



Libellula.UNFOLD

From 3D CAD to flat development for
sheet metal cutting

*Industrial manufacturing control
Synergy driver for the enterprise
Optimization of business performance*





Libellula.UNFOLD

From 3D to 2D. With 1 click

Libellula.UNFOLD is a three-dimensional graphical environment that allows to import parts designed in any CAD and obtain automatically a plane development. Libellula.UNFOLD is a simple, intuitive and fast system. Maximum efficiency at your service.

Stand-alone operation.

Libellula.UNFOLD is independent, should not be used together with other software and it is able to adapt 3D drawings without the use of a CAD.

Interventions.

Libellula.UNFOLD automatically recognizes the single elements of an assembled, allowing to develop all automatically.

If the particular designed in 3D can't be manufactured in a single particular, the user can separate it according to their needs.



File formats imported by Libellula.UNFOLD.

Manufacturer	File Format
IGES	*.igs; *.iges
STEP	*.stp; *.step

Optional file formats imported by Libellula.UNFOLD

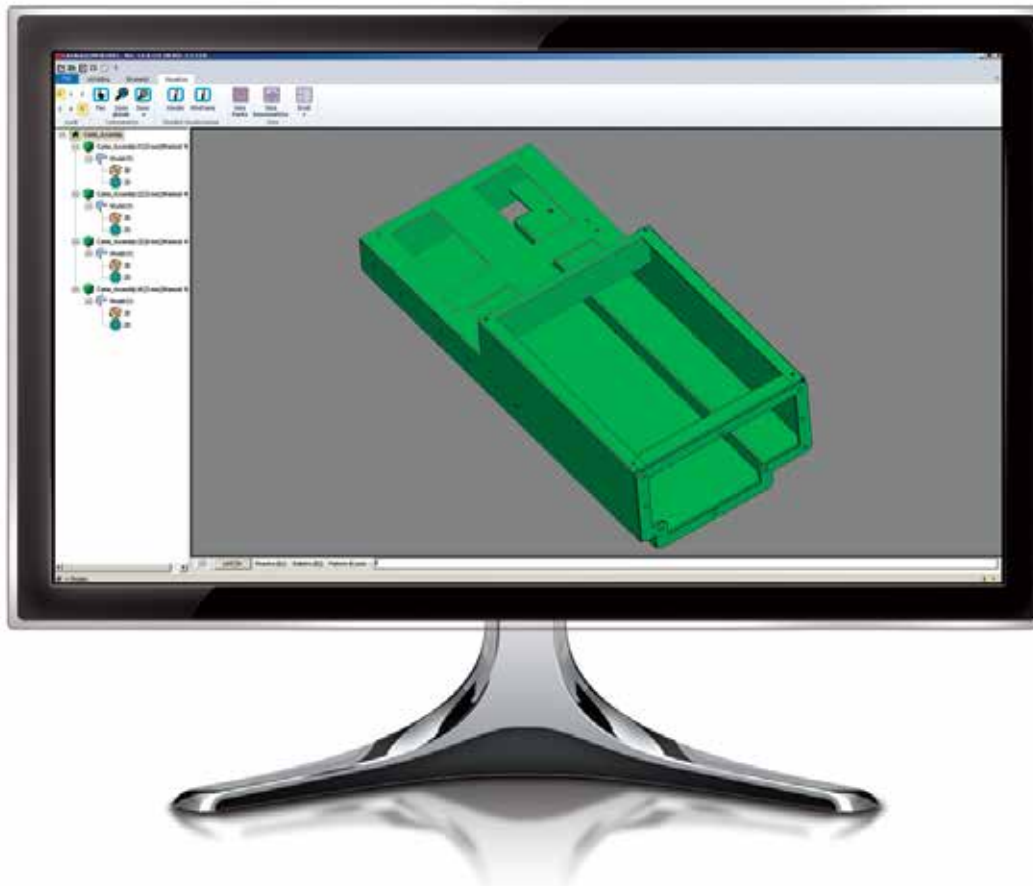
Manufacturer	File Format
ACIS	*.sat; *.sab; *.asat; *.asab
SOLIDWORKS	*.sldprt; *.sldasm
INVENTOR	*.ipt; *.iam
UG/NX	*.prt
PRO/ENGINEER	*.prt; *.asm
CATIA V4	*.model; *.exp;
CATIA V5	*.CATPart; *.CATProduct

File formats exported by Libellula.UNFOLD

Manufacturer	Product
S.I. Engineering	SI[CAM]
S.I. Engineering	Libellula
Cybelec	CyCad
Trumpf	TruTopBend
Delem	VBend
Robosoft	PartManager
Erxa	RoboWave bending
LVD	CadmanB
Amada	Pbs

Libellula.UNFOLD

Maximum efficiency, extreme simplicity



Massima semplicità.

