



ORION 3015 Plus

LASER CUTTING MACHINE

www.lvdgroup.com

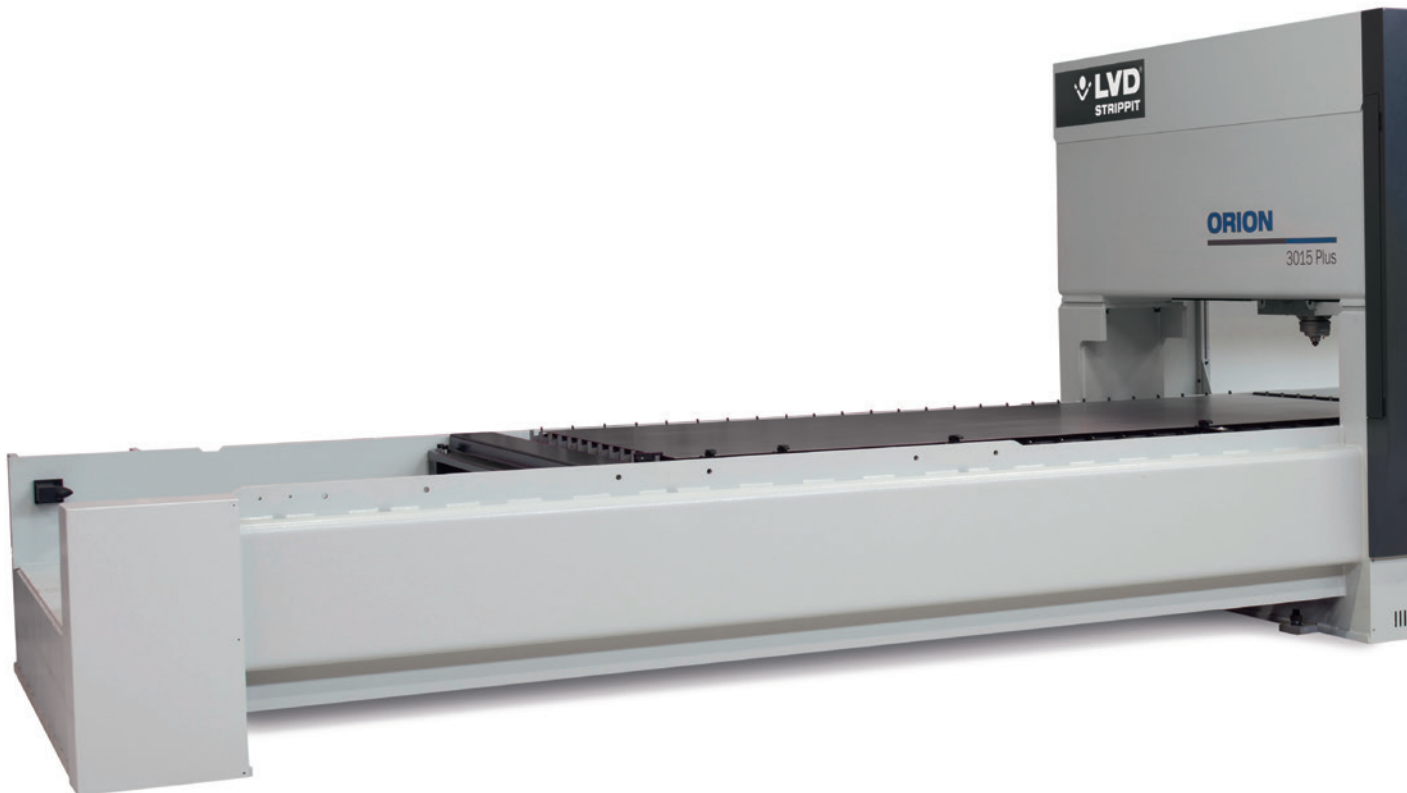
Sheet Metalworking, Our Passion, Your Solution

