



The Bend  
The Combi  
    The Laser  
The Punch  
The System  
The Software

# Platino<sup>®</sup> 2.0

*fiber*

**Tailored on your application**



Lean Cabin

# Innovative and reliable

PLATINO® 2.0 Fiber laser cutting machine is the perfect balance of innovation and experience.

The new PLATINO 2.0 Fiber represents the evolution of the fully-tested PLATINO platform by combining its reliability and flexibility with the state-of-the-art efficient laser technology.

PLATINO 2.0 Fiber has been developed to grant our customers a production tool which is:



## **ENERGY EFFICIENT**

Less energy required and lower environmental impact.



## **PRODUCTIVE**

High productivity due to reduced cycle times and higher process reliability.



## **FLEXIBLE**

Suitable for a wide range of materials, including highly-reflective metals and high thickness mild steel.



## **MODULAR**

Capable of meeting any production need, with a variety of automation modules.



## **USER FRIENDLY**

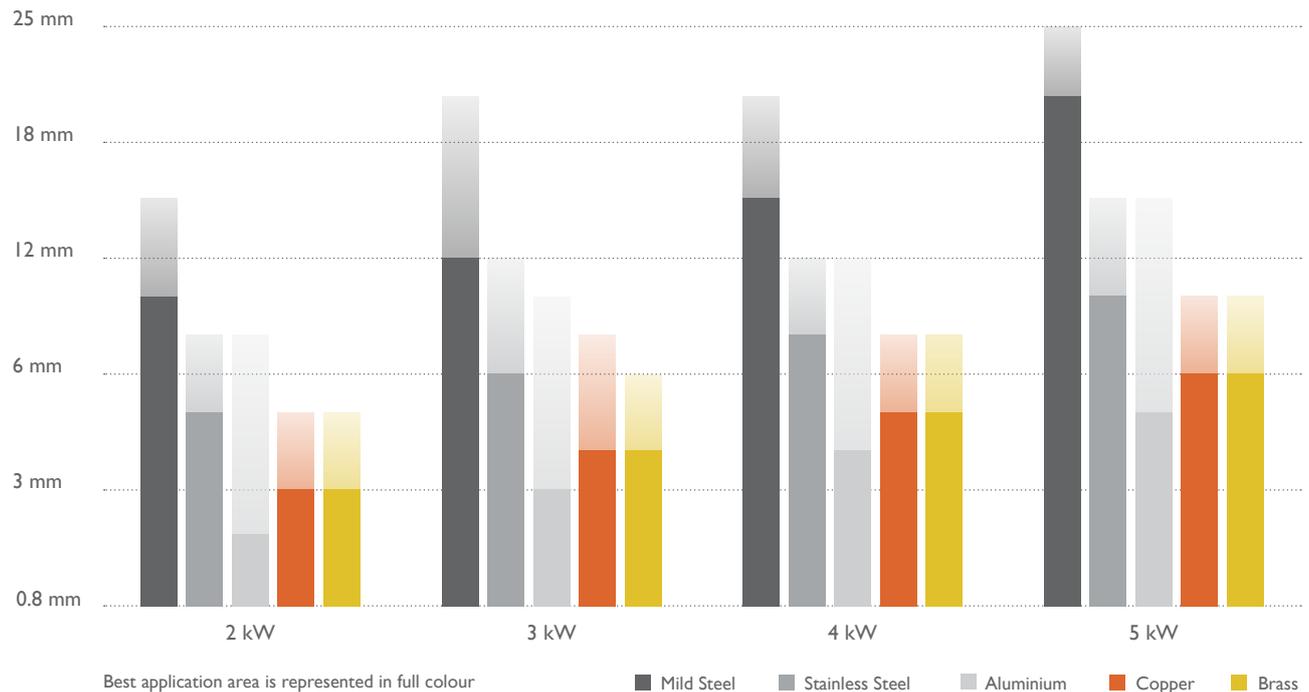
Easy to install, use, and maintain.

# Mastering fiber laser technology

## Wide range of materials

PLATINO 2.0 Fiber cuts varied materials and thicknesses, up to 25 mm of mild steel, with efficiency and quality. Productivity increases particularly with thin and medium-gauge sheet metal.

PLATINO 2.0 Fiber is equipped with the high brilliance fiber laser. It is available with laser powers ranging from 2 kW to 5 kW, to meet customer's specific needs.



