



# NELA

## Fully automatic color register adjustment on the press cylinder

Many printers produce a lot of paper waste just because color register adjustment on the press cylinder is a difficult, manual process. NELA offers an automated solution and is the only supplier to provide full register control of the printing plate as well as of the paper web. The NELA OnPress Register Control system can be retrofitted to older presses, which do not have automatic color register.

- Minuscule color dots are imaged onto the printing plate and printed on the web.
- On each press tower, the high-resolution digital cameras with modern, integrated control logic register the printed dots.
- Stepper motors then bring the press cylinder into its corrected position.
- The register accuracy is constantly monitored and recorded during production.
- Fast, easy and cost-effective installation.

### The Result:

Quality improvement  
of the printed product,  
time savings, and  
cost savings  
through less  
paper waste

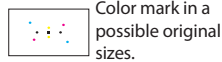


# OnPress Register Control

## Technology

The high-resolution digital camera has been combined with the image processing technology into one very compact unit which is mounted to the press tower. Thanks to its integrated control logic, the system offers maximum flexibility and easy configuration at the same time.

The space-saving system does not require an additional control cabinet. The camera lens is protected by a membrane that unwinds automatically and is therefore almost maintenance free.



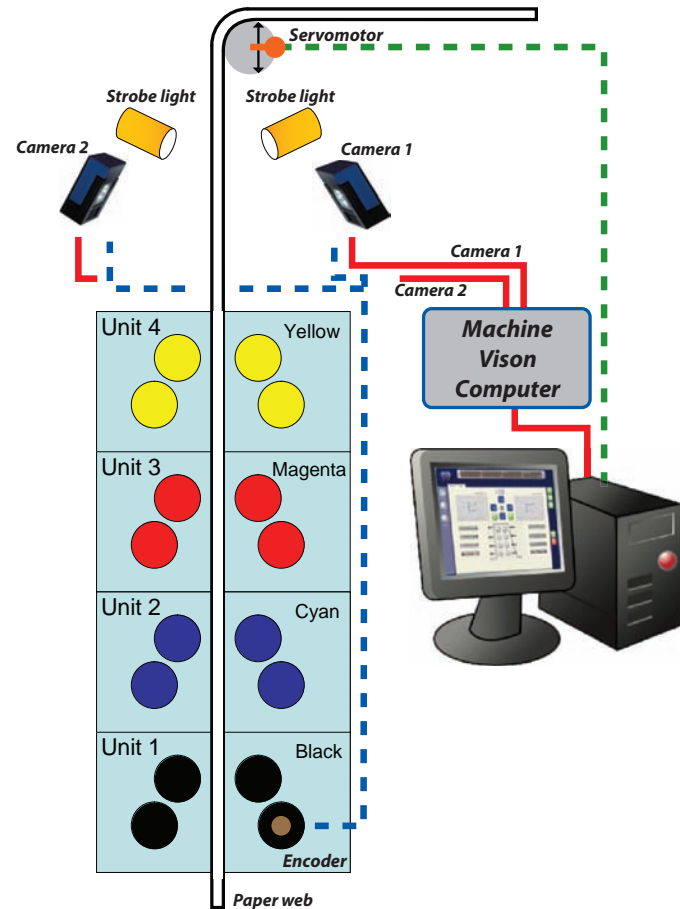
Color mark in a possible original sizes.

## Function

At each revolution of the leading press cylinder, the OPRC camera shoots a picture of the color mark.

Measurement of register accuracy of the individual press cylinders begins right with the start-up of the system. The measured values are converted into correction values, page and circumferential register for the press. Stepper motors bring the press cylinders into their corrected position. Within seconds, the press is "in register".

Register accuracy is constantly monitored and protocolled during production.



The OnPress Register Control System is suited for the following applications:

### Color to Color:

The circumferential and traverse color to color registration of an image on one side of a single web.

### Unit to Unit:

The circumferential position of the image on one web relative to the image on another web.

### Front to Back:

The circumferential and lateral registration of the front side colors to the back side colors.

### Print to Cut:

The location of the image relative to a cut-off or die-cut position.



The intuitive user interface clearly lays out all relevant parameters

## System features:

- Multiple register functions:
  - Color register:
    - \* Cylinder to cylinder
    - \* Front side to back side
    - \* Press tower to press tower
  - Cut-off control
  - Lateral register
- Easy to retrofit on older presses
- Integrated camera system for enhanced flexibility
- Size of color dots freely scalable
- Integration with press control possible
- User-friendly touch screen operation



NELA

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