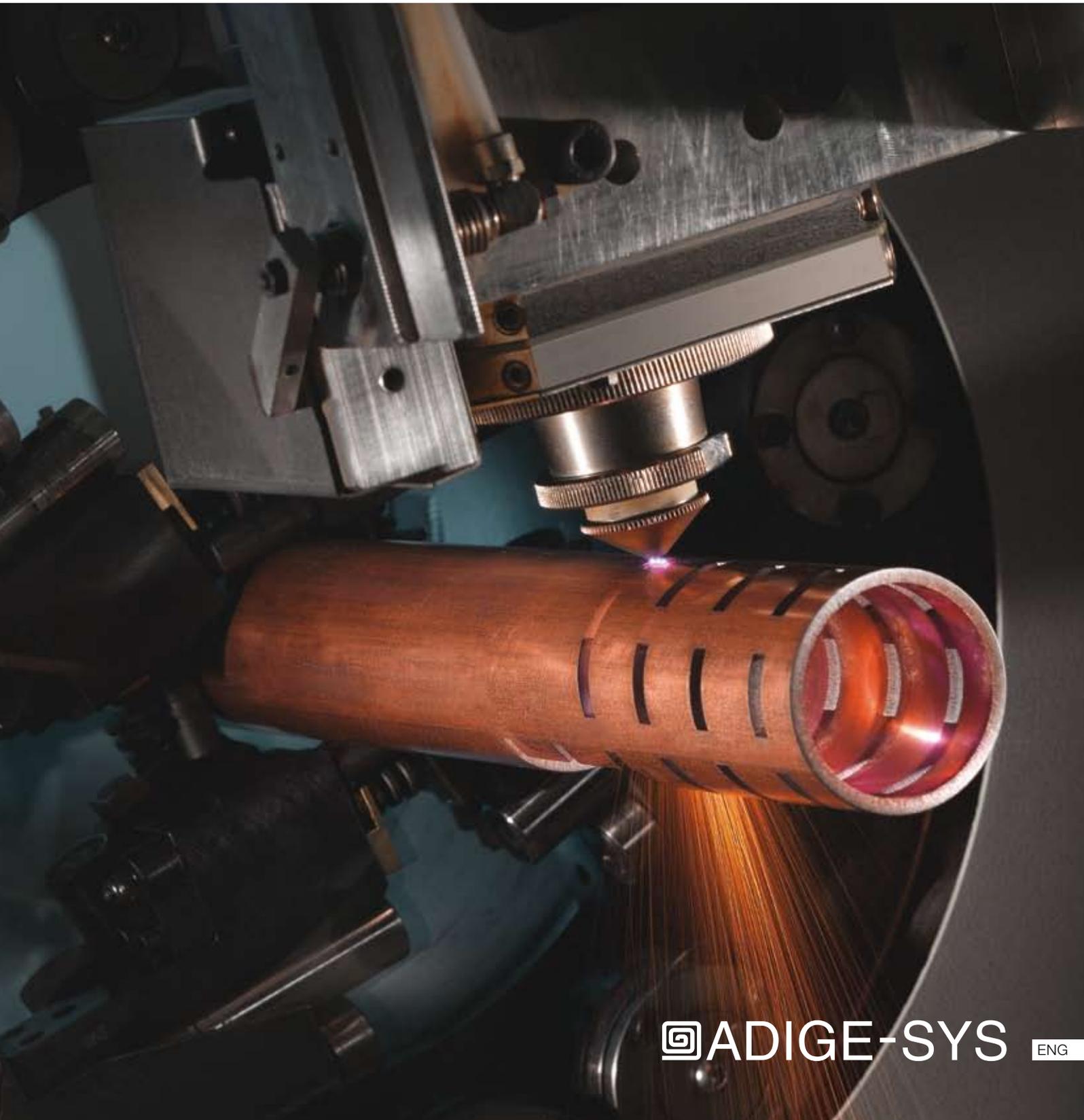


Lasertube LT COMBO Fiber



Lasertube

LT COMBO Fiber





The cutting of tube and sheet with fiber laser

LT COMBO Fiber is a combined automatic system for laser cutting tube and sheet, purpose developed for using a fiber laser source.

