

SOFTWARE

Software that makes management simpler

FACE
Simple and intuitive HMI for on-board machine management.

PARTS
Manages the database of parts, kits and assemblies processed by the different technologies, defining the corresponding production flows.

STREAM
Programming suite for managing activities both in the office and on the workshop, including production planning, part programming, process optimization and flow control.

STREAMLASER
CAM software for generating cutting and nesting programs and processing paths.

NEXUS
Automatically programs and optimizes sorting strategies.

OPS
Organizes production, connects L3.G4 to ERP/MRP systems and automates nesting and information distribution.

LINKS
Monitors performance and production data.



AUTOMATION

Scalable automation

L3.G4 can be configured with scalable automation solutions, from assisted manual handling to unmanned operation and integration into automatic factories.

FROM PALLET CHANGE TO AUTOMATIC LOADING AND UNLOADING

CPE assures rapid pallet exchange with manual loading and unloading, while ADC, ADLU and ADLL automate loading and unloading, increasing autonomy and production continuity.

AUTOMATIC SORTING AND STORAGE

MCU manages the automatic part sorting, while LTWS store-towers also extend automation to storage with unmanned material management.

INTEGRATION IN THE PRODUCTION FLOW

L3.G4 can be integrated in an FSJ, where systems, automation, artificial vision and software work together to manage unmanned autonomous or convergent processing.

EFFICIENCY

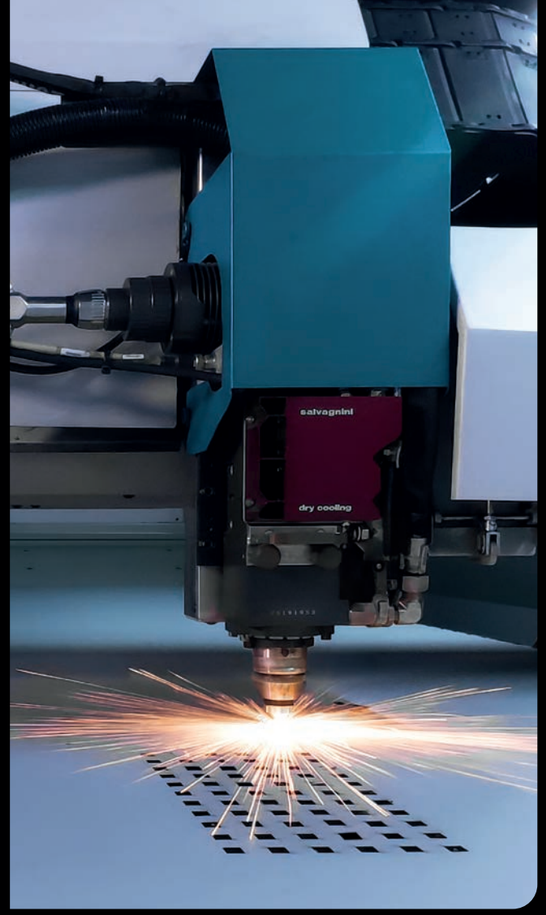
Optimized consumption

L3.G4 integrates specific technologies and sources to reduce consumption. **AVC – Adaptive Vacuum Control**, the patented technology integrated into loading and sorting devices, reducing compressed air consumption during sheet metal gripping, generating the vacuum only when necessary. **ACUT** is used to cut with compressed air up to 20 mm, with lower costs than cutting with nitrogen.

LOWER CONSUMPTION
MORE EFFICIENCY
GREATER COMPETITIVE PERFORMANCE

salvagnini







L3.G4

Versatile, high-performance fiber laser

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Some contents of this brochure were developed using artificial intelligence and were validated by our experts.

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L3.G4



Versatile, high-performance fiber laser

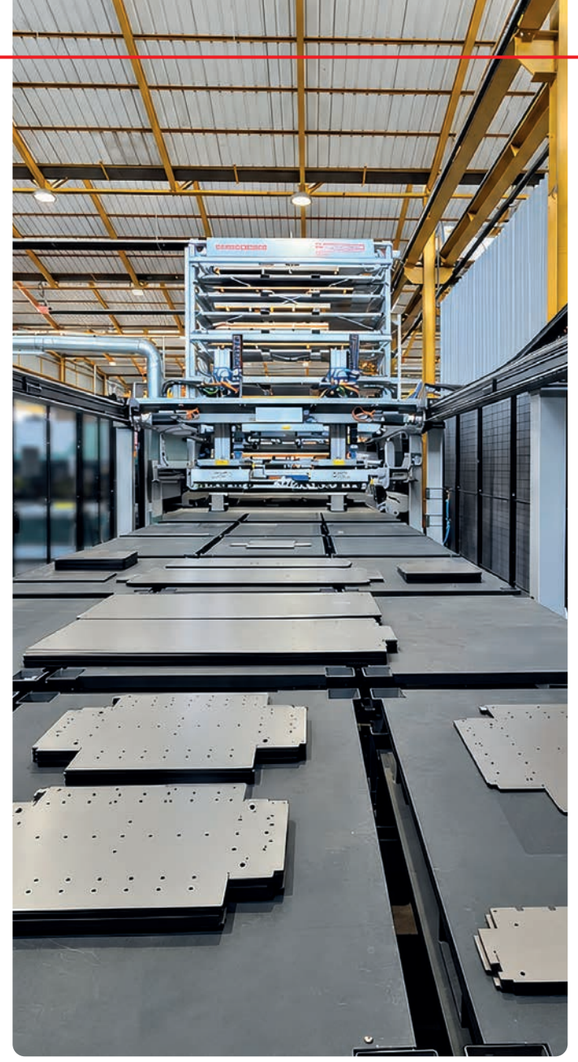
L3.G4 is the Salvagnini fiber laser cutting system designed to combine **versatility, performance and simple use**.

