

# NELA ProShear

*Increase output on your CTP device by 200%*



## **Double your capacity**

Imagine how productive your pre-press room would be if you were to produce two fully imaged thermal plates from your CTP device in the same time it takes you to make one. Or from a production standpoint, you'll get the same number of plates in half the time! With the new NELA ProShear, this process is EASY and ACCURATE.

## **One plate vs. two**

Traditionally, when a CTP device is in use, only 50% of its drum capability is utilized. For example, a Creo VLF 5067F can produce an image size of 50" X 67", but a conventional user may only image a maximum plate size of 23" X 38". Now consider the option to produce two plates at once. How? Run a 2-up master plate in the Creo VLF and image two plates in the same eight minutes it usually takes to do one plate. In this situation the lost capacity of the drum is now being used, therefore doubling your throughput. Now, how to address the fact that you have one large 2-up master plate and you need two smaller, traditional size plates.

## **How it works**

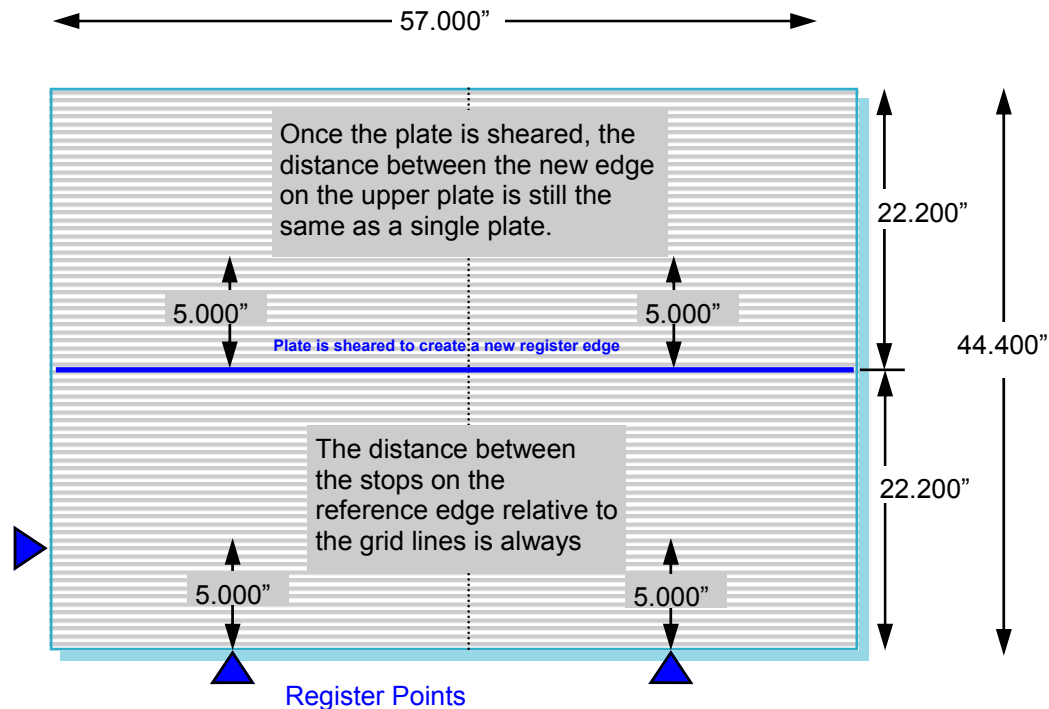
The ProShear is really a system integrator between the CTP device and the printing press. The Plate Shear will cut the 2-up master into 2 separate plates with perfect registration. The key is to use the same register points used to image the plate on the CTP device, on the shear. We all know that CTP devices can output consistent quality plates imaged from the reference edge, usually the lead or tail edge, but how do we know that the second or upper plate is cut exactly in register to the lower plate. To better understand how this works refer to figure 1. In this example, a grid image covering the entire master plate is output from the CTP device. The grid lines are parallel to the two reference points. Concurrently, the distance between the two register points and the grid image is always consistent.



With PLC controlled stops registration is transferred automatically and accurately.

## How it works

Once the 2-up master plate is created, the master plate is inserted into the shear and the operator floats the plate on a soft cushion of air against the same three unique points used by the CTP device to image the plate in the drum. Once the PLC and custom software confirms that the plate is in the exact position, the air cushion reverses to full vacuum. The plate is now secured with vacuum and the shear blade cuts the master plate into two separate and perfectly registered plates. In some cases, other processes like punching register notches, holes or other shapes can be done at the same time. The end result is two perfectly registered plates, smoothly cut and ready for mounting or plate bending.



**figure 1**

A typical Heidelberg M-3000 plate format with a plate size of 22.200" X 57.000", imaged as a master plate size of 44.400" x 57.000".

1. All grid lines are parallel to each other.
2. The distance between the stops on the reference edge relative to any of the grid lines is always equal.
3. Thus, the stops on the reference edge are always parallel to every grid line.
4. The distance from the stops on the reference edge to the center of the plate can be easily determined.
5. The result is that a grid image can be put in the exact location both "X" and "Y" on the plate every time.
6. When the master plate is cut, the register between the lower and upper plate is perfect.

For more information, contact a NELA Ternes representative:

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