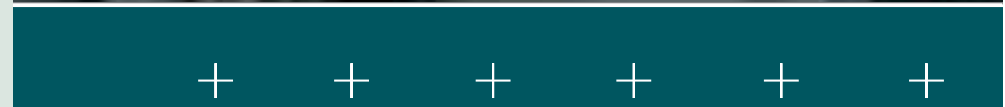


doc\_200

Intelligent Register Control



**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 applicable to offset, as well as flexo, rotogravure and screen printing processes. A modular concept allows installations of drive systems, viewing systems, into register, colour control and complete inspection systems. Upgrades are easy and great value.

# doc\_200

## REGISTER CONTROL IN OFFSET AND INLINE FLEXO PRINTING

Electronic register controls are indispensable for improving quality on web fed presses. These systems minimize waste and save set-up time, as well as contributing to a higher overall efficiency of the printing press.

The **eltromat** register control **doc\_200** was specially developed to optimize offset, as well as the inline flexo printing. The length and side register of printing units and tool stations will be automatically controlled after starting the press. Data for future jobs can be already pre-entered, whilst the current job is running.

Processing units, such as perforation or folder, will also be controlled in the printing press.

- \_ QUICK TO PRINT
- \_ MINIMIZING WASTE
- \_ IMPROVING QUALITY
- \_ CUSTOMER SATISFACTION
- \_ EASY TO OPERATE

- = INCREASING PRODUCTIVITY
- = REDUCING COSTS



drive

register

vision

colour

**doc\_200**  
drc\_200  
dgc\_650  
dgc\_750  
dgc\_750-2

### high\_modular

Our modular system technology offers open interfaces to **eltromat\_vision** and **eltromat\_colour** systems thus ensuring easy upgrading by adding or exchanging hard- and/or software components.

### high\_touch

Our systems are easy to operate by means of a *touch\_screen*.



## QUICK TO REGISTER

- production start without delay
- automatic mark finding
- mini register marks
- recognition of every register mark
- a wide choice of mark layouts

For further information please refer to the [eltromat\\_register](#) brochure



### high\_intuitive

The setting of length and side register will be supervised as well as controlled precisely by the touch\_screen, which is menu-guided.

### high\_flexible

Independent of the long axis of the web, our system accepts nearly all angles of mark pattern. The register measurement can be done with several cameras between single printing units or after the last one.

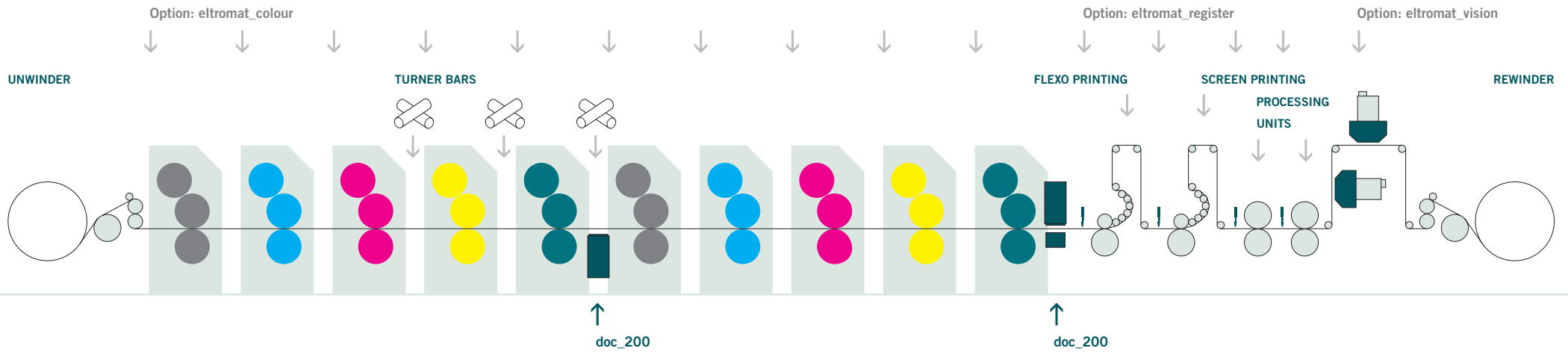
Up to 10 colours on one side of the web, or any combination of front and back side will be measured (standard equipment).