## Tailored on your needs

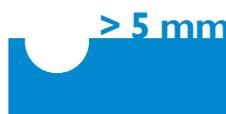
In order to meet our customer's requests, we have created three suites of options to better fit the different production needs:

### SMART CUT



Faster processing of **thin sheets** up to 5 mm thickness.  
N2 technology.  
Grants cycle time reduction up to -30%

### MAX CUT



Faster processing of **thick sheets** thanks to cycle time reduction up to -40%

### NIGHT CUT



Enhanced monitoring for safer cutting and piercing processes, ideal for **intensive productions**.

# Enhancing your profit

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## SMART CUT



This option suite is the right solution to grant faster processing of thin metal sheets (up to 5mm) where N<sub>2</sub> technology can be applied: this is possible thanks to technological solutions, like Smart Moves and Grid Cutting, able to reduce the downtime due to head positioning time.

The result is a reduction of cycle time up to 30%.

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## MAX CUT



This option suite has been designed for thick metal sheets processing: we have been able to give the customers an astonishing cycle time reduction up to 40% due to advanced solutions, like Nitrogen Piercing and Hi.Piercing, that increase piercing quality while lowering the time.

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## NIGHT CUT



For intensive productions, Prima Power provides this option suite that maximizes the productivity enhancing the monitoring of the process.

This is possible thanks to advanced monitoring devices able to check the status of the process and intervene in case of errors by restarting the operation or informing you remotely; LPM, monitoring piercing operation, Plasma and Tip-Touch Restart, keeping control of the cutting process, E-mail dispatching, alerting the operator in case of machine failures.

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# Flexible and efficient

## Fiber laser head

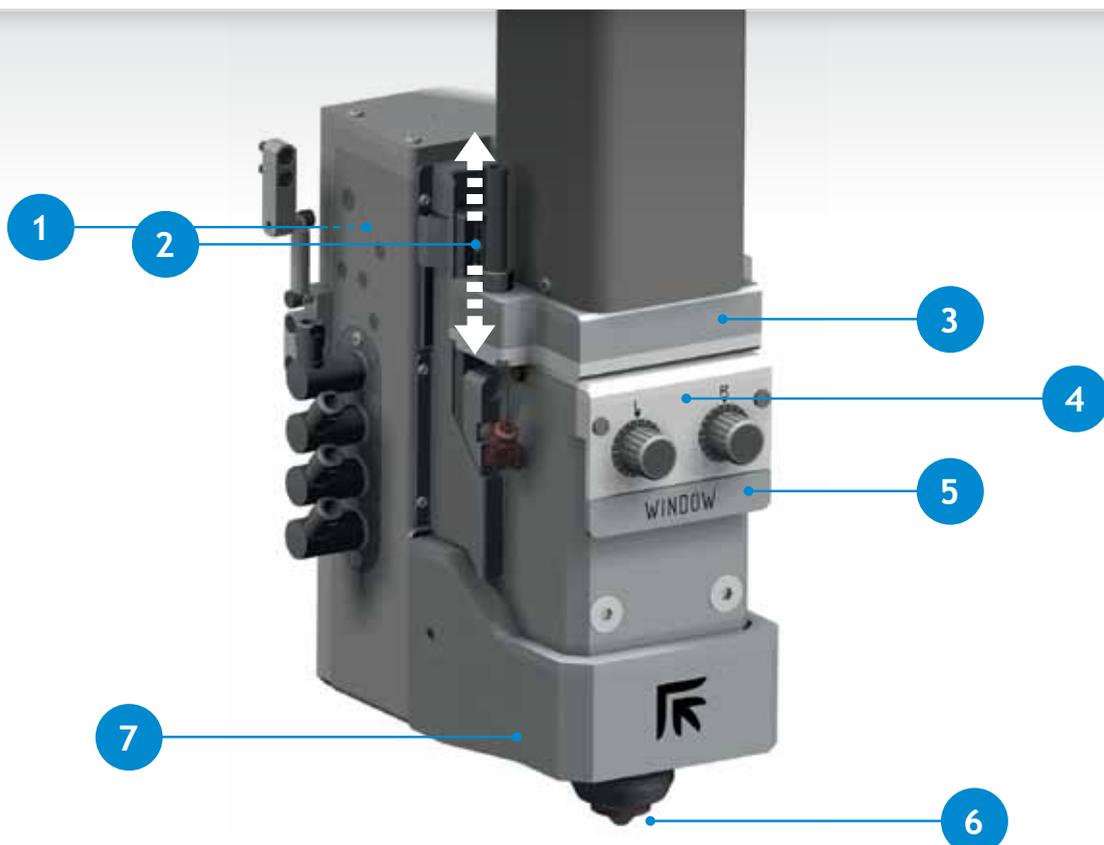
PLATINO 2.0 Fiber head is equipped with a single focusing lens suitable for any production need.

