Learn more about catalCAD:

CatalCAD company was founded in December 1995 by Christian LECOMTE previously Industrialization and Computer engineer and Emmanuel Vendeville previously commercial engineer responsable for purchasing raw materials and subcontracting mechanics and sheet metal work, all two at Merlin Gerin Grenoble (Schneider Electric today)

The motivation to create catalCAD was to develop computer systems (software) that would significantly shorten the parts development cycle between design (CAD technical offices) and manufacturing development (CAM Offices of methods).

Indeed, unlike the mechanical parts that do not undergo geometric transformation between their design and machining, the sheet metal parts, are subjected, without exception, to a geometric transformation during their production cycle.

Thus, a connecting rod for example, includes as soon as it is designed all geometric information for its machining, drilling, milling etc ..

In the other hand, a sheet metal panel for instance as soon as it is designed does not provide all the information to fabricate it.

Indeed, as this piece is in sheet metal, fabrication must begin with a cutting in flat on a sheet metal.

It is therefore necessary to define the exact flat geometry to cut by performing flattening calculations that take into account several factors such as: The material that will be used (mechanical characteristics of the material hardness, elasticity ...) its thickness, bends angle and the influence of the bending tools on the elongation of the metal.

These data (parameters) are essential to obtain a correct flattening that will ensure at the end of the production cycle the integrity of the piece according to the imposed geometric characteristics of the finished product.

These calculations requested lot of time and skills.

It is on this specific issue that catalCAD has built its know-How and its business in providing computerized automatic solution software increasingly efficient.

We can measure now between manual processing and treatment with catalCAD software solution that the computation time were divided by at least 100.

This is also true between treatment with a conventional 3D CAD system (Pro / E, SolidWorks, Inventor, Catia V4 and V5, Solid Edge, Unigraphics ...) and software catalCAD based on direct modeling technology.

This productivity increases with the geometric complexity of the parts. More complexity is high greater productivity will be important and that can frequently achieve a division time by 1000.

Over the years, catalCAD solutions have extended to the design itself by providing powerful tools and functions for modeling always easier and faster sheet metal parts and assemblies.

Therefore, catalCAD offers you today the best in class, the most advanced, complete and powerful sheet metal CAD software of the market.