Machine retrofit

Bring your machine up to the latest standard



AT A GLANCE

Free of charge
Retrofit Check at your site

Electrical engineering
Control cabinet, drives, HMI and controls

Hall or on site
Modification in Wörth an der Donau or at your site

Digital
Circuit diagrams, software versions, backups

We modernise the control cabinet, drives, operation, controls and safety technology of your existing machine. We check at the machine what needs to be renewed and what can stay, and plan the modification around your downtime window.

WE WORK WITH CONTROLLERS FROM

SIEMENS BECKHOFF

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Retrofit Check
FREE OF CHARGE

We look at your machine at your site.

1 Inventory

We assess electrics, drives and controls.

2 Preparation

We build the control cabinet and test it in advance.

3 Modification

In our hall in Wörth an der Donau or at your site.

4 Handover

We test, commission and document.

What we renew on your machine

After the Retrofit Check, we decide together with you which modules are needed, individually or together depending on the machine.

Control cabinet and electrical engineering

We plan the electrical engineering, build the new control cabinet and test it in advance in our hall in Wörth an der Donau. You receive updated circuit diagrams.

Drives, motors and inverters

We replace frequency inverters, servo drives and servo motors, transfer the parameters and commission the drives. If a device has been discontinued, we propose a successor.

Operation and HMI

We renew operator panels so that operation and diagnostics match the new controls. We configure new Siemens panels in the TIA Portal.

Controls

We migrate S5, S7-300 and S7-400 to S7-1200 or S7-1500 in the TIA Portal or to current Beckhoff controllers with TwinCAT 3.

Safety technology and CE

We design the safety technology to DIN EN ISO 13849 and validate it. After a substantial modification, we prepare the documents for CE marking.

Sensors, diagnostics and remote access

We integrate sensors, actuators and drives into the controls and check every signal on the system. Via remote access we see messages and signal states.

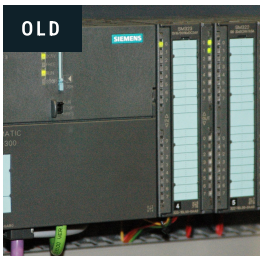
Controls: from the old to the new generation



Siemens S5-95U: spare parts mostly second-hand



Siemens S5-100U



Siemens S7-300: phase-out announced



Siemens S7-1500 in the TIA Portal



Beckhoff CX2020 embedded PC with TwinCAT 3

Starting point	Condition	Our approach
Siemens S5	Spare parts mostly second-hand	We back up the program and symbols, transfer the program to the TIA Portal with the Siemens converter and rebuild special blocks in SCL.
Siemens S7-300 and S7-400	Phase-out announced	We migrate your projects with symbols and comments in the TIA Portal and reuse existing I/O where it fits.
Other controllers	Hardware often discontinued	In the Retrofit Check we clarify condition, program version and target platform, even if documentation is missing.

We decide with you which platform fits, based on machine size, peripherals and the know-how of your maintenance team.

What the retrofit gives you

Fewer failures thanks to available parts
Available components, backed-up software versions and documented spare parts: if a component fails, a replacement can be obtained and the program version can be restored.

Safety technology to the current state of the art
Before the modification, we define with you which safety technology will be renewed and document it for commissioning.

Remote access, diagnostics and data analysis
Via remote access we see messages and signal states. You evaluate process and machine data yourself.

Up-to-date digital documentation
You receive updated circuit diagrams, software versions and project documents in digital form.

What stays, what is renewed

- What remains is whatever is in good condition, performs its function and can be connected cleanly to the new technology, often the machine bed and guideways.
- If circuit diagrams or programs are missing, we additionally survey the machine, analyse the functions and document them. We show this effort separately.

Downtime and restart

- We plan the downtime window based on the modification work, the prepared hardware and software and the necessary restart tests.
- We prepare hardware and software before production stops.
- Before production starts, we test the modified functions and coordinate the restart with your team.

What helps us with the initial assessment

Send us what you have. Even incomplete information is enough for an initial enquiry.

- [ ] Manufacturer, year of construction and types of controls and drives, if known
- [ ] Photos of the control cabinet and the rating plates, circuit diagrams and backups
- [ ] Known faults and desired changes
- [ ] Production volume, variants and interfaces, if known
- [ ] Location, contact person and possible downtime windows

Request a Retrofit Check

We look at your machine on site and tell you which modules are worthwhile for a retrofit.

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As of 11/2026

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