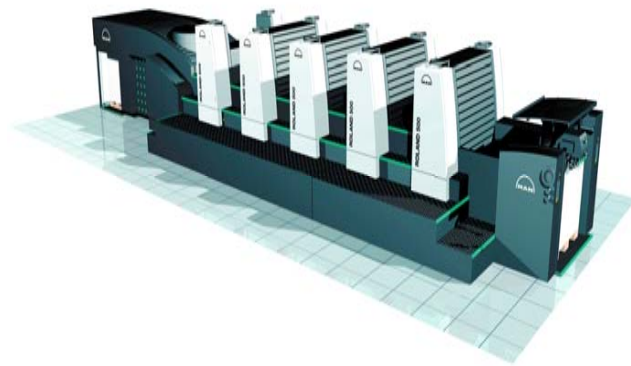




Our Capabilities

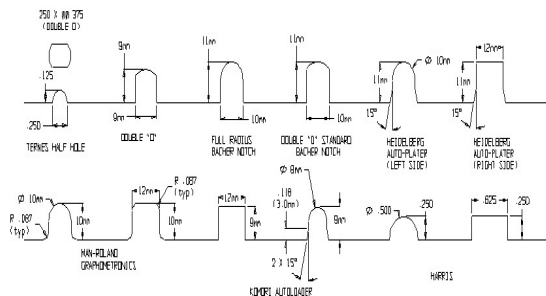


Our Sheetfed Experience:

NELA looks back on a long history of sheetfed printing experience. Founded in 1938, NELA has many years of experience manufacturing equipment for the industry. In 2000, NELA bought Ternes — a well-known name in the sheetfed business.

In 2007, NELA acquired Stoesser— another familiar sheetfed printing supplier.

This combined knowledge and years of technical experience make us the leader in prepress equipment.



We are familiar with all sheetfed printing presses and can assist in turning your prepress needs into a custom solution that saves you money and improves quality.

Contact us today to get your free pre-press audit and your customized proposal in 3D !



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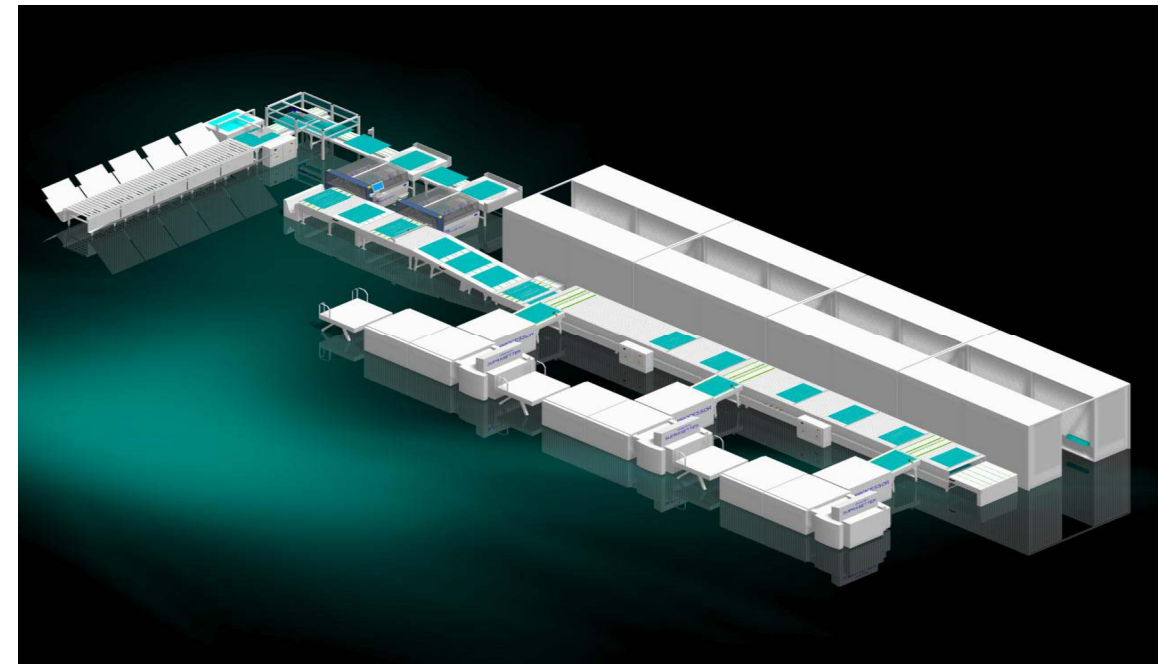


THE REGISTER & PLATE
AUTOMATION EXPERTS



NELA

Plate Automation for Sheetfed Printing



NELA has been a leader in the printing industry providing punch/bending devices since the early 80's. As the printing industry requirements for pre-press automation increased, NELA has naturally transitioned into to an automated plate handling solution provider. NELA's cost-effective automated

solutions are customized to meet each customer's unique requirements to increase productivity and improve quality. The NELA engineering department is continuously providing solutions for each individual customer's requirements because we believe that one size doesn't fit all!



