



PRECISION
PRIOR TO PRINTING

NELA VCPEvolution *FLEX*

*ADVANCED FLEXIBILITY – FULLY AUTOMATIC
REGISTER PUNCHING AND BENDING SYSTEM
WITH VIDEO-CONTROL-POSITIONING*



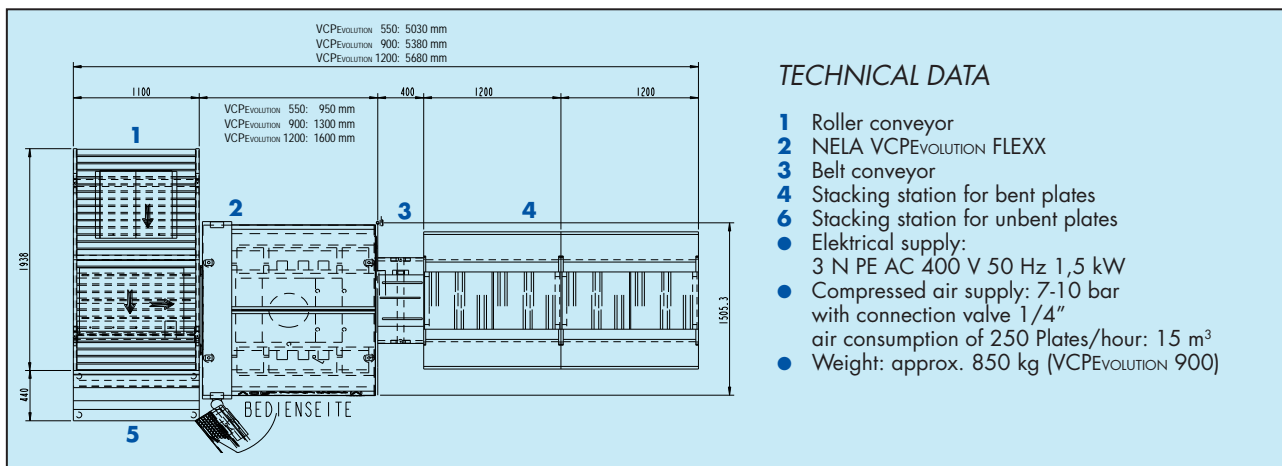
*FOR DIFFERENT PLATE SIZES AS WELL AS
REGISTER PUNCHING CONFIGURATIONS AND BEND RADII
VIDEO-CONTROLLED ALIGNMENT OF PRINTING PLATES
REGISTER PUNCHING AND BENDING IN ONE WORK STEP
INTEGRATED REGISTER CORRECTION FEATURE AND FANOUT-COMPENSATION
MONITORING OF ALL SYSTEM PROCESSES AND QUALITY DATA*



Precision
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NELA VCPEvolution FLEXX

FULLY AUTOMATIC REGISTER PUNCHING AND BENDING SYSTEM WITH VIDEO-CONTROL-POSITIONING



TECHNICAL DATA

- 1 Roller conveyor
 - 2 NELA VCPEvolution FLEXX
 - 3 Belt conveyor
 - 4 Stacking station for bent plates
 - 6 Stacking station for unbent plates
- Electrical supply:
3 N PE AC 400 V 50 Hz 1,5 kW
 - Compressed air supply: 7-10 bar
with connection valve 1/4"
 - air consumption of 250 Plates/hour: 15 m³
 - Weight: approx. 850 kg (VCPEvolution 900)

The fully automatic register punching and bending system NELA VCPEvolution Flexx marks the beginning of a new generation of NELA machines. It does satisfy the demand for a maximum of register accuracy and flexibility. Through consistent use of the latest technologies and manufacturing procedures, the NELA VCPEvolution Flexx meets the high requirements of newspaper printers. Its increased flexibility allows for processing of different plate sizes with varying punching and bending configurations.

FUNCTION

The incoming plate size is identified either by sensors integrated in the conveyor system, or by imaged barcodes. The NELA VCPEvolution Flexx automatically adjusts for the next plate format. Its CCD cameras capture the imaged register targets on the plates coming out of the plate processor. State-of-the-art image processing software and alignment units guarantee that each plate is in a register-true position, corresponding to the image. Manual register corrections may be effected via keyboard for each individual plate. Once properly aligned, the plates are punched and bent in one work step. The finished plates are then carefully stacked into a plate stacker, or they are sorted as desired.

RELIABILITY

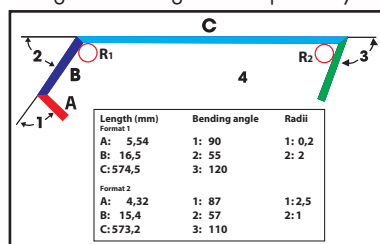
All important parts of the NELA VCPEvolution Flexx have been designed and developed according to latest technologies and are manufactured under highest precision standards. The well-known NELA quality is guaranteed during manufacturing of the NELA VCPEvolution Flexx, and therefore also a long machine lifetime.

TECHNICAL FEATURES

1. Mechanical:

- Speed: up to 320 pph

- Optimized frame stability: designed according to the finite elements-method
- Attractive design for singlewide and doublewide offset plates
- Video-controlled punching and bending in one work cycle
- For different plate sizes, register punching and bending configurations and bend radii
- Cleaning and lubrication of punching pins before each punching cycle for long endurance and precise punch holes free of burrs
- Register-true alignment of plates by:



- a) Video cameras / imaged register targets
 - b) Positioning with register pins
 - c) Electronically controlled stop pins; adjustable for different requirements
- Three-axis positioning driven by stepper motor
 - Integration of plate shear optional

2. Electronic and software:

- NELA VCPnet software – intuitive user interface
- Network capable via event channels
- Open platform design for easy integration of new applications
- JDF/JMF-compatible tracking format
- Integrated Java interface for creation of web-based applications
- Priority-driven alarm system: error, warning, information
- Process control based on industrial PC
- NELA Service Wizard: remote access via modem or VPN

3. Options

- PQM+: automatic measuring of the image quality of the printing plates for total control of the entire plate production with regard to register accuracy, imaging and processing quality.
- Automatic register correction, and software-controlled FanOut compensation
- Integration with a LogiStack system
- Integration of barcode scanners
- Integration of inkjet printer
- Multiple plate stacker and automatic plate sorting
- Page Tracking: Identification of printing plates at pre-defined tracking points during plate production, and message to the workflow system
- Status Center: centralized supervision of all processes involved in the plate production

OUR SERVICE – YOUR ADVANTAGE

- Comprehensive and qualified consultation
- All under one roof – from register pins to fully automatic plate processing lines
- Installation and room layouts (CAD drawings) – individually generated according to your requirements
- Proven pneumatic and electronic components – we partner with leading manufacturers with worldwide service organizations
- NELA devices carry the CE sign.

Please ask for NELA equipment. We or our partners are happy to help you.

Note: The cover picture shows one possible version of the system. Deviations are possible due to customer-specific requirements. Design subject to change without prior notice.



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