The tube processing technology



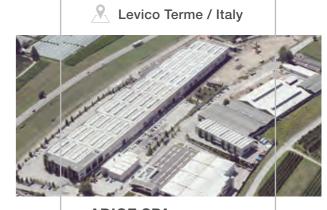
LASERTUBE
BENDING
SAWING AND END MACHINING
ENDFORMING
SOFTWARE

WWW.BLMGROUP.COM

Ours is a history of technology, passion and service. For over 60 years we have produced tube fabrication equipment (laser cutting, bending, endforming, sawing and end machining), combining both experience and innovation, to produce efficient and easy to use machines of the highest "Made in Italy" quality.



BLM SPA
Bending and
endforming systems
190 employees



ADIGE SPA
Tube laser cutting
systems and cold saws
180 employees



Help is never far away.

Talk to the BLM GROUP sales network

If you have questions of how to make your tube fabrication more efficient you will always find an expert who can speak your language and answer your questions.



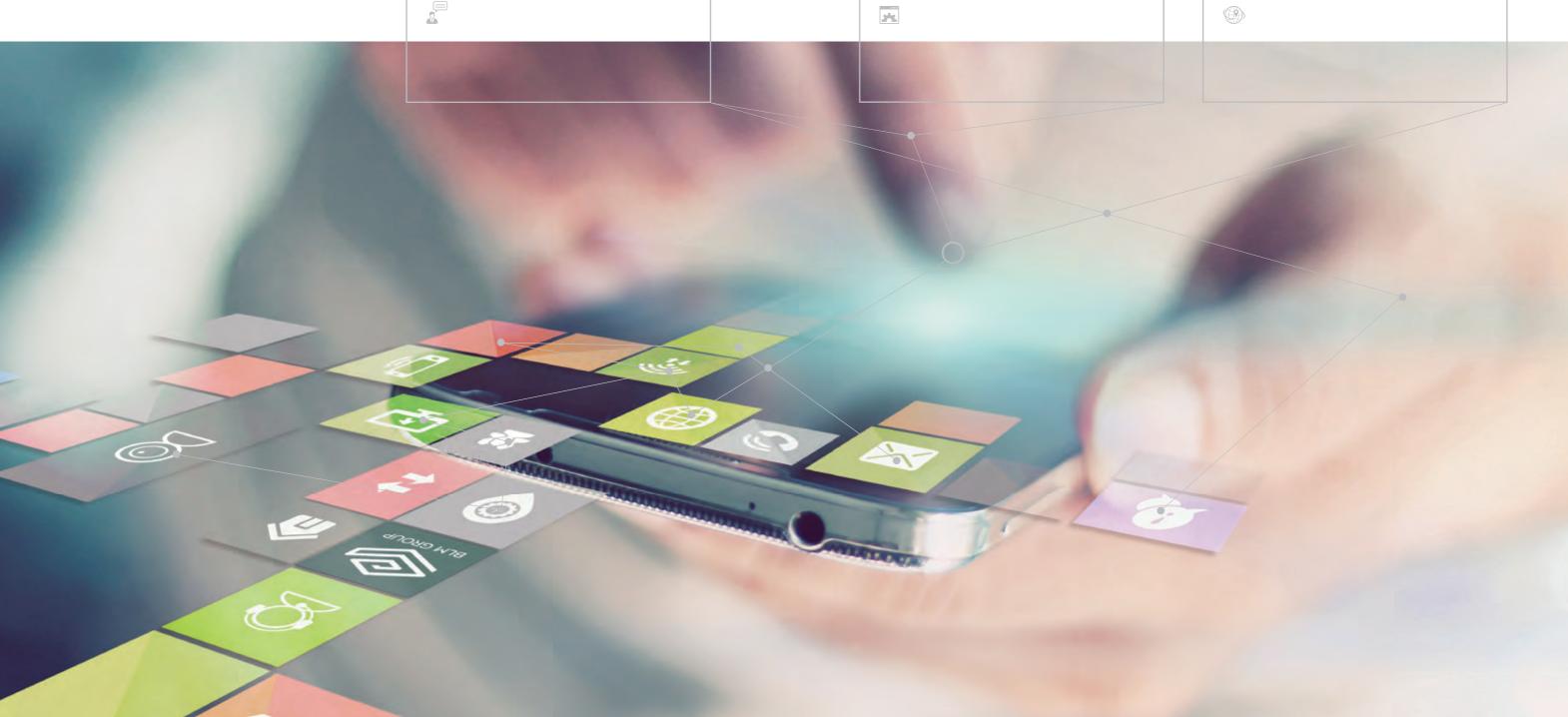
Speak with BLM GROUP service network

With one phone call you can reach the BLM Group's team of service and tech support experts who will answer your questions and resolve your problems.

