

| ENG |

# LASERTUBE LT8

www.blmgroup.com



BLM GROUP



# Lasertube LT8



## The new dimension

The ultimate expression of productivity, capability, and cost-efficiency in laser tube cutting. Infused with innovative thinking and intuitive technology, the **LT8** establishes an unbeatable new benchmark with its stunning performance, unique capabilities and forward thinking features. The **LT8** indeed - the new dimension in laser tube cutting.



# LT8

## a few highlights...



### PRODUCTIVITY

A prerequisite of the design brief for the **LT8** was creating a machine with a bigger capacity but without compromising performance at the smaller end of its capacity. In fact, through a perfect blend of unique tube handling techniques and smart machine management software, the LT8 delivers productivity rates, across its entire capacity range, that to date would have been thought impossible.

### ACCURACY CYCLES

To compensate for poor dimensional tube quality, these accuracy cycles automatically make the appropriate off-set adjustment ensuring cut features are positioned accurately.

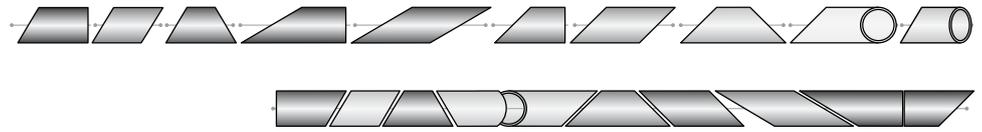


### OPEN PROFILES AND IRREGULAR SECTIONS

Open profiles including angles, flats, beams, channels etc. can be cost-effectively, accurately and automatically processed on the LT8, broadening its capability, market potential and cost justification.

### BOOSTER

Cutting performance is enhanced by a host of technological advances including the pierce booster which automatically optimises the piercing process.



## Nesting



### 3D

3-D machining capability is an absolute demand of the market when processing bigger dimensioned and thicker wall tube, this essential feature is available on the LT8 when the optional 3-D tilting cutting head is fitted.

### CLEAN CUT "SPOON" DEVICE

Where applications demand the highest degree of internal cleanliness, there is the option of the clean-cut 'spoon' device.

### TECHNOLOGICAL DATABASE

With over twenty years of laser tube cutting experience and thousands of installations, the Adige technological database offers its users a complete and fully proven set of cutting parameters.

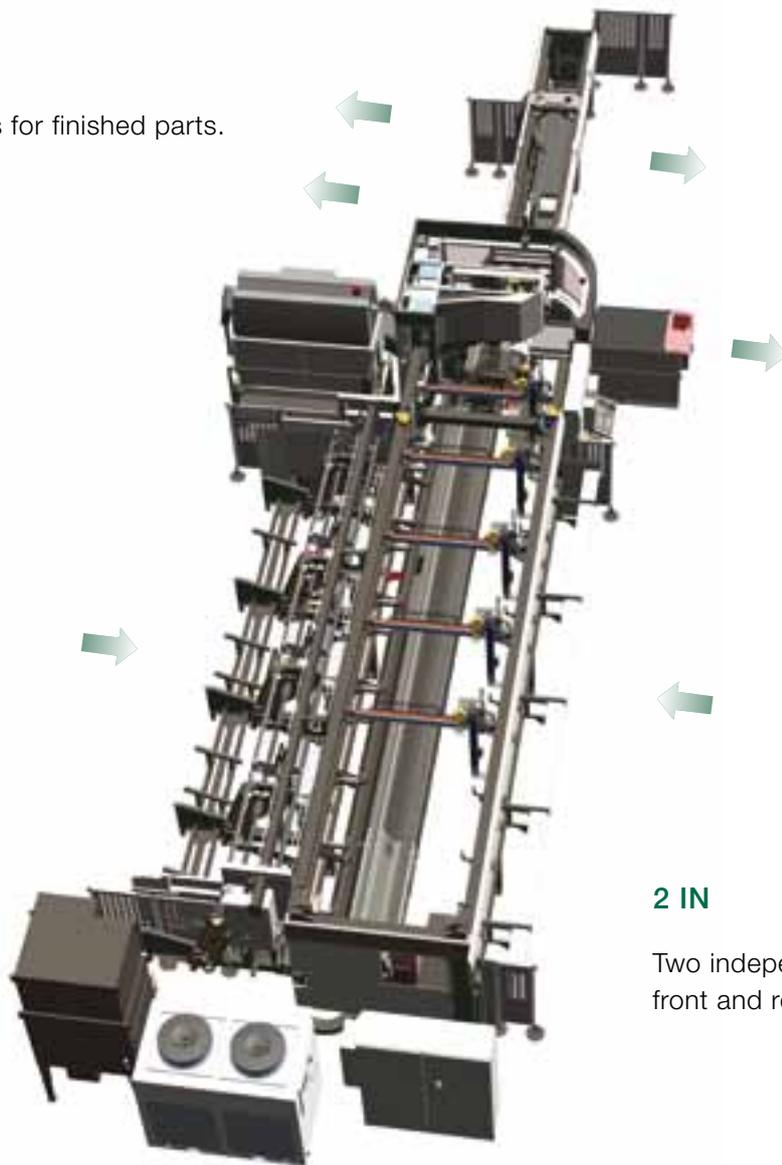
### NESTING

Component yield and tube exploitation are automatically optimised with the dynamic on-line nesting, scrap reduction cycle, and the option of no front-end or back-end trim.

