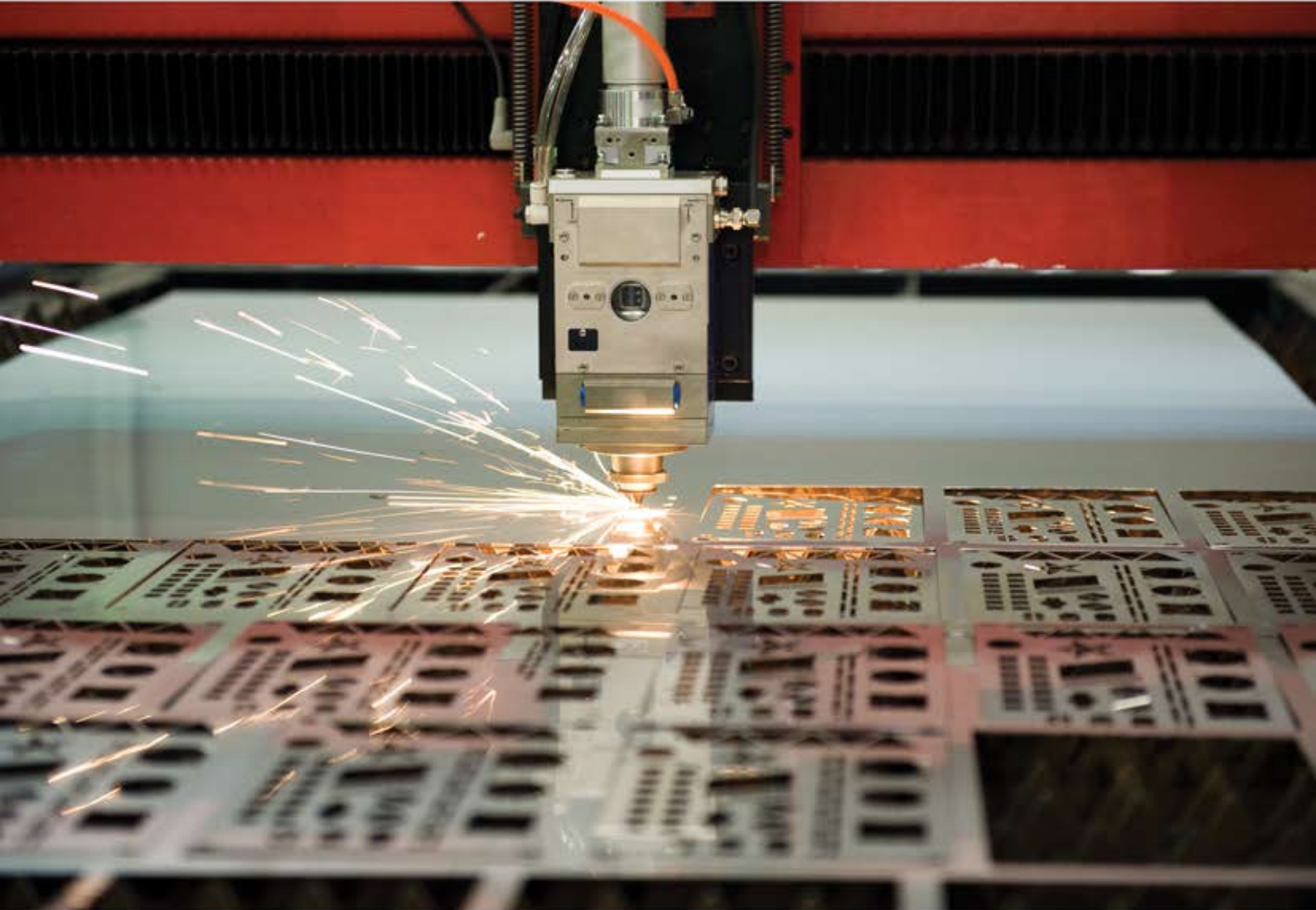




Powerful CAD CAM made easy



OneCNC XR9

Profiler



Router



Plasma



Laser



Waterjet



Oxycut



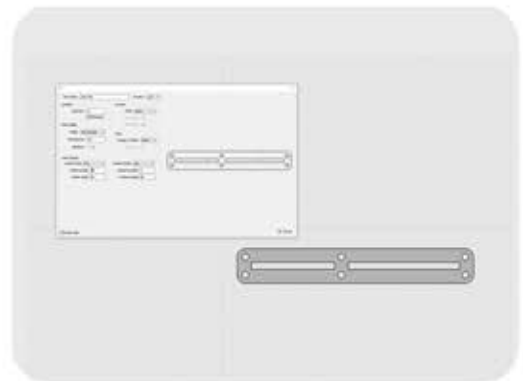
OneCNCXR8 Profiler

OneCNC Profiler software for CNC Router, Plasma, Laser, Waterjet and Oxy cutting machines. OneCNC Profiler is a powerful solution to machine everything from simple 2 axis to engraving pocketing drilling profile part processing and cutting. It incorporates a full range of robust associative machining strategies through a simple wizard-driven interface for fast programming. Complete verification and backplot functions allow the user to prove the cut paths and processing prior to machine use to ensure part accuracy.



