



BLM GROUP presents its new sheet metal processing solutions at EuroBLECH 2024

At EuroBLECH 2024, BLM GROUP presents the LS7 sheet metal laser cutting system with a 20 kW power source and automatic warehouse in a compact tower version for 24/7 continuous production. The new 20 kW LS7 retains all the features of its lower power versions.

LS7: high performance, low power consumption and excellent cut quality

The LS7 is a compact high-performance laser machine with ultra-fast pallet change, only 9 seconds, laser cutting head sensors and specific Active Tools features to automatically optimize the cutting process and maximize energy efficiency.

Thanks to its fiber source, it can process a wide variety of metals, including aluminum, brass, stainless steel, copper, and mild steel.

Its gantry structure combines aluminum and polymer concrete elements to give strength and lightness to the machine, ensuring excellent performance and acceleration beyond 2g. Special attention has been paid to ergonomics and ease of use, with the HMI (human-machine interface) and the windowed door located next to the operator console, which allows access to the work area (with the machine off) for cleaning or maintenance operations.

The machine on display at the exhibition is equipped with a gas mixer system that combines gases automatically to further improve cutting quality and speed. The system requires no special maintenance procedures or extra space for installation as it is fully integrated into the machine.

Automation for sheet metal laser

LS7 not only occupies minimal floor space but can also be equipped with various systems for sheet metal automation, such as automatic loading/unloading or automatic compact tower storage. Solutions that enable increased production rates, with 24/7 production.

Other solutions for tube processing will also be on display at EuroBLECH.

ELECT150

Full electric tube bender available in a left-hand or right-hand bending configuration, for tubes up to 150 mm in diameter. The machine, equipped with the latest VGPNNext programming software, enables bending with a high degree of difficulty and excellent surface finish. Demonstrating this, the exhibited machine will perform bending of a 110 mm diameter tube with only a 90 mm centerline radius, while maintaining an unparalleled aesthetic finish.



LT7

The Lasertube LT7 is the result of years of investment in technological research and continuous development of innovative software and hardware solutions. This fully automatic system enables the processing of tubes from 12 mm in diameter up to 152 mm and 23 kg/m in weight, with excellent cutting performance. From the smallest to the largest diameter, all adjustments are automatic, and even open profiles such as "L", "U" and flat sections are considered part of standard machining and processed fully automatically.

The machine on display at the fair is equipped with the automatic insertion unit for threaded inserts, which expands the possibilities of the laser cutting system and simplifies production by eliminating intermediate handling and storage. A robotic sorting system is also featured at the output for the orderly unloading of parts.

LT-FREE

A 5-axis 3D laser cutting cell for processing three-dimensional metal profiles for a wide range of industries including electric vehicles, plant engineering, motorcycles, automotive, plumbing and furniture. The fair displayed machine is equipped with a large working area for processing stamped and sheet metal as well as a robot for single-cycle processing of bent and hydroformed tubes. Complementing the offering will be some interesting additional cutting process optimizations and operator support features presented at the fair for the first time.

In any production context, BLM GROUP offers a complete range of solutions for processing tubes, sheet metal and any three-dimensional metal profile, enhanced by dedicated software solutions and a portfolio of services that support the customer at 360°.

SOFTWARE

BLMelements: a complete software suite for managing all BLM GROUP technologies

Thanks to many years of experience in the management of cutting and bending machine tools, BLM GROUP offers a suite of highly technological native software, to make the most of the power of the systems and ensure users excellent work performance and robust process characteristics both when programming in the machine or in the office.

VGPNext is the three-dimensional graphic programming software for BLM GROUP tube and wire benders. Simple, intuitive, available in machine or office versions, it allows the operator to bend the tube with absolute quality and precision with a few simple clicks.

ArTube is the BLM GROUP CAD/CAM software specific for the Group's Lasertube systems. It allows you to program the cutting of a large variety of tubular profiles and manage single parts as



well as complex frames. Complete, powerful, dynamic, technologically precise and intuitive, it is adaptable to specific sector needs.

ArtCut is the CAM software for offline programming of 3D laser cutting cells. Through immediate and intuitive 3D graphics, ArtCut simplifies the programming of any three-dimensional part, automatically resolves collisions, simulates the cutting process faithfully to reality and allows the part to be put into production quickly and easily.

PartViewer performs the graphic simulation of cutting programs for Lasertube systems and estimates the time and cost of executing the part.

Prometheus is the software MES of BLM GROUP to manage production on all BLM GROUP systems connected from a single interface in an easy and transparent way. Prometheus allows you to prepare technologically precise work orders in the office, efficiently plan production, send production orders to the machines, track operating modes and automatically collect data from the workshop. By applying intelligent strategies and optimized interconnection with customer ERP management software, Prometheus is the enabling key for the evolution of Industry 4.0 smart applications.

TO KNOW MORE: https://www.youtube.com/watch?v=2Swu_7MjeOA

SERVICES

Always close to the customer with dedicated solutions

BLM GROUP offers a wide catalog of services designed to transfer its experience to the benefit of the customer and accompany them throughout the entire life cycle of the system, so as to maintain the highest level of efficiency and machine availability.

Among the many services that the Group offers it is possible to find:

Assistance contracts, which allow you to quickly resolve any unforeseen problems with systems or software and provide support to respond to new production needs, thanks to the intervention of highly qualified and specialized technicians. Assistance can also be used remotely through augmented reality tools such as Active Eye.

TO KNOW MORE: <https://www.youtube.com/watch?v=PNH-LxIAciM>

BLManalytics is a tool for collecting and viewing production data from connected BLM GROUP machines and aims to provide useful information on the use of systems and production, highlighting potential critical issues and possible areas for improvement. It will thus be possible to make rapid, targeted and effective strategic decisions, ensuring maximum efficiency and reducing maintenance costs and downtime.



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Maintenance programs based on their production needs, the customer can choose the maintenance program best suited to their production, schedule interventions, so as to never interrupt production, and increase the useful life of each machine with specific activity programs: maintenance interventions ordinary and/or extraordinary, repair of faults and supply of spare parts.

For more information:

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BLM GROUP

BLM GROUP presents itself as a global partner for the entire tube and sheet metal working process, with a widespread presence worldwide and with thousands of applications. The companies that are part of the Group are:

- BLM SPA, of Cantù (CO), specialized in the production of tube bending, tube end-forming, wire bending machines and 3D laser cutting cells.
- ADIGE SPA of Levico Terme (TN), specialized in the production of laser tube cutting systems (Lasertube), sawing machines for tubes, solids and profiles with brushes and measuring, washing and collection systems.
- ADIGE-SYS SPA of Levico Terme (TN), specialized in the production of combined laser systems for tubes and sheet metal, systems for the laser processing of large tubes and profiles.

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