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Total Register Control – From Plate to Web

Oakdale, MN / Las Vegas, NV ---- Presented at drupa 2008 for the first time and further improved since then, NELA's OnPress Register Control is again on display at MediaXchange 2009 in Las Vegas. The system adjusts color register automatically and directly on press. NELA is the only supplier worldwide to offer register control products for the printing plate, as well as for the web.

With paper prices at an all time high, printers are striving to avoid paper waste caused by the fact that color register adjustment on press is a difficult and manual process. NELA's new and fully automatic OnPress Register Control system, which is easy to retrofit on all types of web presses, resolves this problem.

Minuscule color dots, which are printed on the web, are registered by a camera and compared with a previously set target value. The system then calculates the deviation, and the position of the print cylinder is corrected accordingly.

NELA has combined a high-resolution digital camera with a newly developed image processing software into one compact unit, which can be mounted directly to the print unit. Thanks to its integrated control logic, the system is easy to configurate and offers a maximum of flexibility. It is easy and space-saving to install as it doesn't require an additional control cabinet or other, expensive, periphery. The camera lens is protected from paper dust by a membrane that unwinds automatically and is, therefore, almost maintenance-free.

The OnPress Register Control system includes the following applications: color to color, front side to back side (of the web), print to cut-off edge, and print unit to print unit.

About NELA: *The NELA group, consisting of Brüder Neumeister GmbH, NELA USA, Inc. and NELA Asia forms the largest register and plate automation company in the printing industry. Register systems include in-line punch and bend systems for newspaper and commercial printing, as well as plate automation and transport systems. With more than 1,400 Vision punch/bender systems, NELA is the leading technologist and state of the art manufacturer in plate automation and register systems in the world.*

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