Technical Specifications

Work area	X	Y₁	Z	Y₂*
	mm	mm	mm	mm
MAXIMO	3,000	1,500	150	6,000-36,000

Axis Speed X,Y₁ Y₂	100 m/min (140 m/min combined) 15 m/min

Axis resolution (X,Y₁)	0.001 mm

Axis accuracy ** (X,Y₁): • according to VDI/DGQ 3441 standards • measurement length: complete stroke	Positioning accuracy (Pa): 0.03 mm Repeatability (Ps): 0.03 mm

Maximum overall dimensions (water chiller and fumes extractor excluded)	Length (L)	Width (B)	Height (H)
	mm	mm	mm
MAXIMO	15,400-45,700	5,750	3,000

Colours	RAL 5015 - RAL 9006 - RAL 2008
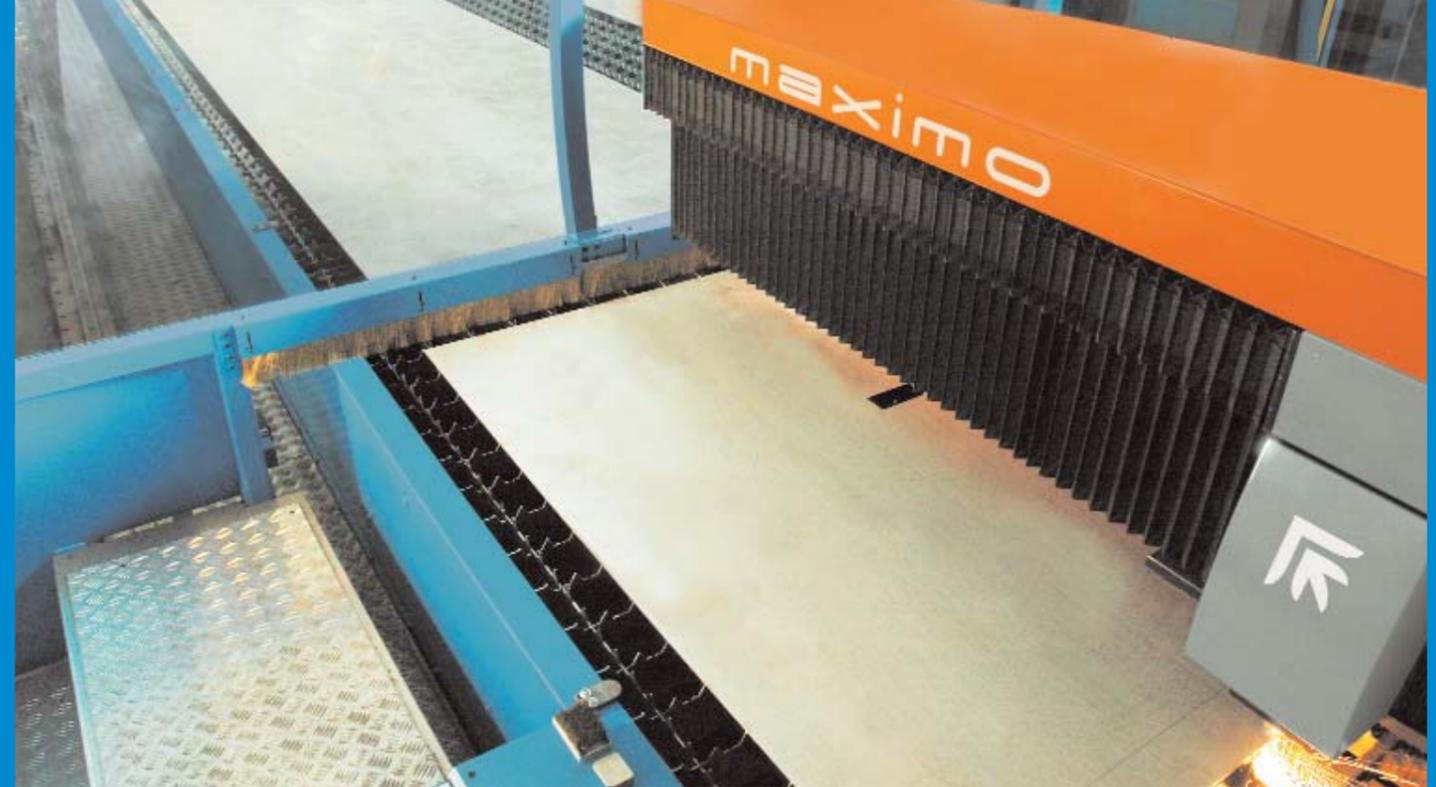
NOTES:

(*) Actual Y₂ stroke: from 7,740 mm to 37,980 mm for machine "parking" area.

