A software of
LIBELLULA
UNIVERSE
s u i t e

Libellula.CUT

CUT

Programming for laser, plasma, oxyfuel, waterjet
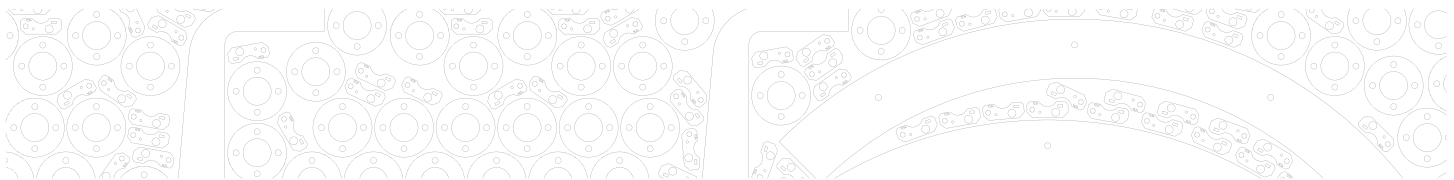
Libellula
Cutting The Edge Of Software Everyday
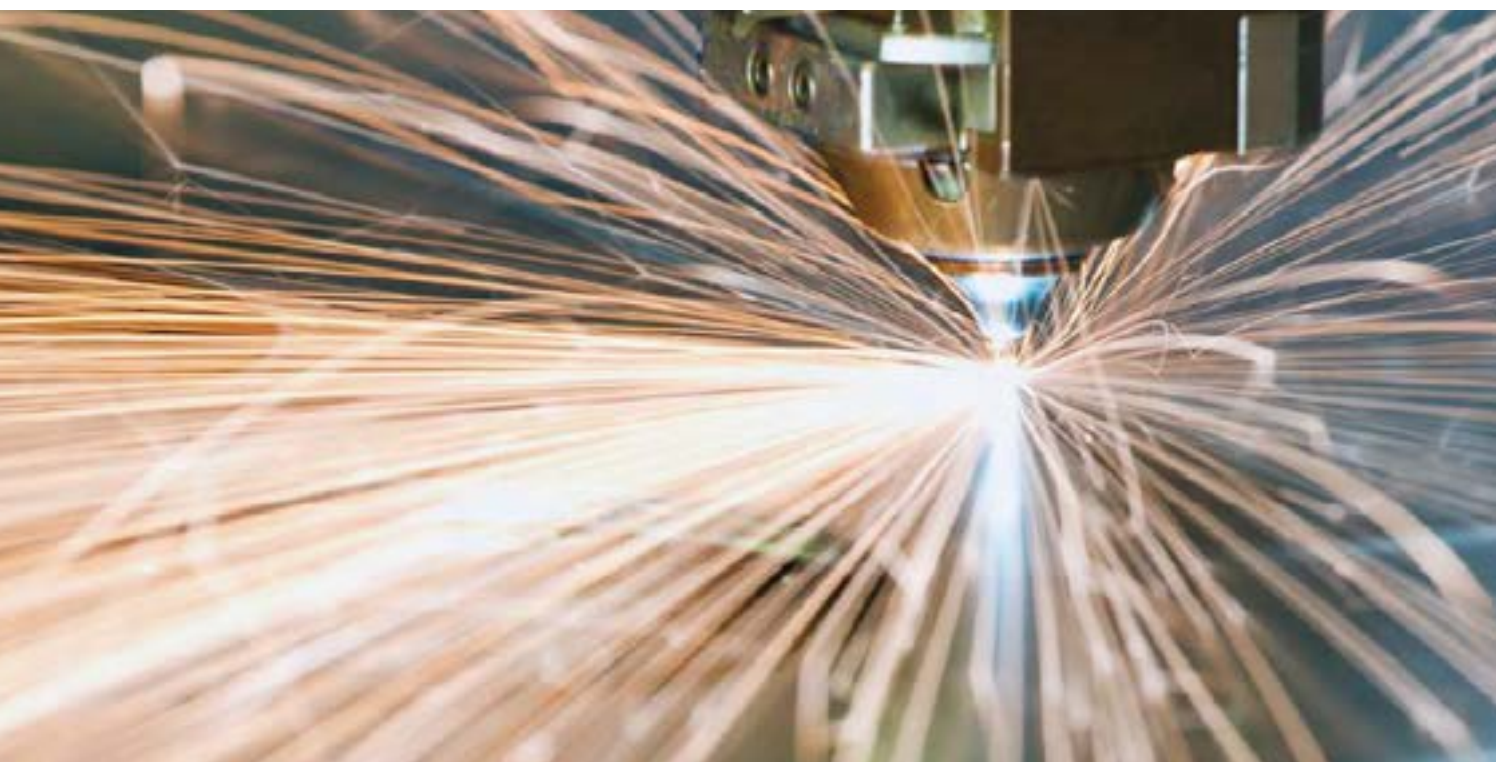
The CAD/CAM unique application for the programming of any type of cutting machines: laser, plasma, oxyfuel, waterjet

Libellula.CUT is the cutting edge of Libellula Universe and represents the highest expression of the technological know-how of Libellula.

Result of an engineering research that lasted for years, has redefined the standards of the entire category of software for cutting sheet combining a versatility and effectiveness with unprecedented ease of use.

Thanks to its integrated CAD and the exclusive One-Click technology, Libellula.CUT creates or imports in a moment the geometric details from any other platform of drawing, automatically optimizing profiles and arranging them in an optimum manner for subsequent processing.