Libellula.UNFOLD ensures maximum flexibility and simplicity in the applications. The operator selects the operation and the modifications, the system calculates them quickly.

It is also possible to import the assembled files with more internal components: the system allows the unfolding of single parts.

All in 1 click.

Extremely fast and Zero training.

Libellula.UNFOLD imports (3D or "assembled" files), recognizes technical parameters of imported project (thickness, bending lines, etc...) and converts it to a flat development with only 1 click.

No specific knowledge is required to use Libellula.UNFOLD.

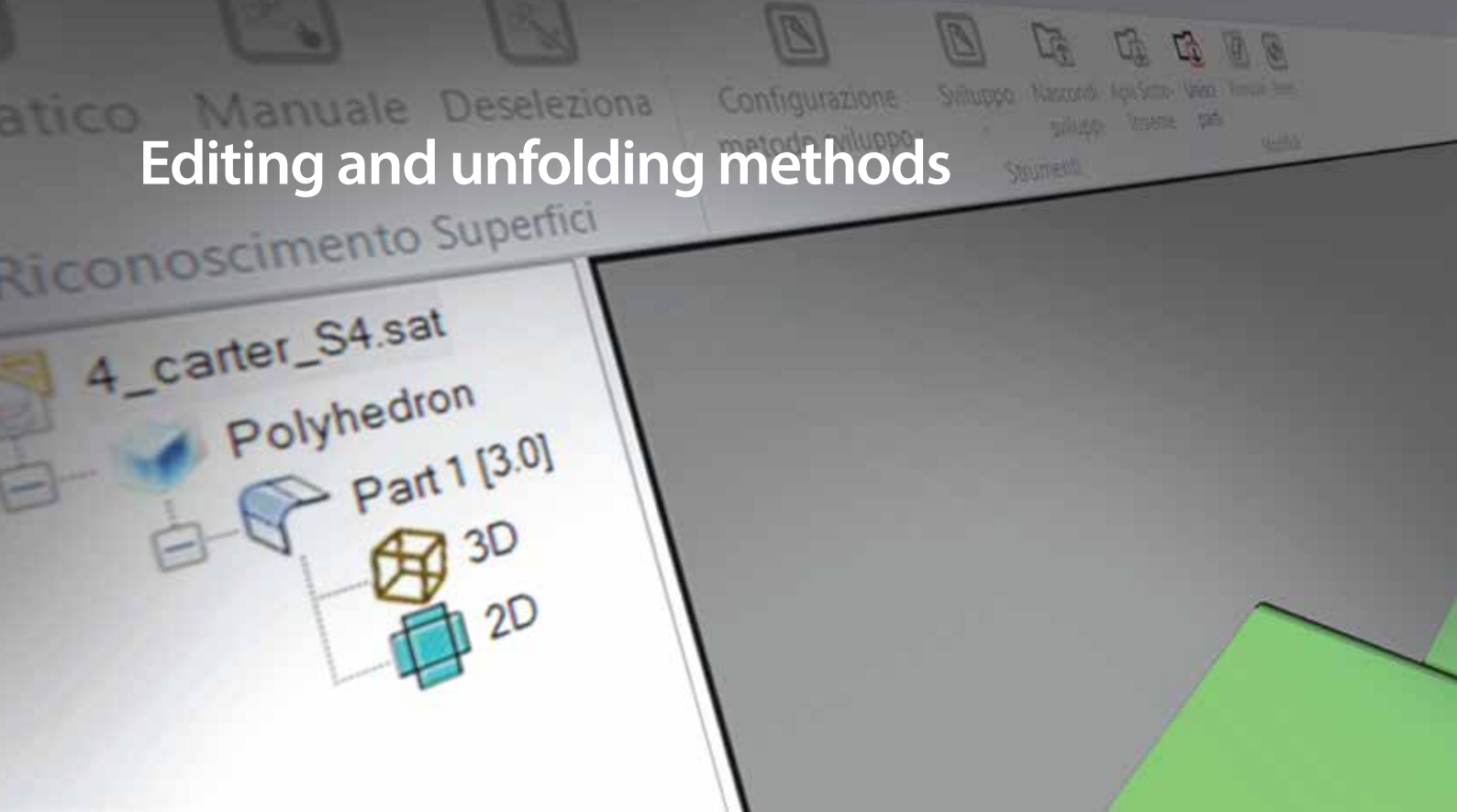
Finally, a software zero training.

