



F.A.C.T

**Festo
Authorized
and Certified
Training Centre**

**for Training in
Mechatronics
and Automation**



Training for the Future

It is the mission of Nile University (NU) to contribute to the development of the technology-driven economies in Egypt and the region through the pursuit of education and research at the highest levels of excellence. To accomplish this mission statement, NU collaborates with distinguished international universities, research institutions, and industrial partners. Driven by the same concept, NU's Mechatronics Research & Industrial Development Center is directed to become a pioneering institute targeting high end

technical development activities for the human capital and production scheme in the field of Mechatronics and Industrial Automation. On that track, NU partnered with FESTO as a world leader in the field of Automation and Mechatronics with accumulated expertise and know-how developed in Germany for over 75 years serving global multi-national industry effectively. This knowledge and know-how are now being customized to fulfill the Egyptian Industrial needs to provide industry tailored human technical development in the field of Automation & Mechatronics

Haytham Mohsen Yassin
FACT Director





FACT - a powerful partnership

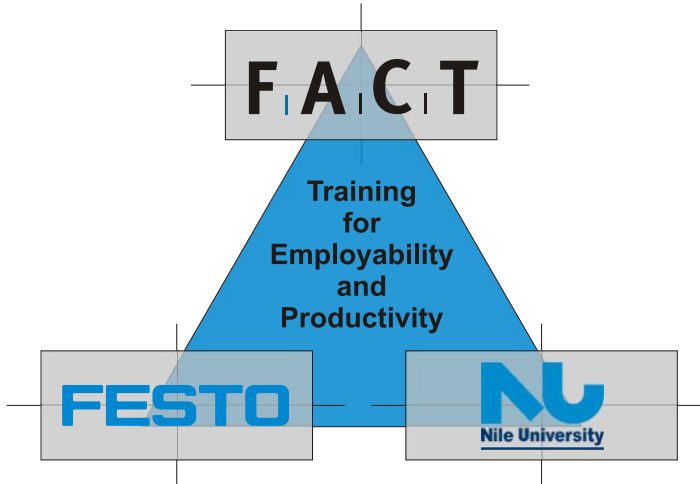
Festo with 15.800 employees represented in 178 countries worldwide has been providing automation components for industrial applications since more than 75 years.

The decisive element of FACT is that the Nile University in Cairo has been authorized by Festo to offer expertise and know-how to the free market under the Festo brand.

Either for students – called Training for Employability or the Industry – called Training for Productivity.

The FACT advantages are numerous:

- cost effective
- highly flexible because of a modular training program
- highly efficient because the training is competency based
- international standard training facilities
- relevant to the demands of the local Industry today and in the future
- use of industrial equipment
- guaranteed Festo quality and standard
- Festo certificate on successful completion of training
- increase productivity by closing know-how gaps





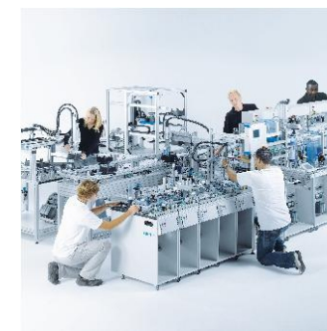
Festo - the Automation Company

/Festo Industry

Festo offers components, modules and solutions for all levels of Factory and Process Automation in the Industry. The German Company Festo is one of the world leaders in Industrial Automation with more than 15.800 employees worldwide and represented by 58 branches and partners in 178 countries. More than 75 years of experience are waiting to assist you!

/Festo Didactic

From basic training to the planning, control and handling of complex networked CIM-systems, Festo Didactic is the leading supplier of learning and training solutions in Automation Technology for all educational and continuous training institutions. Our solutions are developed to meet your specific requirements for fast and effective learning and guaranteed training success.



