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LASERTUBE LT8.10

www.blmgroupp.com



BLM GROUP

LT8.10

The next step forward in the development of the lasertube technology

FEATURES

- maximum tube diameter - 240 mm (9.5')
- open profile and special shaped tube capable
- fully automated operation
- fiber laser source (3 kW)
- very high configurability

Fully automated, tube bundle loader, efficient over the entire range of machinable tube sizes. No tooling changeover is required.

Self-contained short part unloading conveyor, for quicker unloading of short workpieces.

Programmable front and rear unloading in multiple positions. Workpiece is supported during the entire cutting process.

Motorized unloading table, collects and discharges finished parts without interrupting the cutting cycle.

Single bar loader for loading of individual bars and open profiles. Provides the ability to momentarily interrupt the manufacturing process to to a cut a different bar then quickly return to production.

Operator's panel equipped with a 19" touch-screen monitor that can be freely positioned.

The new **LT8.10** is the laser tube cutting machine intended for those who are not willing to compromise: fiber laser source, working range up to 240 mm (9.5") diameter and 40 kg/m (27 lb/ft), 3D tilt cutting, very high configurability, excellent performance and easy operation.

The fiber laser source lets you cut any material

type (e.g. copper, aluminium, brass, stainless steel, zinc-coated steel, mild steel, etc.) at production rates and quality levels never seen before.

The **LT8.10** can process round, square, rectangle, flat oval and D shaped tubes plus special shaped tubes and open profiles such as 'C' and 'U' channel plus flat bar.

The new 'Tube Cutter' 3D tilt cutting head, developed exclusively by BLM GROUP, is a compact, lightweight and capable tool, which offers unique cutting performance and quality features.

Especially in regards to tilt cutting of thick walled steel for weld preparations and for creating

interlocking joints of several tubes or beams in tubular structures. The availability of multiple loading and unloading configurations and provisions for separating different parts into unique positions make the **LT8.10** the perfect solution for both high volume and low volume manufacturing requirements.

LT8.10

3D cutting: the new boundaries of fiber technology



ACCESSIBILITY ON SPECIAL SECTIONS

The new, less bulky cutting head improves the machine's ability to cut open profiles and special shaped tubular sections, especially the ones that feature large concave areas.

The new 'Tube Cutter' 3D tilt cutting head is more lightweight, more tapered and shorter. It is capable of making tilt cuts with greater accuracy and quality in tubes and in open profiles and special contours that feature deep concave sections.

The **LT8.10** can also be equipped with an option that guarantees the tube's interior walls remain clean by use of a suction probe that collects the dust generated during the cutting operations. This probe will be activated and positioned according to the diameter to be cut. The results meet the strictest requirements for interior tube cleaning.

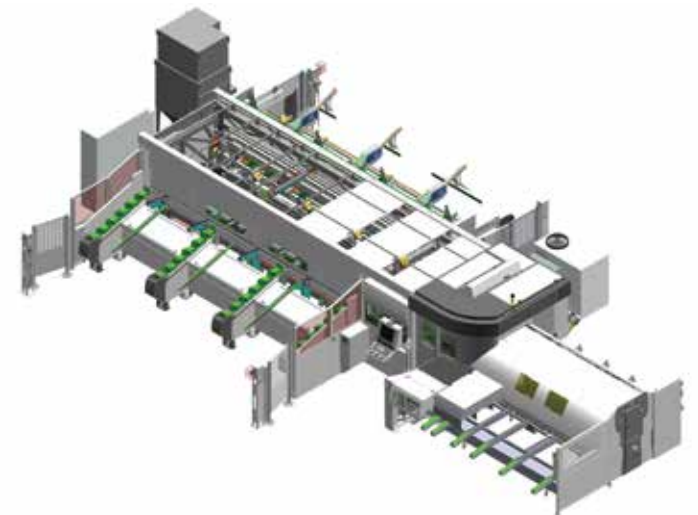
LT8.10

Configurability: its real strength

The new **LT8.10** featuring a fiber laser source can be configured with both front and rear loaders, i.e. by combining the loaders as shown below:

- fully automated, tube bundle loader, efficient over the entire range of machinable tube sizes. No tooling changeover is required;
- a step by step loader designed to load;
- open profiles and tubes with special contours;
- heavy bar capacity;
- small quantities with frequent material changes or prototype jobs;
- single bar loader for loading of individual bars and open profiles. Provides the ability to momentarily interrupt the manufacturing process to to a cut a different bar then quickly return to production;
- loader operates independently and features its own measuring line so the operator never needs to interrupt the main loader.

