

Convenient upgrade option

To a new S7 controller without production loss



A new control system in five steps

1. Removal of existing CPU
2. Installation of new “OnC VeriCheck57” module
3. Reading of S5 and S7 programs
4. Mixed operation with synchronization of both programs
5. Activation of S7 program

The hardware components can be subsequently replaced at any time.



If a product is phased out, it’s time to look around as quickly as possible for something new. It is good if the alternative also brings additional benefits: OnC VeriCheck57 allows graduated-cost modernization of existing S5 controllers without additional standstill.

After production of the SIMATIC S5 program, which is common in the paper and pulp industry as a controller, is gradually phased out by the manufacturer, the product will no longer be available from 2015 at the latest. In order to make the conversion of existing S5 controllers to the S7 successor version as simple as possible, Voith Paper Automation has developed a solution with OnC VeriCheck57 that is adapted to the needs of customers.

Quick, safe, gradual

OnC VeriCheck57 offers a gradual migration of SIMATIC S5 to S7. In the process, the existing CPU (central processing unit) is first replaced with a new, more high-performance V57 assembly from Voith. In the next step, in addition to the existing S5 the S7 program is also read in, so that both run parallel in combined operation. Control of the connected hardware, such as valves, is still done at this time via S5, but all input and

output signals are also simultaneously processed by S7. This allows a detailed alignment of both programs that is automatically recorded and evaluated.

As soon as there are no longer any irregularities between S5 and S7 and both work in completely congruent fashion, one can switch over to S7 during a planned shutdown. This verification of the software offers the highest possible reliability during migration. In addition, a modernization of the S5 controller becomes possible without production loss.

Keeping costs under control

One of the most important advantages of modernization by means of OnC VeriCheck57 is the separation of hardware and software conversion. In contrast to other approaches, with this solution only the CPU is replaced and the rest of the hardware components such as I/O cards and PCs can continue to be used. Through this

gradual conversion, the costs are staggered and the investment remains straightforward. The extent of the modernization is individually arranged with the customer. In addition, due to the software verification a FAT (factory acceptance test) becomes unnecessary, saving both time and costs.

Infobox SIMATIC S5/S7

The SIMATIC S5 was launched on the market in 1979 and is among the programmable logic controllers (PLCs). It is for controlling process and machine functions. The program is stored on a processor, the so-called CPU (central processing unit).

After production of the S5 is stopped, an upgrade to the SIMATIC S7 successor version will be necessary to ensure the availability of replacement parts and support by service personnel.

Contact



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