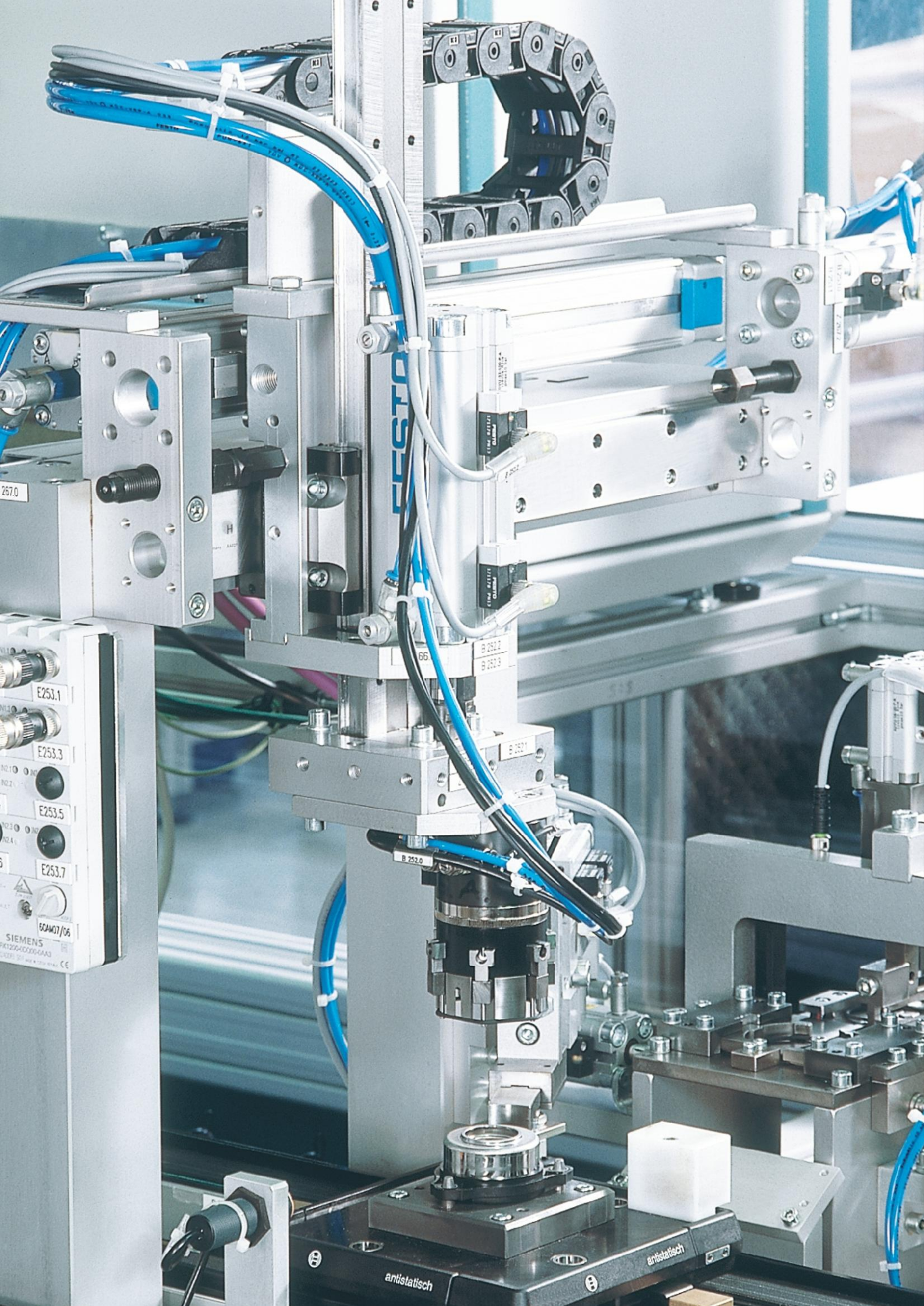


Nile University

Nile University (NU) is a world class research university committed to excellence in education and research. NU was officially inaugurated in January 2007. It is a private, non-profit institution and a leading university in technology and business education in Egypt and the Middle East/North Africa (MENA) region.

Its business and technology based programs and research agenda are designed to address critical areas of vital importance to economic growth and prosperity of the people of Egypt and the region and to engage in cutting edge research.





Why Automation Technology

In the present world of rapid technological changes and growing globalization there is an urgent demand for the very best quality products and services that can only be supplied by a high level of productivity which requires automated manufacturing and process engineering systems.