<b>application</b>	web offset printing letterpress printing inline flexo printing web – web, web – sheet web – folder
<b>operation</b>	touch_screen
<b>functions</b>	<ul style="list-style-type: none"> <li>- camera-based register control</li> <li>- continuous and quick measurement of the colour register</li> <li>- absolute measurement of single web sides, as well as front to back side</li> <li>- recognition of every register mark also on low-contrast colours</li> <li>- up to 10 colours on one side of the web controlled</li> <li>- compensation of web movements and web fluttering</li> <li>- free choice of the camera positions</li> <li>- up to 2 measuring cycles / sec.</li> <li>- up to 6 dynamic length register control units for processing units</li> <li>- insetting – also to water marks</li> </ul>
<b>upgrade of modules</b>	as a console version to <b>offcon_3</b> , <b>revicon_3</b> , <b>corecon_3</b>
<b>service</b>	remote diagnostics via modem as standard
<b>interfaces</b>	<b>eltromat_flow</b>



#### **high\_precise**

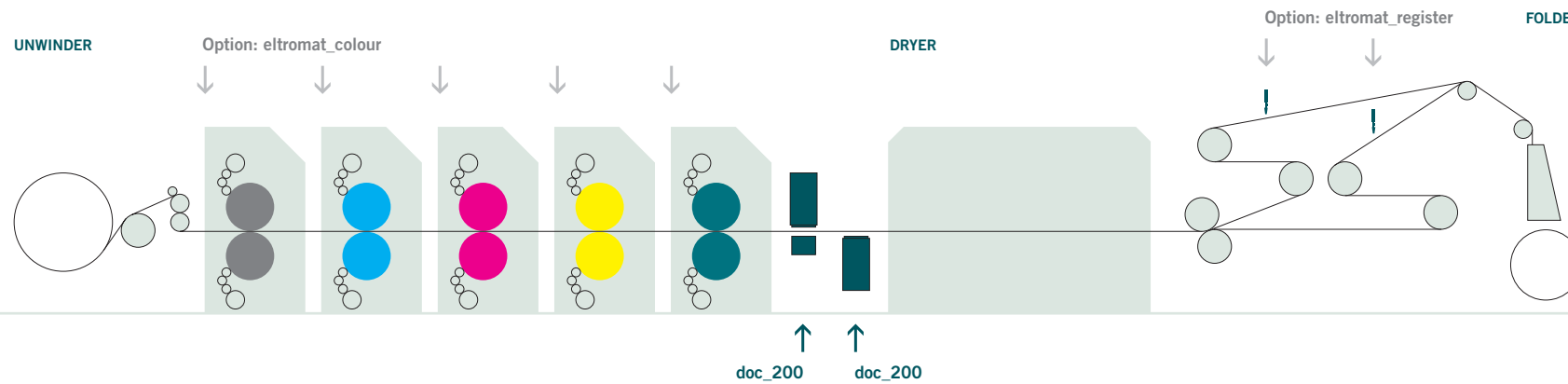
Precision measuring cameras make highest accuracy possible by absolute measurement of the colour register marks – even with colours which are hard to measure using conventional systems. The front to back side register will also be measured absolutely.



## Narrow web offset with doc\_200

Register control with doc\_200 in narrow web offset marked by:

- flexible turner bar positions
- up to 10 colours on one side as standard
- variable formats
- inline processing (perforating, punching, embossing)
- special printing units (flexo, rotogravure and screen printing)
- web – web, web – folder
- frequent U. V. curing
- up to 10 m/s
- variable positioning of measuring cameras



## Commercial web offset with doc\_200

For further information please refer to the **eltromat\_colour** and **eltromat\_vision** brochure

Register control with doc\_200 in commercial web offset marked by:

- blanket-to-blanket principle
- fixed printing combinations
- fixed-size
- web – folder, seldom web – web
- mostly heat-set
- over 15 m/s
- measuring cameras in front of the dryer



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