

LC 3015 XI NT

Laser



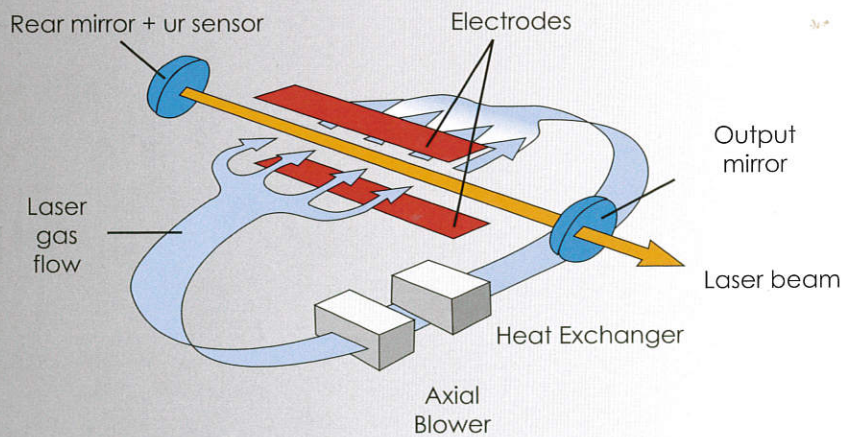
LC 3015 X1 NT

DEDICATED TO QUALITY

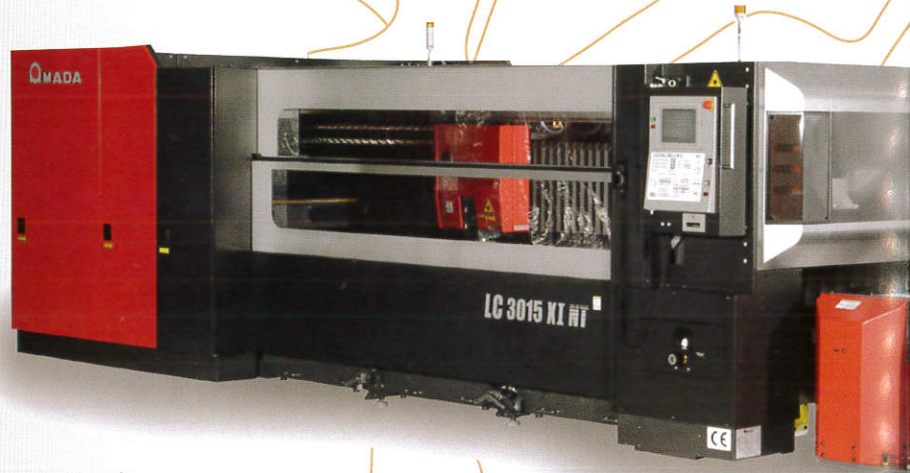
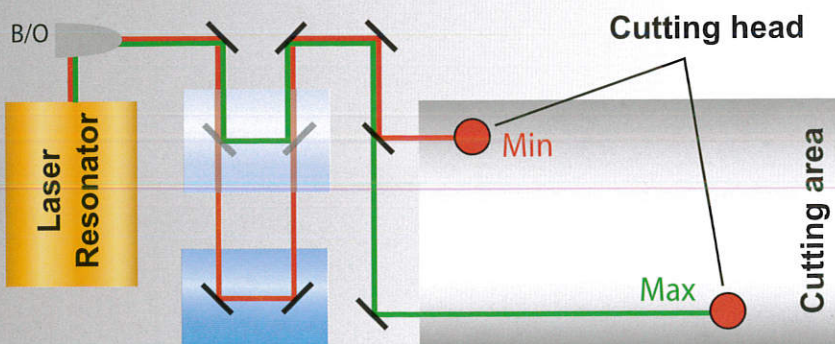
The LC 3015 X1 NT combines the following performance qualities : rapidity, precision, cutting quality, reliability. It satisfies polyvalence and flexibility requirements, is highly effective for a wide range of processing thickness (0 to 20 mm) and metals (steel, aluminium, stainless steel). Its productivity can be heightened thanks to ASLUL auto storage systems (six levels) and ASLUL TWIN (fourteen levels).

