

LeMans

Innovative Manufacturing



GENIUS Series



High-End High Power Fiber Laser Machines



6kW-50kW

www.lemans-cnc.com

Company culture

Mission

Our mission is:

1. LeMans provides quality solutions for industrial CNC machines to meet the needs of our customers.
2. We say "NO" to headaches, we services machine here and now.
3. We ensure a positive customer experience during installations of our technological innovation.



Values

Our core values are:

TRUST
RELIABILITY
DURABILITY



Vision

Our vision is :

1. Become Europe's No.1 supplier of industrial CNC equipment.
2. Represent world-class brands.
3. Deliver the fastest standard range equipment on the market.
4. To have a LeMans showroom and educational centre.
5. Become a professional team of specialists with the aim of leadership in global projects.



Company profile

The LeMans group of manufacturers designs and manufactures sheet metal processing equipment - cutting lasers, bending, cutting machines, modular automatic systems. We provide warranty and post-warranty service, equipment servicing and technical support. LeMans technology is innovative production solutions that ensure high productivity and quick payback.



5+ Global Branches



50+ Countries Covered



\$1 Billion Annual Sales



1000+ Annual Capability

GENIUS series. 3000-50000W



Machine dimensions

	GENIUS3015	GENIUS4022	GENIUS6025	GENIUS8025	GENIUS10025	GENIUS12025
Length	8620mm	11080mm	15060mm	19560mm	23960mm	27660mm
Width	2900mm	3750mm	3980mm	3980mm	3980mm	3980mm
Height	2620mm	2460mm	2460mm	2460mm	2460mm	2460mm

Key components

Laser Source	RAYCUS/IPG
CNC Control System	ANCA/Siemens 840DSL Profi-net CNC (Germany)
Cutting Head	6KW+ PRECITEC Procutter 1.0 or 12KW+ PRECITEC Procutter 2.0
Servo Motor	ANCA/Siemens
Pneumatic System	SMC PNEUMATIC COMPONENTS (Japan)
Rack and Pinions	HIWIN/CSK RACK AND PINIONS (Taiwan)
High Pressure Valve	SMC LOW PRESSURE VALVE + SMC HIGH PRESSURE VALVE
Guides	KH/CSK LINEAR GUIDE (Taiwan)



Technical Parameters

Machine model	3015, 4022, 6025, 8025, 10025, 12025
Machine type	Closed-type
Type of laser source	Fibre
Rated power, W	3000 - 50000
Manufacturer of laser source	Raycus/IPG
Automatic focus laser cutting head, mm	6KW+ PRECITEC Procutter 1.0 or 12KW+ PRECITEC Procutter 2.0
Z-axis travel, mm	~0-280
Number of tables	2 pcs
Maximum movement speed for X, Y axes, m/min	150m/min
Laser positioning marking	Yes
Internal video camera for remote monitoring	2 pcs
Acceleration, G	1,5
Positioning accuracy, mm	+/- 0.05
Repeatability, mm	+/- 0.03
Managing monitor	LCD 21"
Software	ANCA/Siemens 840DSL Profi-net CNC(Germany)
Monitoring monitor	LCD 24"
Materials to be cut	Steel, Stainless steel, Aluminium, Galvanized steel
Smoke filtration system	Option
Automatic lubrication system	Yes
Voltage stabilizer	Yes
CE certificate	Yes
Chiller	Yes
Mains frequency	50 Hz
Power supply, V/Hz	380/50 ± 5%



Cutting capabilities

	3000w	4000w	6000w	6600w	12000w	20000w	30000w
Mild Steel	-	-	6/25mm	6/25mm	10/40mm	20/80mm	25/80mm
Stainless Steel	-	-	20mm	20mm	40/30mm	100/70mm	100/70mm
Aluminium	-	-	16mm	16mm	40mm	60mm	60mm
Brass	-	-	12mm	12mm	16mm	20mm	20mm

* To reach maximum cutting capabilities of the machine all maintenance, pre-treatment, heating conditions must be optimal.
 To reach wanted result LeMans specialist engineer's will consult what is needed to reach this number.
 Blue mark - N2
 Red mark - O2/Air



