

## DenCol Supply Selects ProNest<sup>®</sup> To Program All Cutting Machines

### Company Profile

**DenCol Supply** is a leading service center in Colorado and the Rocky Mountain region of the USA. The Company stocks a large metal inventory and makes its living by producing high quality metal parts to order. DenCol accomplishes this by featuring some of the most advanced profiling equipment available today, including an **Amada** laser, two **Peddinghaus FDB 2500 Plate** machines, a **Whitney** punch plasma, and **Esab** plasma and oxyfuel machines. Shearing and sawing capabilities are also offered allowing DenCol to provide a full range of services to their customers.



### Programming Challenge

The variety of machine brands and profile cutting processes used by DenCol meant that the Company faced the prospect of using numerous software programs supplied by the various machine producers. This solution was far from ideal for DenCol. The initial software costs, future maintenance, and support costs, plus the time and investment required to train machine operators was totally unreasonable. After consideration, this situation just did not seem to fit in with the commitment DenCol has to its customers—offering high quality parts in the quantity desired with a fast turn around. DeWayne Deck, Company President said, “It became clear that using more than one programming solution was not going to be an option. The training and maintenance issues involved were just going to create long-term costs that would negatively impact our ability to be competitive. We knew we had to find a single-source independent software solution that would work if we were going to be successful.”



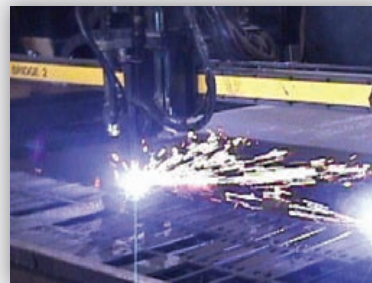
Peddinghaus FDB 2500 Plate



Laser Cutting



Oxyfuel Cutting



Plasma Cutting

Photos courtesy of DenCol Supply.

### Did You Know . . .

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

### Interesting Facts . . .

- ▶ *Our employees understand the cutting processes you work with*
- ▶ *Our auto-nesting saves time and material, typically outperforming attempts to manually nest the same job*
- ▶ *Our products are so easy to learn we can install the software and train a new customer online, the same day*



## Problem Solved

After researching the options, DenCol decided to implement MTC's **ProNest®** advanced nesting software. As an independently developed programming solution capable of using most of DenCol's previously created nests and creating CNC code for all of DenCol's cutting processes and machine brands, ProNest® presented the most versatile and cost-effective long-term option.

Since successful implementation of ProNest at the company DeWayne Deck had the following to say about how it has positively impacted the company. "MTC has aided in the integration of our cutting machines. With MTC's single programming solution our programming time and operator training is significantly reduced. In turn this means we can do a better job of meeting our promise to customers."

**DeWayne Deck**  
President, DenCol Supply

## ProNest® Advantage

ProNest is used to support numerous CNC cutting processes. Using ProNest as a single programming solution means you do not have to sacrifice any software features to achieve the best productivity and quality. In fact, we often hear from our customers that ProNest is not only easier to learn and use than OEM-developed programming software but also that it offers a richer, more comprehensive feature-set. Here are just a few examples of the benefits you can achieve when using ProNest with some commonly used cutting processes:

### PLASMA

- Use variable **Feedrate and Kerf Parameters** plus torch **Under/Over Travel** to reduce hole taper and lead-out inconsistencies
- Use **Auto Height Control Lockout** to prevent the torch from diving and crashing when the "slug" falls out from the interior cut

### OXYFUEL

- Use **Heat Dissipation Cut Sequencing** to reduce plate warpage during cutting by automatically sequencing parts in different zones of the plate
- Use **Advanced Edge-Piercing** features and one of the available **Lock Lead-In** formats to reduce cycle times and improve part geometry

### LASER

- Use **Subrouting** of parts/profiles to both make the CNC code easier to read and to reduce the overall file size
- Use **Corner Radius** technology to identify corners on an imported part drawing and automatically replace them with small arcs; helping to optimize the NC code so that during cutting the machine can maintain higher speeds on corners while still achieving better part quality through improved part geometry

### WATERJET

- Use the **Quality** designation as a means to assign different feedrates to the entities of a part, and control the resulting edge quality
- Use **Dynamic Piercing** to maximize piercing efficiency by rapidly moving the nozzle in a cyclical motion during piercing so that jet "rebound" does not get in the way of the incoming water stream

## COMBINATION MACHINES

- Use **Repositioning** functionality to process plates that are larger than the maximum X-axis work area, using a single pass
- Use **Plate Load/Unload** support to control automatic material handling and maximize productivity

# TECHNICAL BRIEF

## For More Information

Learn about MTC Software programming solutions that can help your company improve productivity and part quality, plus increase profitability. Visit our website at [www.mtc-software.com](http://www.mtc-software.com) or call your local office.



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