



## The technological solutions proposed by BLM GROUP at BIEMH 2022

BLM GROUP will be exhibiting at the 2022 edition of BIEMH, the international trade fair for machine tools and advanced manufacturing, celebrating its post-pandemic return to the Bilbao Exhibition Centre June 13-17. The BLM GROUP will be in Hall 5, Stand A-23 presenting the following systems.

### **LT7, the high-end Lasertube system and the undisputed laser tube cutting benchmark**

LT7 is the result of years of investments in technological research and the continuous development of innovative software and hardware solutions.

The machine is equipped with a 3 kW IPG fibre laser cutting source, an automatic loading system for 6.5 m or 8.5 m tubes from bundles and an unloading system for tubes up to 4.5 m, 6.5 m or 8.5 m in length.

The LT7 machine can process pieces from 12 to 152.4 mm in diameter and up to 23 kg/m in weight ensuring excellent process performance.

From the smallest to the largest diameter, all adjustments are automatic and also sections with “L”, “U” and other open profiles. Flat bars are standard jobs and are processed in fully automatic mode. The laser source allows great flexibility of thicknesses and materials, from 12 mm of mild steel to 4 mm of brass. 3D processing completes the framework of an extremely flexible system able to manage the widest array of applications.

Productivity, quality and accuracy, flexibility and automatism, ease of use, for each of these aspects LT7 has advanced solutions that fear no comparisons.

LT7 VIDEO <https://www.youtube.com/watch?v=qyhOlvnfD5M&t=15s>

### **LS5, the 12kW sheet metal laser cutting, is ideal for unmanned operation 24 hours a day, 7 days a week**

LS5 is a high-end, fully automatic, flexible and productive sheet laser cutting system. It is equipped with an IPG fibre laser source of up to 12 kW and a Precitec Zoom 2.0 head. It is available in several configurations (3000 mm x 1500 mm, 4000 mm x 2000 mm and 6000 mm x 2000 mm) with an in-line or transverse pallet changing system.

The LS5 can be equipped with Active Tools, a compiled suite of cutting-edge technical solutions created from BLM GROUP's vast experience in laser cutting, ensuring the best results in less time regardless of the operator's experience: Active Piercing for increasing cutting performance on thicker materials, Fly Cut for reducing the processing time of grids and geometry sequences by up to 70%, and Active Nozzle Changing for automatically replacing the cutting nozzle and monitoring its wear status.



The entirely automatic tube module can be quickly installed, even after purchasing the sheet module, while automatic sheet loading and unloading systems and magazine towers can be added at any moment making this system extremely versatile and capable of adapting to the most diverse production needs.

The machine on show is an LS5 3015 (12 kW) with longitudinal pallet changer, equipped with the ACFS automatic sheet loading and unloading system for performing intensive, unmanned operations safely.

VIDEO LS5: <https://www.youtube.com/watch?v=YuocgbqYfP8>

### **The first part is right with the All-Electric E-TURN tube bending machine**

E-TURN was created to meet the market's growing need for multiform tubular components made of high-quality materials and in medium-small batches and is particularly suited for complex parts without straight sections between the bends.

Versatile and suitable for every need, E-TURN provides fixed or variable radius, right and left in process and multi-radius bending and can fit up to 8 bending tools stacks simultaneously, placing the variable radius at any level.

The high-quality standards of E-TURN are the result of the in-process material reaction control and the all-electric management of the working parameters. Furthermore, with B\_Tools, E-TURN compensates for elongation and springback during bending, to obtain the first part right with each new production.

E-TURN is offered in different sizes for tubes up to 52 mm in diameter with the flexibility and speed to make it ideal for all end sectors including furniture, automotive, motorcycle, aeronautic and plant engineering.

E-Turn VIDEO <https://youtu.be/huo8crFm8bw>

### **A complete software suite for managing your process technologies**

In parallel to processing systems, BLM GROUP offers a suite of native software programs that makes the most of the power of the equipment to provide users with excellent work performance and robust process features for programming both on the machine and in the office.

**VGP3D** is the three-dimensional graphic programming software for BLM GROUP tube bending machines and wire benders. Simple, user-friendly and powerful, the VGP3D is also available in an office version and allows the operator to create any shape or geometry with the tube with a few simple clicks.

**Protube** is the BLM GROUP production MES, a single interface for easy and transparent management of part programs for the main BLM GROUP machines. Protube can be used to prepare technologically precise work orders in the office, to efficiently plan production, send production orders to the connected plants and keep track of all operations. By applying artificial intelligence strategies and data interconnection with the customer's ERP, Protube is the key enabler for the evolution of smart Industry 4.0 applications.



MULTI TECHNOLOGY VIDEO [https://www.youtube.com/watch?v=2Swu\\_7MjeOA&t=66s](https://www.youtube.com/watch?v=2Swu_7MjeOA&t=66s)

### **Customer-oriented services with dedicated solutions**

The BLM GROUP can offer a wide range of services designed to accompany the customer throughout the lifecycle of the system to maintain the highest level of efficiency and machine availability.

The many services that the group offers include:

FOR MORE INFORMATION: <https://www.youtube.com/watch?v=FEOd3vkZbqk&t=32s>

**Various maintenance plan levels.** Customers can choose the maintenance plan that best suits their production rate, plan operations so that you never interrupt production and increase the life of each machine by adopting specific activity schedules: Routine and/or supplementary maintenance and repair of faults and supply of spare parts.

Whatever the production context, the BLM GROUP has a complete range of solutions for machining tubes, sheet metal and any three-dimensional metal section, enhanced by dedicated software solutions and an array of services that provide customers with all-around support.

For more information:

Chiara Vaccari – Communication BLM GROUP

E-mail: [pr@blmgroup.it](mailto:pr@blmgroup.it)

### **BLM GROUP**

BLM GROUP is the global partner for the entire tube machining process with a recognized worldwide presence and thousands of applications:

- BLM S.p.A., based in Cantù (CO), Italy, is specialized in the production of CNC tube bending machines, tube forming machines, measuring units and devices for automated integration.
- ADIGE S.p.A., based in Levico Terme (TN), manufactures systems for laser-cutting tubes and machines for saw-cutting tubes, solids and sections. The range is completed by brushing machines, measuring systems, washing systems and collectors
- ADIGE-SYS S.p.A., based in Levico Terme (TN), specializes in the production of "mixed" laser-cutting systems for cutting tubes and sheet metal, systems for laser-processing large-sized tubes and end cutting and machining lines for tubes and bars.

[www.blmgroup.com](http://www.blmgroup.com)

<https://blog.blmgroup.com>

<https://www.blmgroup.com/it/inspired-for-tube>

Facebook: [www.facebook.com/BLMGROUP](https://www.facebook.com/BLMGROUP)

YouTube: [www.youtube.com/BLMGROUPchannel](https://www.youtube.com/BLMGROUPchannel)

Linkedin: [www.linkedin.com/company/blmgroup](https://www.linkedin.com/company/blmgroup)