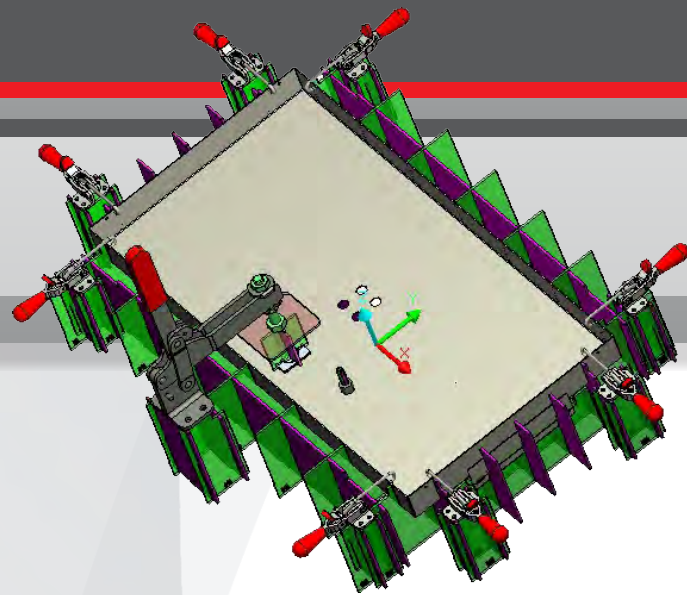


All Trademarks acknowledged. E&OE. Nucleo is a trademark of Camtek Software LLC



Camtek's unique fixture generation process is available as a service - Fixture-as-a-Service (FaaS®) - for quick and cost-effective weld/check fixtures.

Our consultants will join you via a web meeting to learn about your fixture needs and processes in order to propose a partial or full fixture to suit your production or prototyping needs.

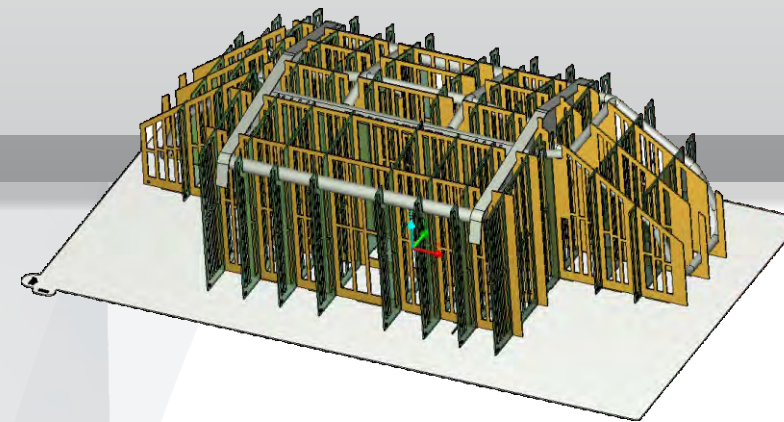
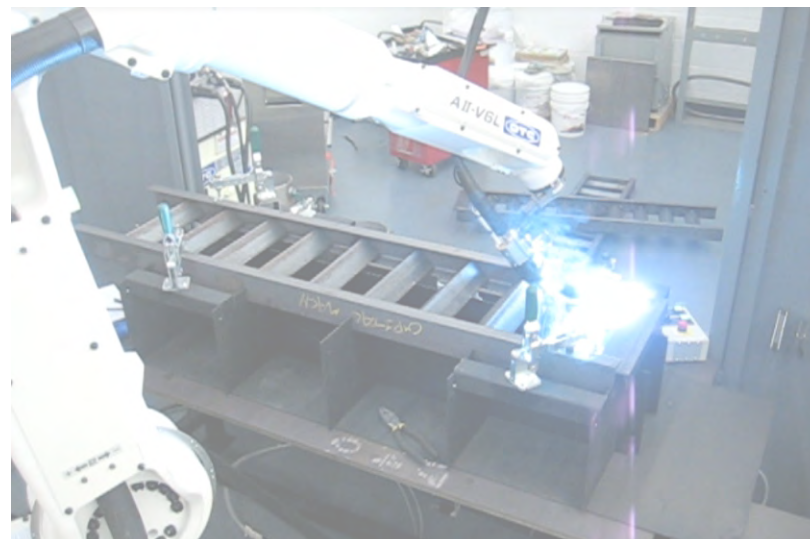
After receiving your models, we will send you solid models of your fixture and 2D DXF files for cutting on your own or your sub-contractor's laser or waterjet.

Our process accepts solid models from a range of popular CAD systems and formats including IGES, Solidworks, SolidEdge, Inventor, CATIA, Pro Engineer, STEP and Unigraphics/NX.

Traditional hard-tooling fixturing can often be a bottleneck. Nucleo's blade approach saves significant cost and reduces lead times.

Call us today for your web consultation.

