



- The Bend
- The Combi
- The Laser**
- The Punch
- The System
- The Software



platinio®
The laser for everyone

For everyone, for everything

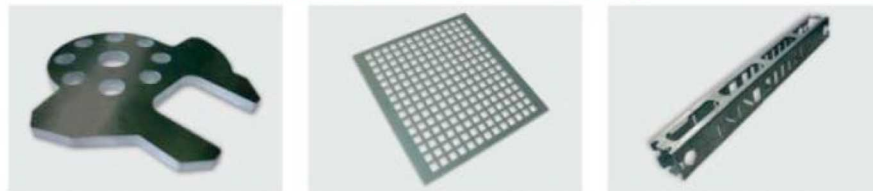
PLATINO® is the general purpose 2D laser cutting machine by Prima Power utilized around the globe across a multitude of applications, manufacturing demands, and budgets.

PLATINO® cuts a broad range of materials and thicknesses with speed and precision without the need for manual adjustment. Change over to tube processing can be achieved with zero setup time. Available in two sizes (1530 and 2040) and with laser powers ranging from 2,500 W to 5,000 W, PLATINO® is suitable for every application.

Thanks to its wide range of automation modules, PLATINO® is the right solution for both small batches and large-scale production.



Wide application versatility



Many good reasons to choose Platino®



The profit

- || Best performance/price ratio
- || Wide range of materials and thickness
- || Tubes and profiles cutting capabilities
- || Energy efficient DC excited laser
- || Compatible with all previous versions of all Prima Power laser machines
- || Floor space saving - compact automatic loading, unloading and storage
- || Easy and fast Prima Electro P30L operating interface - fast setup and less waiting time
- || Limited initial outlay and low running costs

The footprint

- || Compact & automated - less factory logistics
- || High productivity - more output during machine run
- || Total accessibility for loading/unloading and maintenance
- || Synthetic granite frame - less CO₂ compared with conventional welded structures



Easy and accessible

Machine

- Highly compact, monolithic architecture for minimum footprint and ease of transport and installation
- Unique machine design using a synthetic granite frame offering the best thermal stability and vibration damping
- Cantilever design for maximum accessibility to the machine
- Safety cabin with wide polycarbonate windows for optimal visibility; fully opening sliding doors for easy accessibility



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
- Advanced algorithms for optimal trajectory management
- TOB (Tables-on-Board)
- Compatible with all previous versions and all Prima Power laser machines



Flexible and efficient

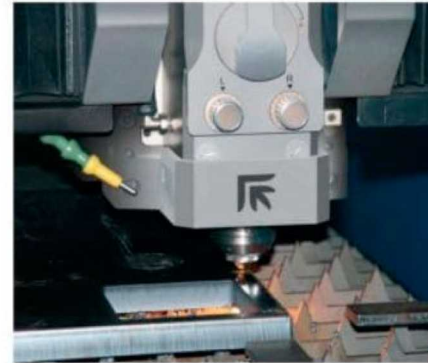
Laser head

The PLATINO® head can be equipped with different lenses according to production needs. Lens change is fast and easy thanks to the cartridge design of the head.

With the set of lenses provided (5", 7.5" or 9"), machine productivity and cutting quality are boosted. Using the most suitable lens for each application you can optimize results, with a short setup time.

Other main features of the PLATINO® head:

- F axis for controlling the focal position independently of the Z axis
- Capacitive sensor for automatically maintaining the preset stand-off from the sheet metal
- SIPS (Safe Impact Protection System) protects the cutting head from any collision
- Optional 12-place automatic nozzle changer



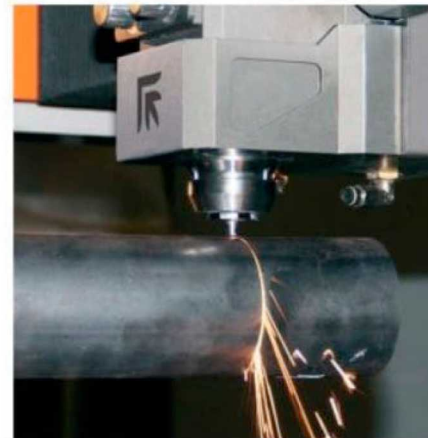
Worktable

- Robust worktable with pallet to support 2D workpieces, divided into sectors to optimize fumes extraction
- Scrap collection drawers, with wheels for easy movement
- Rotary axis support and lunette integrated with the table

Tube processing

PLATINO® can be equipped with a rotary axis.

With zero setup time the machine can change from cutting flat sheet metal to processing round, square and rectangular tubes.