Time saving.

The automatic calculations of the system, together with the not required additional training, allow to reduce the working times and increase the efficiency. An important advantage in this context



Editing and unfolding methods



Absolute flexibility with editing simple and powerful.

Thanks to the recognition of the technical parameters of imported part, with Libellula.UNFOLD you can edit and/or add:

- notching
- break edges
- breaking lines
- break corners
- bending radius
- hollow dimension of matrix
- bending angle
- different parameters for each bending line
- thickness
- material shrink

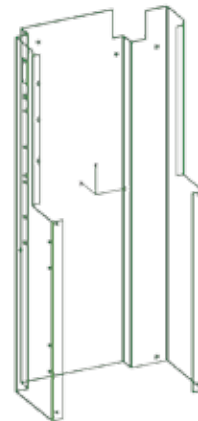
The system recalculates dynamically the development and it shows a preview of both 3D and 2D.

Maximum choice in methods development.

Thanks to Libellula.UNFOLD, the user is also able to choose the more suitable unfolding method in function of the project.

The unfolding methods are:

- theoretical
- experience tables
- algorithm for conic shape (neutral fibre)
- purely geometric



Hardware & Software Requirements

Minimal Hardware Configuration

- CPU Intel® Core TM i5 or similar
- Hard disk: 2GB free space
- 4 Gb RAM
- Video Card with 256 Mb Ram memory • DVD ROM 16x
- Monitor 17" (1024X768)
- 3-button mouse with wheel
- USB port for USB License Key
- COM Port RS232 (9 pin) *in case the PC needs cable transmission to the machine.

Suggested Hardware Configuration

- CPU Intel® Core TM i7 or similar (32bit or 64bit)
- Hard disk SATA III (2GB Free space)
- RAM 8 Gb or Higher
- Video Card with 1GB Ram memory
- Monitor 22" (1920X1080) or Higher

Software Requirements (Server side)

- Microsoft .NET Framework 4.0

Server Operating System:

- Microsoft® Windows Server 2003 SP1 (32bit or 64 bit)
- Microsoft® Windows Vista SP2 Business - Ultimate (32bit or 64 bit)
- Microsoft® Windows Server 2008 SP1 (32bit or 64 bit)
- Microsoft® Windows Server 2008 R2 SP1 (32bit or 64 bit)
- Microsoft® Windows 7 SP 1 Professional and Ultimate (32bit or 64 bit)
- Microsoft® Windows 8 Pro - Enterprise (32bit or 64 bit)

Software Requirements (Client side)

Clientt (web access)

Supported browsers: Firefox 3.0, Google Chrome, Internet Explorer 9, Opera 11, Safari 5

Client Operating System:

- Microsoft® Windows Vista® Business and Ultimate (32bit or 64 bit)
- Microsoft® Windows 7® SP1 Professional - Ultimate (32bit or 64 bit)
- Microsoft® Windows 8 Pro - Enterprise (32bit or 64 bit)

Libellula technical support

At your service, whenever you need.



Availability, precision on answering, ability to recognize the problems quickly and to propose the right solutions: these are the guidelines of our technical support.

Libellula assistance: an immediate, operative and efficient answer.

The Libellula technical support proposes 3 types of contracts, following the customer requirements. Every customer selects the technical support service in function of his structure and his organization: Libellula always assures the problem solving.

No postponing, no delay, only solutions.

PREMIUM

- ✓ Phone assistance
- ✓ Fax service
- ✓ Email assistance
- ✓ Chat
- ✓ One Clic.SUPPORT]
- ✓ Customer Portal
- ✓ Upgrades and discount

Services

Our support, just as you wish

Our technical support is operational on working days and takes care of customers according to their preferences: by phone, e-mail, chat, fax, remote assistance or VoIP.

