

PRESS RETROFIT

ABB retrofit solutions for Wifag evolution and OF37xS presses



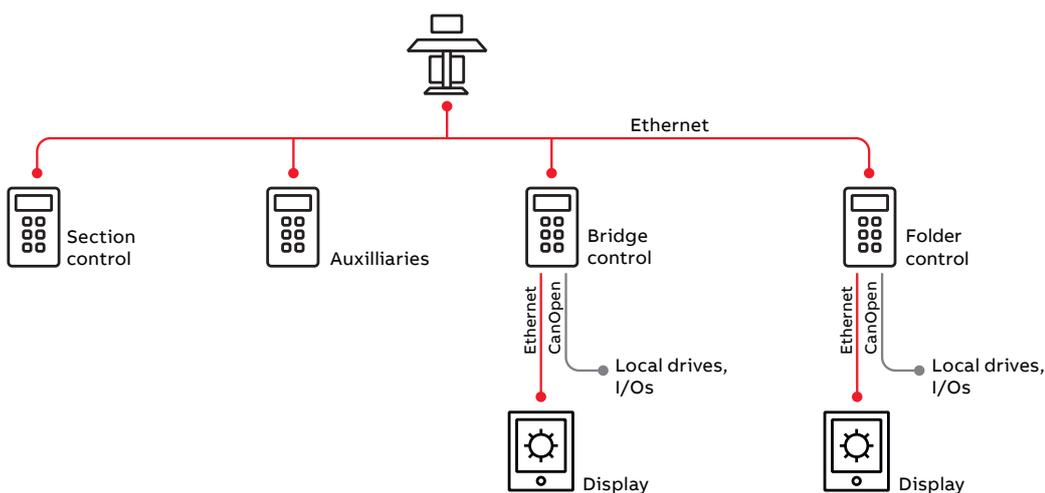
Many Wifag evolution and OF37xS presses are now reaching the age where a replacement of the electrical systems is advisable. ABB has therefore developed additional retrofit solutions specific to this press type. These include a control system replacement for the Platform and Platform plus systems based on AMK devices. The solution has already found its first customers.

The Platform control system configuration has a combination of ABB KT98 devices (for the section control, threading chain control, auxiliaries control and the gateways to the towers, folders and reel-stands) together with AMK Symac systems for the remaining control systems (bridge, folder, turner bars etc.). The older Platform plus configuration uses a Wifag SectionMaster system and AMK Symac units for all further controls. All these devices are

either approaching the end of their life-cycle or are already obsolete. Hence the need for retrofitting the controls.

The new ABB solution sees the use of the AC500 PLC, that has proven itself in countless demanding industries worldwide, for all the control systems. At the same time the original Pilz displays are replaced with new ABB touchscreen control panels from the CP6xx series.

Schematic overview of the new ABB control solution



The ABB solution simplifies the architecture, reduces the number of different devices required and provides a system for which the availability of spare parts is assured for at least the next 10 years. The CanOpen fieldbus to the local drives and I/Os remains unchanged, so these components can be retained.

Existing mobile display panels (MOB) are replaced by the same touchscreen control panels as mounted on the press. Wifag register control systems can be supported, though ABB prefers to interface to suppliers with open interfaces (3T, Grafikontrol, QI etc.). The Wifag Service Explorer is no longer required as all maintenance tasks can be done with the ABB service PC.

Installation and commissioning

The new systems can be installed in parallel with the existing systems. Switching between the new and old systems is possible at any time during the commissioning. This means that the new systems can be installed and tested during the daytime, but the press is always ready for the night production with the old systems. Once the new systems have been fully tested the old systems can be removed.



The ABB CP635 touchscreen control panel on a Wifag press