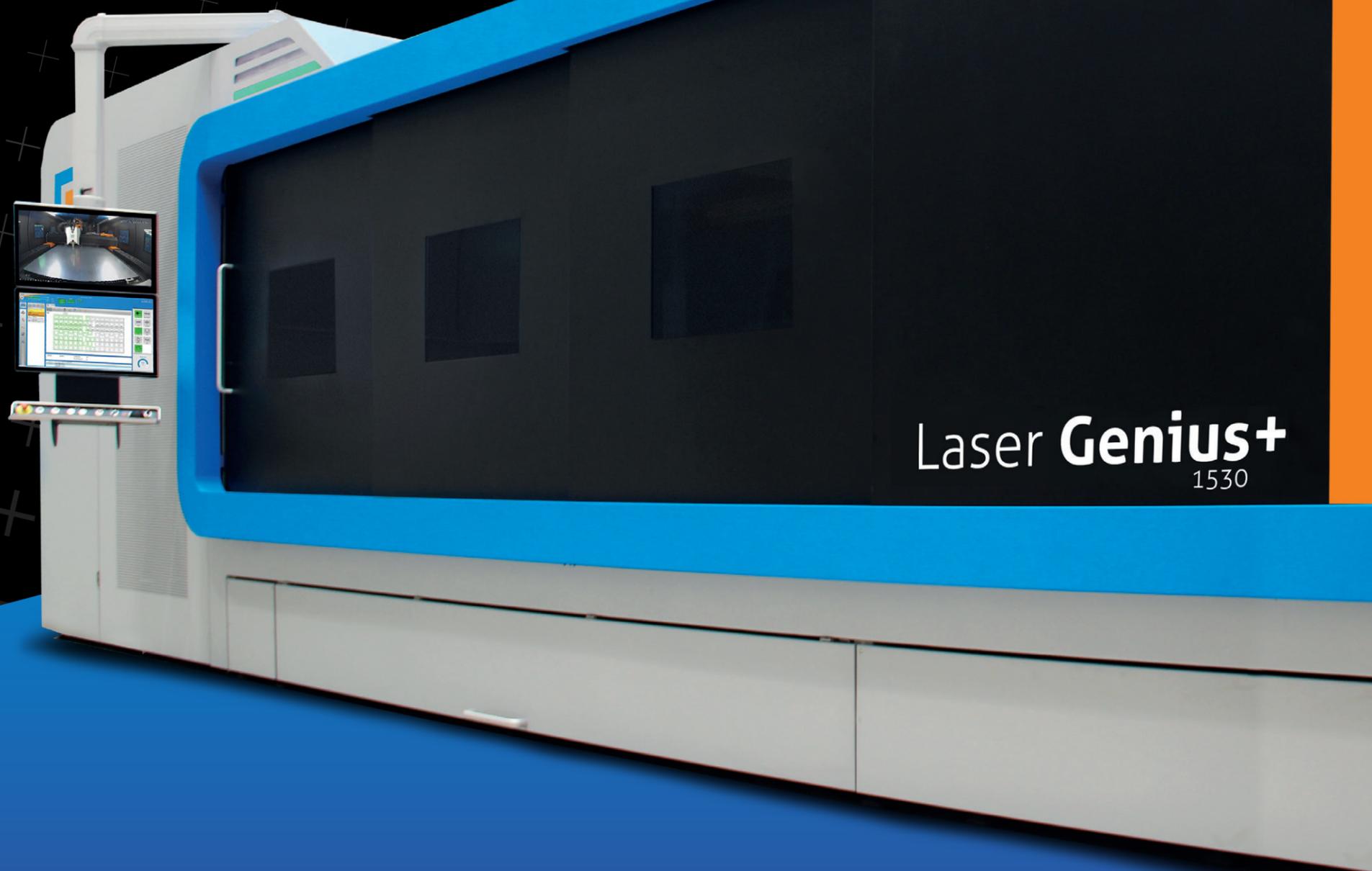




# Laser Genius+

Beyond Better.  
It's Plus



Laser **Genius+**  
1530

# + We shape the new era of laser cutting

It is time to reconsider the standards, to raise expectations, to seek absolute precision, to improve reliability and performance.