Power Consumption

		Unit	Raycus 4kW	Raycus 6kW	Raycus 12kW	Raycus 20kW	Raycus 30kW
Maximum power consumption	Laser source	kVA	15	20	45	75	112,5
	Chiller	kVA	5,5	6,6	18	22,5	31
	Machine Bed	kVA	18	18	18	18	18
	Other devices	kVA	0	0	0	0	0
	Fuse	A	65	75	135	193	270
	Power Supply	kVA	38,5	44,6	81	115,5	161,5
Rated Power	Laser source	kVA	15	20	45	75	112,5
	Chiller	kVA	5,3	6,6	18	22,5	31
	Machine Bed	kVA	18	18	18	18	18
	Other devices	kVA	0	0	0	0	0
	Fuse	A	65	75	135	193	270
	Power Supply	kVA	38,3	44,6	81	115,5	161,5
Actual Running Power	Laser source	kVA	7,5	10	22,5	37,5	56,25
	Chiller	kVA	5,3	6,6	18	22,5	31
	Machine Bed	kVA	9	9	9	9	9
	Other devices	kVA	0	0	0	0	0
	Fuse	A	37	43	83	115	161
	Power Supply	kVA	21,8	25,6	49,5	69	96,25
Standby Power (No Laser Output)	Laser source	kVA	0,2	0,2	0,2	0,2	0,2
	Chiller	kVA	5,3	6,6	18	22,5	31
	Machine Bed	kVA	0,5	0,5	0,5	0,5	0,5
	Other devices	kVA	0	0	0	0	0
	Fuse	A	10	12	31	39	53
	Power Supply	kVA	6	44,6	81	115,5	161,5