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Plate Storage Cart:

This product is a great solution for manually or automatically loading, transporting and storing your punched & bent plates. Horizontal storage ensures no contact with the image area of your plates. This eliminates scratches to plates upon delivery at press.

Plate Distribution Unit:



The plate distribution unit enables the fast distribution of plates into the attached Plate Storage Carts. Barcode reader and Plate Sorting Software allows automated sorting into the correct plate storage cart chosen by the operator.



Barcoding:

A barcode is imaged on the plate's peripheral area by the CTP device. Barcode readers in front of the bender scans the barcode and sends the data to the Page Tracking Software. The system knows where the particular plates need to go and the plate is transported to the desired sortation bin.

Turn Station:



The turn station is used to turn bent plates 90 degrees when coming out of the bender for proper orientation on the sorting conveyor system.

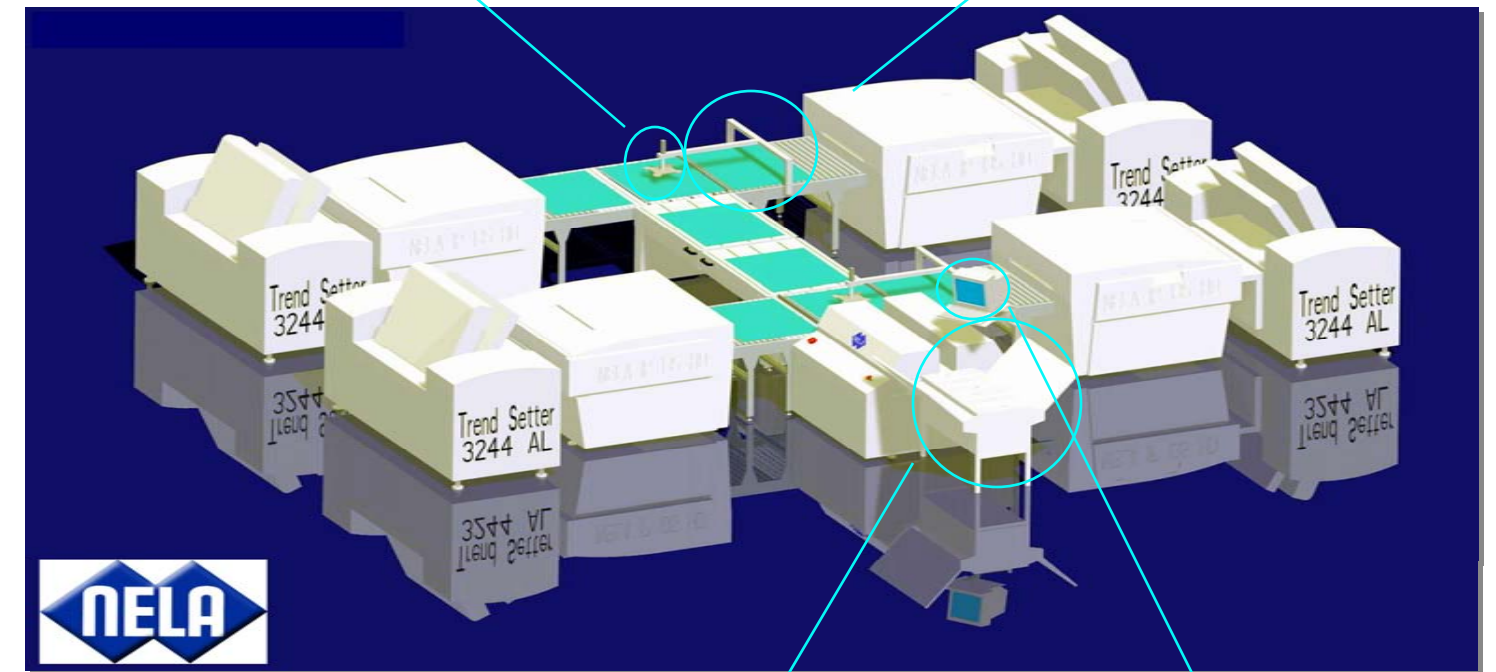
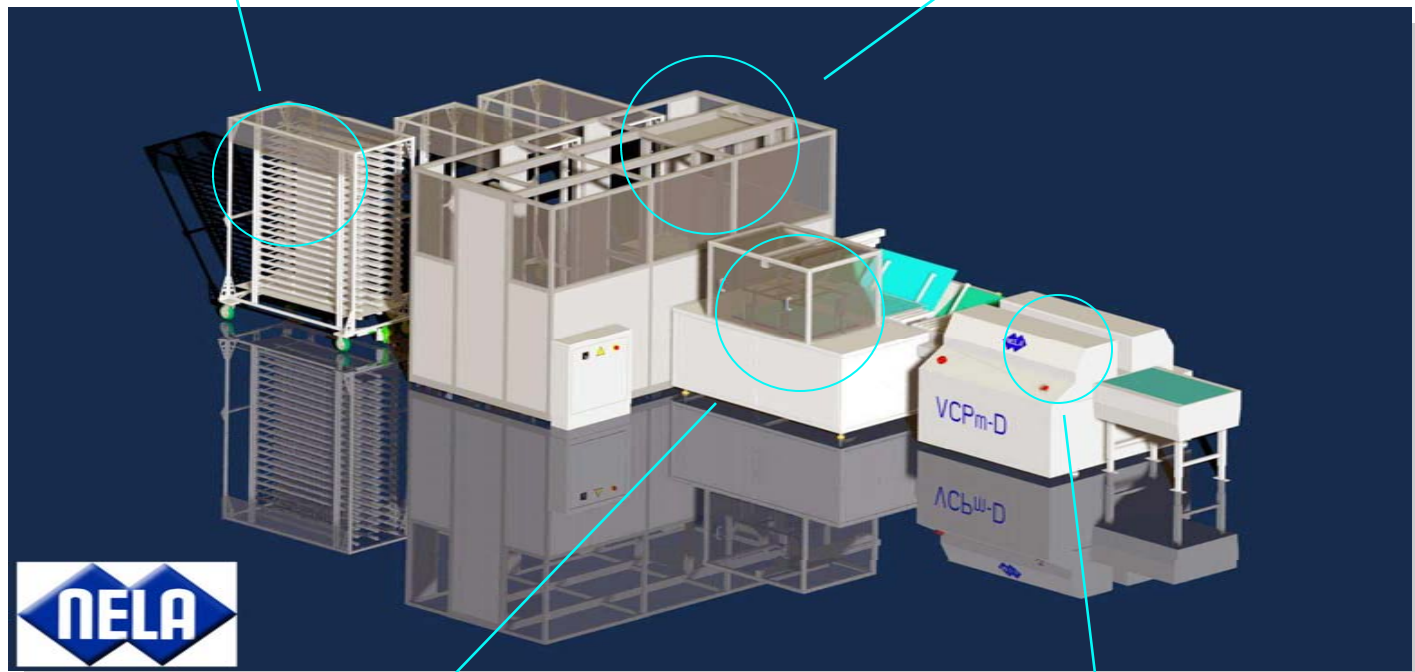


Plate Slipsheeter:

Plates that are meant to be stacked in the cart for immediate press mounting will get a slipsheet inserted between them. The Slipsheet will automatically place these sheets between each plate. Additionally, barcoding allows automated sorting.



Vision Register:

CCD digital cameras in the bender detect the vision register marks on the plate. A signal is sent to the bender to align the plate via vacuum table according to the trained model. This ensures correct punching & bending to the image every time.



Plate Stacker with Vacuum Arm:

NELA offers a wide array of stackers. With the help of barcode information, the operator can assign each plate to a specific bin utilizing NELA's Plate Sorting Software.



To protect the image on the plates, we use a vacuum arm that gently lifts up the plates from the conveyor and places them into the stacker—holding them with vacuum until they lay securely in the bin. This reduces scratching and damage to the plate and image.

PQM+ Plate Quality Measurement:

A multiple field wedge is exposed on the non-print area of the printing plate. This field is then screened by the PQM cameras to identify exposure errors such as fogging, out of focus and dot gain.