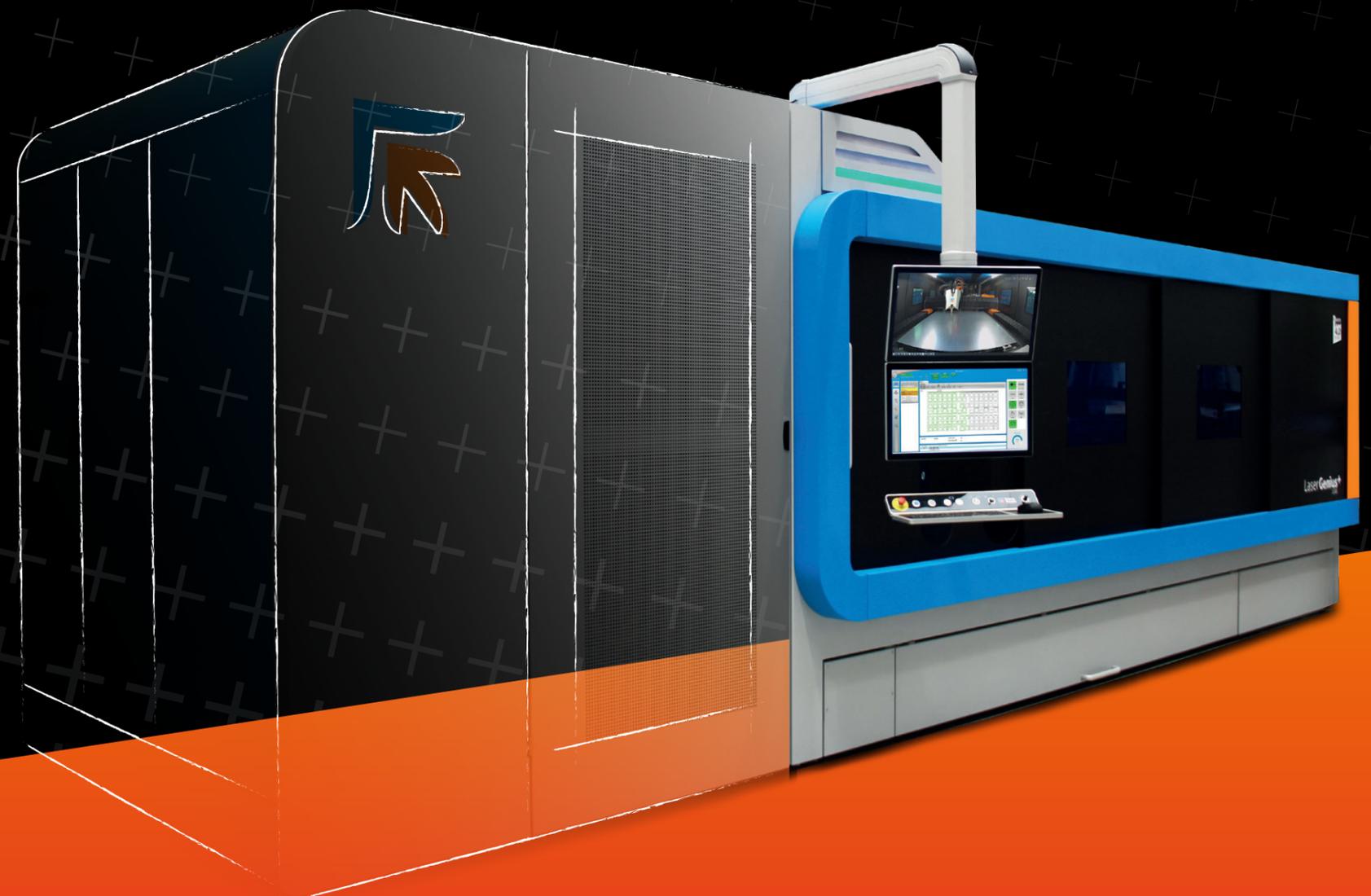
The **new era of efficiency begins with the Laser Genius<sup>+</sup>**, the innovative 2D laser cutting machine fully designed and built in Italy; available in 1530, 2040 and 2060 sizes.

