



The technological solutions proposed by BLM GROUP at Fabtech Mexico 2022

Tlalnepantla, May 2022. BLM GROUP will be at FABTECH Mexico, the main meeting place for discovering the latest metalworking innovations. The event will be held from May 3rd to the 5th in Monterrey and will bring together over 500 exhibitors.

BLM GROUP will be presenting their complete range of solutions for laser cutting sheets and tubes and bending tubes and wires. "Our customers will be able to see our main technologies at work, talk to our experts and discuss the production solutions that best suit their needs," said Alejandro Gomez, director of BLM GROUP Mexico. "What is more, they know that they can always rely on our subsidiary that has been operating in Mexico for many years for after-sales service and spare parts."

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.

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

LT7, the undisputed cutting benchmark of high-end Lasertube systems

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 laser cutting source, an automatic loading system for tube bundles of up to 6.5 m in length and an unloading system for tubes up to 4.5 m in length.

The LT7 machine can process pieces from 12 to 152 mm in diameter and up to 23 kg/m in weight, ensuring excellent process performance.



From the smallest to the largest diameter, every adjustment is fully automated and even sections with “L”, “U” and other open profiles and flat bars are standard jobs, all processed in a 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.

The LT7 is an unparalleled, state-of-the-art solution designed to optimize productivity, quality, precision, flexibility, automation, and ease of use

LT7 VIDEO <https://www.youtube.com/watch?v=gyhOlvnfD5M&t=15s>

BC80: Designed to be unstoppable

The BC80 is a vertical rotary transfer machine for cutting and chamfering tubes and solid bars. Its functions include fully automatic operation, centralized diameter change adjustments, separate handling of scraps and chips, protections for tubes with delicate surfaces and a simple, user-friendly graphic interface.

The BC80 can produce up to 2200 parts/hour, each one cut to size, chamfered and checked, starting from a tube or full bar.

Designed for large volumes, the BC80 allows round-the-clock production of bushings up to 80 mm in diameter and 10 mm to 350 mm long.

BC80 VIDEO <https://www.youtube.com/watch?v=22wvEnz0oEY>

The first piece is right with the All-Electric ELECT52 tube bending machine

The ELECT52 is an all-electric tube bender with a freely configurable left or right-handed bending capability and VGP3D graphic visual programming.

With the All-Electric technology, adjustments and bending technology parameters are saved in the software to guarantee repeatability and quick production changes. Furthermore, B_Tools calculates the amount of springback and material elongation during tube bending so that the first piece of every production change is right from the start.

The ELECT52 is extremely versatile, making it easy to configure the machine to suit your needs and use it in all working situations, such as bending with a small radius-to-diameter ratio, bending in variable radius, or bending special section tubes, high-strength materials or stainless steel with high springback.

The ELECT52 can be fed manually with loading facilities for heavy tubes or multi-node cores or automatically by positioning loaders and/or feeders on either the left or right side of the machine.

ELECT VIDEO <https://www.youtube.com/watch?v=4Y2RL87EJac>

E-FLEX: Create with wire, simply and productively

The E-FLEX is an all-electric twin-head wire bending machine capable of bending metal wire with a diameter up to 10 mm.



Using a space-saving bending head with both clockwise and counter-clockwise rotation capabilities and the double turret for implementing the simultaneous use of multiple bending technologies, the E-FLEX offers complete freedom, repeatability and extreme speed in the coil production of objects of any type.

With VGP3D, all the job parameters are saved together with the part program. No specific knowledge is needed for use or retooling.

All-electric technology, superior quality components, the possibility of equipping the system with grooved tools, specific tools for parts with a high aesthetic finish, and a cutting system also controlled by a dedicated electric axis for the best cutting quality and longer tool life, are just some of the features that make E-FLEX an extremely versatile and powerful system that offers infinite application possibilities in the most diverse sectors.

E-FLEX VIDEO: <https://www.youtube.com/watch?v=bbf1GXEcSF4>

A complete software suite for managing your process technologies

In parallel to laser cutting 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.

Artube is the BLM GROUP CAD/CAM software for programming Lasertube systems enabling operators to draw, manipulate and design single parts or complex tubular assemblies of any section. Artube is the most complete and dynamic CAD/CAM solution capable of adapting to the customer's specific needs.

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.

FOR MORE INFORMATION: 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:



Software and remote assistance contracts for quickly resolving any unexpected problems and providing support in the event of new production needs. Remote assistance also uses augmented reality tools, like Active Eye, to quickly transmit the necessary instructions to the operator.

FOR MORE INFORMATION: <https://www.youtube.com/watch?v=FE0d3vkZbqk&t=32s>

Graduated maintenance plan levels. Customers can choose the maintenance plan that best suits their production rate and 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 encompassing-around support.

The BLM GROUP will be at Fabtech, Stand 1504.

For more information:

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BLM GROUP

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

- BLM S.p.A., based in Cantù (CO), Italy, is specialised 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 disc-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), specialises 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 removing lines for tubes and bars.

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