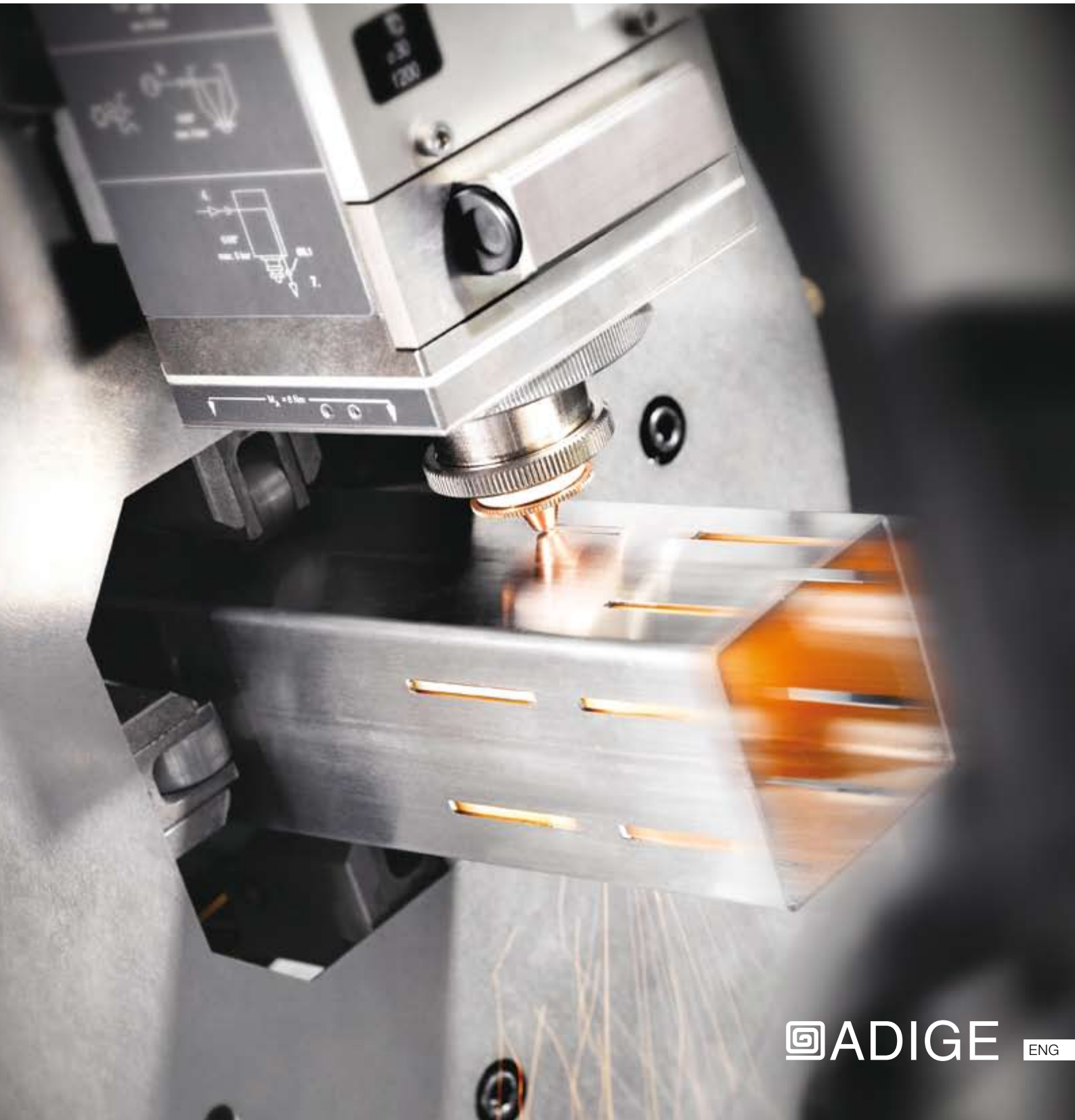


Lasertube LT5





Lasertube LT5



LT5 is the compact machine of the lasertube family and is specially designed for cutting tubes with small and medium thickness. Equipped with a fiber laser generator, it can cut a wide variety of materials with high productivity and quality level.

