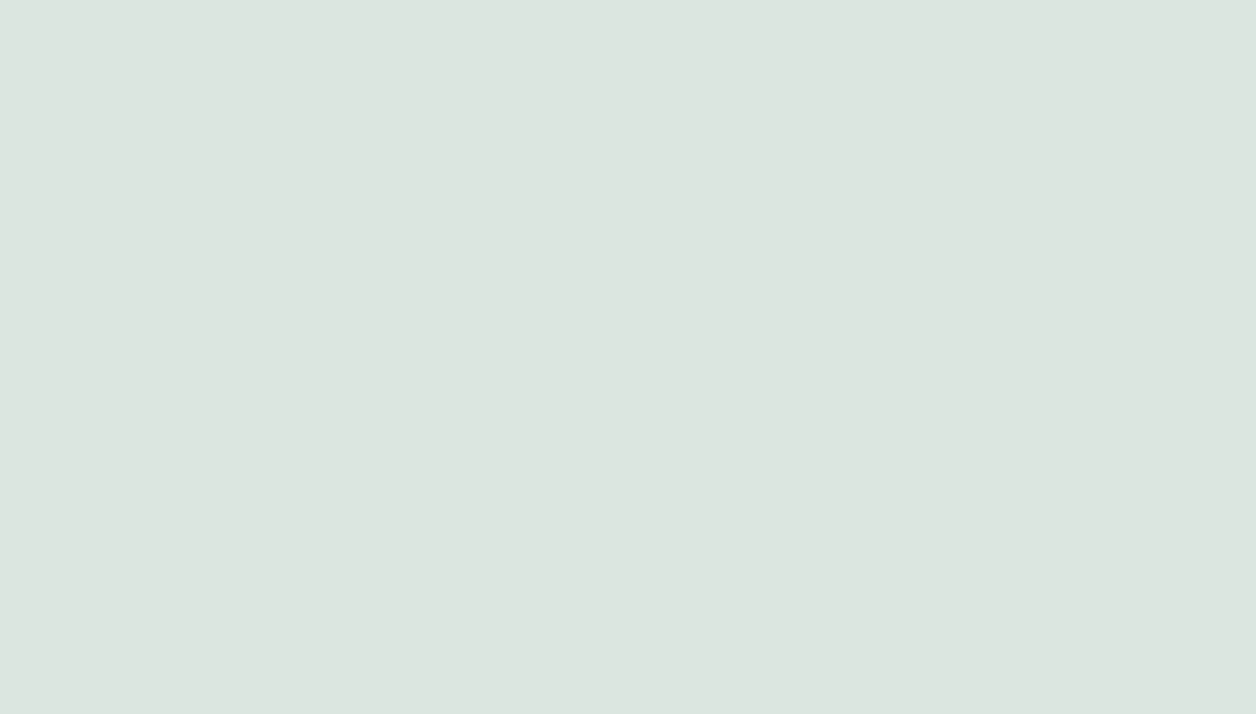


colour

Precise Ink Setting

→ Offset printing, Letterset printing



eltromat – since 1960 we have developed and produced control equipment to optimize printing processes. We are an innovative partner of machine manufacturers and printers. Our products are installed in many printing companies that have high demands regarding efficiency and quality.

eltromat products are applied to rotogravure as well as flexo, offset and screen printing processes. A modular concept allows installations from the easiest web viewing system up to a complete 100% inspection system. Upgrades are easy and a great value.

Please feel welcome to ask us about reference installations.



colour

QUICK TO CORRECT COLOUR

- _ QUICK TO PRINT
- _ MINIMIZING WASTE
- _ IMPROVING QUALITY
- _ PREVENTING COMPLAINTS
- _ EASY TO OPERATE

- = INCREASING PRODUCTIVITY
- = REDUCING COSTS

The electronic colour adjustment of printing presses has been state of the art for some time – precise, quick, reliable and easy to operate are the important factors for which we strive.

fss_3 electronic colour adjustment from **eltromat** is the result of years of analysis of customer feedback that has been applied to development in printing press technology. We constantly incorporate our own innovations, such as our latest feature, the *TouchScreen*.

eltromat colour is a modular part of the **eltromat PrintQualitySystems imcon_3** and **offcon_3**.

→	drive	register	vision	colour	flow
				Ink Fountain Control fss_3 Ink Fountain	



HighSpeed

The speed and reliability of our systems is based upon the use of specially programmed highly integrated circuits that transmit at high speeds.