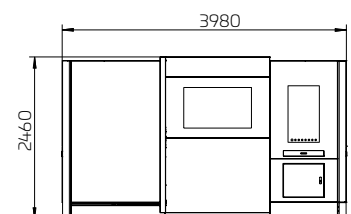
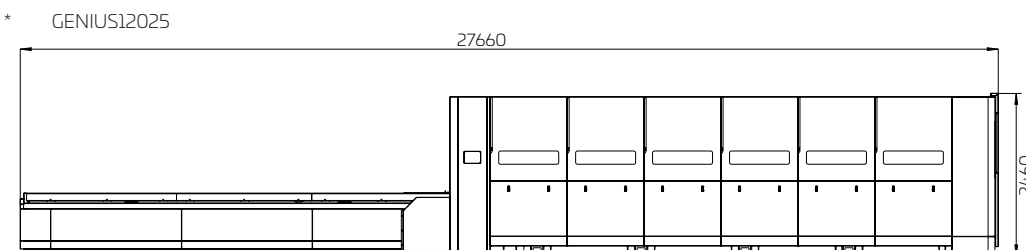
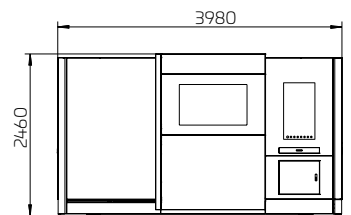
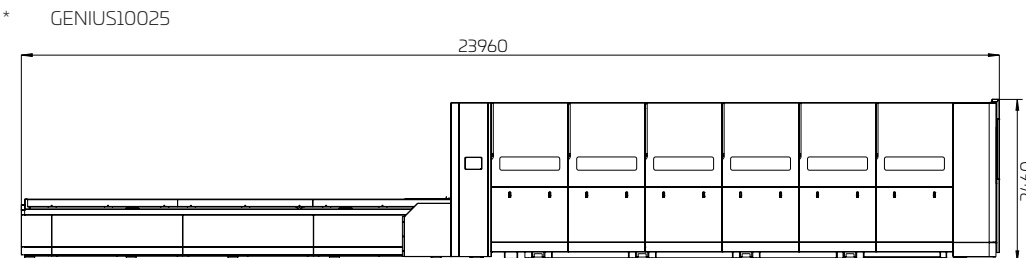
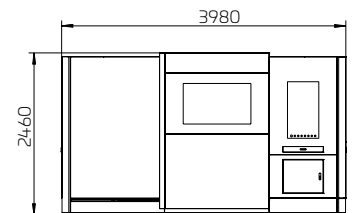
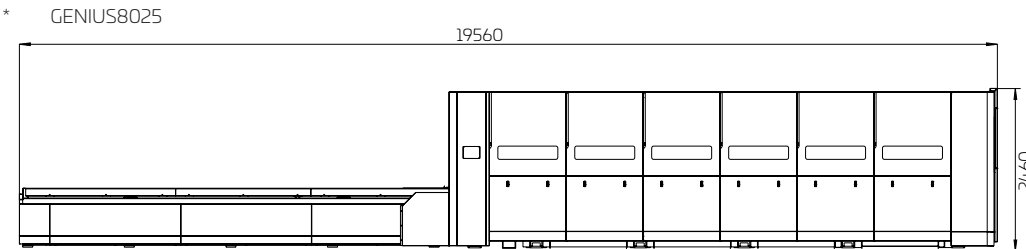
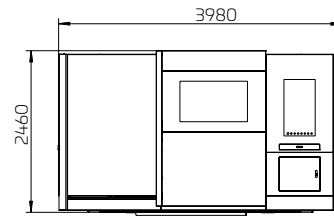
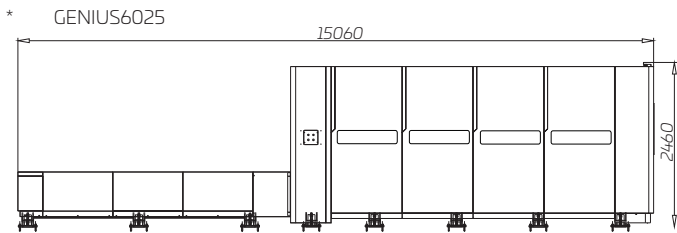
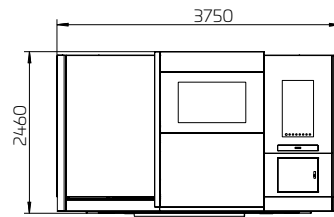
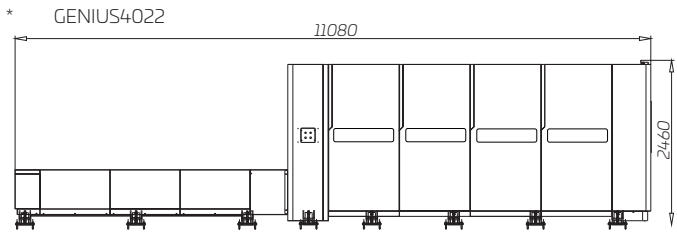
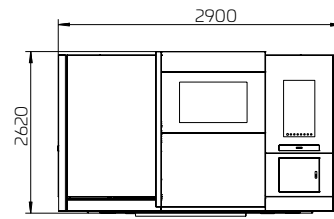
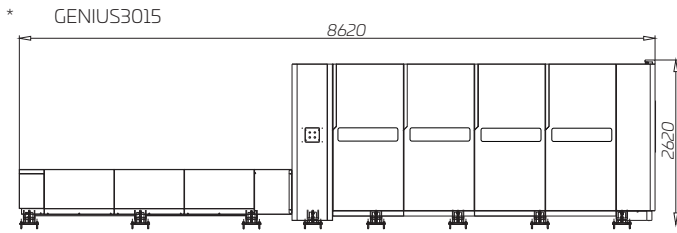
Maximum payload

	GENIUS3015	GENIUS4022	GENIUS6025	GENIUS8025	GENIUS10025	GENIUS12025
6000W	1000kg	2000kg	3500kg	4800kg	5200kg	6000kg
8000W	1400kg	2800kg	4800kg	6300kg	8000kg	8000kg
12000W	1400kg	2800kg	4800kg	6300kg	8000kg	9500kg
20000W	2100kg	3700kg	7000kg	10000kg	12000kg	14000kg
30000W	2400kg	4800kg	8000kg	10000kg	13500kg	16000kg
50000W	4000kg	7900kg	13500kg	18000kg	22500kg	27000kg

* To reach maximum payload capabilities of the machine all maintenance conditions must be optimal.
 To reach wanted result LeMans specialist engineer's will consult what is needed to reach this number.



