

# kontron

Kontron AIS GmbH

© iStockphoto.com/TomekD76



## Retrofit

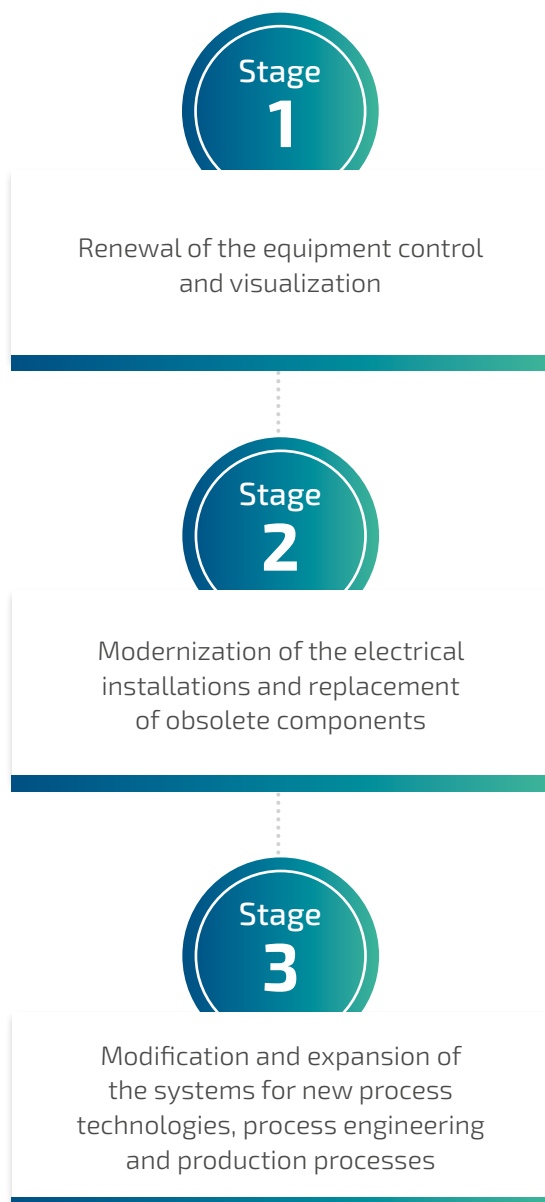
## Renewal of Vacuum and Coating Systems in Production and Research

Safe and reliable machine operation is a top priority for many production and research facilities. Over time, as coating and vacuum systems grow older, risks often arise regarding to the reliability of the control system and the electrical components. To avoid expensive replacements, retrofitting your existing systems is an ideal solution. In this way, you can ensure operational reliability for years to come, benefit from the implementation of new technology functions and achieve the reliability of a new machine at a fraction of the cost. With more than 30 years of experience in developing equipment controls for a variety of technologies, we are your expert retrofit partner.

## Your benefits

- › Increase machine performance
- › Improve performance parameters
- › Reduce time and money spent on maintenance
- › Stabilize machine operation
- › Reduce production costs
- › Increase spare parts availability
- › Reduce downtime
- › Expand quality assurance
- › Save costs by avoiding new purchases
- › Achieve independence from the system supplier

## Flexible phased approach to retrofitting your equipment



## Equipment control and retrofits already in place

Today, more than 7,500 machines worldwide are equipped with our control systems for various technologies such as

- › sputtering,
- › thermal evaporation,
- › electron and ion beam processing,
- › plasma-enhanced technologies (PECVD),
- › epitaxy systems (MOCVD) and
- › wet chemical and special systems.

Based on our comprehensive experience, we can give your system a second life. As a reliable retrofit partner, we offer customized solutions to meet your individual needs.

### We have successfully renewed these vacuum and coating systems (excerpt):

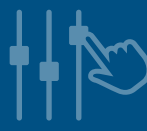
- › Balzers (e.g., BAK 640, BAK 642, BAK 760, BAK 1200)
- › Leybold (e.g., Z 550, Z 590, ZH 620 Vanguard/ Emerald, Z 650, Z 600, Z 660, Z 700, ZV 6000, ZV 1200)
- › Perkin Elmer (e.g., PERKIN ELMER 4400)
- › Mikromat (e.g., HZS 02)
- › MRC 903



Replacement of  
obsolete components



Reduced maintenance  
requirements



Improved performance  
parameters



Better system  
performance

## Our service

- › Selection of the right control solution for reliable machine operation and optimum process control
- › Customized software adaptations and extensions
- › Partial or complete CE-compliant renewal of the electrics, including personal protection and EMC shielding, in accordance with current requirements
- › Customized IT security solutions for networked machines
- › Renewal of selected system components such as HF and DC power supplies, gas inlets (valves and MFCs), drives or measurement technology
- › Modifications and upgrades by using the equipment for new process technologies or changed production methods
- › Full service and support: 24/7 hotline, remote diagnostics, on-site service, spare parts supply
- › Revision and updating of documentation
- › Reduced cabling thanks to modern components with fieldbus interfaces
- › Use of standard components for long-term availability of spare parts

## Live digitalization

In addition to the focused view on the individual system, there are various aspects regarding the integration of machines into IT systems, e.g. the use and evaluation of machine data or the remote control. In cooperation with you and based on our existing software products, we create integration solutions for the machine connection in your IT and OT landscape, thus we create the basis for Industry 4.0 or the digitalization of your production.



### ToolCommander®

Open software framework for  
equipment control and visualization



### FabEagle®Connect

Low-code interface integration  
for machines and IT systems



### FabEagle®Monitoring

Factory-wide shop floor management  
for more transparency in production



### FabLink®

SEMI-conform SECS/GEM, GEM300,  
EDA, PV02 and SEMI A3 interfaces



## Kontron AIS GmbH

Kontron AIS GmbH sets the benchmark in industrial software – for more than 30 years and with an experienced team of over 250 employees. The proven software products and customized digitalization solutions enable machine and equipment builders as well as factory operators to break new ground in automation and secure long-term competitive advantages. Together with its customers, Kontron AIS implements worldwide cross-industry, intelligent digitalization strategies and solutions for the smart manufacturing of tomorrow.

As a subsidiary of the Kontron AG, Kontron AIS offers integrated, end-to-end IoT concepts consisting of hardware and software as well as worldwide project management, service, and support thanks to a global network.



Software Development



Consulting and Requirement Engineering



Project Management and Training



Supply of Hardware for Control and IT Systems



On-Site Installation and Commissioning



Flexible, Global Service and Support

Kontron AIS GmbH  
Otto-Mohr-Straße 6  
01237 Dresden  
Germany

Phone +49 (0)351 2166 0  
Fax +49 (0)351 2166 3000

**We are at your service:**  
[contact@kontron-ais.com](mailto:contact@kontron-ais.com)

**More information:**  
[www.kontron-ais.com](http://www.kontron-ais.com)

THE BENCHMARK IN INDUSTRIAL SOFTWARE