The characteristic flexibility of the **LT COMBO** is further enhanced by its ability to cut highly-reflective materials such as brass, copper and aluminium at the highest performances levels guaranteed by the fiber laser.



Fiber laser the new frontier



THE “FIBER LASER”

BLM GROUP has developed a family of laser cutting systems, specifically designed to maximise the excellent results delivered by “fiber laser” technology. The true “fiber laser”, with reference to ytterbium laser sources, is where the beam is generated directly inside the optic fiber itself. Other sources that have been used in the industrial field for some time, for instance the Nd-YAG lasers and the Disk lasers, generate the laser beam externally and then introduce and transport the beam via the optic fibre. The performance difference between these different sources is evidenced by comparing the certified measurement of the factor BPP (Beam Parameter Product) this shows the highest beam quality is guaranteed by the characteristics of the true fibre laser.

Adige-Sys's **LT COMBO Fiber** system underlines the advantages of the fiber laser sources, with the resultant benefits in unrivalled performance.



WHAT ARE THE ADVANTAGES?

Installed power and electric energy consumption reduced by a half to a third by comparison to traditional laser sources;

Higher beam quality delivers outstanding performance levels, comparable if not far superior to CO2 sources of much higher power;

Reduction of the maintenance costs due to the less complex design of the laser source and the optic path;

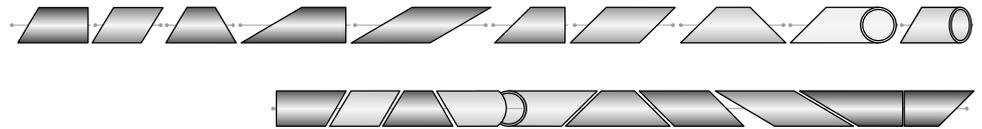
Processing of highly-reflective materials such as copper and brass, opening up new potential markets that until now have been excluded from the laser cutting process.

Flexibility two systems in one



TUBE PROCESSING

- **Automatic working cycle.** LT Combo Fiber is a fully automatic tube processing system, from the automatic loading and measurement of stock length of tubes through to the automatic unloading of the finished components.
- **High precision.** The processed tubes are supported by two self-centering chucks each with eight clamping jaws to guarantee an extremely reliable and precise support of the tube.
- **Zero scrap.** The movement of both chucks allows the tube to be machined along its entire length without a front trim or rear scrap end.
- **Patented universal supports.** The tube is fully supported on the loading and unloading lines by universal supports which adapt to the different tube sizes without the need for any exchange mechanical parts.



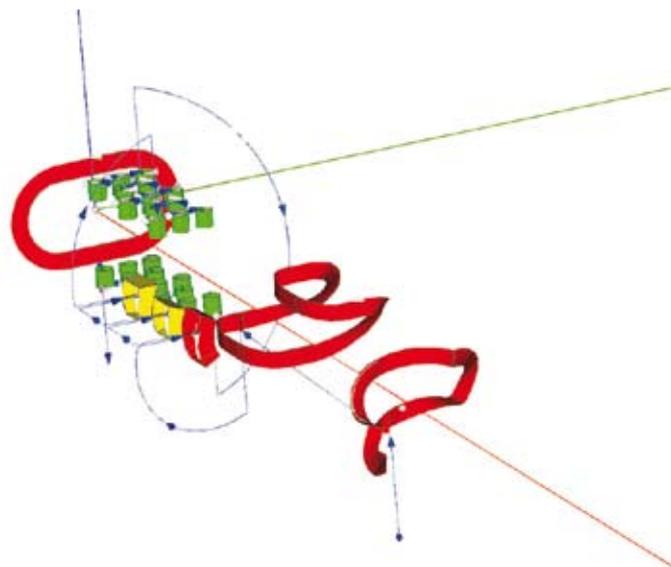
Nesting



SHEET PROCESSING

- **Performances.** Mild steel up to 20 mm with excellent quality, aluminium cutting (series 6060 and 1050) and stainless at high speed, copper and brass cutting up 5 mm.
- **Set-up time.** The changeover time from sheet to the tube working and vice versa is less than 2 minutes.
- **Cutting Parameters.** The fully proven cutting technology contained in the parameters data base supplied with LT Combo Fiber evolves from over 10 years experience in the laser cutting applications by Adige-Sys' technicians.
- **Un-attended working of the sheet.** Automatic sheet loaders and tower storage systems offer the possibility of lights-out operation.