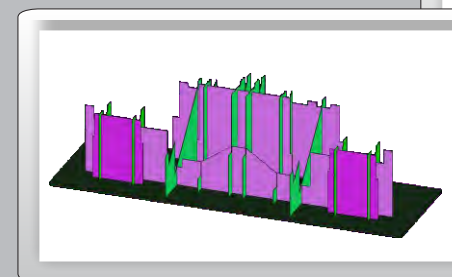
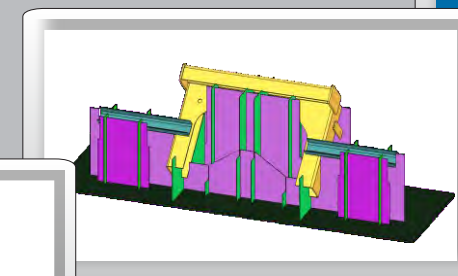
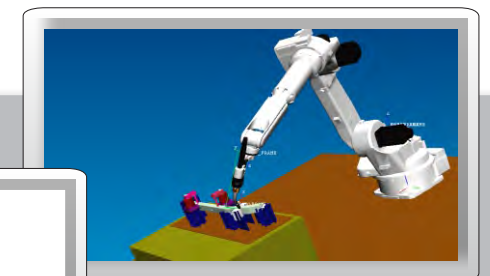
Authorized Agent/Reseller:



Fixture Software Solutions for the Welding and Fabrication industry

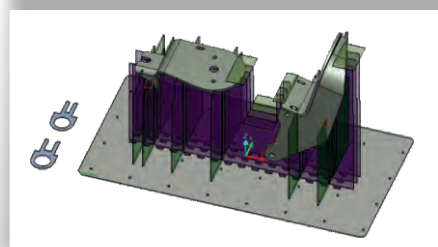
Developed for the general welding and fabrication industries, Nucleo™ provides an automated solution for the creation of inexpensive component fixtures formed from interlocking flat sheet material profiles.

Whether the component is an enclosure, an assembly of tubes or a family of similar parts, Nucleo™ drastically reduces design, complexities, time and cost consumed by traditional fixture design methods.



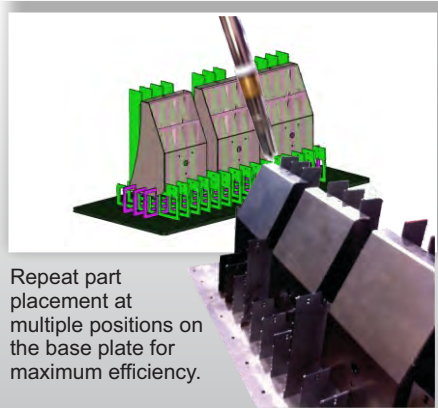


Multistage Fixturing



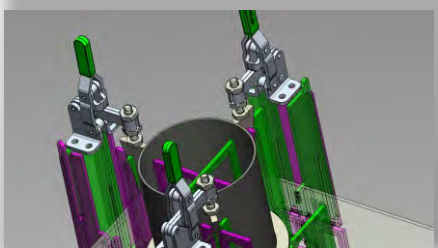
Create a complex fixture in minutes to accommodate multiple welding operations in one fixture.

Multipart Fixturing



Repeat part placement at multiple positions on the base plate for maximum efficiency.

Clamping



Nucleo allows the importation of standard clamp solid CAD files available from CarrLane and most major clamp manufacturers via the internet.

What is Nucleo?

Nucleo is built on the established OPTICAM Classic CAD/CAM platform, part of a family of CAD/CAM products.

How it Works

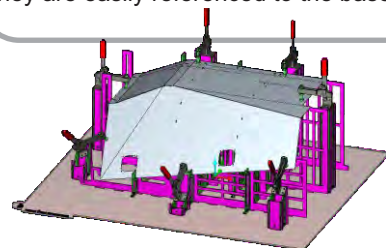
Nucleo creates an interlocked grid of fixture blades connected to a mating base plate from an imported solid CAD model. The top profile of each blade matches the underside of the component at the blade's insertion position, creating a "cradle" into which the weldment components are placed.

Nucleo supports a range of standard CAD translators for most popular CAD systems. These include IGES, Solidworks, SolidEdge, IronCAD, Inventor DWG and DXF, CATIA, Pro Engineer, STEP and Unigraphics.

Easy to Use

Nucleo is extremely easy to use. Many of the core CAD functions are presented in an intuitive "Wizard" process so the learning curve is very short - on average, a few hours.