Worldwide Network

Locate your local BLM subsidiary or agent to receive personalized service from factory trained technicians.





The concept of innovation isn't limited to just new products or optimized technologies. It is most valuable when the innovation provides the user with the means to improve the efficiency and effectiveness of their own production processes.

Quality components, good equipment is assembled from quality components that have proven reliability and are readily available worldwide.

Ecosustainability, thanks to innovative electrical designs and the savings of fiber lasers our machines are clean, quiet, and energy efficient.

Ease of use, new users are able to quickly become familiar with machine operation. A step by step guide is available on the machine assist operators.

Integration of systems into a single process. Machines are designed to automatically compensate for the variations in tube and the changes that occur to parts during processing.

Control of the entire process, use your computer or smart phone to monitor production in real time.

Commitment to result, our extensive understanding of feasibility, cycle times and tolerances is how we earn the trust to be a partner you can rely on.

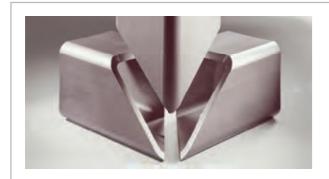


Lasertube

This flexible cutting tool offers new capabilities and unlimited opportunities.

It can do what you previously only imagined

Laser can cut any feature size or shape in all different shaped tubes. This provides new design freedoms to create products that were previously unthinkable. The efficiency and flexibility of laser tube cutting expands design freedoms to develop new, high quality, products all while reducing 'time to market'.



It is also efficient with the production lot size = 1

Traditional fixed tooling costs for punches, drills, clamps, jigs and fixtures are eliminated. Now go from 3D CAD program straight to finished part because the laser beam is the universal tool.

It is able to achieve piece part cost reductions up to 70%-80%

Speed up assembly by using 'tab and slot' joints. Reduce part count via 'bend and fold' designs. Obtain tighter working tolerances and precise part fitment.

Consolidate manual fabrication steps; saw, drill, mill, grind with one automated process, laser tube cutting.



Years of experience and thousands applications allow us to offer the most suitable laser tube solution to each individual need. By understanding which capabilities that you need, we can offer you the choice of one of our 15 products will best fit your needs.

From 12 to 610 mm diameter (.5" to 24")

From tubes to open profiles > an "all road" laser tube.

he maximum tube size and its shape (round, square, rectangle, etc.) are two elements that determine which model is best. Many of the machines are designed to process special shaped tubes, plus concave profiles and open shapes (angle iron, I-beam, flat bar).

For both tube and sheet metal

Combination machines that laser both tube and sheet are the perfect solution when, for space or production volume reasons, two separate machines cannot be justified.

A single laser source and cutting head can automatically change from sheet to tube cutting without the need of a tooling changeover.