Artube, the difference



SOFTWARE TO DRAW, PROGRAM AND MANAGE THE TOTAL PROCESS

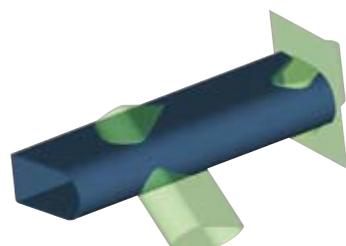
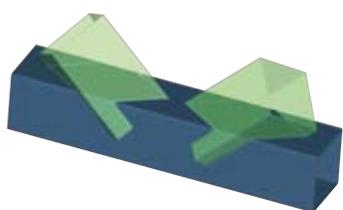
Artube is a three-dimensional, parametric, CAD-CAM package designed, developed and dedicated for tube applications. It manages the complete process from initial concept through to the creation of the job program in machine language. The marriage of the Artube programming software with the laser systems of BLM GROUP amplifies the productivity potential.

IMPORTATION

Artube can import external file drawings in iges, step, x_t formats.

E-SERVICE

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



ASSEMBLER

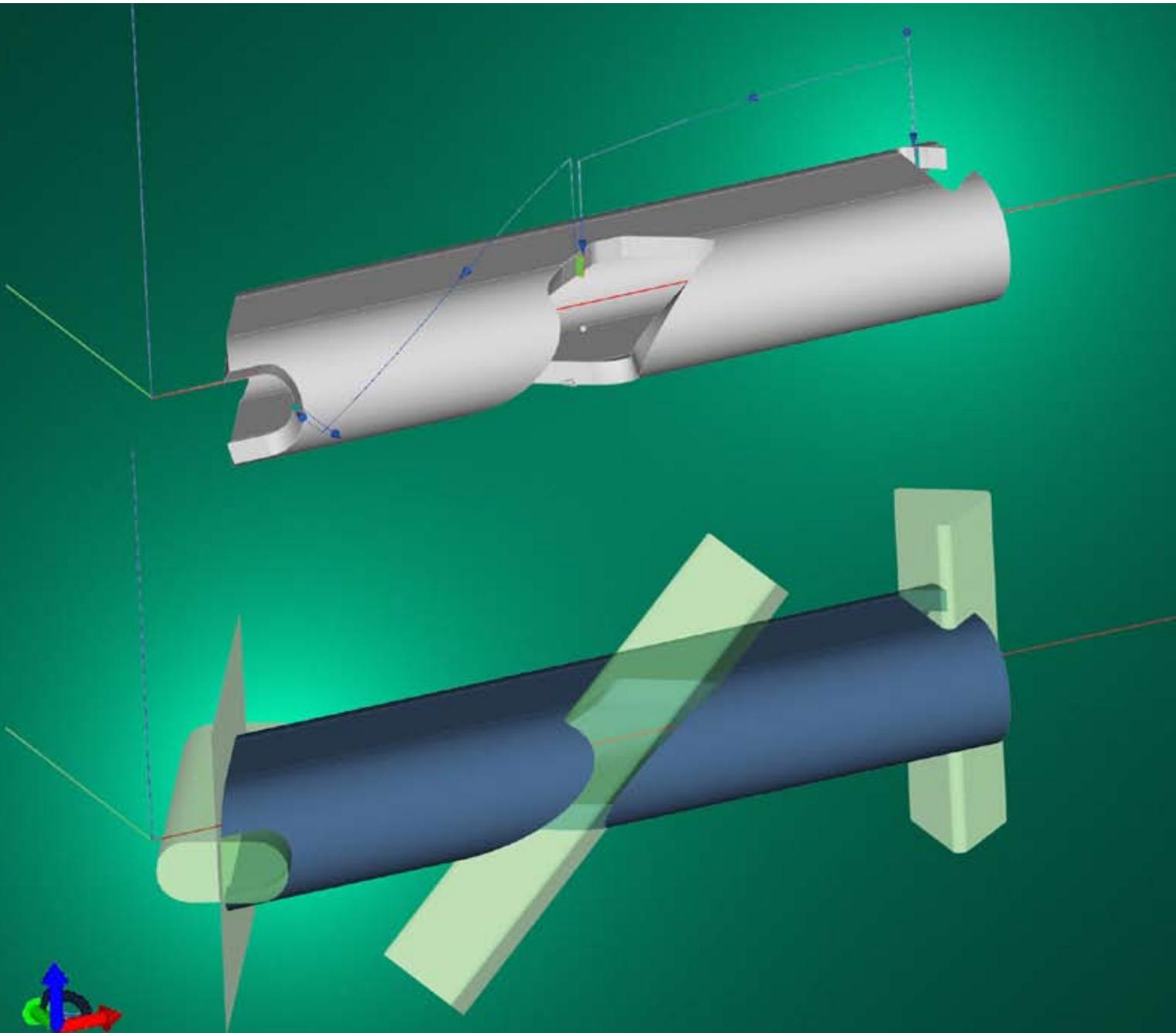
Three-dimensional parametric CAD-CAM software package that simplifies the drawing and the management of complex structures and frames.