Machine layout





Hydraulic Heavy-Load Exchange Tables

GENIUS series Laser cutting machine is reinforced, adopts Gantry structure with dual rack & pinion driven system, with advantages of reliable stability, high rigidity and faster speed. The body base of machine is integrated welding structure, which is made of high quality and strong metals. The gantry of machine is of aluminum casting gone through times aging treatment, thus it has advantages of light weight and fast dynamic response. The gears, linear guide, rack & pinion and other transmission components are all from international well-known.



Drives and guides



Panasonic servo motors and drives,
KH racks (grade level 5),
HIWIN/PMI linear guides.



Precitec - Autofocus Laser Cutting Head

The ProCutter Thunder is the ideal solution for efficient laser cutting in medium and high power range and offers permanently stable and precise operation. The highly dynamic drive ensures minimum non-productive times and flexibility. This controls the focus position fully automatically and delivers outstanding results when processing different material thicknesses. Auto focus adjustment speed is ten times faster than manual adjustment. The bevel cutting device adopts the design principle of the manipulator, combined with the need for high-speed motion compensation around the multi-axis direction during variable bevel cutting.





Control system

To achieve the highest stability and performance, this system adopts complete Germany Siemens control system, including CNC, Servo Motor, Driver, PLC, HMI, etc. Siemens SINUMERIK 840D sl is considered to be the standard in the premium class CNCs, which is certainly justified. Maximum CNC performance, along with a high degree of flexibility and openness-which has been unachievable up until now-represent the basis for almost every machine concept. A high-performance hardware architecture and intelligent control algorithms as well as premium class drive and motor technology class ensure the highest dynamic performance and machining precision. CNC SINUMERIK 840D sl is complemented by a comprehensive range of solutions for integration into IT environments.



Raycus Fiber Laser Source



LeMans uses the world-famous brand Raycus series laser source. Good cutting performance of stainless steel, aluminium, and other materials. The source functions stably, the service life of the main components reaches up to 100,000 hours, which guarantees the overall quality of the equipment. The laser source produces the highest fibre quality, ensures thinner cut lines, increases productivity, and enables the high processing quality.



Precitec Height Adjustment Device - EG8030

This advanced system features cutting-edge optical transmission technology for exact height adjustments, ensuring top-notch accuracy and efficiency. Designed as a height reducer, it guarantees a smooth and efficient workflow, significantly enhancing the performance of your machinery. The included frequency parents guide makes frequent height modifications straightforward and user-friendly. Tailored perfectly for Precitec fiber laser heads, it ensures seamless integration and flawless operation. Equipped with the EG8050 cable height controller, our system offers unmatched control over the laser head's height, delivering precise adjustments every time.





Supply of Stabilised Voltage

The stabilised voltage power supply can achieve the function of variable stabilised voltage, achieve the stable electricity demand of laser equipment in different countries and regions, and guarantee the safe and stable operation of the equipment.



Laser Source Chiller



Tongfei water cooler, professional laser water cooling equipment. The water circulation system uses a stainless-steel water pump and a stainless-steel water tank with good corrosion resistance. Air cooling, no water-cooling tower needed, easy to install. Computer controller in English, intuitive dynamic number display, simple operation, accurate temperature control. Dual temperature and dual control with automatic fault alarm function: compressor delay protection, overcurrent protection, water flow alarm, high and low temperature alarm and output corresponding signals to improve equipment safety. The surface is treated with high voltage electrostatic spraying.