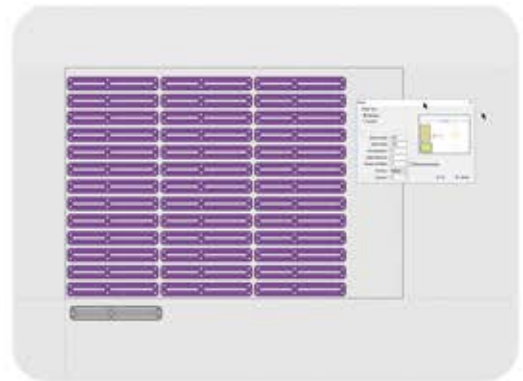
Cut Control

Select the cut boundaries and enter a few settings and you have a part shape ready to nest. OneCNC provides automated control over quantity, rotation, corner handling, tabs and the styles of entry and exit of the cut. If your machine has drilling functionality, hole feature recognition can be used to drill all holes within the nested shapes prior to the cutting operation. If your machine has engraving functionality OneCNC can engrave any geometry within the nested shapes prior to the cutting operation. This can be used to place part numbers or alignment marks accurately.



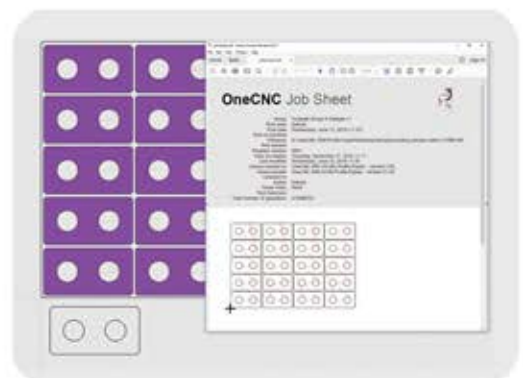
Part Nesting

OneCNC Profiler will nest with fully automated true shape nesting, including part within part nesting to efficiently use the cutting material to the best advantage. Rotation control is handled automatically, so materials with grain direction will always be cut in the correct orientation. For simple low quantity shapes, OneCNC Profiler has manual bump nesting. You can quickly drag and rotate parts into position on a nested sheet, with a pre-set clearance distance. The perfect combination of automatic and semi-automatic nesting along with powerful manual nesting functions like copying, moving, and rotating.



Multiple Sheets

The CNC paths for a set of nested part sheets can be generated in one operation, automatically producing as many sheets as you need to complete the job. Calculation of real time and cost is provided. OneCNC Profiler calculates time and cost of cutting any part and also the entire sheet, taking into account the cut length, the hourly machine rate and the cost of consumables based on the technological machine data. If you have a sheet of material that has been partly used or is not rectangular, you can draw the sheet boundary and nest parts to the sheet shape with automatic or manual nesting.





Router

OneCNC Profiler CAM can be customised to suit all Router table machines. Ease-of-use is just one of the reasons that OneCNC is a popular system of choice for programming CNC routers. Tooling and machining techniques unique to this industry are accommodated by OneCNC dedicated Router functionality and the self-customisable post to suit all popular machines including the PC based controllers. All popular posts are included and can be easily customised to suit individual requirements.



Plasma

OneCNC Profiler CAM can be customised to suit all CNC Plasma table machines. Plasma arc cutting is a great process for cutting mild steel plate, offering much higher speeds than oxy-fuel cutting, and combined with the ease of use of OneCNC provides trouble free programming. Plasma cutting edge quality has a sweet spot that, depending on cutting current, generally ranges from about 6mm up to 40mm. OneCNC cut process can be configured to get the best from your plasma.



Laser

OneCNC Profiler CAM can be customised to suit all Laser Cutting machines. Laser speed of cutting and part cut quality requires precise cut control. OneCNC customisable self-configuration and post editing provides the basis for ease of use and exceptional control. Laser creates a very narrow kerf width, and therefore can cut very precise contours and accurate small holes with excellent cut control. Many materials such as plastics require custom settings and OneCNC has this ability to control the entry exits and corner loops.