The high flexibility of the machine can be exploited with no additional time.

The optical chain is totally sealed and protected from any contamination, due to a dedicated drawer; the protection glass can be easily exchanged keeping the optics safe and reliable.

Further features of the PLATINO 2.0 Fiber head:

- 1 SIPS (Safe Impact Protection System) protecting the machine head in case of collisions with workpieces or fixtures
- 2 High dynamics focal axis with 35 mm stroke
- 3 LPM, automatic plasma restart
- 4 Lens drawer with quick alignment system (OPC)
- 5 Protection glass drawer for easy inspection
- 6 Wide range of nozzles for any application, automatically exchangeable (optional)
- 7 Nitrogen piercing



# Open and ergonomic



*Open Cabin*

## **Machine features**

Compact design provides **minimum footprint, easy transportation, and installation.**

Unique machine design using a synthetic granite frame offering the **best thermal stability and vibration damping.**

Cantilever design for **maximum accessibility and ergonomics.**

New design Lean Cabin with roof and fiber-safe window for **easy installation.**

An additional Open Cabin with fully opening sliding doors with fiber-safe windows for excellent visibility of the work area, and **accessibility for the operator.**

Sheet metal supporting table with scrap collector: **drawer or optional conveyor.**

Efficient fume exhausting designed to **focus where needed.**

# Easy use and smart programming

## Numerical Control

### P30L, the latest generation of Prima Electro CNC:

- User-friendly slim console with 17" LCD touch screen and trackball
- High computational power and more powerful HMI, Windows® embedded: multilevel user access depending on the credentials
- Advanced algorithms for optimal trajectory management
- TOB (Tables-On-Board): technological parameter available in numerical control
- Compatible with all previous versions and all Prima Power machines
- Maintenance Manager: monitors the wear of the components
- Management of main axes and ready for additional ones (e.g. tube processing)

Prima Power can also offer proprietary solutions for Performance and Production Reporting.

## Programming

For off-line programming PLATINO 2.0 Fiber takes advantage of the user friendly and fast MAESTRO-Libellula® and NC Express e<sup>3</sup> systems.

MAESTRO-Libellula and NC Express e<sup>3</sup> provide all the features required for best programming of laser machines: CAD, CAM, PostProcessor, DataBase utilities, Reports, Order management

Main Features of MAESTRO-Libellula and NC Express e<sup>3</sup>:

- highly effective and accurate Nesting Module to reduce manual preparation work and sheet usage
- Tables on Board (TOB) technological parameters imported from numerical control
- ERP connection: list of orders automatically imported



# Different configurations suitable to every

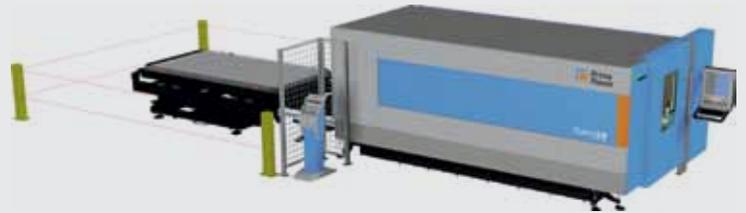
## MASKED-TIME LOADING/UNLOADING

### Automatic pallet changer

External loading/unloading station with second pallet.

Manual loading and unloading of sheets in masked time.

Automatic sheet change.



## 24/7 PRODUCTION

### Tower Server

Loading/unloading devices for handling blanks and processed sheets.

Storage tower with 10 or 15 pallets.

Single sheet separating and control systems and sheet reference.



### LST (automatic part stacking)

Automatic sorting and stacking device fully integrated with the laser system.

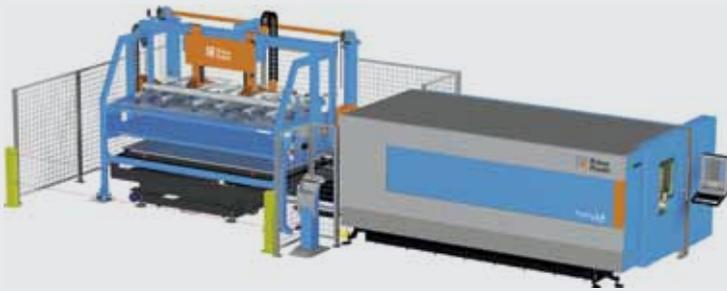
Cut parts are picked from table after cutting with Robot Assisted Laser Cut (RALC).