Workpiece unloading can be programmed to discharge to a position to the front or rear of the machine so that the parts will be segregated according to their type, at the output. Parts measuring less than 500 mm (19") can be discharged to the metal belted front parts conveyor. Scrap is sent out the rear of the machine via a second metal belted conveyor.





LT8.10

The difference

PRODUCTIVITY AND EASE OF USE: A SUM OF MANY DETAILS

ACTIVE TOOLS

The machine provides a number of advanced functions, to make the tube machining easier and ensure top production levels.

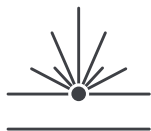
ACTIVE MARKING

Mark your part, track your job



ACTIVE PIERCING

Faster piercing to increase your productivity



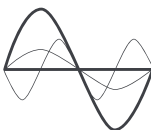
ACTIVE SCAN

Your tool to deal with to material variation



ACTIVE SPEED

Sustainable quality across all cutting conditions



ACTIVE FOCUS

A booster for your productivity



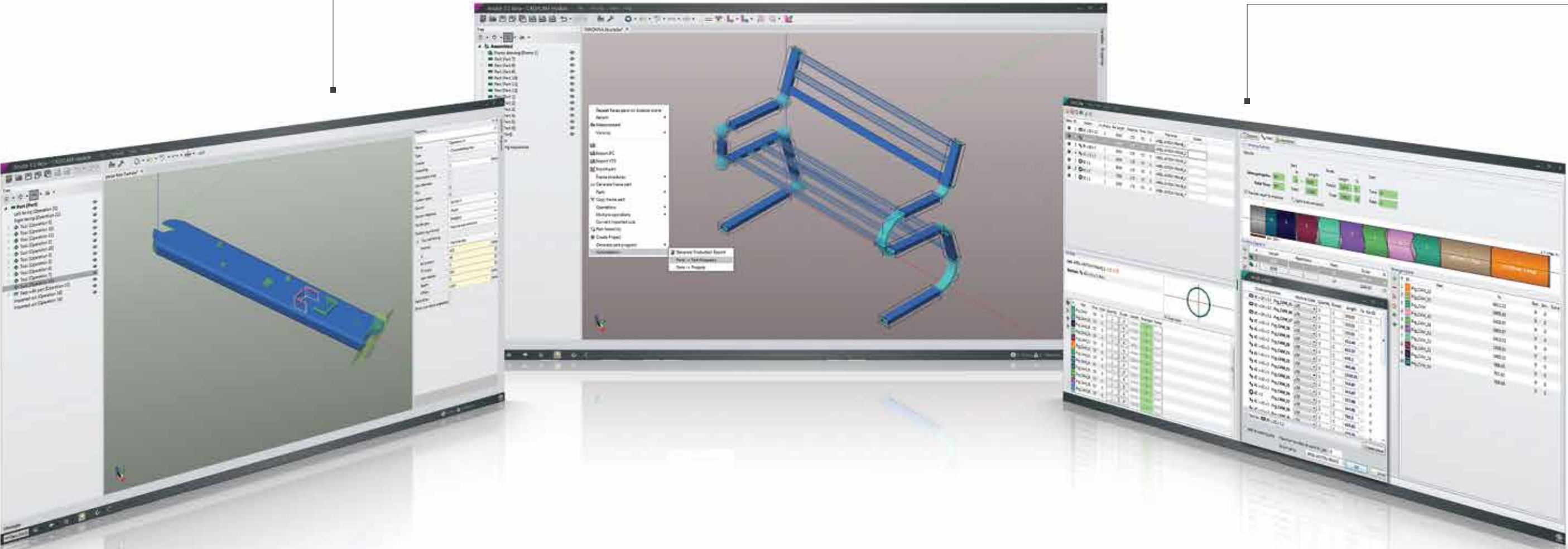
SOFTWARE SUITE

The difference

Parts drawn or imported from CAD programs (STEP, IGES, XT) are automatically translated into efficient part programs. Going from an idea to a part using a fully three dimensional, parametric programming system is quick and easy.

