ORION 3015 Plus

LASER CUTTING MACHINE

www.lvdgroup.com

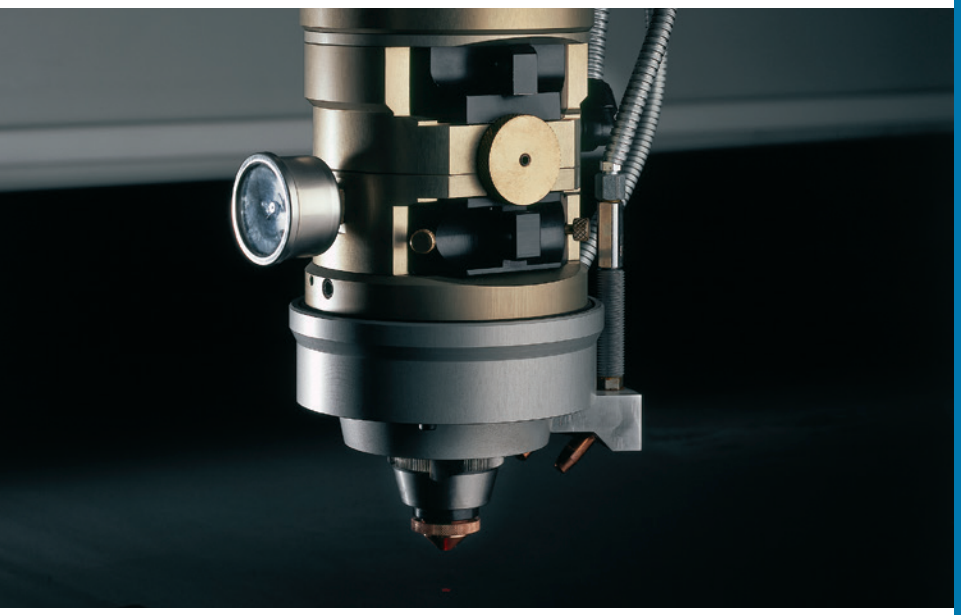
Sheet Metalworking, Our Passion, Your Solution

ORION 3015 PLUS

Cost-effective Laser Processing

For entry level, cell manufacture and general laser cutting applications, the Orion 3015 Plus CO_2 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** intuative touch screen control
- Integrated LVD-Fanuc, machine, control, laser source and motor drive package for **high processing speeds and high reliability**
- 240 mm Z-Axis for cutting pre-bent components and profiles
- Robust design
- 2,5 kW or 4 kW **laser source** offered
- 3000 x 1500mm **sheet size capacity**
- Up to 20 mm mild steel, 15 mm stainless steel and 10 mm 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'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'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 CO_2 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®

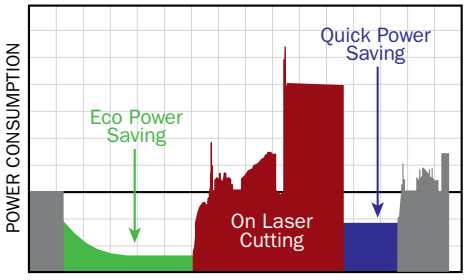
OFFLINE PROGRAMMING

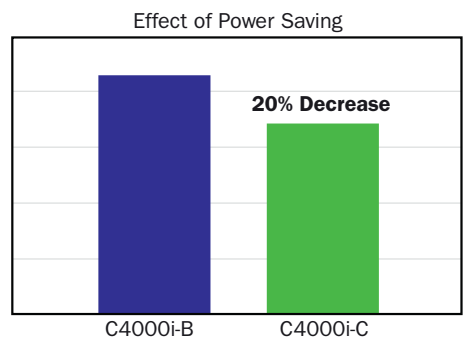
LVD's optional CADMAN® software package offers the ideal solution to quickly prepare and execute offline programs and integrate production processes for greater productivity and integration.

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%





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 3050 x 1525 mm and material thicknesses up to 12 mm with a maximum pallet capacity of 2500 kg. This compact system requires minimal floor space. It is ideal for large volume applications with common material type, thickness and size, 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 20 mm with a maximum load/unload pallet storage capacity of 3000 kg. Pallet construction is designed for compact set up and convenient forklift manipulation.

ORION 3015 PLUS

Technical Specifications

MACHINE	ORION 3015 PLUS	
Max. Sheet Size	3000 x 1500 mm	
Max. Sheet Weight	570 kg	
X-axis Travel	3080 mm	
Y-axis Travel	1555 mm	
Z-axis Travel	240 (100) mm[1]	
Max. Positioning Speed		
X, Y-axis	100 m/min	
Z-axis	15 m/min	
Repetitive Accuracy	± 0,025 mm	
Positioning Accuracy[2]	± 0,05 mm/m	

LASER		
Type	Fanuc HF excited CO_2 Laser	
Laser Power (± 2%)	2500 W	4000 W
Range	100 - 2500 W	100 - 4000 W
Output Stability	± 1%	
Wave Length	10,6 um	
Pulse Frequency	5 Hz – 33 kHz	
Laser Gas	10 l/hour	
Cooling Water	Sealed Circuit	

MATERIAL CAPACITIES	2500 W	4000 W
Steel	16 mm	20 mm
Stainless Steel (N_2)	10 mm	12 mm
Aluminium	6 mm	10 mm

GENERAL SPECIFICATIONS (FOR STAND ALONE MACHINES)	
Machine Dimensions	
L	9350 mm
W	4400 mm
H	2200 mm
Weight	13000 kg

AUTOMATIC LOAD/UNLOAD DEVICE	
Max. Sheet Size (mm)	3050 x 1525 x 12 mm
Max. Stack Weight	2500 kg
Max. Stack Height	100 mm
Footprint (Orion Plus including autoload unit)	
L	8900 mm
W	6600 mm
H	3700 mm

COMPACT TOWER	
Max. Sheet Dimensions (mm)	3050 x 1525 x 16 or 2550 x 1525 x 20
Min. Sheet Dimensions (mm)	1000 x 1000
Max. Weight of Pallet	3000 kg
Max. Height of Pallet	240 mm including pallet
Footprint	
L	8850 mm
W	7200 mm
Height of Unit	
4-pallet	4100 mm
6-pallet	4940 mm
10-pallet	6620 mm

[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.

** Specifications subject to change without notice.*

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JOINT VENTURES

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