40CF RESONATOR

The LC 3015 X1 NT laser is equipped with a 4000 w CO₂ cross-flow source laser. This technology enables rapid piercing with a minimum amount of machine heating. It is equipped with an ultra rapid control sensor which guarantees, in real time, a consistent level of power of plus or minus 1% and protects the source during reflective metal cutting operations. This design is highly economic in terms of electricity and laser gas (3L/h).



OPTICAL PATH

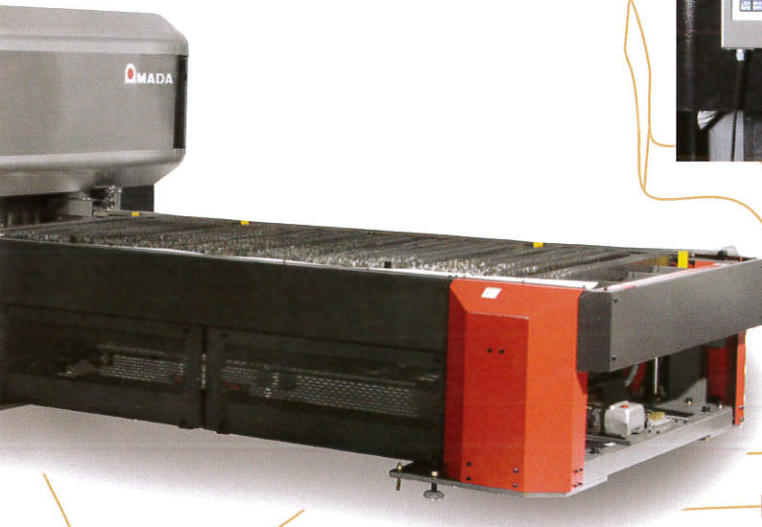
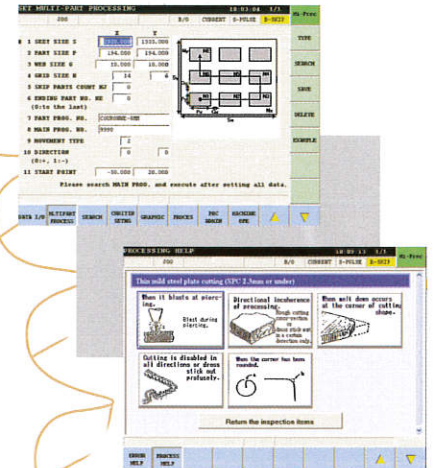


OPTIMUM QUALITY

The optical path of the LC 3025 X1 NT is equipped with a beam length compensation system and an active B/O mirror. These make it possible to maintain optimal laser beam characteristics for each material and each thickness over the entire machine surface area. This results in a hitherto unprecedented cutting quality.

NUMERICAL CONTROL

This generation of controller is based on PC technology. Equipped with a touch screen, it enables rapid access to the "cutting conditions" database on the basis of what work has to be done. Its courseware mode offers assistance to the user by displaying the different cutting problems.



FRAME AND AXES

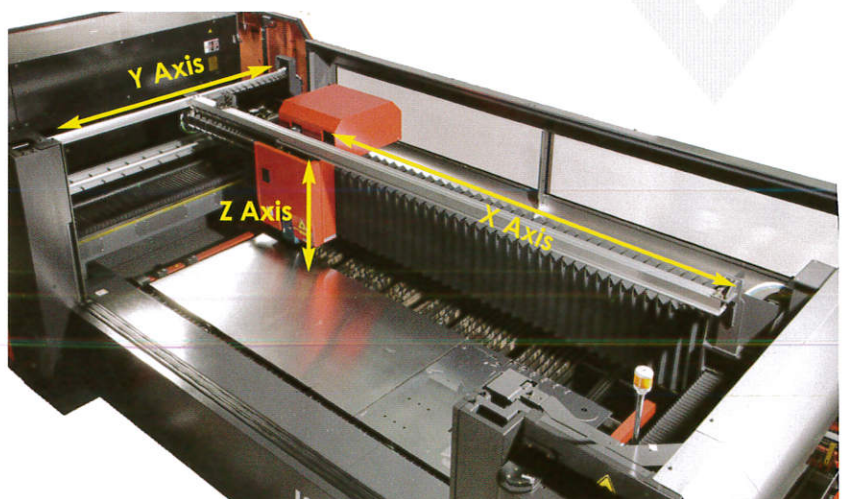
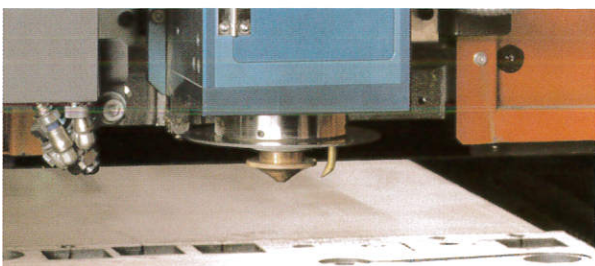
Built around a cast iron frame, the architecture of the LC 3015 X1 NT enhances performance and ergonomics : The carriage moves along the Y axis and the head along the X axis, thus optimising accelerations. Total access to the cutting head enables a rapid change of parts to be processed.

