

LT722D

THE MOST ADVANCED LASER TECHNOLOGY
FOR TUBE AND PROFILE FABRICATION



 **ADIGE**

a BLMGROUP Company

Lasertube LT722D

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LT722D is the eighth generation of Lasertube cutting systems made by ADIGE. A new world standard for laser tube fabrication. Higher productivity, flexibility and easy to use feature this model and make it suitable to process efficiently both low and high volume batches.



CHANGE OVER

Change over is finished in less than 2 minutes and performed automatically by the system. Once the cutting program has been selected by the operator the system automatically manages the set up operations according to the type and size of material. No further tube supporting and guiding tools are required.



MEASURE AND TUBE SUPPORT

Each raw bar is automatically measured in its length and supported during the whole cutting process by CNC controlled supports located upstream and downstream the cutting head. This technical solution assures parts accuracy and consistency.



SPECIAL TUBE SHAPES

Special and new tube shapes can be easily programmed and cut on the **LT722D** with its unique Artube software features.



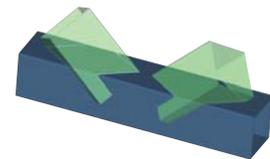
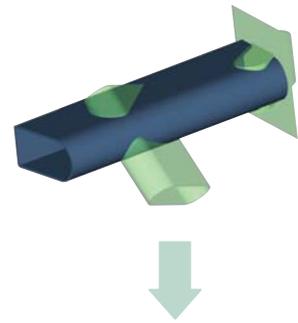
Artube and Lasertube

SOFTWARE TO DESIGN, PROGRAM AND MANAGE

Artube is a CAD-CAM software to design, program and manage the laser tube cutting process and is fully integrated with the **LT722D** enhancing its efficiency and productivity level. Artube is a proprietary software designed and dedicated to tube fabrication allowing to go from a drawing to the finished part within ten minutes.

MAIN FEATURES ARE:

- Design and generate programs for single tubes (Cad-cam) or tubular frames and structures (Assembler)
- Create programs for special tube shapes
- Automatic selection of the most suitable laser cutting parameters
Automatic generation of the optimum cutting path
- Create programs for open profiles
- Import .step, .iges, .x_t format CAD files





LASER SOURCE

LT722D is equipped with diffusion-cooled CO2-Slab-Laser from Rofin offering a very high cut quality associated to low running costs through:

- extremely high beam quality (K-Factor > 0.9-0,8)
- significant low maintenance cost (no moving parts in the resonator)
- very low lasing gases and electric power.



Cutting systems



ANTI SPATTER DEVICE

The anti spatter device is available on demand for round tubes and prevents the I.D. tube walls from getting spoiled by spatters.



OPEN PROFILE

LT722D can be configured to cut open profiles and flats in automatic cycle.



“READY TO USE” CUTTING PARAMETERS

A data base with all cutting parameters is supplied standard with the machine including tube of different size, shape, thickness and materials. This saves material waste and set up times and enables a higher degree of independence from the operator's know-how.



UNLOADER AND COLLECTION

Discharge out the front, rear or onto conveyor is standard. Automatic collection and stacking of finished parts is available on demand.



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Technical Data

Round tube	min. 12 mm - max. 140 mm (opz. min. 10 mm - max. 152,4 mm) (0.5" to 5,5" - optional to 6.0")
Square tube	min. 12 x 12 mm - max. 120 x 120 mm - (0.5" to 4,75")
Rectangular, flat oval, D-shaped, elliptical tube	min. 10 x 12 mm - max. 140 x 100 mm - (up to 3" x 5.5")
Standard material	mild steel - stainless steel - Al alloy (others on demand)
Tube lengths	min. 3200 mm - max. 6500/8500 mm - (min. 10.5' - max. 21'3" or 27.10')
Loader weight	4000 kg - (up to 8800 lbs.)
Unload lengths	3500 mm - 4500 mm - 6500 mm - (up to 11'5" or 14'8" or 21'3")
Digitally controlled axis	nr. 8
Digital CNC	Siemens 840D
CO2 laser resonator	1500 W - 2000 W - 2500 W - 3000 W (higher on demand)
Options	anti spatter device, booster, weld seam detector, cylindrical hole feature, special tube shape and open profiles.

BLM GROUP

LASERTUBE CUTTING SYSTEM

tube bending
endforming
sawing, deburring and washing
cutting & end machining
laser cutting for sheet and tube
handling
3d measuring
manufacturing cell
non touch measuring systems
process control software



 ADIGE

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