Proprietary hi-tech solutions, the very best components available and solid architecture characterize a new machine that has been developed with an **all-round pragmatic approach**.

Every detail is optimized: to facilitate and to speed up commissioning, to reduce and simplify maintenance and above all to increase performance.

**Cut larger and heavier pieces more precisely and at higher speed, saving space and man-hours.** All of this is now possible through an immediately more sustainable investment with much faster cost recovery.

**This is a new era, one where you can expect the best. And get more.**



# Laser Genius+

**Styling**

Bonetto Design

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**Development and production**

Prima Power

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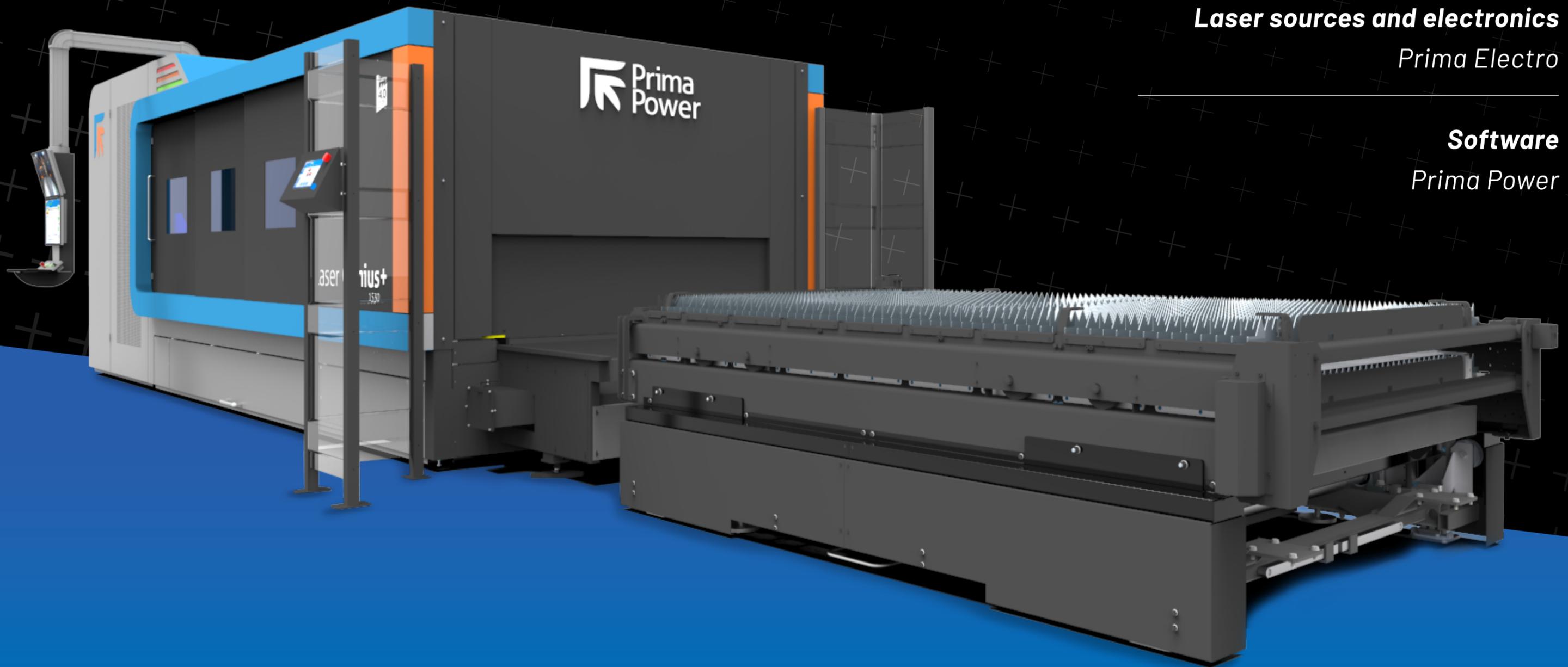
**Laser sources and electronics**