Every support channel ensures a fast and exhaustive answer, delivered by expert technicians and software specialists.

Experience technical support just the way you need it, in just one click.



Phone assistance

Immediate answer of phone calls: a trained technician is at your service in real time, to solve your doubts and problems



Email assistance

Our technicians are always available and willing to reply to e-mails rapidly and extensively. Utmost care for service, delivering highest efficiency.



Chat with our technicians

Professional chat support for real time answers.
Excellent service, never leaving the customer without a reply.



Fax service

A fax service, for any non-urgent inquiries, is available. Any of your issues will be examined and followed up.



OneClic.SUPPORT

Technical support through safe internet connection, directly from your application: our technician will directly operate on your computer, delivering immediate solutions.



Customer Portal

The Libellula technical support can be easily contacted through our website: www.libellula.eu. Our portal allows direct access to the service using one of the options you prefer. A great innovation for our most discerning customers.



Libellula Univers

Software solutions for sheet metal fabrication

From cutting process to production management.

All technical and operational requirements deriving from the experience of sheet metal operators are successfully matched thanks to an appropriate and quick solution. Libellula: the first entirely Italian-made software, the result of our in-house development and extensive functionality tests.

Safety, reliability and certain results.

Our professionals, engineers and analyst programmers are steadily studying the products in order to solve the problems of the sector.

Our software systems are put on the market only after a series of positive safety tests, as well as a punctual efficiency and reliability evaluation. Customer requirements and customer satisfaction are constantly followed up.

Because a fully satisfied customer is the main target for all of us.

Delivering highest efficiency.

S.I. Engineering assures high operational performances and, above all, cares for maximum efficiency during the different steps of the process:

- Fast import, even with "drag & drop" system. One click and the import is done.
- Reduction of remnants during nesting to optimize the costs.
- Fast programming and parameter setting to optimize your job.
- Real time control of your orders; for a fast and precise overview of works in progress.

**S.I. Engineering:
an universe of interactivity, integration and automation**

Libellula Univers

Libellula Univers by S.I. Engineering

Cutting
Laser - Plasma/oxycut - Water Jet

Libellula.CUT

Libellula.CUT is a highly efficient CAM system to operate laser plasma, oxyfuel, water jet machines

From 3D CAD to 2D

Libellula.UNFOLD

Libellula.UNFOLD allows to easily and quickly import 3D CAD files and to obtain their flat development

CAD 3D

Libellula.CAD

Libellula.CAD is a 3D CAD system of Libellula Univers

DUCT

Libellula.HVAC

Shapes for applications such as air cooling and ventilation systems

Graphic Editor

Libellula.3D-EDIT

Libellula.3D-EDIT is a powerful and smart graphic editor for 5 or 6-axis laser cutting machines

Quick Estimates

Libellula.BUDGET

Libellula.BUDGET is an estimating and costing software specifically designed for sheet metal fabrication

Punch

Libellula.PUNCH

Programming system for punching and combination machines.



S.I. Engineering

Since 1988, a global presence



World-leading player on CAM, nesting and PCS solutions for sheet metal working, S.I. Engineering is the favourite partner of more than 12.000 customers in the world.

Leading companies in the automotive, aerospace and naval industry, as well as the most important machine tool manufactures have found in S.I. Engineering the most diverse solutions matching all their requirements in terms of process optimization and innovation. In our vision, this is the key to continue to be a Leader on the market.

Our professionals, engineers and analyst programmers are steadily studying our entire product range in order to solve branch-specific issues and to deliver the highest service.

Our software systems are put on the market only after a series of positive safety tests, as well as a punctual efficiency and reliability benchmarks. Customer requirements and satisfaction are constantly followed up.

Because a happy customer is the main target for all of us.

Our numbers

Real numbers

+12.000 

Satisfy customers all over the world

+60 

The countries we serve

+16.200 

Number of sold licenses

+30.000 

Number of installed machines

+76 

A team composed by professionals,
engineering technicians and
analyst programmers
at customer service

100%

Satisfaction guaranteed



Our partners:
Rivoira
Prima Power
Microsoft
and many others.



Sheet Metal Software

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Industrial Automation solutions