Easy management of parts into a fixed table, wagon or Night Train FMS®/Combo FMS® storage cassette.

Fully compatible with all our other automation systems.



# production need



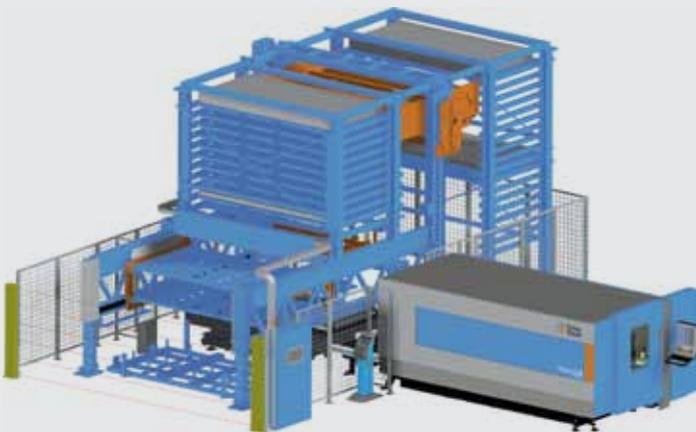
## Compact Server

Loading/unloading device for handling blanks and processed sheets.

Two storage units (one for the blanks and one for the processed sheets).

Single sheet separating and control systems and sheet reference.

Smallest footprint.



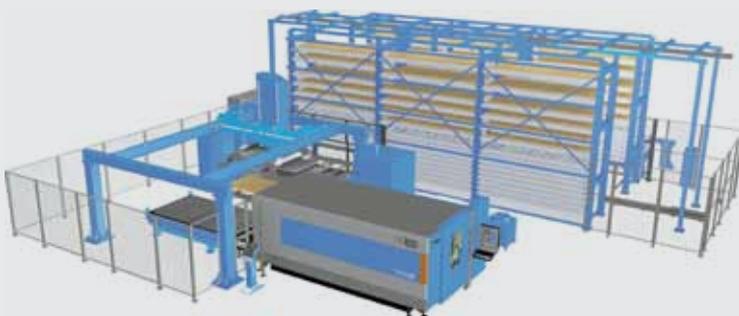
## Tower Server Twin

Loading/unloading devices for handling blanks and processed sheets.

Two storage towers with 28 or 38 pallets.

Single sheet separating and control systems and sheet reference.

Optimal system capacity/footprint ratio.



## Night Train FMS

Loading/unloading unit for handling blanks and processed sheets.

Fully automatic connection for multiple machines possible.

Flexible and modular layout.

In-house developed graphical control system and storage management.

Ideal for fully automated manufacturing and 24/7 operation.

# Around-the-clock production

Prima Power machines are highly reliable and are used worldwide in the harshest production environments and for the most demanding manufacturing schedules.

This makes them particularly suitable for 24/7 operation.

