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# NELA Poly Bender



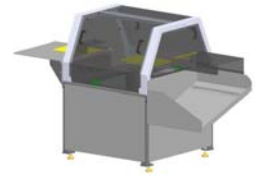
Fully Automatic Vision Bender for  
Polyester Printing Plates & Paper-based Printing Foils



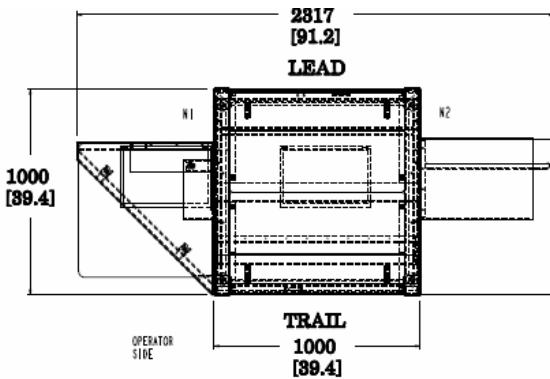
610 Whitetail Blvd • River Falls, WI • 54022 • USA  
Worldwide: 1-715-425-1900  
USA/Canada Toll-Free: 1-888-407-4808  
FAX: 1-715-425-1901  
E-Mail: [info@nela-usa.com](mailto:info@nela-usa.com)  
Web Site: [www.nela-usa.com](http://www.nela-usa.com)



# Poly Bender



## Footprint



## Technical Features:

Plate width range	12" (304.8mm) to 21" (533.5 mm)
Plate length range	11.5" (292mm) to 24" (609.5mm)
Plate thickness	0.004" (0.1016mm) to 0.008" (0.2032mm)
Load Capacity	100 plates (any size intermixed)
Speed	Minimum of 180 plates/hrs.
Bending	Single end bend (double side bend possible)

## OVERVIEW

The NELA Poly Bender is designed to bend polyester printing plates and paper-based printing foils. By using heat, the bend stays in perfect shape without compromising the durability of the plate material. The NELA Poly Bender is characterized by its compact footprint and quick operation sequence that enables it to bend a minimum of 180 plates per hour.

## OPERATION

Plates are put in the feeding tray of the bender. With the push of a button the plate shuttle picks up plates from the feeding tray via suction cups. They are then transported onto the register table where a vacuum is engaged to hold the plate flat. Two registration contrast sensors that are mounted above the register table are used to

detect the vision targets that are imaged on the corner of the plates. Once the targets are detected the vacuum holds the plate in position and the bend anvil clamps down on the plate. The bending action includes a heat source to assist in forming and preserving the bend angle. The plate is then shuttled on to the stacking tray with a hanger for even stacking of the bent plates.

## WHY VISION

The two registration contrast sensors are used to detect the slightest change in contrast from the plate background to the imaged target. This way the plates are positioned in the bend assembly relative to the imaged targets with no requirements for plate edge detection. This avoids any image-to-plate-edge register issues including the required sheared edge when cutting from the supply roll. Imaged

targets are solid bars located on the bend tab of the plate to avoid printing.

## BENEFITS

- Reduces manual labor significantly
- Fast & reliable bending of plates
- Multiple plate sizes possible
- Better register
- Time, paper & ink savings
- Reduced down time
- Faster make readies

## OUR SERVICE

- 24/7 Service: Our Toll-Free Number allows you easy 24/7 access to us.
- Spare Parts available in 24 hours: Full spare parts inventory in River Falls, WI.
- Large Technical Field Service group.
- Manufactured in the US by US workers.



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