Cutting geometries without limits: 2D or 3D

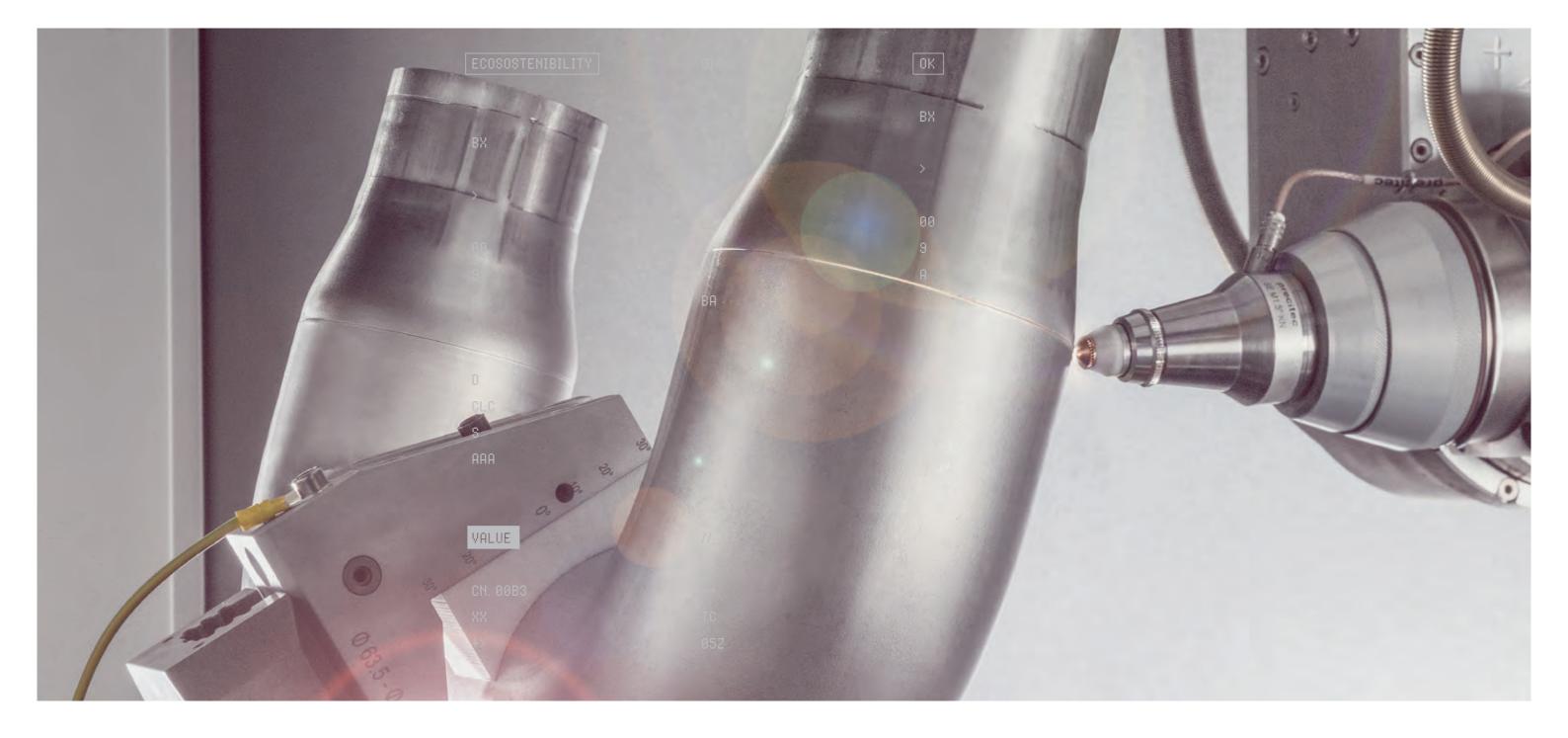
Sometimes you may have the need for non-orthogonal (tilt) cutting. This may be particularly important certain weld preps or when the cut parts are to be brazed or tig welded to tight tolerance. It is also useful when cutting 3D assemblies, hydro formed parts or bent tubes. 5 Axis cutting give you're the freedom of motion you need to make your difficult parts.