CUTTING HEAD

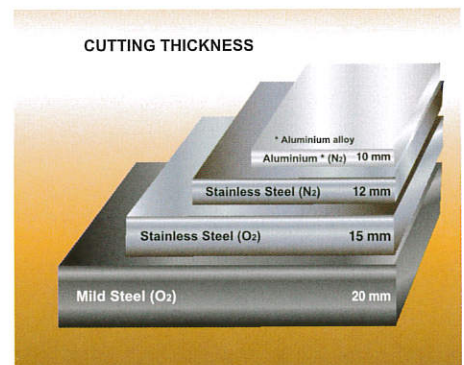
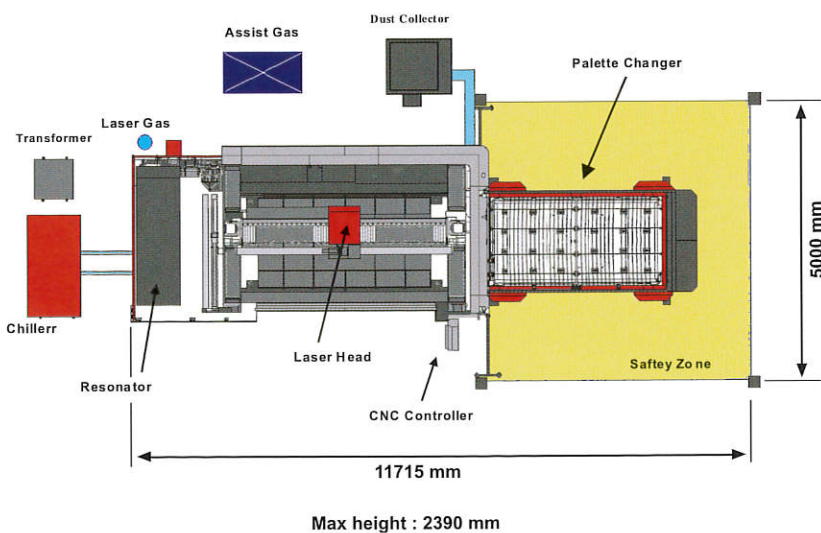
As an option, the focusing head can be equipped with two functions that contribute to quality and productivity :

Quick Pierce : Rapid, safe piercing for thick metals

ICC : Dynamic cutting control, detection and control of the plasma effect.



SPECIFICATIONS	LC 3015 X1 NT
Axis movement Y X Z (mm)	3000 x 1550 x 120
Maximum processing size (mm)	1550 x 3070
Rapid X, Y, axis speed (m/mn)	85
Rapid Z axis speed (m/mn)	60
Cutting feed speed (m/mn)	0 - 30
Positioning accuracy (mm)	± 0,05/500
Maximum sheet weight (Kg)	750
NUMERICAL CONTROL	
Controlled axis	3 (X, Y, Z) + B
Minimum increment unit (mm)	0,001
NC Connexion	RS 232 + LAN
LASER OSCILLATOR	40 CF
Power	4000 W
Laser type	CO ² "Cross Flow"
Wave length	10,6 µm
Divergence angle	< 2mrd
Frequency range	5 à 3000 hz
Duty range	0 à 100%
Laser gaz consumption l/h	3
INSTALLATION	
Pneumatic requirement	6 bar-250 l/mn
Power requirement	400v AC/115 A
Noise level	< 80 db (A)
Weight (kg)	10 000 Kg



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