DCOS AUTOMATION DRIVE & CONTROLS

OPERATOR

DCOS OPERATOR INTERFACE SYSTEMS

The DCOS control console is the logical place for the operator to control and overview the printing process in an efficient, reliable and user-friendly way. It gives the operator access to adjustments and an overview of all the systems in the DCOS customized printing solution, as well as many external systems.

The DCOS control console has been developed as a one-man operating station. It can be configured with various options depending on the customer's needs and what equipment is to be controlled. The ergonomic design allows the operator to easily adjust height and angular working posture by a simple touch. Multiple consoles can be installed and used together or individually by targeting a specific part of the machine. The desks are not dependent on each other and can be used on a completely standalone basis.

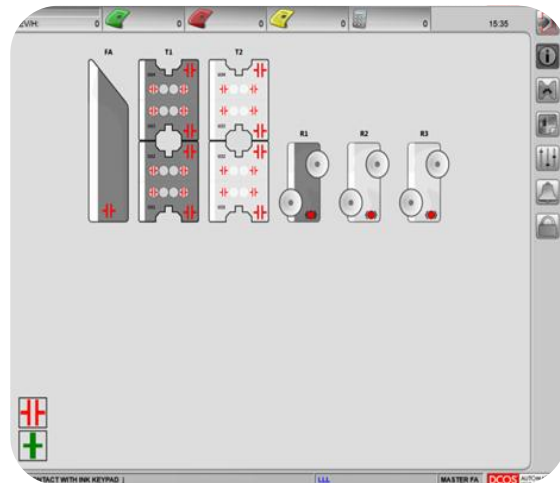The console can be fitted with a combination of the following:

- 22" touchscreen for press interface
- 22" touchscreen for softproof
- Ink zone keypad
- Offset command keypad

Press Interface

The user interface for the printing process is operated from a 22" touch screen that provides the operator with options to control and make adjustments to the product currently being printed. Information, status and alarms will inform the operator about current conditions. The software has several different modules that can be enabled depending on the features installed on the press. Multi-language support is natively built into the interface.
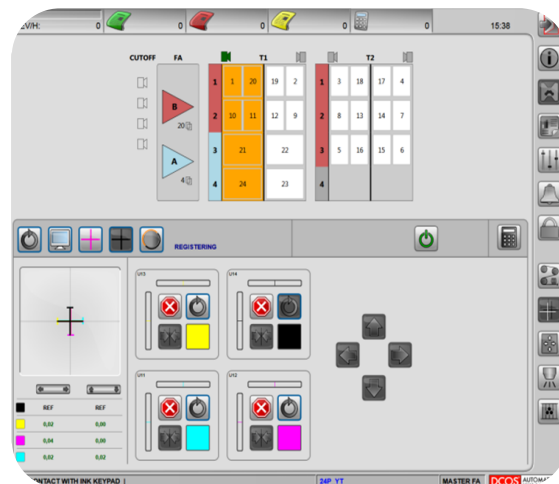
The platform is designed to be highly flexible and compatible with a wide range of printing presses and configurations. Both cold and heat set machines sized from single-width/single-round to triple-width/double-round machines are supported. This makes it the perfect candidate for new installations as well as retrofitting. Custom machine layouts are provided for each installation, making it easy to customize and match the customer's press layout. Remote connection options ensure easy remote assistance and diagnostics for DCOS technicians.

With the built-in configuration editor, user-defined configurations can be created and stored. The editor has support for multiple web leads and an integrated pagination engine that will aid the operator in daily use.

Examples of available features:

- Alarm and status indications.
- Quality functions (Register/Ink/Water)
- Tension control
- Configuration management
- Production management
- Remote ink presetting
- Ribbon control
- Ink density control
- Ink filling control

Support for a wide range of optional modules can extend the user interface even further to integrate with auxiliary equipment, such as splicers, remote ink, dampening and closed-loop systems. This will make the printing machine as a whole easy to operate through the same software with the same look and feel.

Softproofing

Softproofing is a technique that allows the operator to view on a monitor what the print should look like when it appears on paper. Two different proofing alternatives are available:

Content proof – A standard monitor is used for proofing the pages.

Color proof – A color-calibrated monitor is used for proofing the pages with high-quality color intent.

The monitor will project high-resolution pictures of the pages. The proofed page displayed can be selected from the press interface, when the operator of the press interface changes active page for adjustments the corresponding page will automatically be selected on the proof monitor. Another available option is to manually navigate between the proof pages on the monitor itself. Zoom commands are available to enable more details of a specific area of the page to be shown. Whichever way the operator chooses to navigate, the monitor will automatically display a corresponding view of the selected page, independent of page layout or formats such as broadsheet, tabloid etc.

Ink zone keypad

The flexible ink zone keypad will allow adjustment of ink keys for the corresponding ink fountain selected on the press interface. The keypad has variable zone spacing due to software-controlled illuminated LEDs. This means that the keypad is capable of handling installations where different segmentation is used on the ink fountains, for example different brands of ink fountains used on different parts of the machine.

Offset command keypad

The offset command keypad contains buttons and indications for the normal running operation of the printing press. Inch, stop, speed, auto sequences and similar commands can be executed from this keypad. Spare function keys are optionally available to implement custom features.