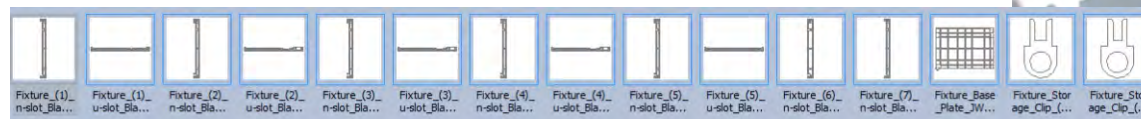
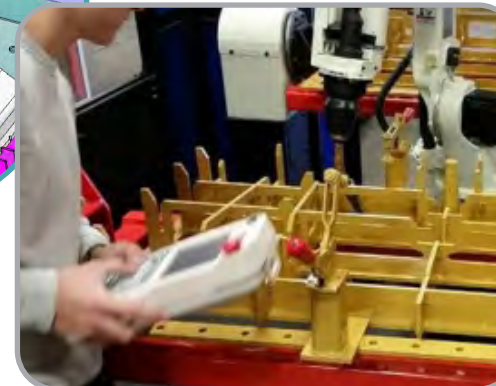
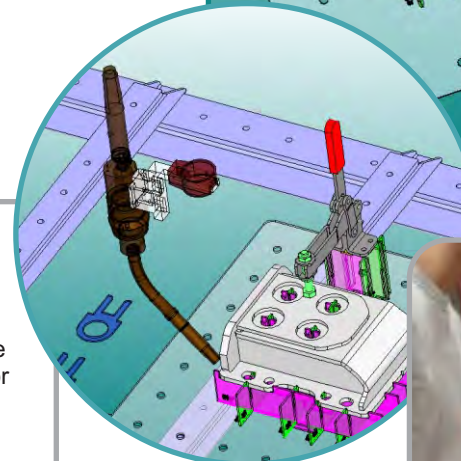
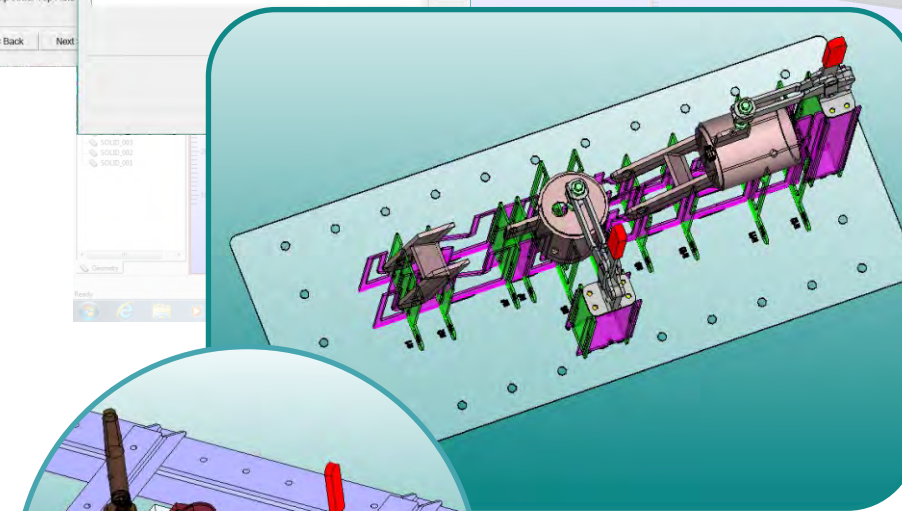
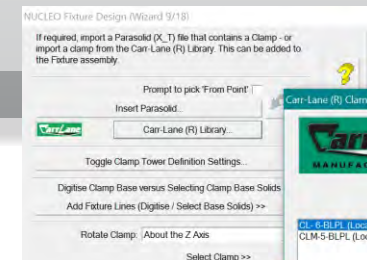
Once the details are entered, Nucleo calculates and annotates each blade so that they are easily referenced to the base plate.



Universally Compatible

After generation, the fixture assembly is saved in DXF format. These files can be transferred to a suitable CAM system for nesting and profiling or directly to a laser/waterjet machine.

The solid model of the fixture can also be saved to industry-standard 3D CAD formats - 3D IGES and Parasolid - for importation into other CAD/CAM systems.



Return on Investment

Typically, at least 35-40% of the time and cost for a fixture is allocated to design. In addition, the methods used to create fixtures often rely on tool room machining techniques - often with extended manufacturing times to create the fixture components.

By cutting the design time dramatically and by utilizing cheap sheet metal for the fixture, Nucleo results in enough overall savings to pay for itself within a small number of fixture runs - when compared to the traditional approach.

By using the tools and materials you already have access to, lead times can be reduced from day or weeks - to just hours.

Total savings first quarter after purchase: **\$6740.44**

- DeWys Manufacturing

Customer Driven, Constantly Evolving

Nucleo is designed for the welding professional in mind and many of the functions it provides comes directly from feedback and requests from our user-base.

Camtek's development team continuously evolve Nucleo as new ideas and technological advances occur; those users covered by our Software Maintenance Agreement (SMA) automatically receive these improvements as they are released.



Contact us today for a personalized web demo