



## AUTOMATIK 2018, THE SMART DANISH OUTLOOK

The smart factory systems can learn and adapt in near real time, enabling factories that are far more flexible than those of the past. Two companies representative of the Danish drive, DANFOSS and LINAK, are well-aware of the importance of redefining efficiency on modern factories. These two iconic firms further enlighten us on this emerging topic at AUTOMATIK, the international exhibition for smart automation and robotics that takes place every two years in Brøndby Hallen (Copenhagen).

### RELYING ON VISIBILITY, CONNECTIVITY AND AUTONOMY

The smart factory is a highly digitalized and connected production facility. It works by employing technology such as artificial intelligence, robotics, analytics, big data and the internet of things and can run mostly on its own with the ability to self-correct.

The defining characteristics of the smart factory are visibility, connectivity and autonomy. Factories have long relied on automation, but smart factories take this concept a step further and are able to run with little human intervention.

AUTOMATIK 2018 offered the perfect framework for smart automation and robotics. It featured more than 180 exhibitors displaying their latest technologies and services, including global suppliers of robotics, motion control, motors, vision systems, metrology, software and system integration services for both large and small enterprises from 11th to 13th of September.

The international exhibition revealed multiple innovations for leading a connected life with an extensive use of Internet of Things (IoT), sensors and devices intended to connect machines and enable visibility in factory processes.

It is expected that by 2020 the vast majority of the new electronic products will have connectivity. In fact, the global volume of the IoT market will grow at a rate of 35% per year. Business benefits and outcomes are what drives the majority of organizations to experiment with IoT and invest in large-scale initiatives.

## DANFOSS PRESENTED ITS POWER SOLUTIONS TO IMPROVE EFFICIENCY

Extensive use of IoT sensors and devices will connect machines and enable visibility into their condition as well as into factory processes. Increasingly sophisticated analytics and applications based on artificial intelligence and machine learning will handle many of the routine tasks, freeing up people to focus on handling exceptions and making higher-level decisions. Robots are expected to populate smart factories for routine work, working alongside people.

For DANFOSS the future of the smart factory is just around the corner. DANFOSS manufacture products and provides services for infrastructure, food supply, energy efficiency and climate-friendly solutions. They have technology projects leading the way towards its future smart factory and new ways of assembling. It is not only about technology, but also new ways of working. In fact, they experiment with "tech-friends" that will help in the daily work. DANFOSS has collaborative robots installed at its different plants across Denmark, Finland and the US.

At AUTOMATIK, they presented its power solutions to improve energy efficiency. As they like to say: the right technology can keep the world cool, hot and powered up with the least amount of energy. In order to make this happen, they are dealing with more and more heat to manage in increasingly reduced spaces. Needless to say, this is due to the market expectation for cost reduction on control electronics every year.



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## LINAK SHOWED ITS IC AND BUS ACTUATORS FOR INDUSTRIAL PROCESSES

LINAK, as the world leading manufacturer of advanced electric linear actuator systems and solutions, was another innovative company leading the Danish automation industry. They are creating their own Blue Ocean with a new series of actuators that can gather data thanks to their BUS communications and IC-solutions for modern industrial automation. The increased awareness of digitalization and automation means that they have a whole new focus area to offer its technical solutions. They consider it of great importance to make a complete solution capable of data collection available to their customers, all of which has been thoroughly tested according to the strictest of requirements.

Electric linear actuators by LINAK can be found everywhere in Denmark, its home country.

At AUTOMATIK 2018, the company presented its actuators with Bus communications to address the demand of more complex products for monitoring industrial processes.



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## **AUTOMATIK 2018, LOTS OF INSPIRATION AND MOMENTUM**

The trade-show brought together over 3600 attendees with a vast majority participating in exciting and interactive conference sessions with topics such as digital management, industry 4.0, smart maintenance, machine security and robotics in production. All the guests absorbed new knowledge from industry experts.

For exhibitors the trade-show gave the opportunity to meet customers face to face coming mostly from Nordic countries, notably from Denmark and Sweden, sharing knowledge as well as exploring new horizons in automation.

To summarize in the words of Georg Sørensen, Managing Director of MCH A/S, the company which organizes AUTOMATIK, "The many positive statements from the industry confirm that exhibitors and the qualified conference program have created synergy and combined professionalism, knowledge sharing and personal presence. I am pleased that the whole industry is protecting the value of the personal meeting, and there is a big thank you to exhibitors, guests and partners for contributing to creating three days of presence, time and confidence".