Industrial Automation is very important to face the following tasks:

Globalization

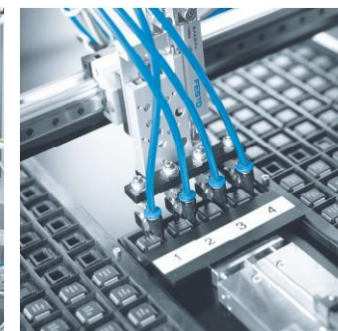
The global market requests for availability, quality, reasonable prices and services.

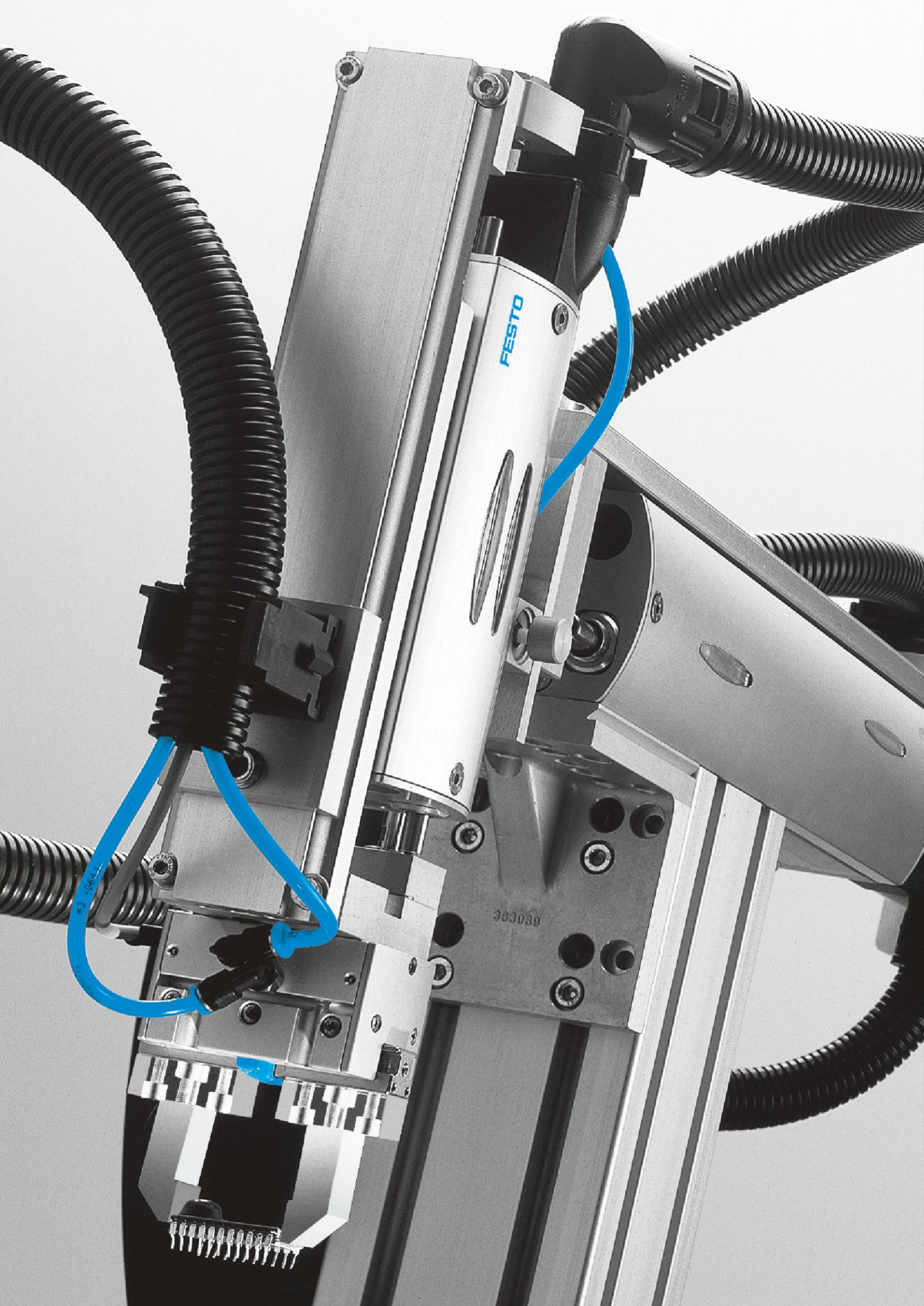
Productivity

Increase the Productivity by producing on a higher level of Automation

- Quality
- Time
- Costs

are the key factors

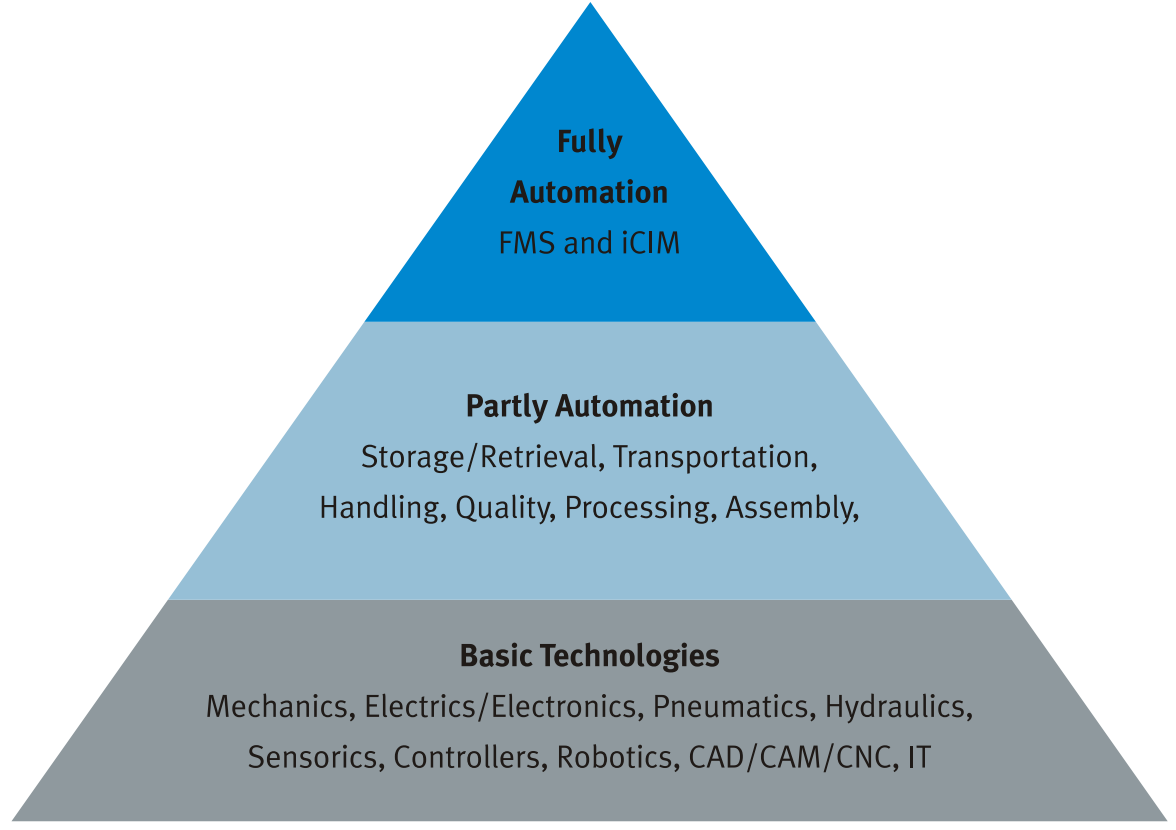


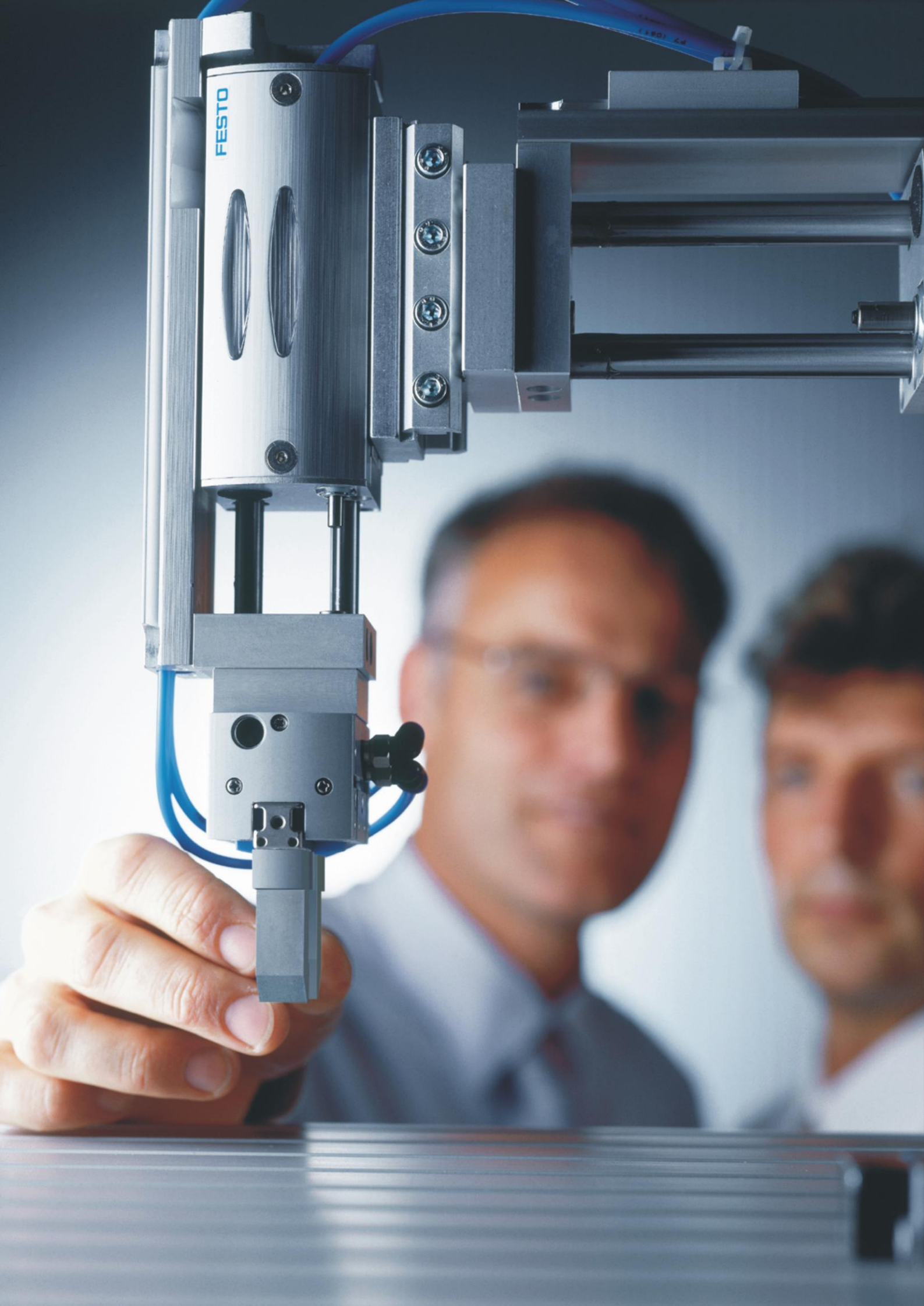


Why Mechatronics

As mentioned before, the rapid technological changes and growing globalization can only be supplied by a high level of productivity which requires automated manufacturing and process engineering systems. To be able to handle such networked systems a new way of thinking and acting is required - Mechatronics !

Modern systems have reached a level of sophistication, which would have been hard to imagine using traditional methods. Mechatronics integrates the classical fields of mechanical, electrical and computer engineering and information technology and is focussing on the interfaces between the different technologies and their technical collaboration.





Why Continuous Learning

Why is continuous learning so important? We can answer that question divided into two sections:

Product lifecycle:

Innovations and trends reduce the lifecycle of a product dramatically. Production systems have to be flexible to be able to react as fast as possible.

Productivity

New trends and technological developments can increase the Productivity and your standing in the global market.

Two good reasons to keep focussing on the permanent know-how upgrade of your employees and staff.