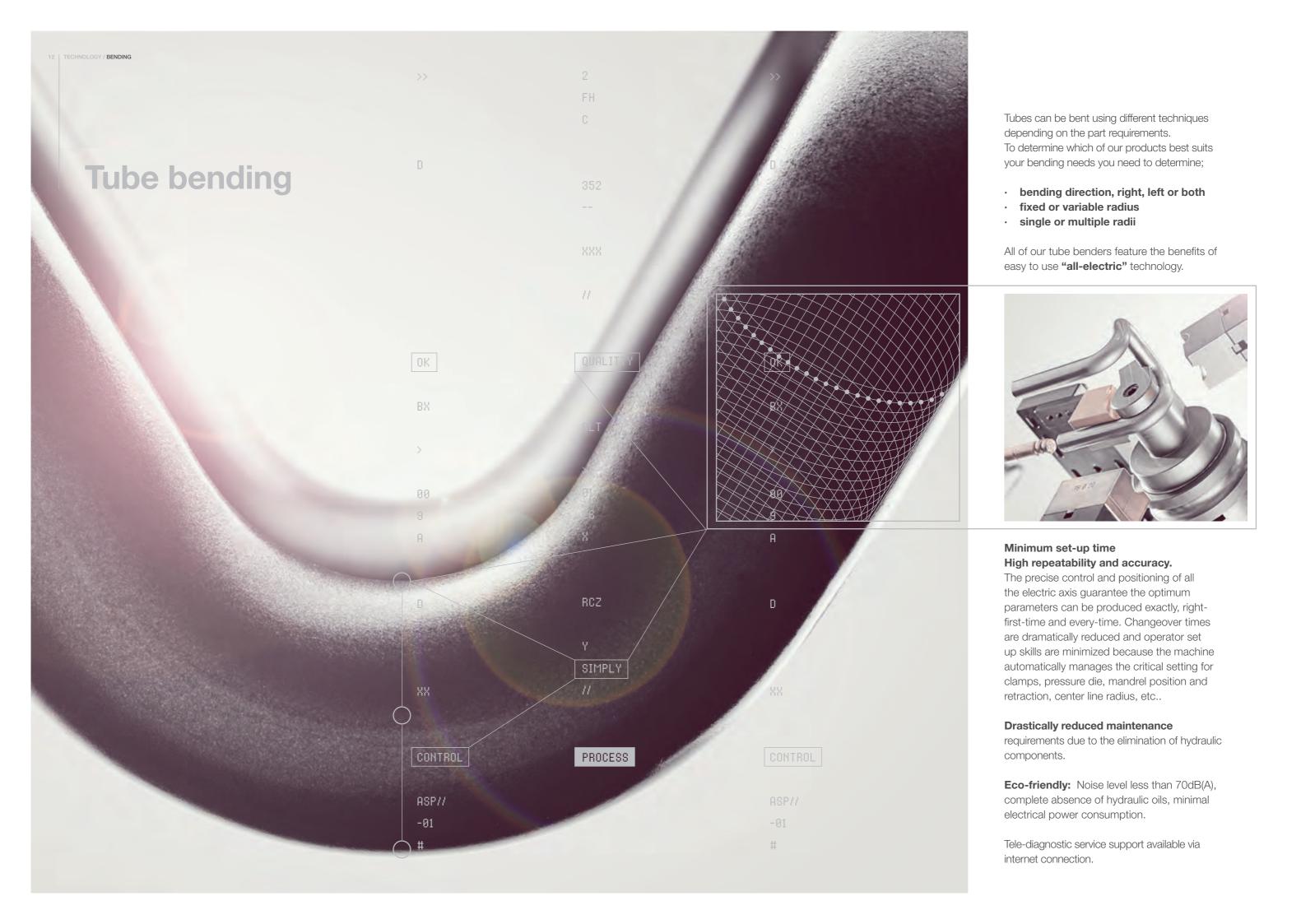
CO₂ or Fiber: take your pick!

A fiber laser source provides a number of benefits when compared to traditional CO2 resonators.

- · significantly lower electrical power consumption
- · no mechanical parts that are subject to wear, and therefore a sharp reduction of scheduled periodic maintenance
- greater cutting efficiency due to the shorter wavelength of the laser beam
- cutting highly reflective materials such as brass, copper, aluminum and titanium







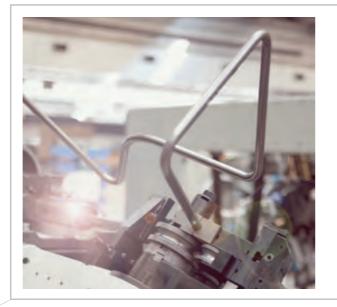
BLM has taken our years of expertise and knowledge to provide a CNC control that has the tools to deal with these variables and to provide the features needed for a wide variety of industries.



Right the first time

Thanks to a powerful algorithm our benders can compensate for tube spring back and elongation. The operator creates a program straight from the print dimensions. It can be for either fixed or variable radius bending.