Low operating costs, extreme ease of use and high reliability are the most important features of this system.



The lasertube system



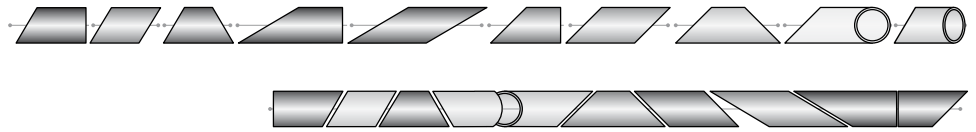
PRODUCTIVITY AND PERFORMANCE

- the synchronised operation of all the sub-systems of the machine results in high productivity without any time loss;
- the high reliability of the machine and the cutting permits unmanned machine operation;
- the production changeover takes only a few minutes thanks to the simple adjustments conveniently located in the same area of the operator.



EFFICIENT HANDLING OF TUBES

- the large-capacity loader is designed to automatically handle bundles of tubes (round, oval) as well as packages of square and rectangular tubes;
- length of each tube is measured during the pre-loading phase. This information is used by the machine to optimise the nesting and minimise the end scrap;
- the tube is supported and guided during each phase to ensure the maximum accuracy of cut parts and protect the tube surface from scratches.



Nesting



SEPARATION OF CUT PARTS

- unloading operation can be programmed to unload cut parts either on the front side or on the rear side of the machine. Different types of pieces can be automatically collected in separate containers placed in the unloading area. This saves a lot of time and handling;
- a conveyor belt can be installed at the rear side, to unload short-length cut-pieces or to collect scrap and end-pieces.



THE ADVANTAGES OF THE FIBER LASER

- in addition to mild steel, stainless steel and aluminium alloys, fiber laser can also cut copper and brass;
- the higher cutting speeds offered by the fiber laser enhances the production capacity of the machine;
- higher wall plug efficiency lowers power consumption and hence considerably reduces the installed power requirement;
- maintenance free.

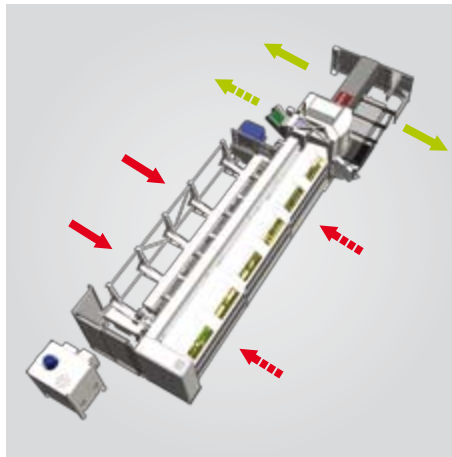
User friendly



The integration of electric cabinets on one end of the machine allows access and passage on both sides along its entire length.

Large doors with double opening at the front offer easy access for adjustments and maintenance.

The operator console can be easily turned so as to have the complete visibility of the cutting process at all times.



Multiple independent tube loading and unloading stations improve flexibility and batch scheduling.