Hoerbiger Low/High Pressure proportional valve for Oxygen/Nitrogen



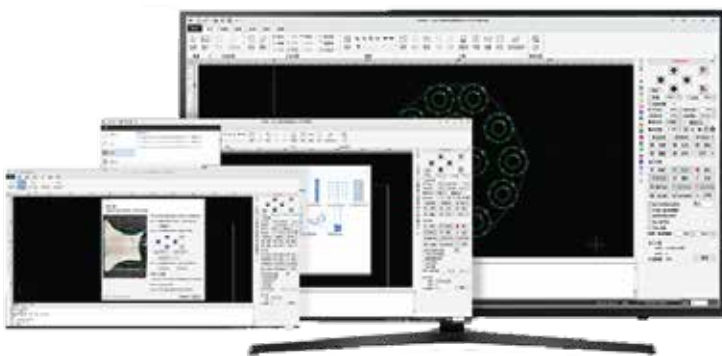
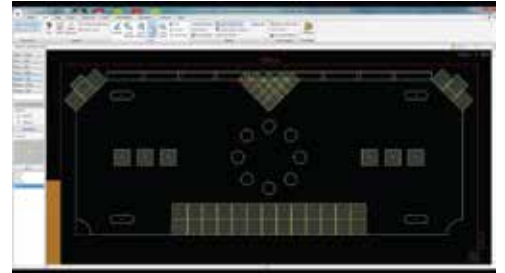
Siemens / Schneider connectors and contact systems



Extended Functions

/ CAM Software: METALIX CNC KAD

- Metalix offers a full range of CAD/CAM capabilities for CNC lasers
- Including support for sorting and stacking devices attached to your machine.
- Fully automated nesting
- Live import - full live preview of the geometry import results.
- Hole Filling - interior holes in parts are identified and filled with compatible parts, creating efficient solutions.
- Grouping - automatic and manual grouping of parts to simplify nesting solutions.



/ Software: CypNest

- The FSCUT CypNest is a nesting software for sheet laser cutting CNC systems, developed for the sheet metal laser cutting software HypCut/CypCut. It enables fast nesting, drawing processing, toolpath editing, and form generation functions.

Extended Functions

Automatic Loading
Automatic UnLoading

MODEL & Format (LxW)

HCW + HCL1530
1500 mm x 3000 mm

HCW + HCL2040
2000 mm x 4000 mm

HCW + HCL2060
2000 mm x 6000 mm

Sheet Thickness
0.6 - 15 mm

Number of layers
10

Maximum Load per sheet
3-5T

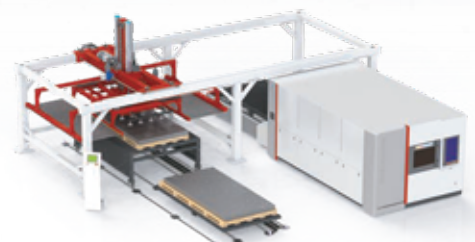
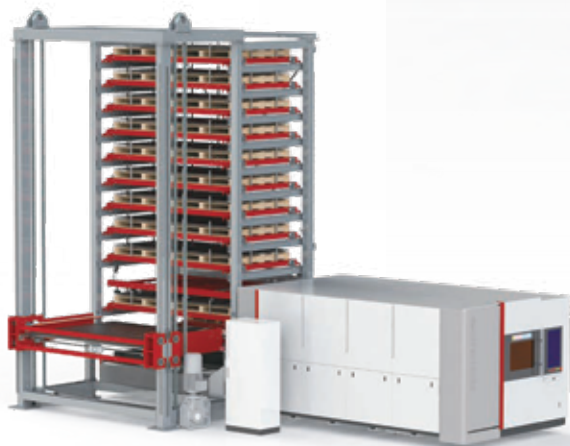
Single Layer spacing
450 mm

