

PRECISION *PRIOR* TO  
PRINTING



# NELA

## Benchmark Series

The Benchmark Series for small & mid-size installations \*  
For Newspaper and Commercial offset plates \* Vision-Controlled  
or 3-point Positioning of Printing Plates \* Automatic Infeed of  
Printing Plates\* Ideal in conjunction with Conventional and CTP  
workflow



The NELA Benchmark V is a fully inline capable Vision Punch Bender geared toward the small to mid-size newspaper and web offset printing houses. It combines reliable technology, German-engineering and US manufacturing with easy serviceability due to the use of standard parts from renowned suppliers. With its pre-configured layout, it offers all benefits of a modern, automated plate line at an affordable price and NELA technology which you can trust.

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## NELA Benchmark Series

### The NELA Benchmark 3-point

The NELA Benchmark is a fully inline capable 3-point Punch/Bender. This bender is designed for in-line bending or punch/bending for the lower volume print houses that are converting to CtP.

The Benchmark 3-point bender can be used off-line and hand-fed or moved up behind the processor for inline operation.

Simple in design, the Benchmark Bender 3-point is an affordable solution which serves printers with presses with plates up to 1,180mm (46") wide.

This all-in-one system offers 3-point edge-register to match your CTP device and provides the convenience of inline operation.

#### STANDARD TECHNICAL FEATURES:

- For up to 46" width offset plates
- Maximum plate length (around cylinder) 26"
- Automatic plate in-feed configured for landscape or portrait plate formats
- Plate output: approx. 200 offset plates/hour
- Three-point register
- 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) positioning of printing plates over alignment stops (accuracy +/- .002" b) register pins c) limit switches / electronic control
- Support table with integrated vacuum and air flotation

The NELA Benchmark V is a fully inline capable Vision Punch/Bender. Same as the Benchmark 3-point, the V-Version

### The NELA Benchmark V

is designed for the lower volume print houses but with single and double width presses that are converting to CtP.

In the NELA Benchmark V, video cameras detect the exposed register marks on the printing plates coming out of the processor. Once in their correct position, the print plates are punched and bent in one working cycle and then they are safely transported into a stacking station.



#### STANDARD TECHNICAL FEATURES:

- For 10" to 46" width offset plates
- Automatic plate in-feed configured for landscape or portrait plate formats
- NELA Econet software, operator interface—easy to learn, easy to use !
- Vision controlled register punching and bending in one bending cycle
- Plate output: approx. 200 offset plates/hour
- 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



7435 4th Street North • Oakdale, MN • 55128 • USA

Worldwide: 1-651-407-4800

USA/Canada Toll-Free: 1-888-407-4808

FAX: 1-651-407-4801

E-Mail: [info@nela-usa.com](mailto:info@nela-usa.com)

Web Site: <http://www.nela-usa.com>