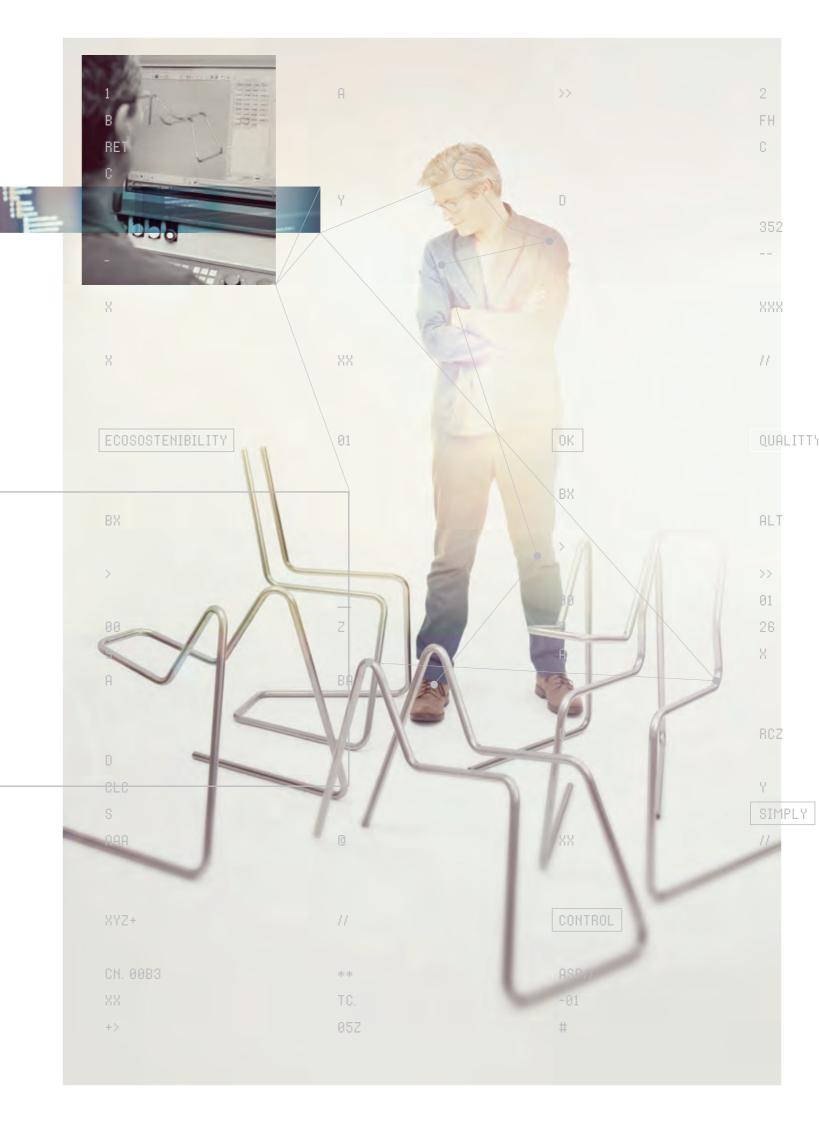
The machine then safely and automatically generates the corrected executable program by looking at the previous bending experience in its database and applying the corrections needed to ensure that the first piece is right. This eliminates the wasteful 'trial and error' adjustments traditionally needed to produce the desired result.



Complete production process

The integration of the tube bender with other equipment can create an automated system that optimizes the production process; simplifies part handling, eliminates intermediate steps, reduces part production time and eliminates the need for additional equipment. These systems can feature;

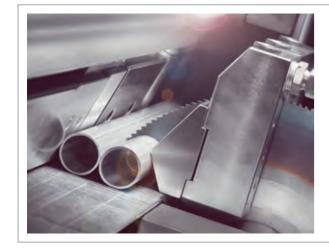
- · automatic loading and unloading systems
- laser cutting or drilling
- endforming systems that create flanges, countersinks, tapers, combining rolling, deburring and trimming.