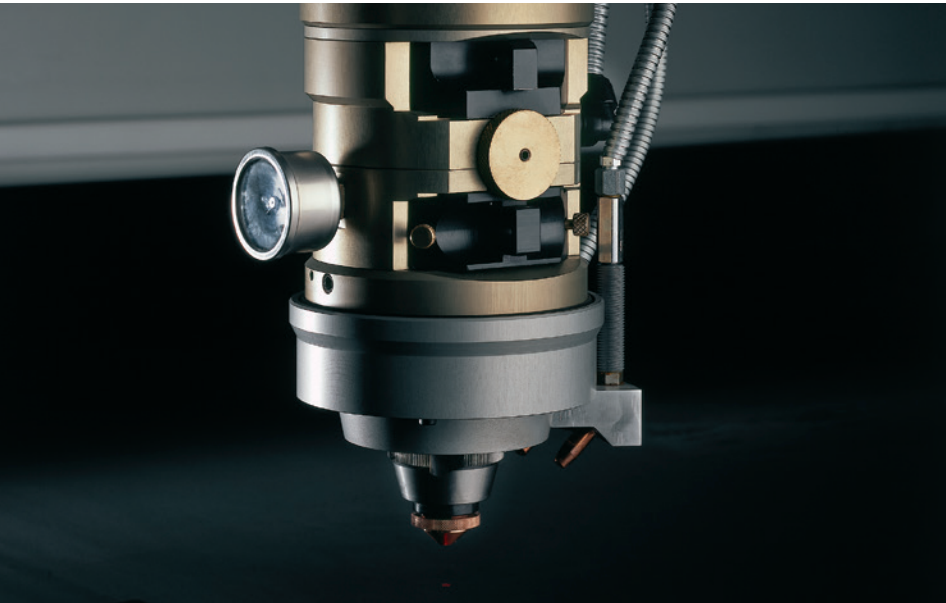
ORION 3015 PLUS

Cost-effective Laser Processing

For entry level, cell manufacture and general laser cutting applications, the Orion 3015 Plus CO₂ laser cutting system is both efficient and affordable. Quick setup and automatic features make processing fast and keep productivity high. An integrated laser cutting and control package ensures accuracy and reliability.

- Low investment and operating costs
- Quick to install, easy to use
- Compact footprint
- Practical for any level of user
- High reliability





ORION 3015 Plus

- Lower capital investment **reduces the cost** of laser cut parts
- **Easy to use** and quick to set up
- **New Touch-L** intuitive touch screen control
- Integrated LVD-Fanuc, machine, control, laser source and motor drive package for **high processing speeds and high reliability**
- 9.44" Z-Axis for cutting pre-bent components and profiles
- Robust design
- 2,5 kW or 4 kW **laser source** offered
- 60" x 120" **sheet size capacity**
- Up to 5/8" mild steel, 5/8" stainless steel and 3/8" aluminium **processing capability**
- Low operation and maintenance costs
- Features an **extensive database** of cutting technology for processing a wide range of materials
- **Quick lens change** system
- Optional offline programming software **CADMAN®-L**
- **Modular automation** options

KEY FEATURES

Easy Set-up & Operation



ERGONOMIC DESIGN

Orion's hybrid design delivers the laser beam to the cutting head in the most efficient and cost effective method, providing the lowest part processing cost. The ergonomic design provides full access on three sides of the system for fast and efficient loading and unloading plus good visibility of the cutting area while processing.

COMPACT FOOT PRINT

Orion has one of the smallest footprints for a machine of its processing capacity.

SIMPLE AND FAST INSTALLATION

A robust frame construction ensures that no special foundations are required. Installation is a simple and fast procedure with the machine ready for action within a very short period of time.

TOUCH SCREEN CONTROL

LVD Strippit's Touch-L touch screen graphic user interface allows any level of user to simply and intuitively interact with the Orion. The ease of the Touch-L interface keeps operator input to a minimum regardless of the application. Set ups are fast and uncomplicated.





FAST ART TO PART

LVD Strippit's Touch-L control also enables operators to take a DXF-file from the network or a USB-stick and intuitively apply cutting technology, nesting and cut the part with minimal input.

INTEGRATED LASER & CONTROL PACKAGE

Orion's RF excited fast axial flow Fanuc CO₂ laser, CNC control, system drives and motors are fully integrated, ensuring high reliability, as well as low operating and maintenance costs.

LOW RUNNING COSTS

Orion's design, the efficiency of the latest Fanuc i-C laser source and automatic power saving feature combine to give Orion one of the lowest running costs of any machine in its class.

CADMAN®

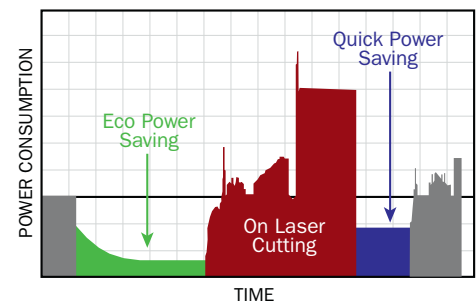
OFFLINE PROGRAMMING

LVD Strippit's optional CADMAN® software package offers the ideal solution to quickly prepare and execute offline programs and integrate production processes for greater productivity and integration.

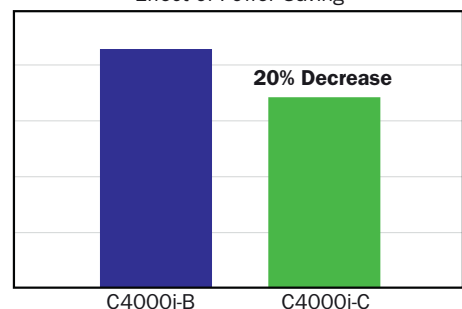
*Ensuring high reliability,
as well as low operating
and maintenance costs*

AUTOMATED LASER FEATURES

- Total power control (TPC) ensures an optimal cut while minimizing the heat-affected zone
- Process Control maximizes processing time and minimizes part damage due to loss of cut
- NC Focus eliminates the need for operator intervention to adjust the focal position
- Air/Oil Spray device safely disperses splatter and lubricates the sheet when processing thicker materials, ensuring consistent part quality
- Automatic shut down
- Automated power saving feature reduces power consumption by up to 20%



Effect of Power Saving



KEY FEATURES

Modular Automation

Enabling automated production from stored raw material to stacked finished part

Automation expands the flexibility and productivity of the Orion laser cutting system. Modular automation solutions are retrofitable or factory installed.