Prima Electro

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**Software**

Prima Power



# + Beyond accuracy It's precision<sup>+</sup>

Thanks to the high static and dynamic efficiency of the machine structure, the Laser Genius<sup>+</sup> is able to push fiber laser technology to maximum levels of accuracy.

These features, combined with the new fiber laser head, new electronics and innovative mounting for the optics and centering system, guarantee the Laser Genius<sup>+</sup> a **maximum level of precision and cutting quality.**

## LASER POWER OPTIONS

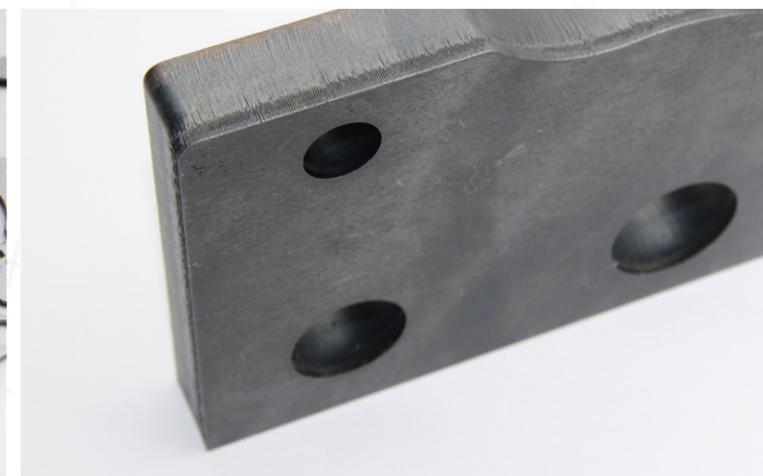
2,000 W - 3,000 W - 4,000 W - 6,000 W  
8,000 W - 10,000 W

## RESOLUTION

X, Y, Z: 0.001 mm

## POSITION ACCURACY (PA) AND REPEATABILITY (PS)

X, Y: 0.03 mm



# + Beyond rapidity It's high speed<sup>+</sup>

With high dynamic drives, the Laser Genius<sup>+</sup> reaches a speed of 180 m/min, making it **one of the faster and more productive machines on the market.**

## SPEED

Trajectory: 180 m/min

X,Y: 130 m/min

## ACCELERATION

Trajectory: 2.8 g

The Laser Genius<sup>+</sup> ensures high levels of productivity, thanks to:

- **pallet changer** with high dynamic electric lift for minimum cycle times
- **nozzle changer** with 20 stations
- **process control** in real time



# + Beyond the connection It's intelligence+

The Laser Genius+ is one of **the smartest and most interconnected machines that Prima Power have ever produced**, with new laser head sensors and artificial intelligence algorithms for advanced monitoring and process control functions.

 *Industry 4.0: visualization and reporting of production processes in real time thanks to Tulus Reporting*

