and global brand to support its growth.

It chose Honeywell.



Honeywell

SOLUTION

Honeywell's solution was its ControlEdge™ PCD, a new generation PLC with modular IO, multiple communication interfaces and enhanced cybersecurity.

Offering a high degree of resilience with CPU redundancy, robustness, reliability, and a proven design, with more than 30 years of field usage, it delivers integrated communication interfaces and numerous expansion options, making it highly versatile. Generous CPU memory resources allow users to record, monitor, archive and manage data and statuses without PC systems. It also includes an Integrated

Web Server for monitoring and control and an Engineering Tool with a graphical Web Editor for visualization.

High-level language programming following IEC 61131-3 adds to the flexibility, giving access to a large community of developers whose published solutions can be reused with greater ease.

With a scalable design, compact form factor, fast execution time, pre-defined functions, certification, and a superior price-to-performance ratio, it offered everything Moleda sought.

Crucially, it also enabled Moleda to partner with a global brand trusted in the US and the world over.

"Our customers know and trust Honeywell. Linking with Honeywell means they – and we – can have confidence in the technology," said Sander Myhre, Moleda CEO.

Honeywell worked closely with the team and helped it meet its deadline ahead of schedule through timely delivery and support. With a successful outcome, Honeywell is now Moleda's preferred vendor for future skids.

As Myhre concluded: "Together, we'll keep on growing."



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 **MOLEDA**
SUSTAINABLE PLANT HEALTH