# Tube handling

## 4 OUT

Four unloading stations for finished parts.



## 2 IN

Two independent tube loading stations, front and rear.



## LOAD

Dual loading from two independent tube loading stations, one to the front and one to the rear of the cutting line, offers such benefits as:

- two different jobs can run on the machine at the same time by simply switching between each loading station;
- prototypes, emergency jobs and short runs can be introduced and completed with minimum disturbance to production;
- material for the next job can pre-loaded whilst the existing job is being completed, minimising downtime between jobs.

At each loading station there is the choice to fit one of three automatic loader variants (a bundle loader, a single-bar loader, a step-by-step loader), so the loading arrangements can be configured to best suit the customer's needs.

The novel pre-load feature on the LT8 minimises the load-over time for a new tube.





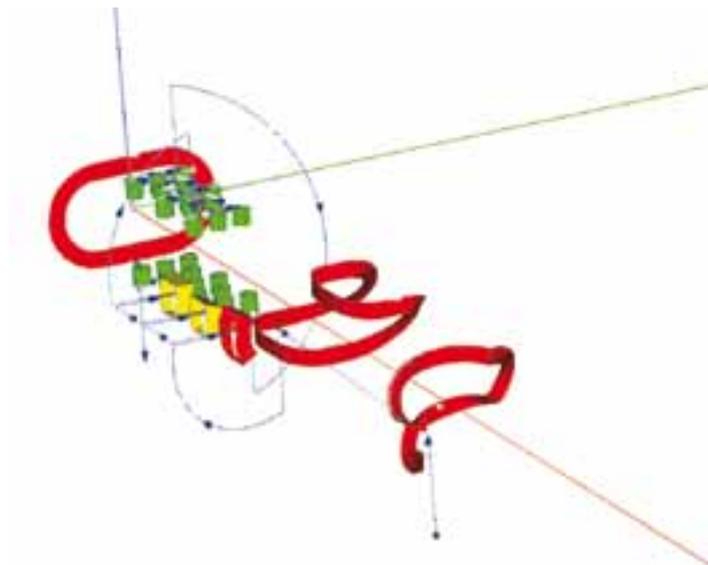


## UNLOAD

- there are four unloading areas for finished components. When cutting more than one component from the same stock, to optimise yield or cut in sets, the different components can be automatically segregated to different unloading areas. Also, automatically switching to an empty unloading area when the existing unloading area becomes full, allows production to continue seamlessly and for long periods;
- the finished component is positively removed from the cutting area to the designated unloading position by a shuttling extractor-vice; during this removal process the machine has already started the next component. The extractor-vice also: acts as a side support guide during the cutting cycle; positively removes the scrap end (especially beneficial for flats, angles, channels etc); removes longer, re-usable tube remnants to a pre-designated unloading area separate from finished components;
- to guarantee the maximum machining precision on heavy, long and complicated components, the tube is always fully supported along its entire length and throughout all the working phases.



# Artube, the difference



## SOFTWARE TO DESIGN, PROGRAM AND MANAGE

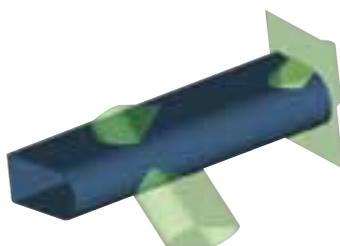
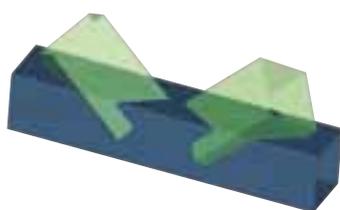
Artube is a three-dimensional, parametric, CAD-CAM package designed, developed specifically for tube applications. In just a few minutes it manages the complete process from initial concept/drawing through to the creation of the job programme being sent to the machine. The marriage of the Artube programming software with the laser systems of BLM GROUP amplifies the productivity potential of the LT8.

## IMPORTATION

Artube can import external file drawings in iges, step, x\_t formats, without additional drawing.

## E-SERVICE

Artube is supported by tele-service or on-line. Updates and new modules can be directly downloaded via the internet.



