



see. control. automate.



**NELAVCP***evolution*

## Fully-automatic register punching and bending device with Video Control Positioning

- Designed for newspaper printers
- In-line model
- For broadsheet and panorama offset printing plates
- Optical alignment with "Vision Control Positioning"
- Bending configuration according to customer's specifications
- Different models available for different bending angles and radii
- Multi-format capable
- Automation concept with many options

The **NELAVCP***evolution* is our reliable high-precision register punching and bending system which in combination with NELA plate sorting and plate transport systems meets the needs of any modern newspaper printer. With more than 3,000 installations worldwide, it is our global best-selling register punching and bending system with optical plate alignment. Different models for special applications are also available. It can easily be integrated into any automation solution for a man-less plate production and plate transport directly to the press – Just In Time!



In the **NELAVCP evolution**, video cameras detect the exposed register marks on the imaged offset plates. Thanks to its state-of-the-art image processing and positioning units, each printing plate is brought into a register-true position that corresponds with the image. When properly aligned, the printing plates are punched and bent in one cycle before they are carefully placed into the customizable stacking station.

### Technical Details

- Speed: up to 300 single plates / h (depending on machine type and equipment)
- Handles broadsheet and panorama offset plates
- Optical monitoring of register punching and bending in one steps
- Register-exact positioning of offset plates through high-resolution digital cameras and imprinted registration marks
- The three-point system allows pre-positioning of the printing plates and serves as a backup for the optical alignment
- Cleaning and oiling of the punching tools before each punching process ensures the long lifetime of the equipment as well as a continued burr-free and accurate register punching
- NELA VCPnet - intuitive user interface
- Siemens S7 compatible PLC

- Pneumatic components from FESTO
- Network capability via event channels
- PC-based sequence control
- Open integration platform for easy integration of new applications
- Priority-controlled alarm system: error, warning, information
- Hinged covers for easy service access

### Options:

- **NELAPQM+** Plate Quality Management
- Barcode reader
- Inkjet printer
- **NELAPageTracking**
- Plate transport systems
- **NELANPS** Automatic plate sorting
- Elevatoren
- Automatic register correction and fan-out compensation
- **NELAStatusCenter**
- **NELAVPNbox** Web-based remote service for all NELA components

## Models for special applications

### VCPEvolution M:

- Multi-format capable system
- The ideal solution when several plate formats with different bend lengths and angles shall be processed
- Adjustment of bending configuration with stepper motors
- Bend lengths and angles can be adjusted via software, even remotely

### VCPEvolution flexx:

- As a supplement to the VCPEvolution M
- Full flexibility based on stepper motor technology
- Different bending radii possible
- With fully automatic dual-radius changer, depending on the configuration on one or two plate edges

### VCPEvolution T:

- Integrated plate shearing for different applications



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