The best of the technological research of Libellula in a powerful and intelligent application, which reduces the processing time

In Libellula.CUT, the software engineers and analysts have concentrated the best of Libellula technological know-how in theme of sheet cutting:

- **ISA technology (Intelligent Shape Analyzer):** analyzes in a completely automatic way the geometries of every single detail to be cut, selecting only the best nesting methods and avoiding the slow and complex decisions that until now have limited the use of automatic nesting

- **QLC technology (Quality Level Check):** allows you to launch into production - Libellula. Cut will automatically search for the best solutions that ensures the minimum quality requirements

- **RTC Technology (Ready To Cut):** Libellula.CUT allows to activate in a completely automated way the arrival of an event (eg. the import of "n" DXF file) and automatically gets all the necessary information in order to be able to provide the nesting, cutting paths and the postprocessor required

Libellula.CUT

HIGH SAVING OF TIME AND MONEY
THANKS TO THE SOLUTIONS OF NESTING
AND AUTOMATIC CUTTING

MAXIMUM PRODUCTIVITY
WITH MINIMUM SCRAP

A winning formula:
+ Automation + Integration + Efficiency + Productivity
- Learning times and programming = Libellula.CUT

Libellula
One
Click
philosophy

- ᐧᐧ Fast and intuitive learning
- ᐧᐧ Full automation available in every step of the programming process
  (interface to external CAD, defining the cutting path, etc.)
- ᐧᐧ Completely open to integration with the applications of the customer: interface toward CAD, toward ERP and toward other modules CAD/CAM
- ᐧᐧ Ability to manage all the cutting machines with the same system
- ᐧᐧ Optimization of cutting path and management for specific cutting technologies (nesting and multi flame cutting, automatic common cut, optimization of the position of the laser head, automatic management of micro-joints and micro-welding, etc)
- ᐧᐧ Systems management for loading/unloading and for the automatic sorting of the sheets
- ᐧᐧ Quality assurance of the machined parts
- ᐧᐧ Optimization of nesting with the [ISA] system and less scrap
- ᐧᐧ Optimized generation of nesting on uneven scraps
- ᐧᐧ Reduction in the number of piercings (bridges, continuous cut or chain) and route optimization
- ᐧᐧ Optimal management of cutting conditions

Expand the power and versatility of Libellula.CUT with fully integrated add-on modules of the Libellula Software Universe

mod.ORDER

- Provides a fundamental support in the phase of planning and managing operations of nesting, allowing the operator to always have, in real time, a complete and updated management of parts to be produced or designed
- Allows intuitive compiling lists of semi-finished products to be delivered into production function for laser cutting with Libellula. CUT, by programming the work to perfection
- Speeds up and optimizes the nesting process by identifying both the presence of similar work parts made with manual or automatic nesting, as well as those which have yet to be produced

mod.STORAGE

- It is the integrated module for the sheet warehouse management and remnant processing, which allows you to know in real time the detailed situation of the warehouse and its economic value
- Using different search parameters, the module allows a refund of inventory values divided by material (iron sheet, sheet steel, carbon steel, aluminum sheet), characteristics (flat sheet, sheet metal, transparent sheets, coil rolling) or by destination of use (eg. for rolling gates)
- It allows you to have at any time an accurate situation of the availability of sheet metal for the optimal processing of nesting and automatically maintain updated the status of stocks movement

mod.MANAGER

- View and manage the routing and workload in the workshop, allowing you to flexibly change the code of the processing
- It manages and monitors the work load of each machine optimizing the production flow management.
- Dynamically routes the processing: by integrating Libellula.VISIO it also allows full advancement of the process monitoring
- Delivers centralized management and flexible n-code working, displaying the work centers available for a particular work in order to avoid errors in the production flow and balancing resources

Libellula.VISIO

- It is the software that oversees the monitoring of all stages of the sheet metal working process making possible the automated scheduling
- Enables management of orders and production queues and can manage the assignment centrally or locally by the operator, ensuring maximum flexibility
- It offers a series of exceptionally advanced features such as:
  - Management of processing queues
  - Execution and validation of production
  - Diagnosis and quality control of the pieces produced
  - Can direct interface to the Numerical Control
  - Management of the sheet metal and remnant loading machine

Libellula.CUT is available for:

LASER CUTTING MACHINES

All algorithms are planned to work with manned or unmanned machines, equipped with loading/ unloading systems automatic pallet changer, cells and machines placed in FMS lines: for each of these situations Libellula.CUT provides the best programming management.

PLASMA CUTTING TORCH MACHINES

There are all the algorithms for multi-torches machines, packaging with both manual and automatic. Libellula.CUT also manages all types of bevel (single, double and triple) with full automation.

WATERJET CUTTING MACHINES

Libellula.CUT provides all the necessary algorithms for profile cutting with water-jet as regards the tool trajectories, the cutting speed and the break-through mode.

Managing parameters for pump management is fully automated through experience tables.

Management of FMS lines and / or of the manual operations:

- ✔ Reduction of the cutting number of different nesting
- ✔ Automatic Skeleton cutting
- ✔ Systems management of loading / unloading and sorting systems

Optimized information for the company with "Total Integration" additional Libellula modules

- ✔ Order Management with the option mod.ORDER module
- ✔ Warehouse management and reusable remnant with the mod.STORAGE option

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Microsoft Partner
Silver Application Development

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