Drawn parts may be viewed rapidly with all the required geometries before transferring the part program to the machine. Frames and complex structures can be created using one or more sections of any type at the same time.

Real time production status can be monitored via computer or mobile device. Cameras can be fitted to the machine to view production progress. Production batches, consisting of one or more part numbers, each with respective quantities, can be defined using the part program archive.



BLM GROUP offers an entire suite of tube processing software called **BLMelements**. This is a set of tools for designing parts (or tubular frames), estimating production times, creating part programs, planning production and integration with your other BLM GROUP machines.

BLMelements allows remote machine state monitoring, to collect operating statistics and to receive real time notification following major events that may require timely intervention.

SERVIZI

Help is never far away



Talk to the BLM GROUP sales network

If you have questions on 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.

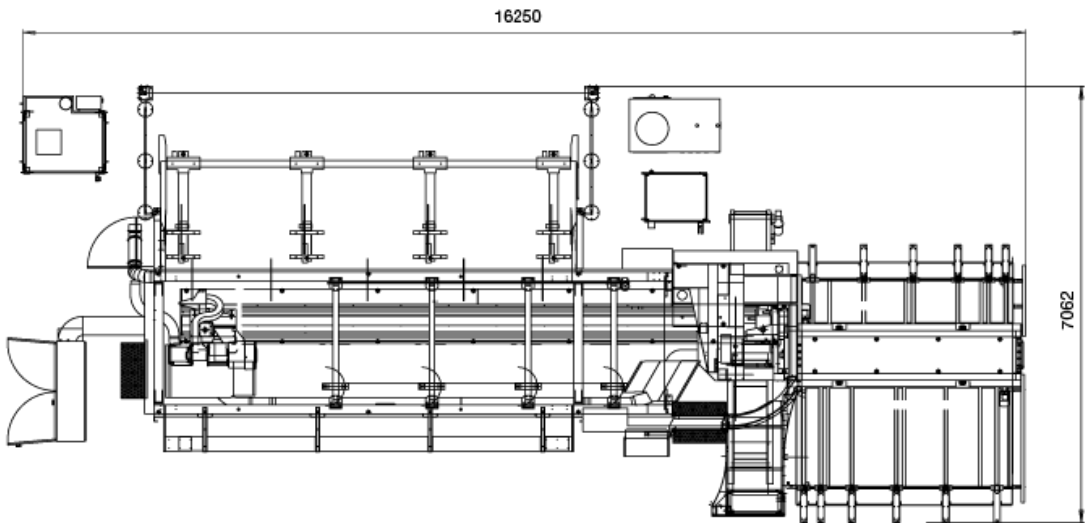


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Technical data

The **LT8.10** proves to be the perfect machine for every use: it features tailored configurability and offers the best performance over the entire range of machinable tubes. Add now the choice of fiber laser technology and you have proven capability that will provide an outstanding economic return.

Round tube diameter (ø) (mm)	min 12 - max 240 (.5" -9.5")
Square/rectangular tube (mm)	max 200 (8")
Open profiles and special shaped sections	yes
Bar weight (kg/m)	40 (27)
Machinable bar length (m)	6,5 / 8,5 (21' / 28')
Bar unloading length (m)	4,5 / 6,5 / 8,5 (14', 21',28')
Laser source (kW)	3 (fiber)
Installed power (kVA)	61



⚠ Features, weights, dimensions, capacities and performances of the machines are not binding and may be subject to change without notice. Pictures are for demonstration purpose only.

LASERTUBE CUTTING SYSTEM

tube bending
endforming
sawing, deburring and washing
sawing and end machining
combination sheet and tube laser cutting
handling
manufacturing cell
process control software



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