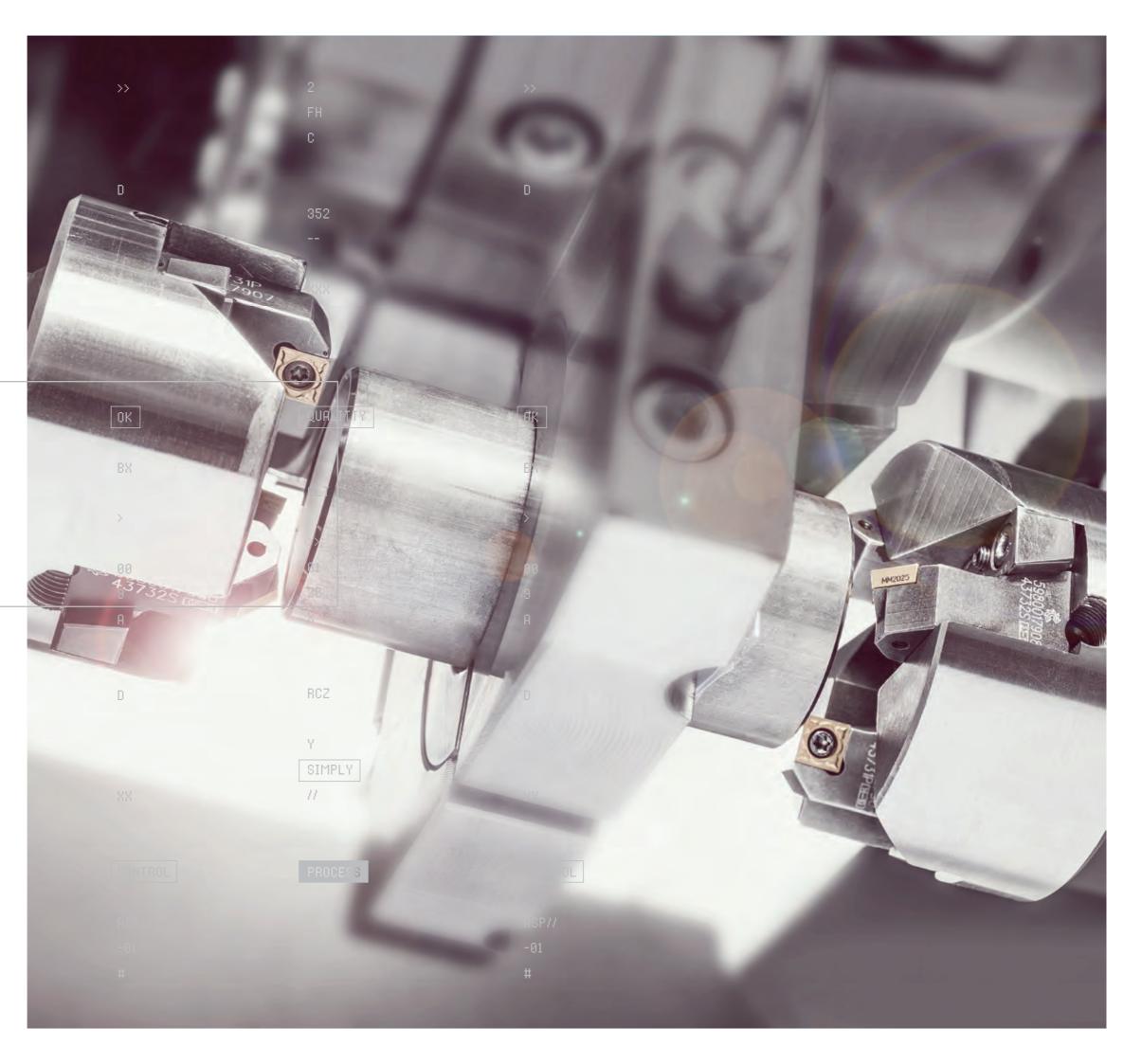


End finishing and cutting

Our integrated cutting systems can automatically process tubes or solid bar providing parts that are sawed from a bar, brush deburred, washed, dried, measured collected and even palletized.



But not only that: we can also integrate all necessary machining operations to automatically chamfer, face, turn, thread, and axial or and radial drill a part.



All-In-One tube technology

BLM GROUP understands tube manufacturing technology and knows how to integrate compensation (elongation, spring back, radial growth, etc.) to automatically correct and insure that the part will meet its final geometric tolerance.

We are a single source for the management of all the phases of the entire tube fabrication process: laser cutting of straight tube > bending of laser cut tubes > laser cutting of bent tube.



From design to production in one click



Software is the core element around which we have built an efficient and effective real time production

BLMelements is the single point on which we integrate all of our capabilities:

• it is a completely new CAD/CAM environment that













VGP3D



ArTube ProTube Enterprise Composer

PartViewer ProTube Express

Licence Console

is able to not only to program a single machine but to manage multiple technologies (laser cutting, bending, sawing)

• it has an accurate simulation environment for quoting and production planning.

• it provides a real time production-scheduling / monitoring environment for all machine types, that runs on mobile devices (smartphones and others) and that allows you to have an eye on the progress and efficiency of the whole process.