Waterjet

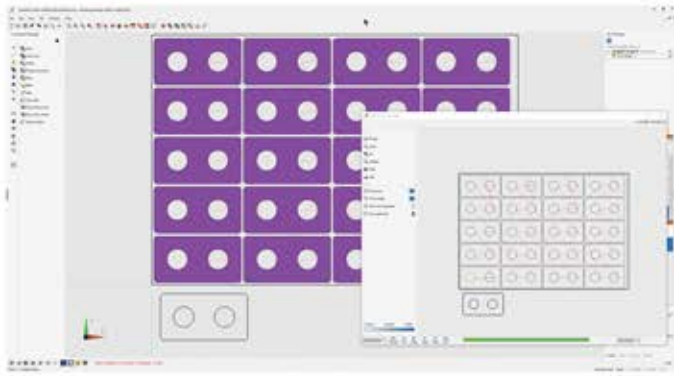
OneCNC Profiler CAM can be customised to suit all CNC Waterjet machines. Waterjet cutting also does a very nice job of cutting mild steel, giving a smooth and extremely accurate cut. Waterjet cutting accuracy can exceed that of laser cutting with good cut control, because the edge smoothness can be better, and there is no heat distortion. OneCNC waterjet ease of use and simple understanding of operation provides the basis of very good waterjet cutting control.



Oxy Cut

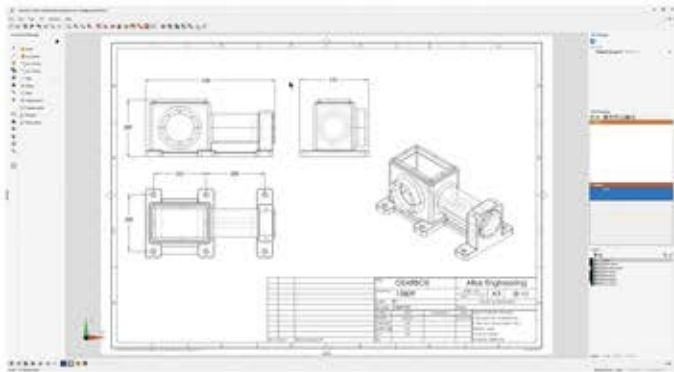
OneCNC Profiler CAM can be customised to suit all CNC Oxy Cut table machines. Oxy-fuel torch cutting, or flame cutting, is maybe the oldest cutting process that can be used on mild steel. It is generally viewed as a simple process, and the equipment and consumables are relatively inexpensive. OneCNC provides the ease of use with easy customisation and self-configured post settings to keep this process simple and effective.





OneCNC Verification

Accurate and reliable dynamic verification eliminates the need for expensive dry runs on the machine. Easily ensure the cut path delivers exactly what you intended with OneCNC verification tools. These tools include dynamic viewing and backplot of the cut paths. Minimize downtime, maximize manufacturing efficiency, and cut machining costs while gaining complete confidence in your machining processes.



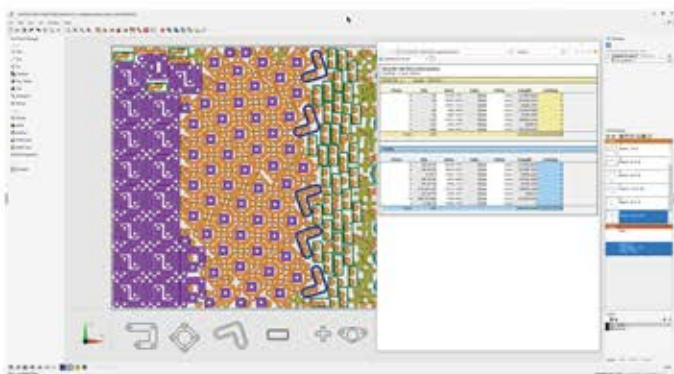
OneCNC Design

This gives your shop the best possible foundation for shop-tested CAD tools. From wireframe and surfacing with associated dimensioning to solid modelling, OneCNC ensures that you're ready for any job. The streamlined CAD engine makes design work easy because each piece of geometry you create can be incrementally or absolutely created. Combined with all traditional CAD geometry functions consolidated into a few simple clicks, simplifies the creation of even the most complex parts.



Wizard Driven CAM

Ease of use is a very important factor in creating NC cut paths. To enable this all functions of the Wire CAM are "Wizard Driven" to lead users through the process with the minimum number of clicks. This ability allows the user to quickly produce cut paths with synchronisation without missing important settings. Work settings can be saved to further simplify use for commonly used functions.



OneCNC Industry 4.0

OneCNC addresses the emerging shift in manufacturing towards Industry 4.0. This ensures users can merge into these goals and have the full benefits of digitalisation. Complete connectivity is provided by way of translators or direct file importation that handles the latest STEP IGES Parasolid SLDPRT SAT 3DM and VADFS to suit Solidworks, Inventor, Rhino3D, Ironcad, Spaceclaim and others. All of these digital processes are necessary to ensure connectivity that comes with Industry 4.0.

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