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

Prima Power
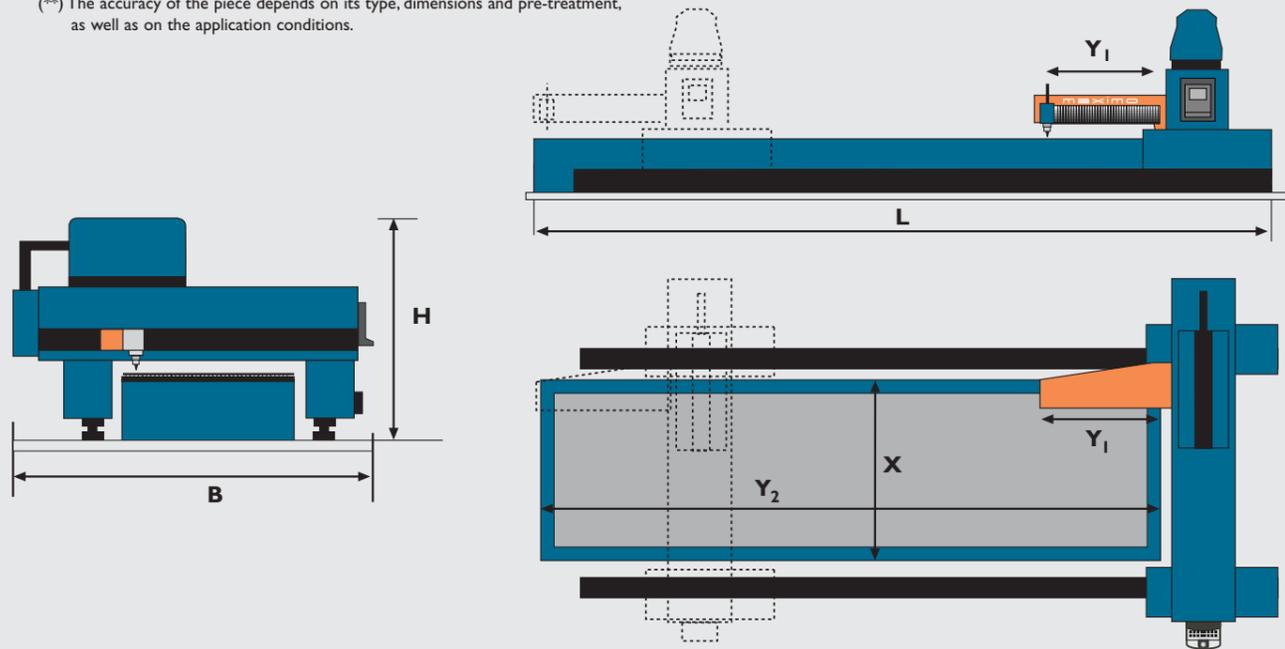
primapower.com

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

maximo
The long and short of laser cutting

MAXIMO is a large cutting system based on the well proven 2D laser machine PLATINO by Prima Power.

MAXIMO boasts all the advantages of PLATINO, combined with a very large work area.
This result is obtained with a simple but highly effective solution: a complete PLATINO machine - with its mechanical structure, laser generator, CNC, moving carriages, optical chain and focusing head - travelling on rails over a fixed working table, processing sheets up to 36 m in length.

In addition to the movement axes of the PLATINO machine (the Z axis for the vertical movement, the X and Y_1 axes for the longitudinal and transversal motion), MAXIMO features a further Y_2 axis, which allows the machine to move beyond its Y_1 axis stroke, as far as the sheet metal to be processed requires.

MAXIMO can be equipped with one or more support tables (length according to application) and the relevant devices for fume extraction and scrap collection.

The sheet metal remains fixed during the working process: it is the machine that moves to reach the area to be machined.

- off-line programming system MAESTRO-Libellula® - fast, simple and smart,

- optional remote console for using the machine during Y_2 movements,

- optional webcam for remote control of the working area during the process.

▌ Safety: protection cabin fully enclosing the working area.

MAXIMO takes advantage of all PLATINO's features, making the machine highly reliable, easy to learn and user friendly to operate.

▌ the focal axis, which allows cutting a variety of materials and thicknesses without manual interventions and keeps the process accurate in the entire work area;

▌ rapid lens changing system (from 5" to 10");

▌ head equipped with anti-collision safety device;

▌ fast-piercing unit for ferrous material of higher thicknesses;

▌ LPM (Laser Piercing Monitor) for optimising the processing of thick material;

▌ Plasma Monitoring & Automatic Restart.

Flexible work area

This architecture gives the system great flexibility and allows the working area to be matched to the sheet metal to be processed:

▌ "local" work area: for sheets with moderate size (up to 3,000 x 1,500 mm) it is possible to use the high dynamic local X and Y_1 axes;

▌ "long distance" work area: for long and very long sheets the X and Y_2 axes are used, adding the Y_1 axis when required for local cutting operations at high speed (e.g. holes and slots);

▌ "split" work area: the Y_2 axis stroke can be also divided into two or more work areas; in one area the sheets are loaded and unloaded while the machine operates in the other one(s).

Thanks to this solution, there is no idle time due to material handling and no need for additional complex and costly devices such as pallet exchange systems.

MAXIMO is quick and easy to install. No complete foundation is necessary: thanks to a patented solution for the main carriage guidance and isostatic support, only two plinths of the same length as the Y_2 axis stroke are needed.

MAXIMO highlights

▌ Speed: 140 m/min (combined X and Y_1);

▌ Ergonomics and user-friendliness:

- CNC P20L by Prima Electro - Windows® HMI, 15" touch screen, trackball, Technology tables On Board,