Total Load of the Warehouse
30T - 40T

Total Power
23kW / 25kW / 28kW

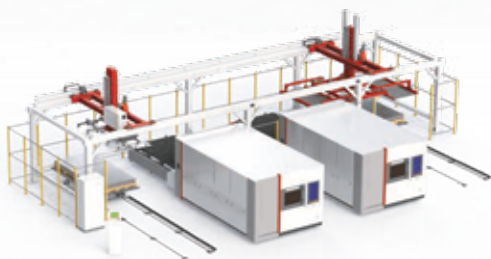
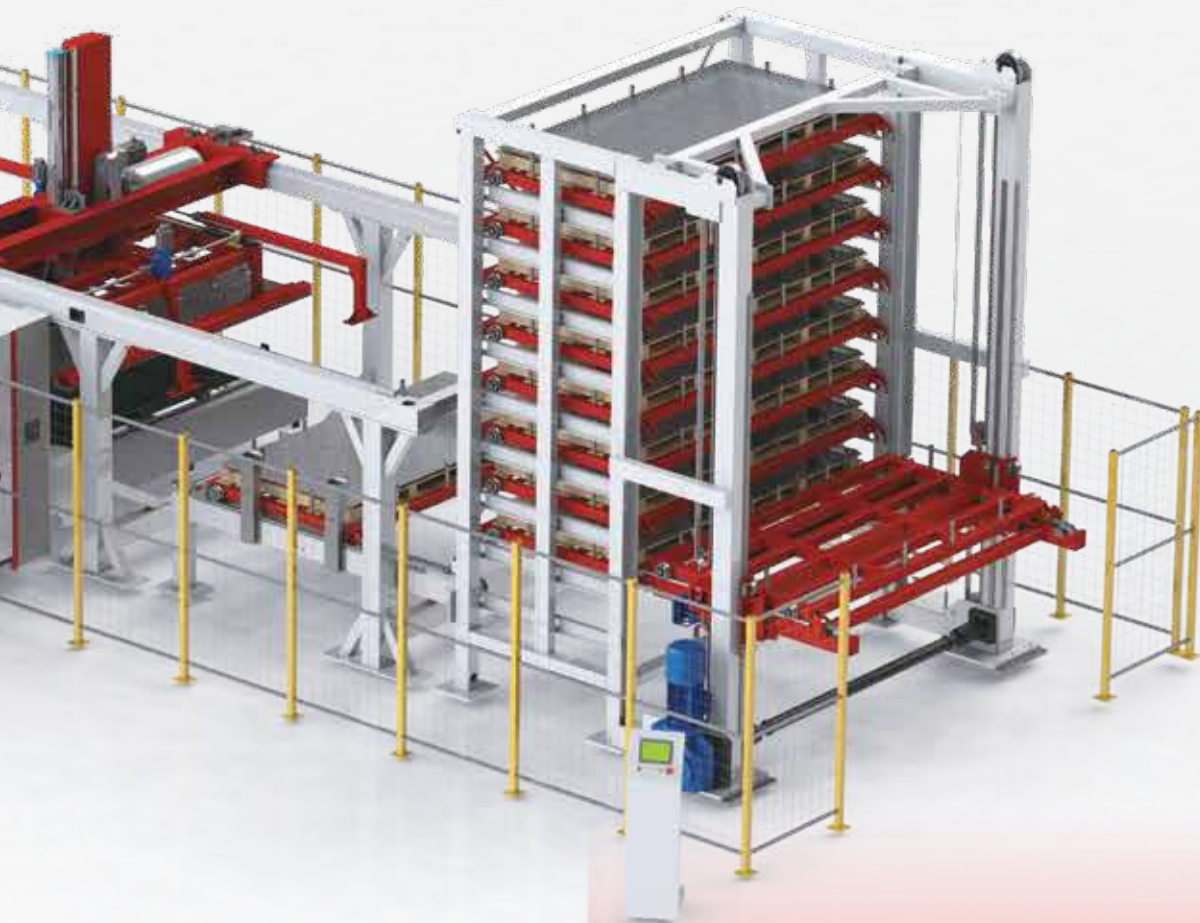
Output Voltage
380V

30T - 40T



HCW

HCL



Intelligent material arrangement is achieved through communication between IO expansion modules and laser cutting systems.

A photograph of a factory floor with a row of industrial machines. The machines are white and blue, and are arranged in a line. The background shows a large window and a ceiling with a crane. The text "Building Tomorrow's Manufacturing" is overlaid on the image.

Building Tomorrow's Manufacturing

LeMans

Innovative Manufacturing



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YouTube

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