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Custom Nesting Software for CNC Machines by [Cygnet Infotech](#)

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CNC is an acronym of Computer Numerical Control which is used to perform fabrication work on metals such as cutting, drilling, rolling, bending, punching holes, etc. In the world of machinery, CNC imparts increased efficiency and higher level of automation by allowing it to control complete metal fabrication work. Though they are expensive and complicated to run for the very first time, they quickly get absorbed in any metal processing unit by reducing workload and preventing errors.

CNC machines work by interpreting G-code, a programming language which sends instructions to CNC machines to generate different programs for performing various works on metal. It includes nesting algorithm which cuts metal in the most optimized manner by adjusting shapes and sizes so that the wastage is minimum. These nesting softwares take input in the form of various shapes and sizes and manipulate them on the metal which is to be processed to get the best possible solution. Thus in comparison to manual cutting, Nesting Software helps reduce wastage up-to 40%. Moreover, these nesting softwares of CNC put the whole task of processing metals into automated series which renders cost-effective and timely output with zero human errors.

One can also benefit on performing repetitive or prototype work with CNC machine since the nesting software sends signals to CNC machine to work continuously without errors. They generate huge outputs in specified formats reducing manual work and supervision. It performs work faster without breaks thus save on overhead by removing the need of operators and overtime paid to them.

There are many nesting softwares commercially available for CNC machines in the market. They have varied functionalities and capacities to perform and generate programs of CNC machines according to requirements. However these softwares are not customizable as per individual company needs thus they require paying expensive rates to these software vendors. These softwares also include license fees which make it even more expensive. Thus companies and CNC manufacturers go for developing custom nesting software for their use. These custom built nesting softwares perfectly align with individual company needs and are also free from licensing fees. These customized nesting softwares allow users to produce required output according to their specific metal fabrication work requirement.

Therefore, it is beneficial for companies to get customized nesting software built as per their requirements, rather than altering the ready-made nesting software available with various nesting software providers. This will give them the benefits of better productivity, reduced wastage and reduced cost in metal fabrication work.

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a [Cygnet Infotech](#) is one of the leading providers of customized software programming solutions. It has designed Nesting Software for one of its Turkey based client by implementing various CAD/CAM designs to create 2D shapes. With Cygnet's CNC programming software developed on a [Microsoft .Net](#), the client has met his objective of cutting metal sheets in required shapes with reduced wastage and cost.

a [Know more about Cygnet's capability](#)

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