SI[TUBE]

Programming system
for cutting of rectangular, square and round pipes

SI[TUBE] is a programming system suited to control metal cutting machinery to fabricate pipes and profiles.

This solution is suited for any machine with a rotary axis, as well as for 4- axis and 6-axis cutting machines.

It encompasses all steps from machine programming through pipe & tube modeling, choice of materials, nesting handling, until creation of cutting path and generation of NC code.

SI[TUBE] features:

- New portal with easy access to all main functions
- Integrated CAD system for designing or importing of external files
- Handling of collisions between machine tool head and sheet metal part
- Head position check (head out of working area)
- Handling of load/undload systems
- Automatic lead-in calculation and definition of cutting path
- Dynamic handling of head speed on edges

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Freedom to design ideas

Thanks to SI[TUBE] functionalities, the geometry of the part can be easily imported on the basis of widely known standards such as IGES and DXF™ formats, used respectively for three-dimensional and two-dimensional design.

The same software environment can easily and directly interface most of CAD systems used in the designing and machining branch.

The same software offers direct interfaces from most commonly used CAD environments of the industry.

The complete integration with the incorporated CAD system allows fast import of parts and fast creation of the 3D pattern to be cut.

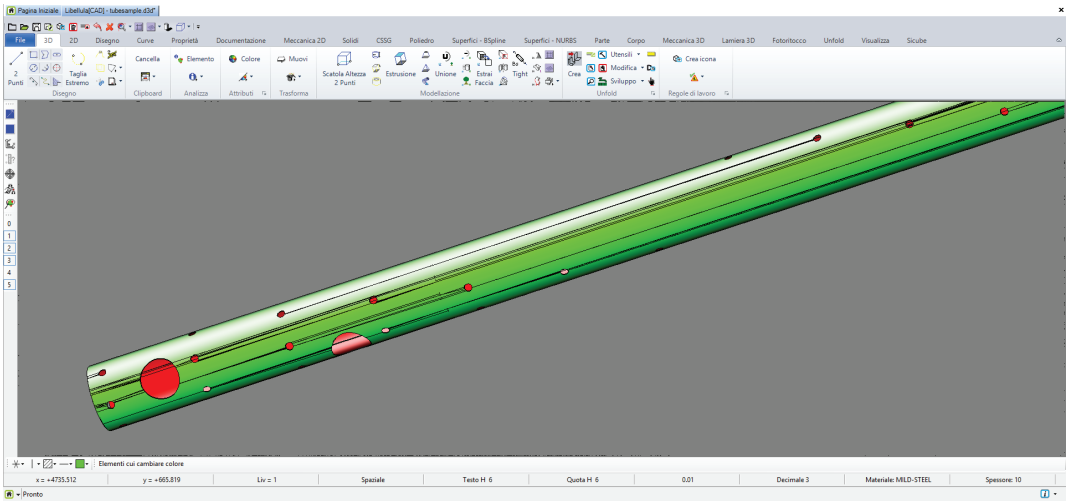
Once the 3D pattern has been created, SI[TUBE] defines cutting paths both in automatic or manual mode.

File formats imported by SI[CUBE]

Manufacturer	File Format
IGES	*.igs; *.iges

Optional file formats imported by SI[CUBE]

Manufacturer	File Format
STEP	*.stp; *.step
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



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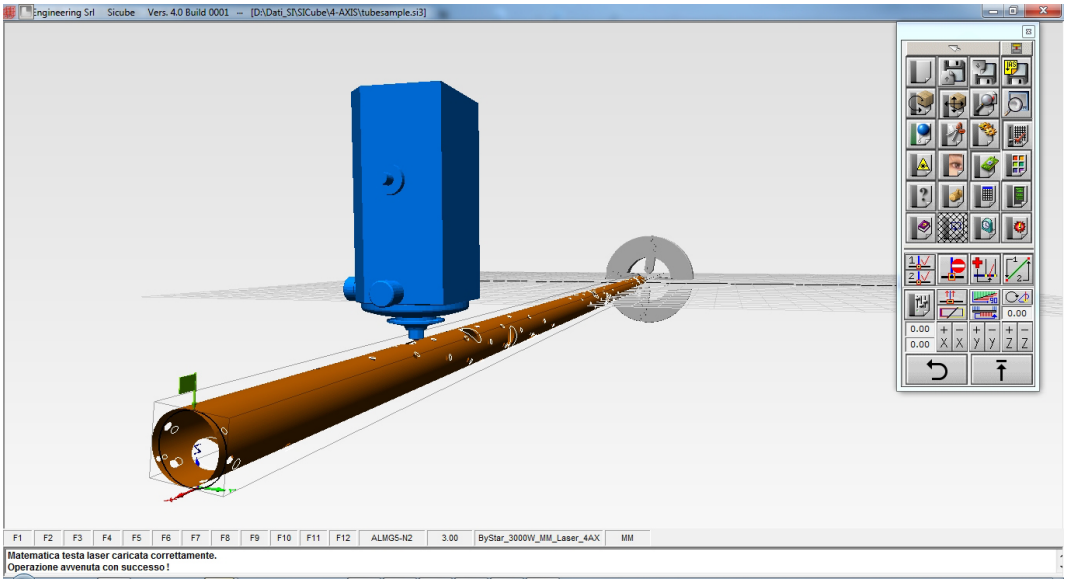
Safe cutting process



Highest accuracy in simulation
Before generating codes for the machine numerical control, it is possible to display a dynamic simulation representing the part, the fixing system and the cutting head.

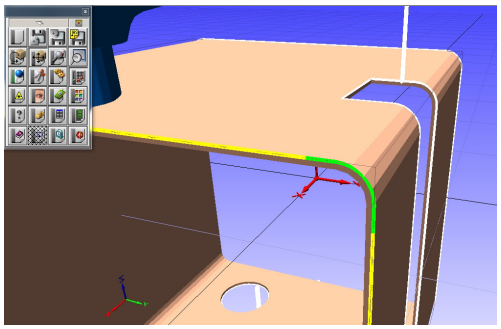
This realistic simulation of the cutting program and an automatic control process with visual warnings allows the user to easily identify any possible inconveniences: the operator can consequently validate the job or proceed with editing.

Available postprocessors

- BLM Adige Sala
- Prima Power
- Mazak
- LVD
- Trumpf
- Bystronic

Safe cutting process
SI[CUBE] automatically detects and optimizes cutting paths.

When handling square or rectangular edges of pipes and tubes, SI[TUBE] can adjust, either manually or automatically, the working speed of the cutting head.



Through extensive checks, the program ensures an exact cutting path and actively warns the user about any possible collisions between the laser head and the elements to be machined.

The definition of cutting paths and rake edges can be carried out according to both the internal or external surface of the pattern.

+12.000
Satisfied customers worldwide

+60
The countries we serve.

16.125
Installed licenses

29.654
Installed machines

70
A team consisting of qualified professionals, technical engineers and analyst programmers at the customer's service.

100%
Satisfaction guaranteed.

Our partners:
Rivoira-Praxair
Prima Power
Microsoft
and many others.

Microsoft Partner
Silver Independent Software Vendor (ISV)

Microsoft .NET

Windows 8 Compatible

Si Engineering

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