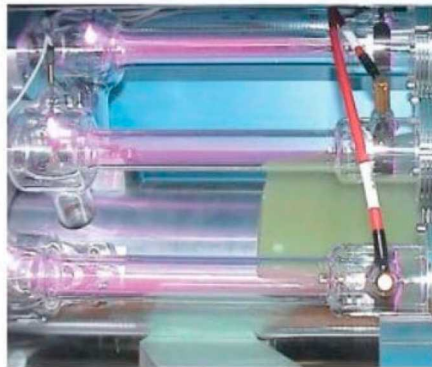


Technology at your service

Laser

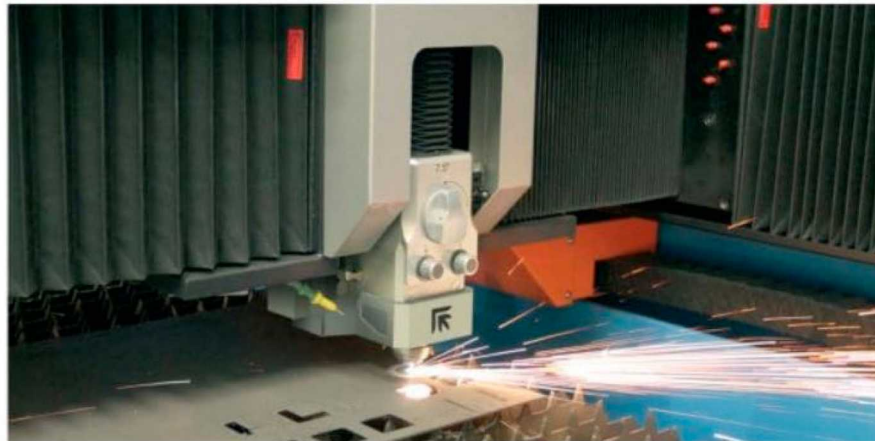
The PLATINO® laser source, up to 5,000 W, is the CO₂ laser manufactured by Prima Electro:

- || High power rates
- || The best efficiency for a CO₂ laser
- || Extreme flexibility (cutting from 0.5 to 25 mm thickness with high performance and quality)
- || Reduced maintenance
- || Latest electrical and mechanical technology: solid state HVPS, turbine with magnetic bearing



Main technological functions

- || The Laser Piercing Monitor (LPM) optimizes the piercing process, enabling considerable reduction in the cycle time
- || Plasma Monitoring for plasma detection during cutting and advanced restart functions
- || New smart piercing: 3-channel tip for fast air/nitrogen piercing of mild steel
- || Cutting Technology Tables on Board (TOB)
- || Automatic Focus Finder
- || High-speed cutting with plasma formation



User-friendly and modular

Programming

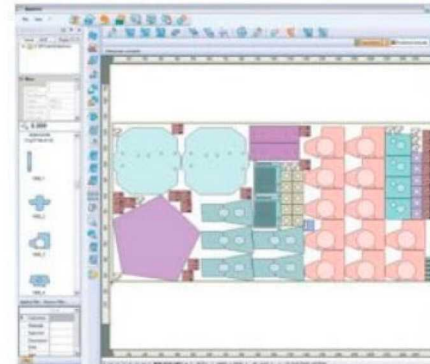
For off-line programming PLATINO® takes advantage of the user-friendly and fast MAESTRO-Libellula® system.

MAESTRO-Libellula® provides all the features required for better programming of laser machines: CAD, CAM, PostProcessor, Database Utilities, Reports, Order Management.

Main features of the MAESTRO-Libellula® are:

- || Highly effective and accurate Nesting Module
- || Tables-on-Board (TOB)
- || Integrated Virtual Machine with accurate production cost and time calculation and detailed and precise reporting
- || FBS (Fast Beam Switching) for grid cutting, to boost speed in case of parallel profiles

The cell software package integrated in the P30L control system ensures continuous and effective machine operation.



Automation

A wide and modular range of solutions for the automation of the sheet metal handling is available for all production types and sizes:

- || Pallet changer: fast change time and automatic adjustment of speed according to sheet weight. Extra drawers and skids between the two pallets improve scrap collection efficiency
- || Sheet loading arm to automate sheet feeding
- || Compact Server: two-storey automatic loading and unloading system with very small space requirement
- || Compact Tower: material storage and change system with highly reduced footprint. Extendable with additional towers in a modular way
- || Night Train FMS® for the most intensive and demanding production flows
- || Automatic sorting and stacking

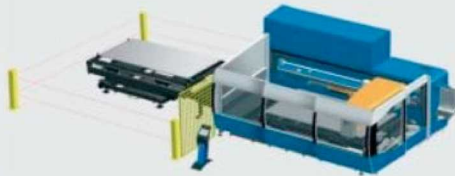


Different configurations

suitable to every production need

Masked-time

loading/unloading

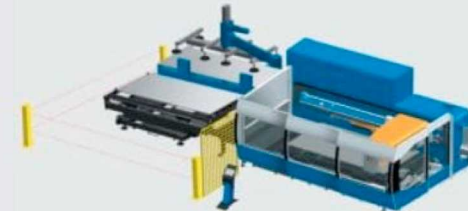


Automatic pallet changer

External loading/unloading station with second pallet.

