

QUCOS

Creative Solutions by Experienced Minds

INNOVATIVE AUTOMATION LEAD SYSTEMS AND CONTROLS

for Plating, Surface Treatment, Logistics, Warehouses, Assembly Lines



AUCOS CONTROLS

*More than 1,800 controls
all over the world for new lines
and retrofits of existing lines.*



AUCOS CONTROLS

Creative solutions by experienced minds. Partner in the industry for more than 30 years.

Innovation is the basis of our success. More than 30 years ago we started developing our own computer, hardware and operating software for controls. **Some of our recent innovations are:**

- A new method for high precision thickness control for plating on steal strips
- Introduction of wireless networking for the control of large machines
- Software for optimized production
- Controls and concepts for inline plating
- We look forward to meeting new challenges in the future

Our staff includes 60 specialists in programming and electrical engineering, combining enthusiastic recent college graduates and engineers with over 30 years experience. Continual in-house education ensures that we remain on the leading edge of technology.

Locations at
Aachen, Germany
Lakeville, MA, USA
Maharashtra, India
Suzhou, China

A close-up photograph of a multi-tiered industrial machine, possibly a conveyor or sorting system. The machine features several horizontal metal bars or rollers, each with a small, dark, rectangular component attached to its top surface. The machine is illuminated from above, creating bright highlights on the metal surfaces and deep shadows in the recessed areas. The background is dark and out of focus. A white rectangular text box is overlaid on the bottom left of the image.

**REPEATABLE PROCESS,
FLEXIBILITY AND
PREDICTABLE CAPACITY**

Basis for your success

In most cases automation is a small part of a production line but an extremely important one.

Controls for plating lines are a link between all process related functions, the mechanical transport system and production logistics.

At the same time plating controls have to take care of different needs, i. e. in the production of aircrafts, in lines for printed circuit boards or general metal finishing.

Over the years we have developed our own technology. This is the basis for our custom tailored automation for all areas of surface treatment and production.

Controls for plating and surface treatment

We have installed controls for very different needs: Highly flexible lines for research purposes as well as high production lines with up to 27 cranes and extensive process control and logistics; simple manual load and unload stations as well as fully automated barrel lines with raw material warehouse, capacity optimization based on orders and precisely defined barrel loads.

- Rack lines for plating of steel, brass and aluminium
- Barrel lines for highest capacity with fully automated load/unload
- Controls for plating on plastic up to maximum throughput
- Vibration basket lines
- Printed circuit board lines with pulse plating
- Lines for phosphating, pickling and blackening
- Lines for anodizing with chemical and electrolytic coloring
- E-Coat lines
- Barrel lines for electronics

CONTROLS FOR PLATING LINES AND SURFACE TREATMENT

Flexibility of hoist control and repeatable quality has been a priority for Aucos for over 30 years.

We offer 2 solutions for flexible production:

„Aucos Free System“ & „Aucos Mixed Cycle System“

Both software solutions are highly flexible and efficient. Both technologies are based upon a pre-calculation, ensuring repeatable process and dwell times.



THREE DIFFERENT WAYS OF HOIST SCHEDULING: FOR BEST RESULTS TAILORED TO YOUR NEEDS.

„Fixed Time Way“

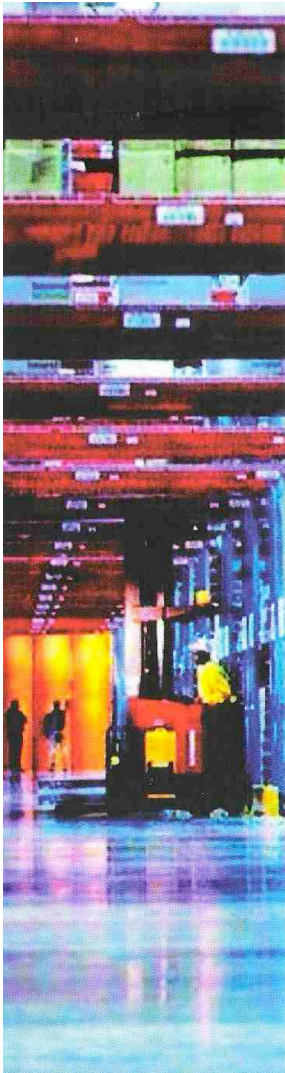
for repeated production, based on time way diagram, for all situations, when only one process or little variation is needed.

„Aucos Mixed Cycle System“

a good synthesis of time way diagram control together with programming by user; with sufficient flexibility for most plating lines, high capacity and repeatable dwell times, which stay constant even in mix of different programs and products.

„Aucos Free System“

for highest flexibility; free choices of processes and dwell times, limited only by given mechanical situations of the plating line; editor for new processes, which can be used immediately, also in mix with other processes and dwell times.



FOR A BETTER PRODUCT

Tools for predictable quality and production

Consistent high quality is a must. With comprehensive reports and a reproduceable process Aucos helps you to fulfill these requirements.

We have the tools:

- Complete reporting and analysis of line production
- Automatic warning at unload to avoid bad parts to be sent out to customers
- Work bar reports for quality verification
- Fault acknowledgement together with help text, pictures, graphics and even electrical schematics to ease troubleshooting
- Trend curves of temperature, voltage, current and concentration
- Statistical analysis of fault acknowledgments
- Screen and programs to collect plating defects
- Data base for easier analysis of plating defects

LOGISTICS FOR PLATING LINES, ASSEMBLY LINES AND MANY OTHER AREAS OF PRODUCTION

Often very different requirements have to be reconciled:

Maximum capacity while fulfilling all process needs. Flexible service of load and unload stations as immediate as possible to avoid expensive wait times. A reasonable scheduling of orders; priority for urgent material.

Our solutions:

Optimization

for highest capacity, when mixes of different material and process are run.

Automated warehouse

for raw material and finished products.

Robots

for many handling situations, to distribute finished material from barrel into small boxes, to pile up boxes, for automatic loading and unloading racks.

Transport Systems

To link remote production areas together with plating lines, with wireless network, automatic control and complete data collection.

Aucos has in place controls for warehouses with up to 10,000 storage places and has linked these together with plating lines and assembly lines with completely automated loading and unloading of barrels, optimized provision of material for rack loading and unloading.

Control systems connected with factory network for scheduling of orders and collection of production data.



OUR SERVICE

If a problem comes up...

- 24/7 service
- Remote service for computer systems and PLCs
- Maintenance and software updates for highly reliable operation

Our contributions in case you are planning on a new line or on a retrofit of your existing lines:

- Simulation of your future production, tool for better line layout, which satisfies your requirements
- Investigations into line logistics for efficient loading and unloading

FINALLY SOME TECHNICAL INFORMATION PROVEN TECHNOLOGIES AND INTERESTING NEW DEVELOPMENTS

For our controls, we use components, which are readily available and widely used in the industry.

- Programmable logic controllers (PLC), i. e. Allen Bradley, Siemens, Bosch
- Lead system
Using LINUX and Windows®
- Data bases
Firebird, PostgreSQL, Oracle®
- Proven software modules for all basic functions, customized for specific applications
- Web server
With our systems, it is always easy to communicate with other computers
- Browser software and network access are available
- Wireless control network
Less cable connections, linking production areas even if they are spread out in different buildings
- Our new concept offers many new opportunities in the layout of plating lines.
- Wireless handheld terminal
With incorporated barcode reader. Together with our wireless network this terminal will give you all the information you need wherever you need it.
- Important production information accessible via smartphone.

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