## ASSEMBLER

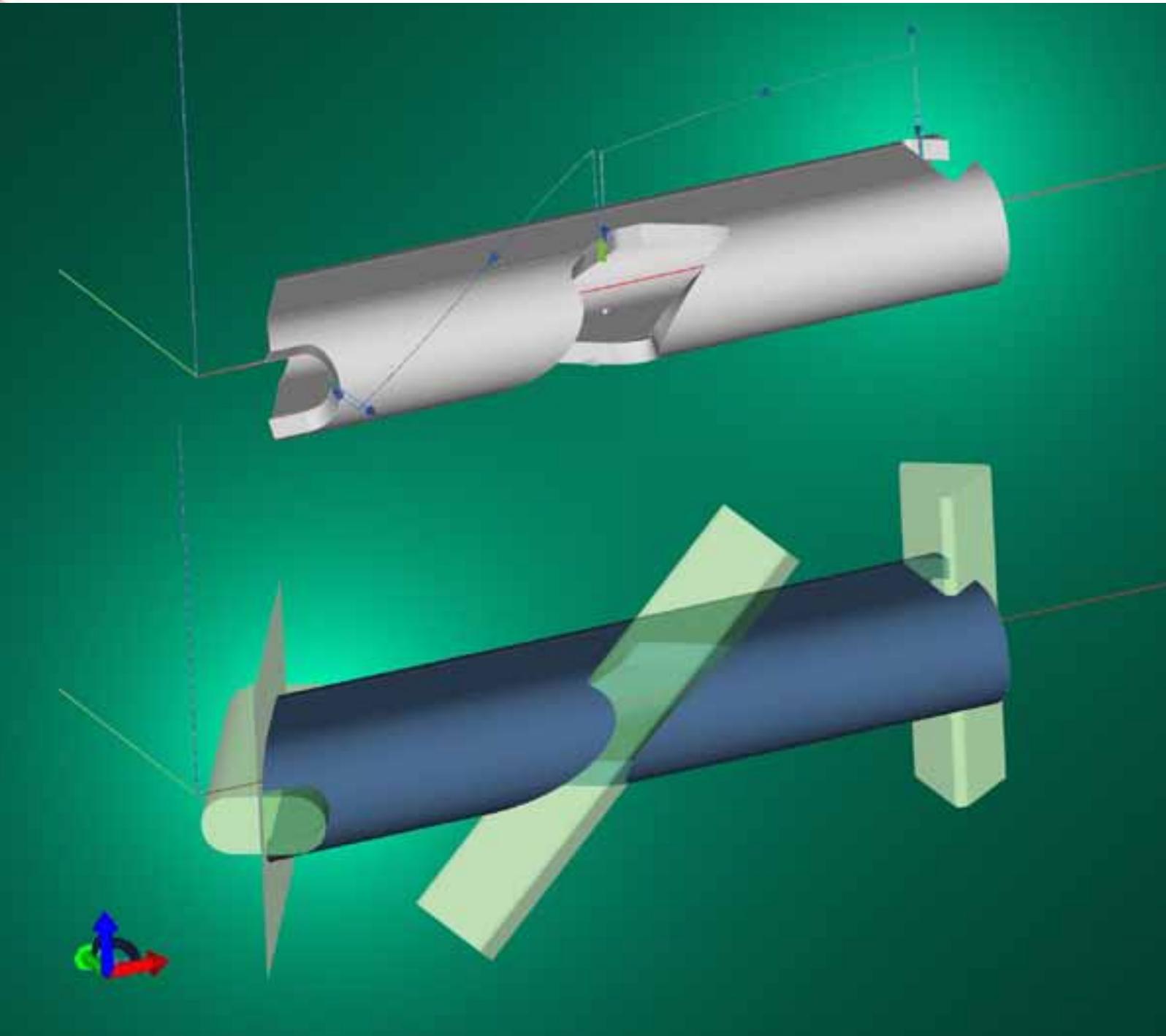
Three-dimensional parametric CAD-CAM software package that simplifies the drawing and the management of complex structures and complete frames.

## BEND CUT

A library of creative folding joints allowing frames to be designed and constructed in a more intuitive way to simplify: welding jigs, welding, final assembly.

## OPEN PROFILES

Artube can also manage the processing of open profiles such as channel, angle, flats as well as special sections and profiles.



# Technical Data

<b>Round tube</b>	12 mm - 220 mm
<b>Square tube</b>	200 x 200 mm
<b>Tube loader options</b>	6500 - 8500 mm
<b>Bar Weight</b>	max 35 Kg/m
<b>Unloader length options</b>	4500 - 6500 - 8500 mm
<b>Source laser power</b>	up to 3500W
<b>Digital CNC</b>	Siemens 840D Solution Line
<b>Options</b>	spoon, booster, weld seam detector, special tube shape, open profiles
<b>Standard materials</b>	steel - stainless steel - aluminium - other on request

## LASER SOURCE

LT8 is equipped with a DC series SLAB Laser Source from Rofin Sinar, offering a very high cut quality and low running costs through:

- the high beam quality (K-factor > 0,9);
- low maintenance cost (no moving parts in the resonator);
- reduced consumption of laser gases and electric power.





## LASERTUBE CUTTING SYSTEM

tube bending  
endforming  
sawing, deburring and washing  
cutting & end machining  
combined sheet and tube laser cutting  
handling  
3d measuring  
manufacturing cell  
non touch measuring systems  
process control software



BLM GROUP

ADIGE

### ADIGE S.P.A.

via per barco, 11  
38056 levico t. (tn), Italy  
tel. +39 0461 729000  
fax +39 0461 701410  
email: [export@adige.it](mailto:export@adige.it)  
[www.blmgroup.com](http://www.blmgroup.com)