Manual loading and unloading of sheets in masked time.

Automatic sheet change.



Pallet changer and automatic loader

External loading/unloading station with second pallet.

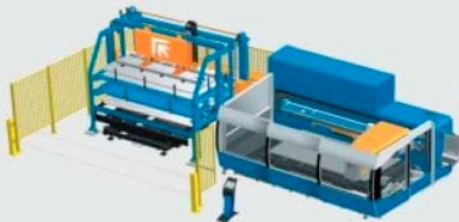
Loading arm for automatically feeding the sheets onto the external pallet, which can be positioned on either side of the pallet changer.

Automatic loading of sheets in masked time.

Automatic sheet change.

Unattended

production



Compact Server

Loading/unloading device for handling blanks and processed sheets.

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

Single sheet separating and control systems and sheet reference.

Smallest footprint.



Compact Tower

Loading/unloading devices for handling blanks and processed sheets.

Storage tower with 3, 10 or 15 pallets.

Single sheet separating and control systems and sheet reference.

Optimal system capacity/footprint ratio.

Compact Tower Extended (two storage towers with 26 or 36 pallets).



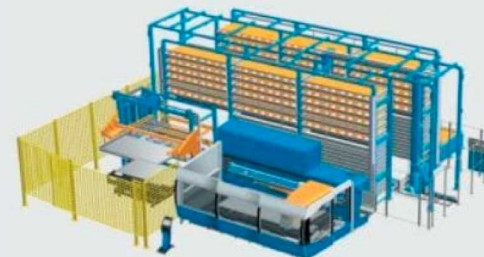
Automatic sorting and stacking

Automatic sorting and stacking device connected to the machine right side (left side free for other automation modules).

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

Software managed stacking on a fixed table, wagon or Night Train FMS®/Combo FMS® storage cassette.

Gripper with programmable suction cup areas.



Night Train FMS®

Loading/unloading devices 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 unattended operation

Solutions for unattended production

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

PLATINO® is particularly suitable for 24/7 operation, often performed in unattended mode.

Fully independent machine

The need for manual intervention during machine operation has been brought down to zero. Once the production schedule is programmed, PLATINO® takes care of the necessary settings, tip replacement, sheet change and storage, etc.

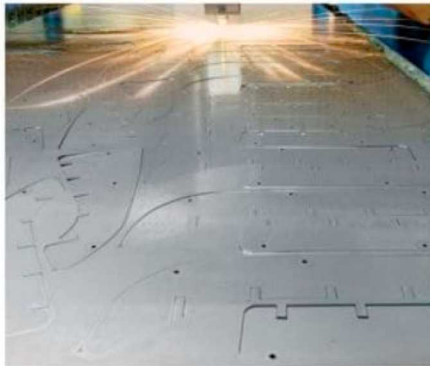
No matter how high the production mix, how high the volume, or how strict the quality standards, PLATINO® can work 24/7, without interruptions, with reliable results, even when operating completely unattended.

Software solutions and various levels of automation allow the machine to work efficiently and reliably on its own.

Automatic control and solutions

A wide range of support functions are available for the system:

- || Automatic restart
- || Automatic switch-on/off
- || Failure notification via email or SMS
- || Teleservice for remote diagnostics and assistance



Technical specifications

Working area	X mm	Y mm	Z mm
PLATINO 1530	3,065	1,539	150
PLATINO 2040	4,080	2,047	150
Maximum speed (X,Y)	100 m/min (maximum combined speed 140 m/min) 80 m/min (maximum combined speed 110 m/min)		
Accuracy (*): • according to VDI/DGQ 3441 standards • length of measuring: complete stroke X,Y,Z	Positioning accuracy (Pa): 0.03 mm Repeatability (Ps): 0.03 mm		
(*) the accuracy of the piece depends on its type, size and pre-treatment, and the conditions of application.	Diameter from 40 to 300 mm and from 80 to 350 mm Passing hole 130 mm Maximum tube length 3,000 mm		
Optional rotary axis: (for round and rectangular tubes)			
Maximum overall dimensions (automatic pallet changer and protection cabin included, water chiller, fumes extractor and photocells excluded)	Length mm	Width mm	Height mm
PLATINO 1530	10,600	3,540	2,500
PLATINO 2040	12,900	4,200	2,500
Weight (basic machine)	PLATINO 1530 ~10,000 kg PLATINO 2040 ~12,000 kg		
Standard CO ₂ laser power	2,500 W - 5,000 W		
Colours	Fixed parts: RAL 5015 - RAL 9006 Moving parts: RAL 2008		