HighTouch

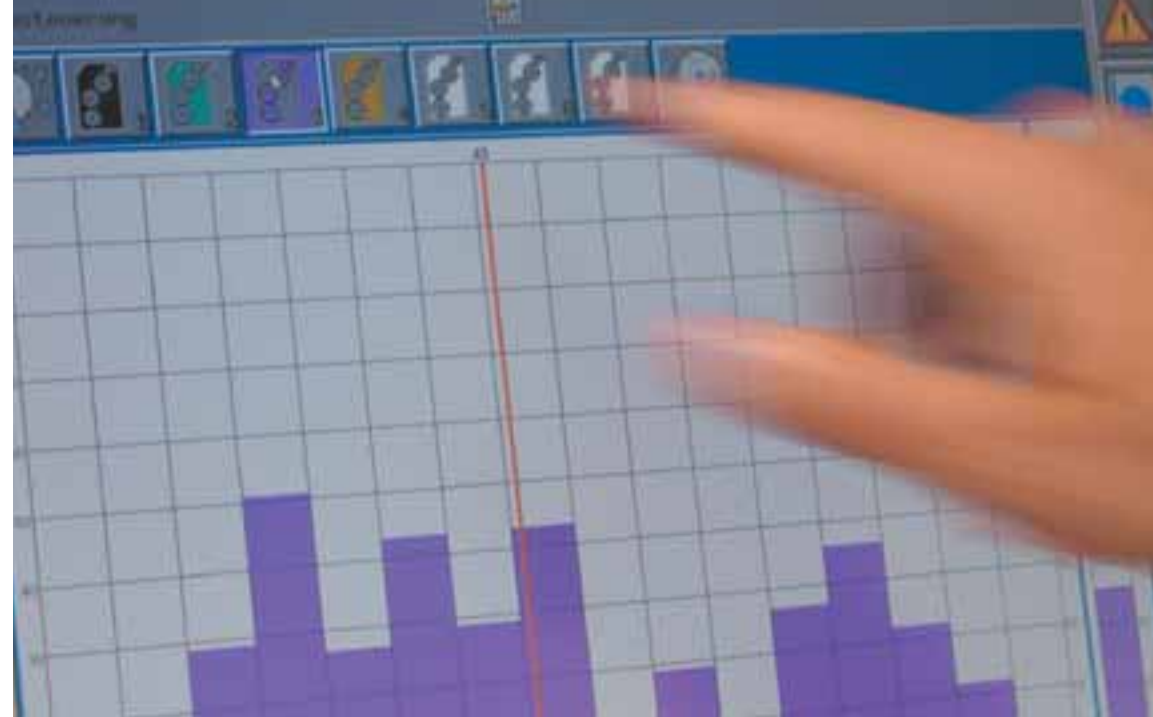
Our systems are easy to operate by means of *TouchScreen* and *LinearMouse*.

HighModular

Our modular system technology offers open interfaces to **eltromat_register** and **_vision** systems thus ensuring an easy upgrade by adding or exchanging hard- and/or software components.

QUICK COLOUR I

Modern ink fountain control means easy and comfortable operation as well as precise and reproducible setting of the ink keys – and all that extremely fast.

