

ProNest® waterjet programming helps Creative Edge Master Shop lay the groundwork for success

Technical brief

Company profile

CREATIVE EDGE MASTER SHOP, based in Iowa USA is a pioneer in the application of waterjet technology, specializing in concept flooring applications such as terrazzo, stone medallions, architectural metals and signage, and artistry in resilient design. Founded in 1984, Creative Edge introduced the great potential of the waterjet process to design professionals throughout the USA. Over the years, Creative Edge has grown in capacity, creativity, and experience. Today, they are recognized as one of the nation's leading providers of waterjet services and products.



Waterjet Cutting

Programming challenge

Harri Aalto, Partner and Vice President, guides the company's creative direction. Once completed, his elaborate designs are then passed to the CAD/CAM department to turn his vision into reality.

After transferring all the artistic detail into CAD drawing format, the next step in the process is to import these complex files, with every detail, to a nesting software. There it is converted to NC code and sent to the shop floor where the waterjet cutting process can begin.

Always seeking ways to improve their processes as demand grew for their work, Creative Edge realized it was taking too long for them to process the CAD files into NC code. The programming system they used was tedious and very time consuming and soon it was decided that a solution to this bottleneck was needed. Creative Edge began the search for a programming software solution that would decrease programming time and maximize efficiency.

Problem solved

After extensive research of available CAD/CAM nesting software products, ProNest was the best choice to provide the programming power and technology needed to maximize their efficiency.

Plant Manager, Shep Brown commented "After reviewing several other nesting software packages, the ProNest® software was clearly the right choice for Creative Edge. The package is

simple to use, easy to learn, Hypertherm's technical support staff is knowledgeable and willing to adapt to our specific needs, plus the total investment in the software was far less than other packages with similar functionality. ProNest software can open an artistic CAD file and automatically section off each tile to be processed on the waterjet in a matter of minutes, an operation that used to take hours to perform. ProNest now processes jobs in 5 to 10 minutes that used to take between



Photo courtesy of Creative Edge MasterShop Inc.



Did you know . . .

ProNest can provide one nesting program that will work with most cutting machines and CNC controls; new and old alike.

Interesting facts . . .

- ▶ *Our associates understand the cutting processes you work with.*
- ▶ *Our ProNest software works seamlessly with all leading brands of waterjet machines, including Flow, Omax, Jet Edge, TOPS, and many others.*
- ▶ *Our products are so easy to learn we can install the software and train a new customer online, the same day.*
- ▶ *Our nesting software products are part of Hypertherm's Integrated Cutting Solutions.*

30 minutes and 8 hours using our old software. An entire stone medallion can be opened in ProNest and each tile type will automatically be batch nested in one master program.”

Waterjet technology at Creative Edge Master Shop has greatly benefited from the use of ProNest software. Building off the successful ProNest implementation, Creative Edge is planning even more innovative programming techniques to further utilize ProNest in the future. Productivity made easy!



Shep Brown

Plant Manager, Creative Edge Master Shop

For more information

Learn how Hypertherm ProNest software can help your company improve productivity and part quality, without operator intervention. Please contact one of our team or your trusted Hypertherm software partner, or visit www.hyperthermCAM.com.

Photo courtesy of Creative Edge Master Shop Inc.



ProNest[®] advantage

Here are just a few examples of the benefits you can achieve when using ProNest to program your waterjet machine:

- Use the **Quality** designation as a means to assign different feedrates to the entities of a part, and control the resulting surface quality.
- Use **Dynamic Piercing** to maximize piercing efficiency on thick plate by rapidly moving the nozzle in a cyclical motion so that jet “rebound” does not get in the way of the incoming water stream.
- Use **Variable Feedrate, Nozzle Dwell** and **Pierce Pressure Parameters** to maximize productivity and part quality.
- Use **Advanced Common-Line Cutting** to automatically or interactively nest and common-line cut an unlimited amount of parts together on the same nest; resulting in a reduction in pierce cycles and cutting time.
- Use **Collision Avoidance** to eliminate the chance of nozzle collisions and significantly reduce production time through a combination of moving lead in/out positions, developing avoidance paths around possible tip-up situations, and by using partial or full head raises.

Hypertherm[®]

Cut with confidence[®]

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