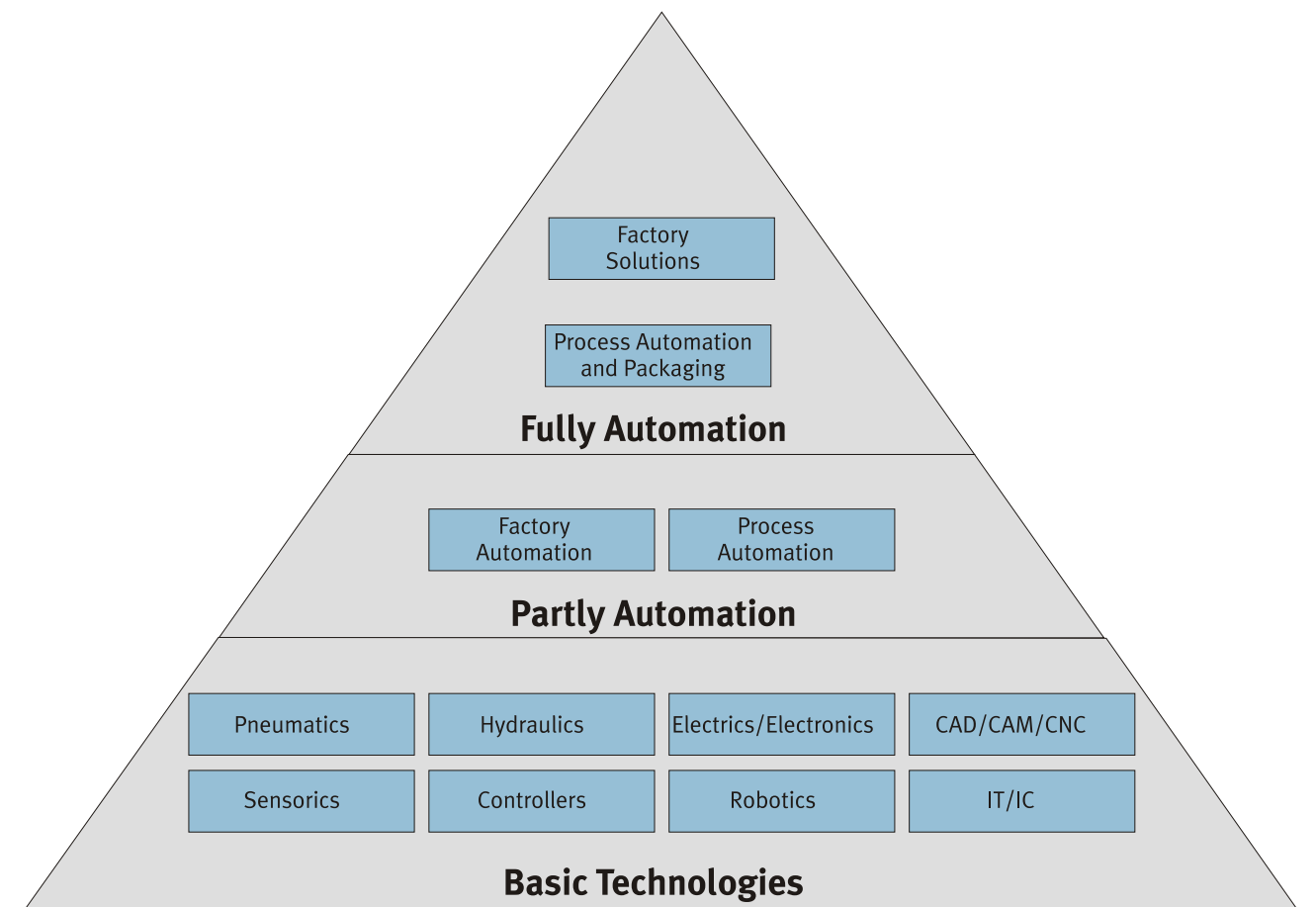




Our Training facilities

Basic Technologies of Mecha-
tronics training is the very first
step of education and training
in Automation Technology. To
be able to think and act within
a networked system, the basic
technologies must be fully
understood.

All aspects of Pneumatics
can be trained in this lab.
Pneumatics as part of Fluidics
is an essential technology
in the industrial reality. Air is
clean, fast, easy to transport
and store.