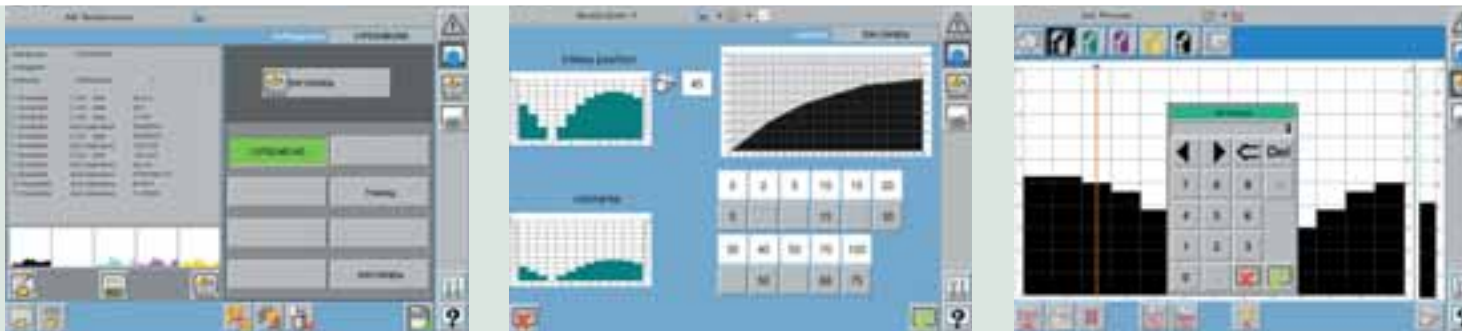


Operation

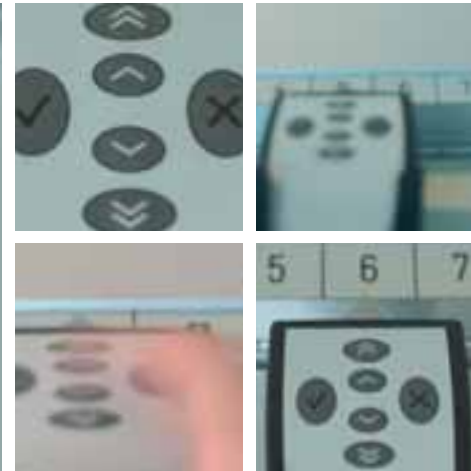
The set-up of several jobs via the *TouchScreen* is possible at any time even while the current job is still running. A well structured menu allows easy operation. On-line or off-line interfaces to **eltromat_cipcon** – CIP3 data converter or **eltromat_dpm** – printing plate scanner allow fully automatic ink key presetting. The intelligent

conversion into ink key step values is carried out automatically and factors in the individual characteristics of each printing unit, type of ink and paper. The resulting job data is stored and allows immediate ink fountain presetting at repeat jobs.





During machine set-up for the next job, the presetting of all ductors and ink keys takes place within seconds due to simultaneous control of all drive units via BUS connection. The ink key profiles of any printing unit can be displayed immediately.



QUICK COLOUR II

Corrections to the ink key setting will need to be made, and having a proof of the printed pattern at the proof desk is indispensable. Speed and preciseness of these settings are most important.

Ink Profile Setting

By means of the patented *LinearMouse*, any selected area of the job can easily be defined due to a direct relation with the printed pattern. Different adjustment speeds allow the fastest possible ink key settings. Even partial ink key setting is possible – the system automatically calculates the necessary adjustment for the corresponding keys.

The *LinearMouse* also allows adjustment of ductor, vibrator, dampening unit and register.

fss_3

Applications	offset and letterset printing processes web and sheet fed presses
Operation	via LinearMouse and 15" TouchScreen
Operating system	Multitasking, Multiuser
Special features	<ul style="list-style-type: none"> · Ink key setting of single keys, group of keys, all keys, partial keys · Ink fountain settings changing, copying, renaming · Ink key profiles mirroring, multi-repeating · Control of ductor, vibrator, dampening and register · Break · Ink Charge · Hand-held terminal for ink key adjustment · Electronic zero calibration · Job memory · 8-fold job set-up memory
Service	Remote diagnostics via modem
Interfaces	<p>eltromat_vision eltromat_cipcon eltromat_dpm</p>



PRECISE COLOUR I

The print quality is directly based upon the precision and functionality of the ink fountain control used.



Ink Fountain

Our ink fountains are equipped with high technology LASER-cut segmented ink blades with special long-life sealant. They are adaptable to the variable width of all offset and letterpress print units. The unique mechanics for the ink key adjustment used by **eltromat** allows exact reproduction of the gap between each ink key blade segment and ductor roll. An individual ink key position – independent of the neighboring zones – is secured. The precise guidance of the ink keys allows an exact repositioning of the ink fountain after cleaning. The positive flexible sealing between ink blade, cheeks and ductor roll has been perfected for many years.





PRECISE COLOUR II

The functionality of an electronic ink fountain control mainly depends on the reliability of the drive units used. High-precision mechanics and micro-electronics increase our functionality and reliability.





Drive Units

In principal, any number of ink keys per ink fountain as well as any number of printing units can be equipped. Up to 500 ink keys – simultaneously controlled at ink key setting – are already installed in the field.

eltromat's drive units are each equipped with an own processor unit thus allowing individual speed and torque control. Therefore, a direct and simultaneous control of all drive units is possible leading to an ink key presetting of all print units within seconds.

The ink key setting can be set with an accuracy of 1 micrometer and is carried out using specially developed algorithms. For measuring the absolute position and feedback to the system, high-precision potentiometers are used.

The zero adjustment of the drive units can easily take place by means of high-precision knurl-screws or – as an option – fully automatically controlled via a hand-held terminal.





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