



see. control. automate.



NELA

VCP Evolution

Fully Automatic Register Punching and Bending Device
with Vision-Control-Positioning for Offset Printing Plates



For high-volume, automated prepress plate lines* Vision-Controlled
Positioning of Printing Plates * Register Punching and Bending in
one Working Cycle * Ideal in conjunction with Conventional and
CTP workflow * Diagnostic System



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NELA

VCP Evolution

V = Vision recognition of register marks

C = Controlling via CCD image processing

P = Positioning by logic operation & stepping motor control

OVERVIEW

The NELA VCP provides high speed plate production through its compact, inline design and integrated Vision alignment system. Printing plates are precisely registered utilizing 2 high resolution CCD cameras and 2 register marks located on the plates. The versatile VCP can be connected to any type of CTP or conventional plate exposure system commercially available. Either lines or circles can be used as targets.



OPERATION

Processed plates are automatically pre-registered in the VCP allowing video cameras to quickly locate the exposed register marks. By using NELA's closed loop, state-of-the-art image-processing and precision micro-stepping positioning units, the printing plates are brought into register-true position. Once the correct position is confirmed, the printing

plates are punched and bent in one-step operation and then carefully placed into the stacking station.

STANDARD TECHNICAL FEATURES:

- For 10" to 74" width offset plates
- Automatic plate in-feed configured for landscape or portrait plate formats
- PLC controlled
- Vision controlled register punching and bending in one bending cycle
- Punch tools for required press notches included
- Three-point register included for pre-alignment and back-up
- Stop locations matching imaging device
- Register punching and bending configuration according to customer's specifications
- Ultra fine lubrication of punching dies before each punching cycle for longer service life and precise, burr-free register holes
- Register-true positioning of offset plates by: a) video cameras / exposed register marks / tolerance: 20 micron b) register pins c) limit switches / electronic control
- Support table with integrated vacuum and air flotation
- Integrated NELA "SDS" diagnostic system

OPTIONAL FEATURES:

- Multiple Web Widths
- Barcode Reader
- PQM: Plate Quality Management
- Page Tracking
- Plate Navigation & Sortation
- Service Wizard
- Ink-jet Printer
- Multi-Stacker
- Customer-specific conveyors & stackers

OUR SERVICE—WE ARE HERE FOR YOU !

- 24/7 Service: Our Toll-Free Number allows you easy 24/7 access to us. No multiple phone numbers to remember, just one convenient number.
- Spare Parts available in 24 hours: Full spare parts inventory in Oakdale, MN – ready to be shipped as fast as needed.
- Certified operator and maintenance training at our Minnesota Training Center.
- Remote control, online diagnostic from our Service Department directly to your VCP in the field. Saves time and money.
- Experienced team of NELA Service Engineers constantly trained and ready to install and maintain our equipment in the field
- Preventative Maintenance program available
- Manufactured in the US by US workers



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