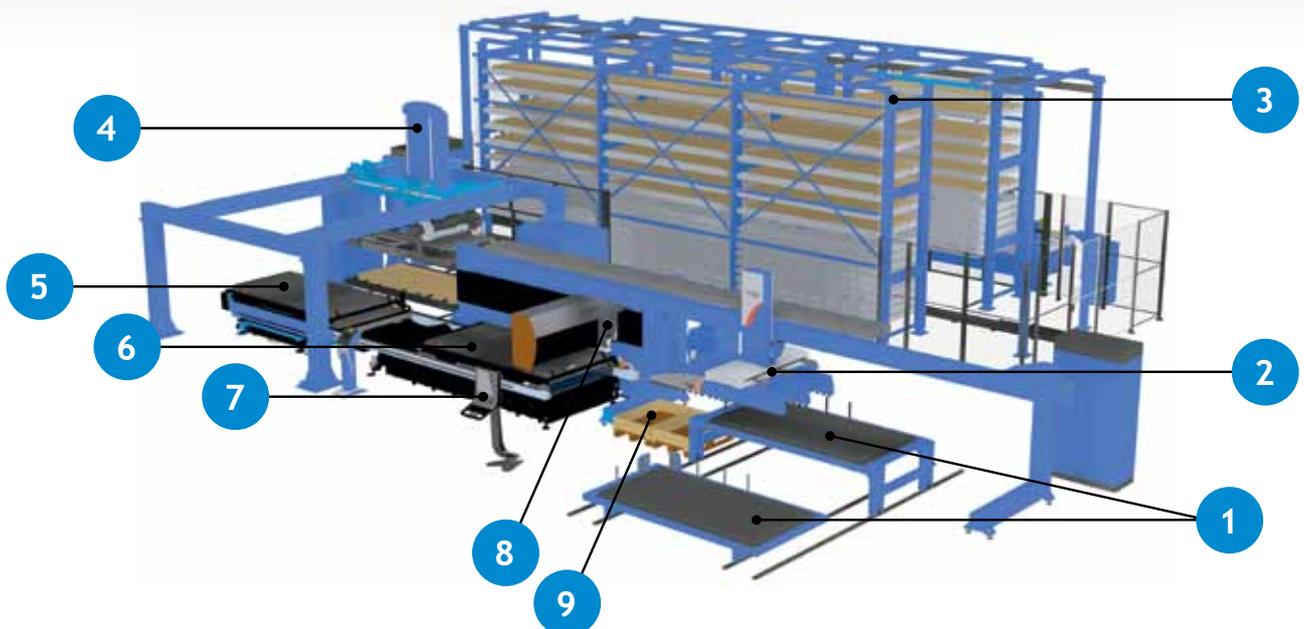
## Fully independent machine

The need for manual intervention during machine operation has been brought down to zero. Thanks to software solutions and various levels of automation once the production schedule is programmed, PLATINO 2.0 Fiber takes care of the necessary settings, tip replacement, sheet change and storage, etc.

No matter how high the production mix, how high the volume, or how strict the quality standards, PLATINO 2.0 Fiber can work 24/7, without interruptions, increasing your production capacity and efficiency.

**PLATINO 2.0 Fiber can also be combined with our automation devices to create a complete system for the whole working process.**

- 1 Lower and upper wagon for stacked parts
- 2 Gripper-stacking robot for LST
- 3 Night Train
- 4 Main frame of gripper unit for LU
- 5 Elevator (PA - automatic pallet exchanger)
- 6 Table with slats (PA - automatic pallet exchanger)
- 7 CNC
- 8 Cutting head
- 9 Box to collect small parts



# Technical specifications

## Platino<sup>®</sup> 2.0

PF 1530-2D

### WORKING AREA (\*)

X = 3,000 mm

Y = 1,500 mm

Z = 150 mm

### MAXIMUM SPEED

X,Y: 100 m/min

Maximum combined speed: 140 m/min

### LINEAR AXIS RESOLUTION

0.001 mm

### ACCURACY (\*\*)

X,Y,Z

Positioning accuracy (Pa): 0.03 mm

Repeatability (Ps): 0.03 mm

- according to VDI/DGQ 3441 standards

- length of measuring: complete stroke

### TUBE CUTTING (OPTIONAL)

CNC-controlled rotary axis for the cutting of round and rectangular tubes

### MAXIMUM OVERALL DIMENSIONS

(automatic pallet and protection cabin included, water chiller, fumes extractor and photocells excluded)

Length

10,500 mm

Width

3,400 mm

Height

2,200 mm

### WEIGHT (BASIC MACHINE)

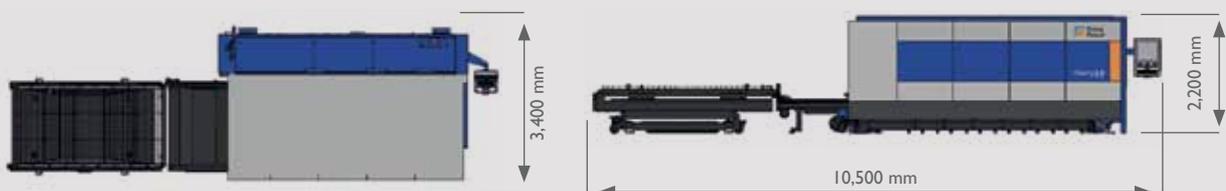
12,000 kg

### STANDARD FIBER LASER POWER

2,000 W - 5,000 W

(\*) Dimensions in inches: X = 120, Y = 60

(\*\*) The accuracy of the piece depends on its type, size and pre-treatment, and the conditions of application.



[primapower.com](http://primapower.com)