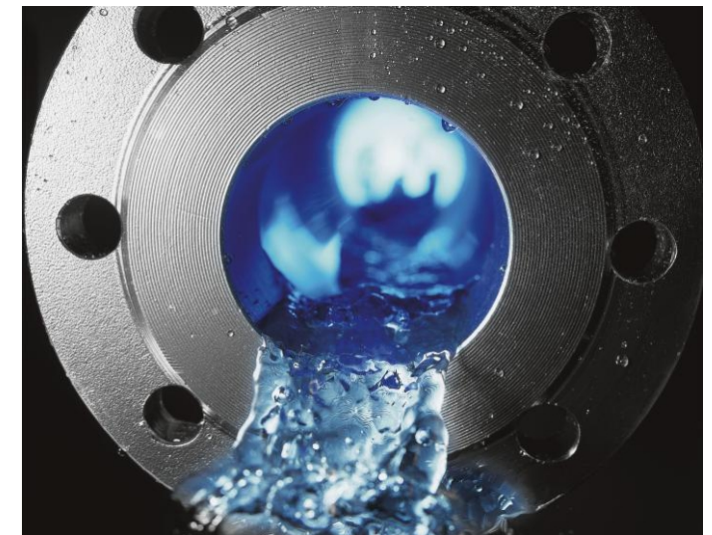
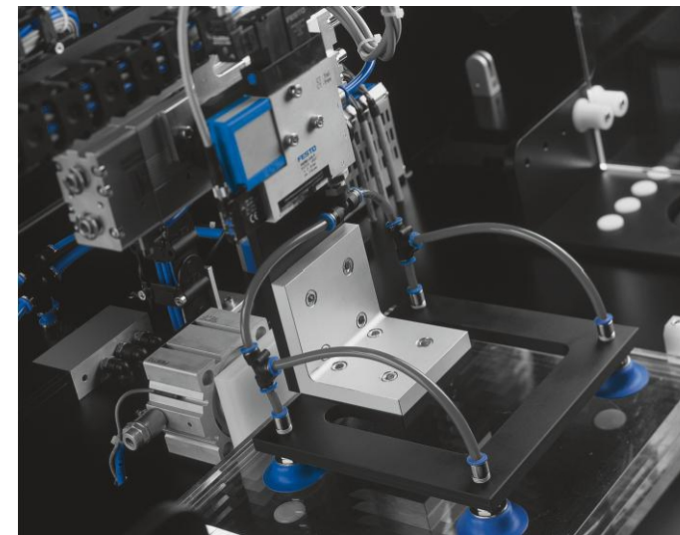


Our Training facilities

Fully Automation representing the material- and signal flow throughout the entire manufacturing and packaging process in the Industry. To be able to handle fully automated systems, the level of Partly Automation has to be understood. Partly Automation is divided in 2 sections:

Factory Automation is the handling of solid workpieces throughout the entire manufacturing and packaging process, by means of in each step of the process the shape, dimension, orientation and material is known.

Process Automation is the control of all flowing materials, such as fluids, gas or powdery material, manual or automated processes i.e. the production, transport, treatment and disposal. Mostly closed loop controllers are used within the Process Technology.





Our Training modules

Basic Technologies of Mecha-
tronics training is the very first
step into the world of Auto-
mation Technology.
Our training modules are de-
signed to transfer Professional
Competence to our participants.
By Professional Competence we
understand the combination of
knowledge, skills and pro-
fessional attitude.

Our training modules are:

- Introduction to Control
Technology
- Pneumatics
- Electro-Pneumatics
Basic
- Electro-Pneumatics
Advanced and Safety
- PLC programming
Basic





Our Training modules

Fully Automation representing the material- and signal flow throughout the entire manufacturing and packaging process. In many cases, Fully Automation is a combination of Factory and Process Automation together. That's why we structured our training program accordingly.

Our training modules are:

Factory Automation

- Introduction to Automation and Mechatronics
- Commissioning and Trouble Shooting
- PLC Programming Advanced

Process Automation

- PLC Programming Higher Functions
- Closed Loop Control in Process Automation



Contact Data

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