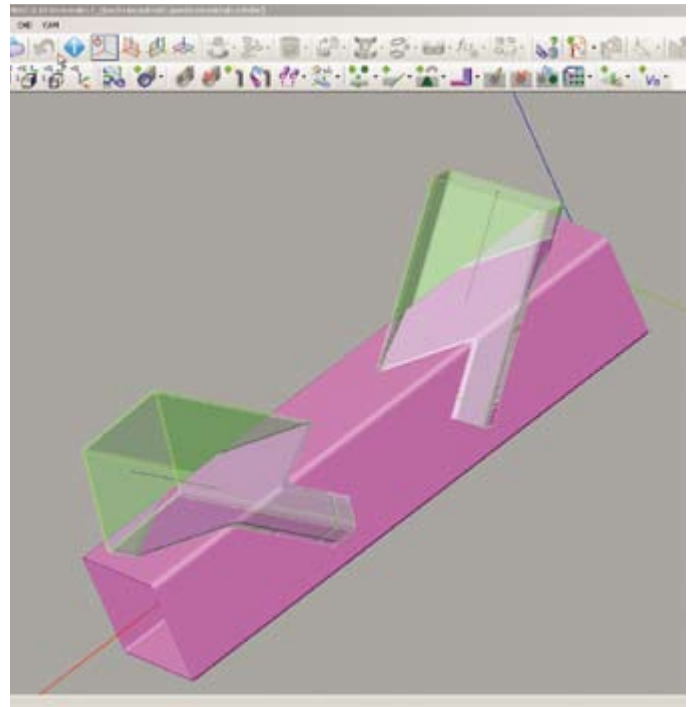
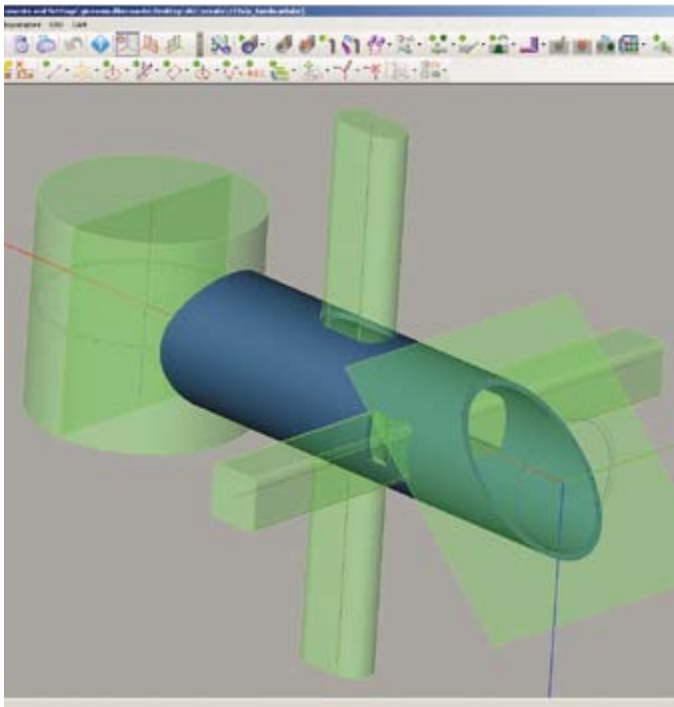
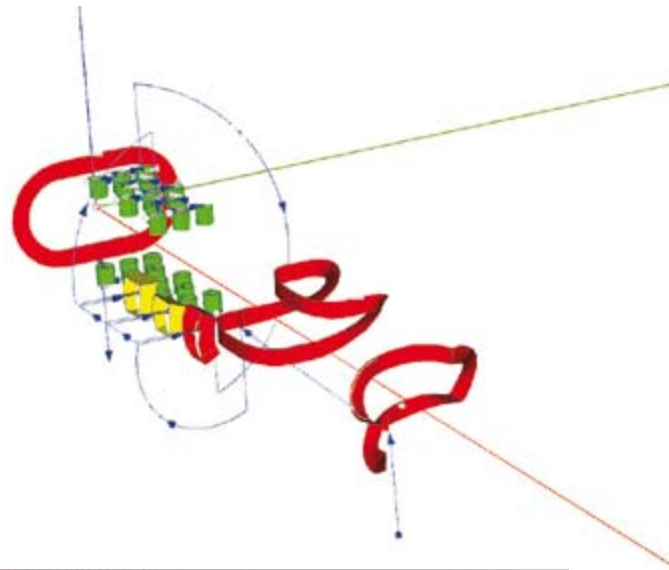


If the end-use requires tubes with clean internal surface, a specifically developed device called spoon is available (for round tubes only) to collect the metallic powder generated during cutting process.