The highly-accessible gantry architecture, advanced sensors and digital technologies improve precision and repeatability, while reducing activities with low added value and helping to contain the cost per part.

MODELS		
	L3-30.G4	**L3-40.G4**
XY working range (mm)	3048 x 1524	4064 x 1524
Z axis stroke (mm)	160	160
Maximum XY speed (m/min)	170	170
Precision[1]		
Position accuracy Pa	0.05 mm	0.05 mm
Average position range Ps	0.03 mm	0.03 mm

FIBER SOURCES						
	3000 W	**4000 W**	**6000 W**	**8000 WE***	**8000 W**	**10000 W**
Cutting capacity (maximum thickness in mm)[2]						
Steel	20	20	25	25	25	25
Stainless steel	12	15	20	25	25	30
Aluminum	10	15	20	25	25	30
Copper	8	8	8	10	10	10
Brass	6	8	8	10	10	10
Minimum thickness (mm)	0.5					
Consumption (in kW)						
Maximum absorbed power (in kW)[3]	18	21	28	28	34	42
Average absorbed power (in kW)[4]	12	13	16	16	20	24

[1] Measurement calculated according to VDI3441 on maximum axis lengths.
[2] Cutting quality on limit thicknesses may depend on geometries required, material quality and system operating conditions. At limit values, burrs may be present on the lower edge of the cut. These values are for the Salvagnini reference materials.
[3] Maximum absorbed power calculated on the standard system configuration (machine, source, chiller, fume extractor), in 3 cutting cycles on mild steel from 0.8 to 6 mm.
[4] Average absorbed power calculated on the standard system configuration (machine, source, chiller, fume extractor), in 3 cutting cycles on mild steel from 0.8 to 6 mm.
*High efficiency version.



PRODUCTIVITY

More productivity throughout the process

Productivity does not only depend on cutting speed: L3.G4 combines **source power, intelligent sensors, upstream and downstream automation and process control** to reduce down times and optimize every production step.
The **single optic head** machines all workable thicknesses and materials without adjustments, also speeding up production changeovers.

PRECISION

Quality controlled in real time

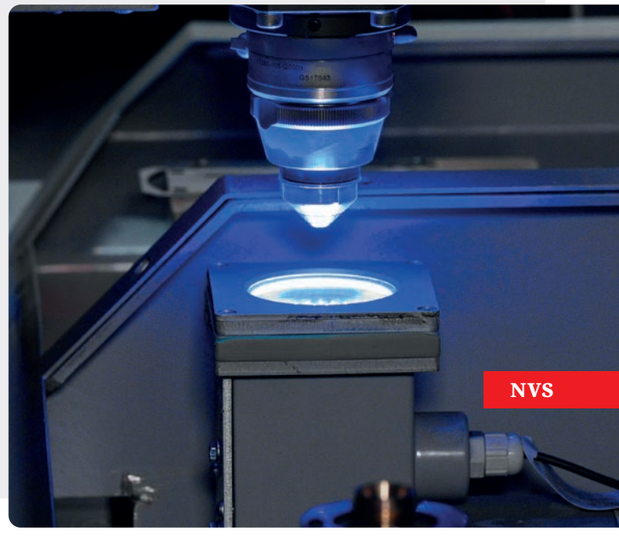
The rigid gantry structure, single optic head and process sensors guarantee precision and repeatability. The **Standard**, **PowerCut** and **High Quality** modes respectively privilege safety in unmanned operations, reactivity and operating speed, and high cutting quality. **APC2**, **TRADJUST** and **NVS** monitor the process and automatically intervene to keep it stable, reducing errors and waste.

CONFIGURABILITY

Configured to your production mix

L3.G4 adapts to **different materials, thicknesses and production strategies**. Functions, dedicated options and **artificial vision applications** extend the laser application field, so you can choose the most suitable solution for your specific production requirements.

- **SVS:** artificial vision for recovery of leftovers and multisheet management
- **AVS:** artificial vision for referencing previous processes
- **ANC:** automatic nozzle changer for increased autonomy
- **NVS:** artificial vision for automatic beam and nozzle control



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