



## • Introduction

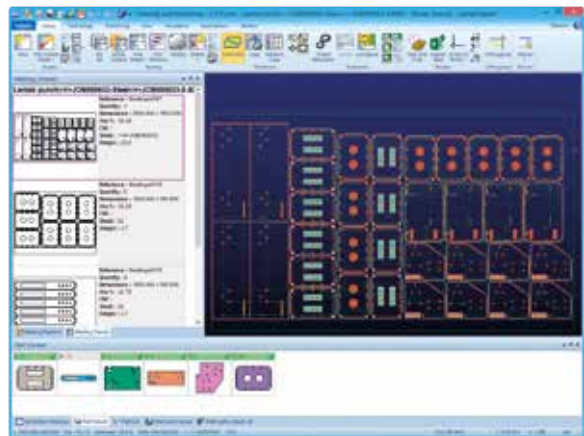
**Lantek Expert Punch** is a CAD/CAM system specially designed for automating the programming of CNC punching machines. It is the result of over 25 years experience and close collaboration with both manufacturers and users of this type of machine. It perfectly combines machine technology with the customer's programming and management needs. **Lantek Expert Punch** offers an advanced, intuitive and friendly interface, which helps improve the user's efficiency when it comes to programming.



## • Nesting

**Lantek Expert Punch** offers automatic and manual nesting with great flexibility and optimum performance. A combination of automatic, semiautomatic nesting with powerful manual nesting functions such as: grid copying, moving, rotation, etc.

**Lantek Expert Punch** automatic nesting optimizes the parts within the sheet offering different options for common punching on regular and irregular pieces.



## • Management of punches, dies, turrets...

**Lantek Expert** manages Autoindex tools, Multitool stations and all tool types, from the most standard to tools for forming, embossing, drilling, threading, stamping, rolling, etc.

The system takes into account the characteristics of each station of the turret punch or linear tool store.



## • Automatic punching software

The machining of the geometry is totally automatic in accordance with the parameters which are completely configurable by the user considering the limits of the machine. **Lantek Expert Punch** also allows punching manually or semi automatically. It consists of advanced options allowing full flexibility for machining. **Lantek Expert Punch** stands out amongst its competitors for the functions it gives users for carrying out common punching on regular and irregular pieces. It also manages the sheet reposition automatically depending on different strategies chosen by the user. The system takes into account the different optimization criteria, by path and by angles. The modify options provided by **Lantek** allow the user to easily change machining order and sequence, micro-joints, punches, etc.

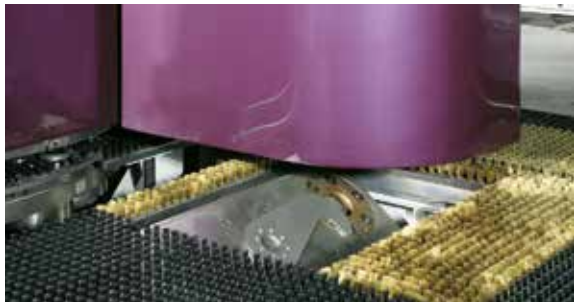
The CNC file is generated automatically and can generate expanded and subprogram output, depending on the requirement of the machine tool.

The user may personalize, in an easy way, the machining of specific parts by means of machining macros for specific geometry.

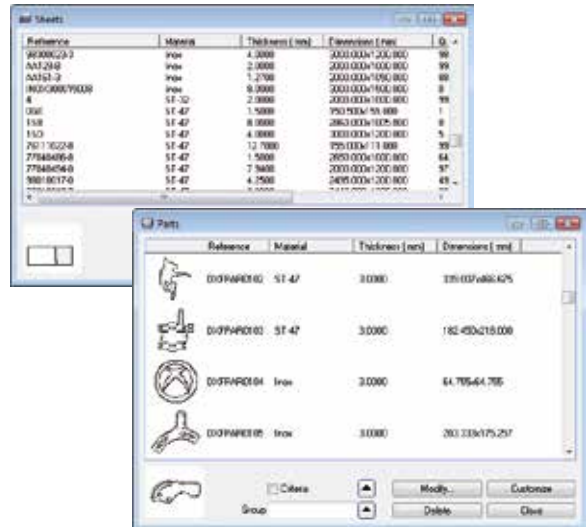


## • Component removal: manual and automatic

**Lantek Expert Punch** controls all the possible ways of separating and removing the parts from the sheet, automatically: micro-joints, work chutes, machine stop, part picking systems and integrated angle shear.



- Parts management and sheet metal store controlled within the database. All the parts and sheets are organized according to material and thickness date, etc.
- Totally integrated with the mainstream 3D design systems (SolidWorks®, Autodesk Inventor®, Solid Edge®, Catia®, ...)



## • Technical characteristics

- Integration of all options. All the **Lantek Expert** options are integrated into one program. Moreover, **Lantek Expert** is fully integrated with **Lantek Integra**, the Integral Management Software System offered by **Lantek**. **Lantek Integra**, offers you a modular CAD/CAM/ERP solution for manufacturing companies belonging to the sheet metal, beam sections and tube processing sector. Additionally, **Lantek Expert** is designed to connect to external ERP systems.
- Intelligent import/export. Connection to the principal CAD systems on the market: DXF, DWG, IGES, etc.
- Teamwork. Available for operation as a stand alone productivity cell or as a part of a network system. It is possible to work with a floating license.
- 2D design. Thanks to advanced geometry options, the user can design any 2D geometry easily and quickly. Included in the CAD system are options to copy mirror, scale and most importantly verify the geometry to fix any drawing discrepancies.
- A large library of parametric parts into which the user can add their own designs.

## • Added technologies (shearing and cutting)

**Lantek Expert Punch** supports both shearing machines and combination machines with a laser/plasma cutting head. Shearing and laser cutting are automatically managed, and it is extremely simple to use.

## • Times and costs optimization

**Lantek Expert** manages all the technology of the machine and calculates the time and cost by piece and by sheet. Using this information, the user can create quotations, check the volume of work of each machine and print any required reports.