Optional chain conveyors can be installed on both sides of the machine to carry the cut pieces at a convenient height for easy collection.

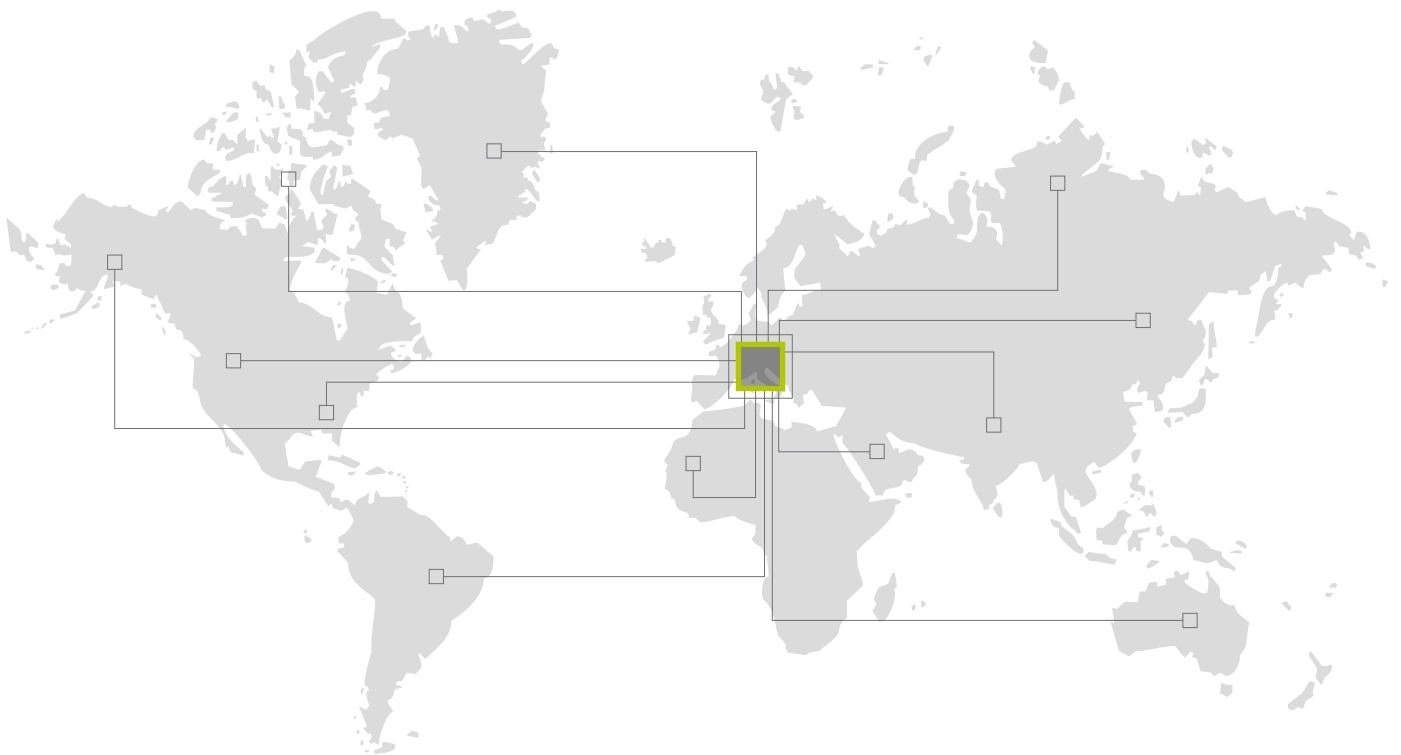
Artube, the difference



DRAWING, PROGRAMMING AND PROCESS/PRODUCTION MANAGEMENT

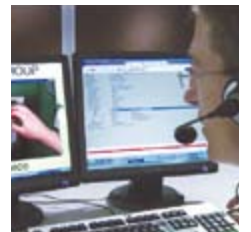
- BLM has developed a dedicated CAD/CAM package called ARTUBE for laser tube cutting. Its three-dimensional environment, user friendly menus, and a rich library of commonly used operations on a tube allow the user to exploit all the machine functions during the design phase of the workpiece;
- once created, the cutting program can be simulated in the three-dimensional graphical environment and a fairly accurate estimate of cycle-time and cost per piece is automatically provided;
- a further software called Protube is then available to optimise the production sequence of several lots and to have a remote access to the machine.

