



WHEN OVERVIEW AND QUALITY ASSURANCE MEANS EVERYTHING

Trelleborg Sealing Solutions in Helsingør is one of the world's leading manufacturers within sealing technology including the aeronautical and the automotive industry, which includes 25,000 item numbers in the product assortment. The company has welcomed paperless production and has also fully digitized all quality processes associated with production, order flow and

inventory management. The transition now creates transparency across the board of the organization, completes and strengthens traceability, reduces faulty production, and ensures that the work with quality assurance has been lifted to a higher level. The solution has been developed in cooperation with the software company Accuratech.



A LARGER DIGITALIZATION PROJECT GETS UNDERWAY

An average of 1,000 orders per week are executed at Trelleborg Sealing Solutions. These are orders from demanding industrial customers, who want everything from individual seals for complex sealing solutions which seals, dampens and protects critical applications in particularly demanding environments. It all takes place at the factory in Helsingør, Denmark. It is therefore crucial to have complete control and track of the process.

Five years earlier, the first steps were taken to implement the paperless production. This was done to remove the long drawn out and complex handling of manual documentation, which was both time-consuming and circumstantial. Just one order could include five or six closely written A4 pages with documentation of production and quality records. It is also worth noting that part of the quality assurance which was carried out during the various processes was based on handwritten records.

"We spent a lot of time much time on physical change orders in production when customers called. It was not effective, and it certainly did not create value for ourselves or our customers", says Torben Nielsen, who is the head of the department for systems and processes. Torben helped start the digitization project together with project engineer Henrik Hildebrandt, whom by chance made contact with Accuratech at an industry trade show sometime previously. Accuratech is a subsidiary of the Scanvaegt Systems group based in Aarhus, Denmark.

Process control reduces errors

The core of the Trelleborg process is in their mixing process, and it is right here at the core where they are furthest along the track in their digitalization journey. The process includes even the mixing of the powder used to produce pipes for this finished product. The software solution from Accuratech shows step by step, which ingredients should be included into the various recipes. On an industrial PC display

an operator can see how the prescription recipe for concrete must be handled in a 100% controlled process – also what must be weighed and in which order, to ensure quality processes are followed. Only when the operator has registered, "OK" at the individual process, can the process continue. This ensures that historical mistakes in the process are no longer an issue. Thankfully, due to the Accuratech solution, incorrect mixtures and rework are things of the past.

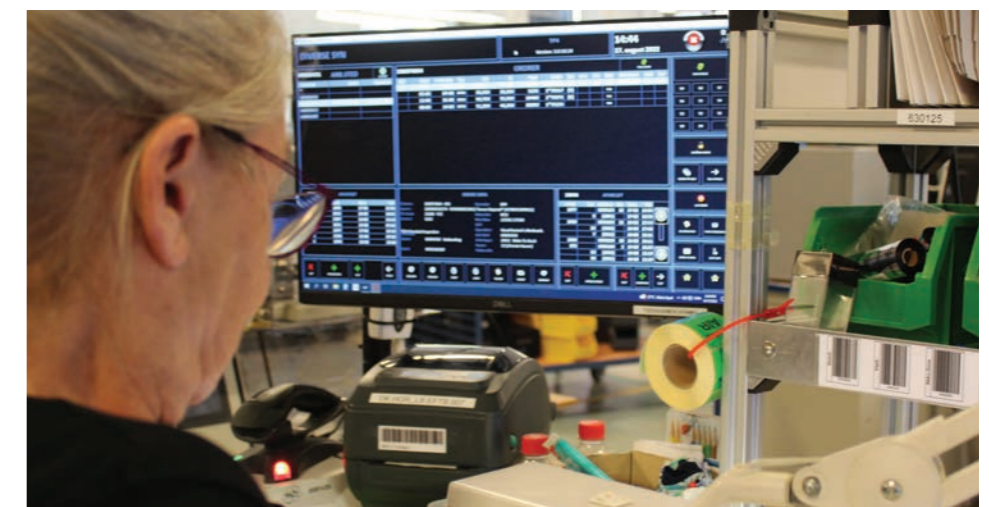
The integration of master data from the ERP platform to the Accuratech platform are crucial for the success of the system. Master data from the ERP integrates seamlessly to the Accuratech platform to ensure that the necessary data appears on the correct workstations. This in turn assists operators on the production shopfloor to follow the process in accordance with quality guidelines and minimize errors.



A SYSTEM WITH FUTURE PROOFING

Paperless production is now achieved, and the digital journey with precis registrations and documentation are now implemented. The complex powder mix, which is used for the production of pipes, which are also used as semi-finished products for the production of the finished seals and processing of sealing products has also become integrated into the new system, as have other processes, i.e. sintering of pipes, production of workpieces in a turning process, inspection and rework. In all process steps, the operators must register for work done, and item objectives or deviations are registered in a "quality report" in the system.

"Now everyone can follow how we prioritize and create precisely structured planning in production with the Accuratech system. We now have an overview which previously did not exist. That means a lot to the entire organization. We are proud of what we do", says Henrik Hildebrandt.



All products are also subject to mechanical, visual as well as manual control – these processes are also integrated into the Accuratech system. In addition to the specified and digitized process description all production data is also stored and thereby available for the generation or

complete traceability reporting, which can be traced back through the entire production process.



From the left: Torben Nielsen, Nermin Dinckan, Henrik Hildebrandt, Benny Filtenborg (Accuratech)

THE DIGITALIZATION JOURNEY CONTINUES TOGETHER WITH ACCURATECH

Recently, Nermin Dinckan took up the responsibility for the new system, developed by Accuratech. Nermin will now be a key person in the next project, where the key goal will be to monitor and view overall equipment effectiveness on 80 lathes in production. The digitization journey continues its way together with Accuratech.

"It is an effective and user-friendly system, which we can use for many years to come. And then it only gets better because it is easy and clear for our process operators to operate. Quality assurance is an area we can continue to develop", points out Nermin Dinckan.

Trelleborg is a Swedish-owned group with a turnover of 34 billion SEK and employs 21,000 employees in 100 factories Globally.



Accuratech

Accuratech is a Danish software company that has been providing customised software MES solutions for the food industry since 2004.

We specialise in increasing the performance of processes in the food industry through customised and creative software solutions.

We provide both standard and unique customised software solutions for Process control, Quality control, Full traceability, Inventory management, Order handling, Performance monitoring, Labelling & Weighing and Data integration.

We develop our software solutions in close collaboration with our customers, and our

success criteria is that we adapt our products to meet customer's requirements and processes.

We aim to be the preferred supplier of customised MES solutions for manufacturing companies within the food industry.