AUTOMATIC LOAD/UNLOAD

An automatic load/unload system eliminates manual sheet handling and increases machine productivity and efficiency. The system handles sheets as large as 120"x60" and material thicknesses up to 1/2" with a maximum pallet capacity of 5,000 lbs. This compact system requires minimal floor space. It is ideal for large volume applications with common material type, thickness and size and the handling of oversized or heavy workpieces.

COMPACT TOWER (CT-L)

A Compact Tower (CT-L) 4, 6 or 10 pallet provides full capabilities for loading, unloading, and storage of raw material and finished parts, enabling automated production from stored raw material to stacked finished parts. The CT-L system creates a productive, flexible manufacturing cell capable of operating "lights out."

The system handles sheets with material thicknesses up to 5/8" with a maximum load/unload pallet storage capacity of 6,000 lbs. Pallet construction is designed for compact set up and convenient forklift manipulation.



Technical Specifications

MACHINE	ORION 3015 PLUS	ORION 4020 PLUS
Max. Sheet Size	60"x 120"	160"x 80"
Max. Sheet Weight	1250 lbs.	2204 lbs.
X-axis Travel	121"	161"
Y-axis Travel	61"	81"
Z-axis Travel	9.5" (3.9") ¹	9.5"
Max. Positioning Speed		
X, Y-axis	3935"/min	3935"/min
Z-axis	700"/min	700"/min
Repetitive Accuracy	± 0.001"	± 0.001"
Positioning Accuracy ²	± 0.002"	± 0.002"

LASER

Type	Fanuc HF excited CO ₂ Laser		Fanuc HF excited CO ₂ Laser	
Laser Power (± 2%)	2500 W	4000 W	2500 W	4000 W
Range	100 - 2500 W	100 - 4000 W	100 - 2500 W	100 - 4000 W
Output Stability	± 1%		± 1%	
Wave Length	10,6 um		10,6 um	
Pulse Frequency	5 Hz – 2 kHz		5 Hz – 2 kHz	
Laser Gas	10 l/hour		10 l/hour	
Cooling Water	Sealed Circuit		Sealed Circuit	

MATERIAL CAPACITIES	2500 W	4000 W	2500 W	4000 W
Steel	5/8"	5/8"	5/8"	3/4"
Stainless Steel (N ₂)	3/8"	5/8"	3/8"	5/8"
Aluminium	1/4"	3/8"	1/4"	3/8"

GENERAL SPECIFICATIONS (FOR STAND ALONE MACHINES)

Machine Dimensions		
Length	31 ft	35 ft
Width	15 ft	16 ft
Height	8 ft	8 ft
Weight	28660 lbs.	33069 lbs.

AUTOMATIC LOAD/UNLOAD DEVICE³

Max. Sheet Size	120"x 60"x 1/2"
Max. Stack Weight	5,000 lbs.
Max. Stack Height	3.9"
Footprint (Orion Plus including autoloader unit)	
Length	30 ft
Width	22 ft
Height	13 ft

COMPACT TOWER³

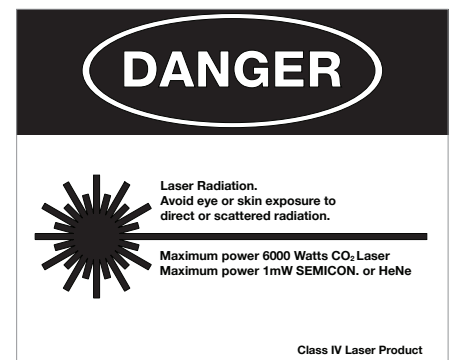
Max. Sheet Dimensions	120"x 60"x 3/4"
Min. Sheet Dimensions	36"x 36"
Max. Weight of Pallet	6000 lbs.
Max. Height of Pallet	9.5" incl. wooden pallet
Footprint	
Length	30 ft
Width	24 ft
Height of Unit	
4-pallet	14 ft
6-pallet	17 ft
10-pallet	22 ft

¹ Reduced Z-axis travel with load/unload system

² The achievable accuracy depends, among other things, on the type of workpiece, its pre-treatment and sheet size. According to VDI/DGQ 3441.

³ Available only with Orion 3015Plus

* Specifications subject to change without notice.



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JOINT VENTURES

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