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 and final assembly.

OPEN PROFILES

Artube can also process open profiles such as channel, angle, flat and special sections or profiles.



Technical Data

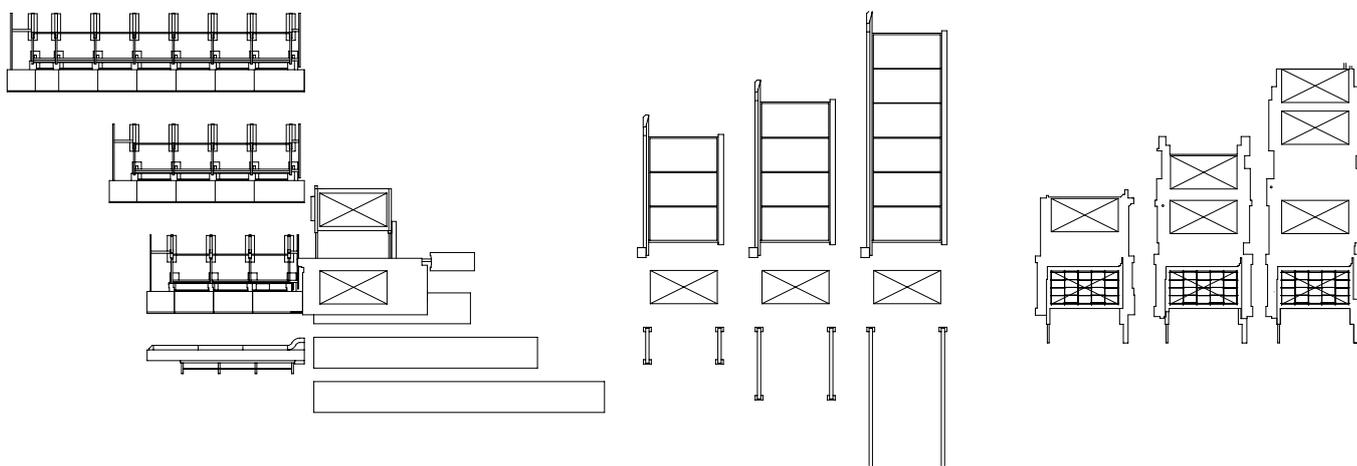
TUBE

Round tube	min 16 mm - max 225 mm
Square tube	min 16 x 16 mm - max 160 x 160 mm
Rectangular tube	min 16 x 16 mm - max 200 x 100 mm
Stock length	6500 - 8500 - 12500 mm
Discharge length	6500 mm
Tube weight	200 Kg (35Kg/m on 6500 mm)
Special section	channel, flats, angle and other sections on request

SHEET

Dimensions	3000 x 1500 mm
Maximum thickness	20 mm
Maximum speed	120 m/min
Positioning precision	0,05 mm
Re-positioning precision	0,03 mm

LASER SOURCE: IPG YLS 2000 (2kW) or YLS 3000 (3kW)





BLM GROUP



LASER CUTTING FOR SHEET AND TUBE

tube bending

endforming

lasertube cutting system

sawing, deburring and washing

cutting & end machining

handling

3d measuring

manufacturing cell

non touch measuring systems

process control software

ADIGE-SYS

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