After sales service is our commitment



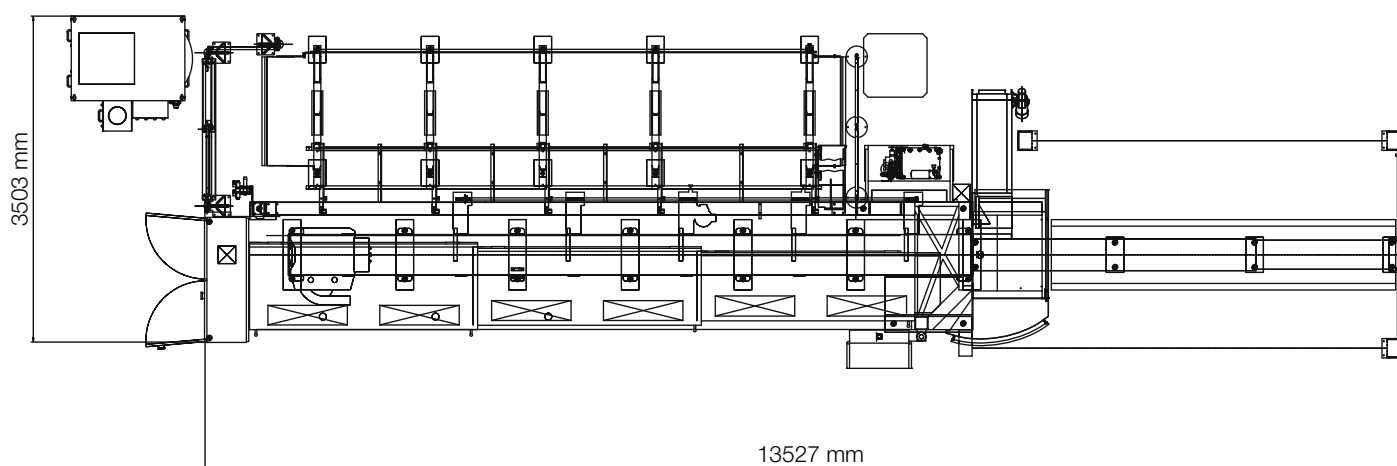
EXPERIENCE AND TOOLS AVAILABLE FOR OUR CUSTOMERS

- all BLM GROUP machines can be remotely connected thro'internet with BLM's service technicians; in this way it is possible to have a quick and preventive diagnosis and the certainty to quickly receive the required support;
- additionally, whenever required a two-way video connection can be established with the machine operator to understand his difficulties, indentify the problem and to solve it at the earliest;
- the BLM GROUP is considered to be an undisputed reference in the field of laser tube cutting and is an ideal partner for a wide range of tube processing technologies. Its presence the world over through a vast network providing sales and service support allows Customers to always obtain the best performance and quality from all the installed systems.



Technical Data

Round tubes	min. 12 mm - max. 120 mm
Square tubes	min. 12 x 12 mm - max. 100 x 100 mm
Rectangular, flat oval, semiflat oval tubes	min. 10 x 12 mm - max. 120 x 70 mm
Standard materials	mild steel - stainless steel - aluminium - copper - brass
Length of raw tube	min. 3200 mm - max. 6500 mm
Bundle loader capacity	4000 Kg
Unloading length	4500 mm
Number of digitally controlled axes	6
CNC	Siemens 840D
Fiber laser power	IPG 1 kW
Installed power	33,5 KVA
Average power consumption	10 - 16 kW





BLM GROUP



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

ADIGE

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