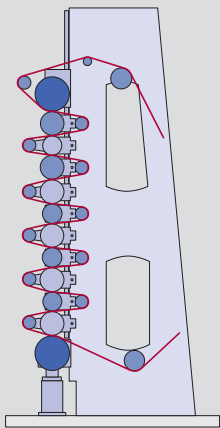
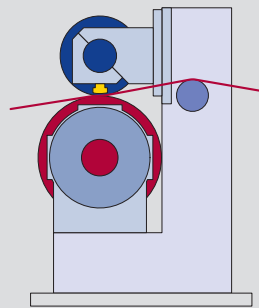


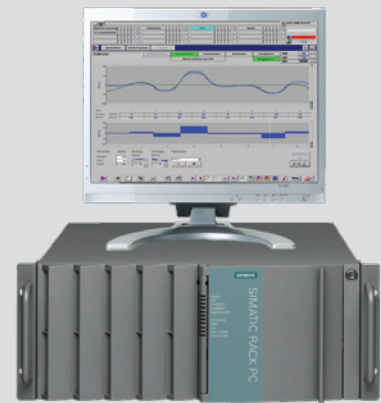
# Voith CalTronic Flex – Modernization of the CalTronic control systems on calenders



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## Basis

The CalTronic operating system works under the MS-DOS operating system and is an application individually developed for your specific requirements and needs. This system was developed to display roll calculation and operation, various control functions and fault messages.

The servicing possibilities for this system today are now limited. Replacement of the CalTronic PC with a new PC is complicated and in general incompatible with new PC systems. Special PC cards can often no longer be supplied or used with newer PC systems.

The software is a black box application with very limited possibilities for adaption.

The functional breakdown of a component on the CalTronic PC can lead to a long machine standstill.

## Our solution

The CalTronic system is replaced by a visualization system based on Simatic WinCC.

The computer hardware is brought up to date (incl. TFT monitor).

Roll calculations are transferred over from the DOS application into the new operating system. The Calender thus works and reacts as it did before the retro-fit.

The modernization includes:

- Replacement of the old PC system by modern hardware
- Windows XP operating system

## Advantage

- Future-compatible hardware
- Assured procurement of replacement parts and service possibilities
- No change of technological characteristics, thus enabling a quicker and smoother retro-fit
- Modern visualization and operating system
- No modernization of PLC controller necessary

- Simatic WinCC operating system including Voith technology components with roll calculation and operation
- PLC controller remains

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## Operation

The new CalTronic Flex operating interface offers all the possibilities of a modern graphic user interface regarding user-friendliness, openness and transparency.

By using the OPC interface standard, machine data can be monitored anytime online.

Limitations regarding printer and network support are a thing of the past.

Fig. 1: *Scheme Supercalender*

Fig. 2: *Scheme Soft calender*

Fig. 3: *New Hardware*

Fig. 4: *Obsolete operating unit*



## Hardware

Modernization allows complete replacement of the obsolete operating system and thus clearing up and harmonizing the operating panel.

The hardware is the most up-to-date Siemens rack PC, incl. TFT monitor.

For connection to the existing controller, the standard PC interfaces are used. Interface accessories and, if necessary, adaptations of the controller are also part of what is included in the delivery.

## Option

As an option, the existing roll calculation software can be replaced using new NipcoLogic software based on intelligent model algorithms.

Advantage:

- Recalculation from the existing roll design
- Improved roll profile

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