



OPTIA

Optical Profile Acquisition

The research of maximum reduction of scraps
achieves an efficiency level never seen before.

You can see that.



The webcam model is only indicative and it can be changed without any prior notification for technical or sales issues



Libellula
Cutting The Edge Of Software Everyday

Microsoft Partner
Silver Application Development

Software line



Sheet metal cutting



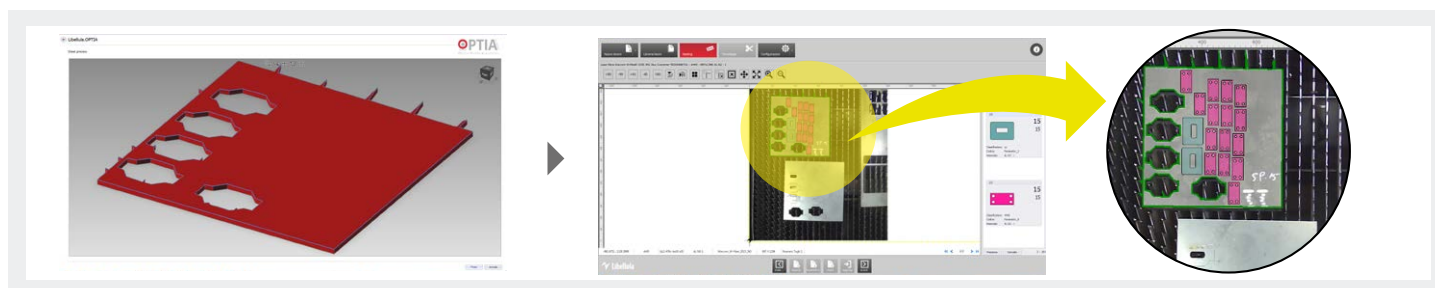
The processing profit is connected to minimize scraps.
 We have found the perfect solution.
 Really simple to seem banal

OPTIA by Libellula is the new module connected to Libellula. WIZARD which grants an extraordinary simplifying of sheet scraps recovery process.

After long research and test Libellula engineers have found a solution very efficient along with an incredible easy of use, and that can be developed directly by sheet cutting staff without any intervention from technical department.

With OPTIA is possible to digitize scraps of any shape and material in few minutes

- ✔ The digital acquisition of sheet scraps profil is done through the optical system of a webcam, which is able to acquire and to convert a real scraps profil in a schematic virtual 2D representation
- ✔ Through the position of webcam in proximity of a workbench (machine or acquisition station external to it), OPTIA acquires a video streaming which is elaborated in real time and used to obtain the sheet scraps imagine
- ✔ The process elaborates and discretizes the acquired images in order to reconize the geometrical shape of sheet and simultaneously to save it for his representation in real scale on nesting background of cutting software Libellula.WIZARD



Two operative ways for maximum flexibility of nesting elaboration

The next operative ways foreseen two different approaches:

- ✔ Elaboration of an automatic nesting on discretized metal sheet KeyShot: photo-realistic rendering
- ✔ Use of manual nesting on real photographic representation of metal sheet

Once nesting is finished, the system will produce automatically the NC program which could be immediately run or not.

The scraps digitalisation with OPTIA is possible in any workshop context

- ✔ If the sheet is acquired directly on board machine, the NC program will be directly used from machine to cut
- ✔ If instead the sheet is acquired on a station external to the machine, the system will be equipped with a second webcam ables to aquire the position and orientation of metal sheet positioned on board machine

The system will re-elaborate automatically the NC program to adapt it to the new metal sheet position and will transfer it to the cutting machine. It's possible therefore to avoid the unproductiveness of machine related to downtime of acquisition and NC program preparation.