



see. control. automate.



# NELA VCPm

**M**ultivariable, fully automatic register punch and bending device  
with video-control-positioning



- \* For multiple plate sizes and punch/bend configurations
- \* Fully programmable bend cycles using the latest servo drive technology
  - \* Video-Controlled positioning of printing plates
  - \* Register punching and bending in one working cycle
- \* Integrated register correction and FanOut-Compensation
  - \* Diagnostic System



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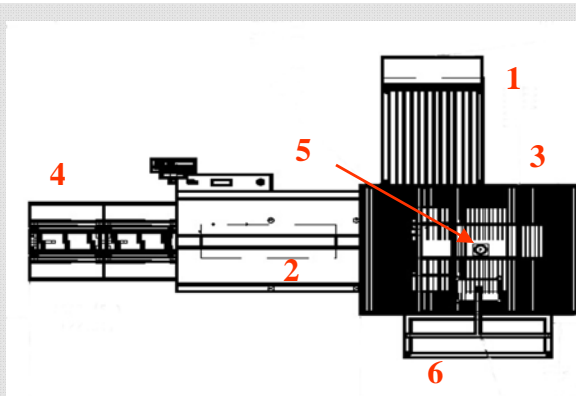


**V = Video recognition of register mark**

**C = Controlling via CCD image processing**

**P = Positioning by stepping motor control**

**M = Multivariable for different plate size**



**TECHNICAL DATA:**

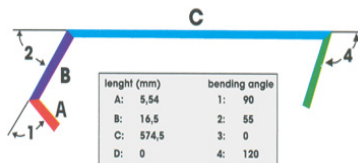
- 1 Roller conveyor
- 2 NELA VCPm
- 3 Belt conveyor
- 4 Stacking station for bent plates
- 5 Plate size identification
- 6 Stacking station for unbent plates

- **Electrical Supply:**  
3 N PE CA 400 V 50 Hz 0,9 kW
- **Compressed air supply:** 7-10 bar with connection valve ¼" air consumption of 250 plates/hour: 15 m<sup>3</sup>
- **Weight: approx. 2,400 lbs**

The multivariable NELA VCPm is a machine of the new generation. The requirements for the highest level of register accuracy are realized by using the most modern technologies and manufacturing procedures. The NELA VCPm can process variable plate widths and cut-offs, as well as different register punching and bending configurations. It offers the highest degree of precision and flexibility in one machine and, in conjunction with the latest exposure devices, becomes the integral part of an economical plate processing line. Its flexibility allows the combination with various modern exposure units into an economic and highly precise plate line.

**OPERATION**

The NELA VCPm identifies the plate format before the plate enters the machine and automatically adjusts the relevant format parameters, such as the cut-off length and the punching and bending configuration. The NELA VCPm detects via video cameras pre-exposed register marks on the printing plate coming out of the plate processor. By means of top image processing and positioning the printing plates are placed into the correct position to ensure precise register between the image and the punch and bending every time. Register correction at the printing plate can be entered over keyboard. Multiple bend configurations can be pre-programmed and selected to different plate materials.



In one operation the plates are punched and bent at both ends. The processed printing plates are then safely loaded into a multiple stacking station, sorted according to plate size.

**RELIABILITY**

All parts in the NELA VCPm are developed and designed to the latest state of the art technology and manufactured with highest precision. NELA quality is guaranteed for the manufacturing of the NELA VCPm, ensuring a trouble free operation for years to come.

**TECHNICAL FEATURES:**

- Available for all plate sizes used in newspaper and commercial web and sheetfed printing
- **Multiple plate size and punch/bend capability**
- Register true positioning of offset plates by
  - a) video camera / register marks
  - b) limit switches / electronic control
  - c) option: register pins (back-up)
- Fully programmable bend cycles using the latest servo drive technology
- **Video controlled register punching and bending in one working cycle**
- 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**

- Supporting table with vacuum and air cushion
- Integration of high quality electronic and mechanical components
- Expandable to meet various demands
- Use of particular high quality material for the manufacturing of punching and bending tools
- **Options:**
  - \* **Integrated register correction as well as programmed controlled FanOut-compensation.**
  - \* **Automatic cut-off variation to compensate for deviations between different cylinders with the same press.**

**OUR SERVICE—YOUR ADVANTAGE**

- Responsive, expert consulting and project planning
- Everything from NELA—from register bars to plate clamps to fully integrated plate processing lines.
- Installation drawings and layouts (CAD & ProE) according to your requirements
- Modern and reliable pneumatic and electronic components—the world leading manufacturers with service centers worldwide are our partners.

Ask for NELA products. We or our agents would be pleased to be of service to you.

*Note: our picture/drawings show the basic model. Variations are possible due to user-specific requirements. Constructional details are subject to change without prior notice.*



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