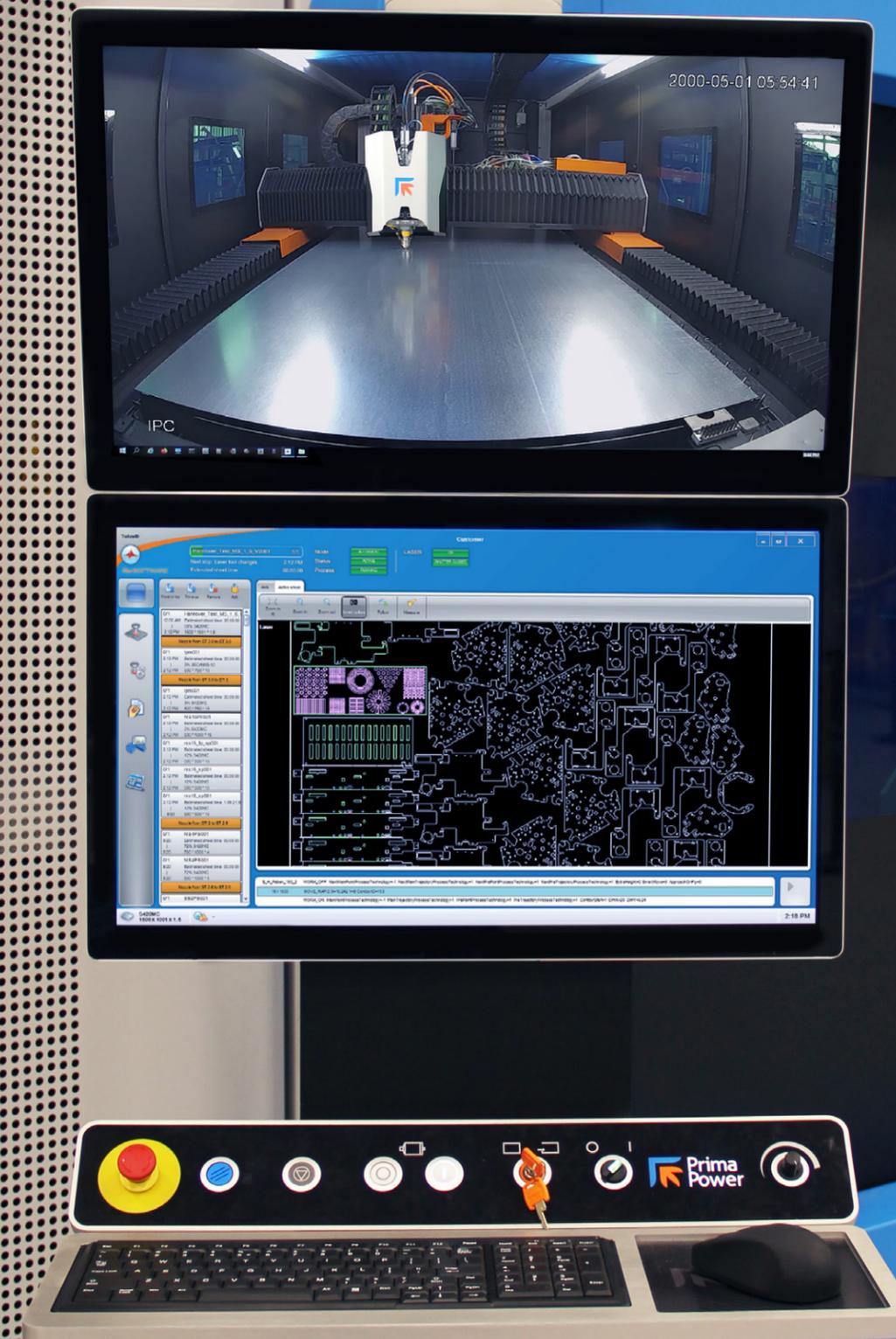
 *Camera and two Full-HD 24" monitors*

 *Notification system via e-mail and SMS*

 *Compatibility with Siemens MindSphere ecosystem*

 *Optia & Wizard*

 *2D editor*



# + Beyond ergonomics It's Laser Genius<sup>+</sup>

## BEST-IN-CLASS

With an extremely compact footprint, so much so that there is no comparison in the industry, the Laser Genius<sup>+</sup> has **the smallest floorspace requirements of all, equivalent capacity, 2D lasers on the market today.**

## THE QUICKEST INSTALLATION EVER

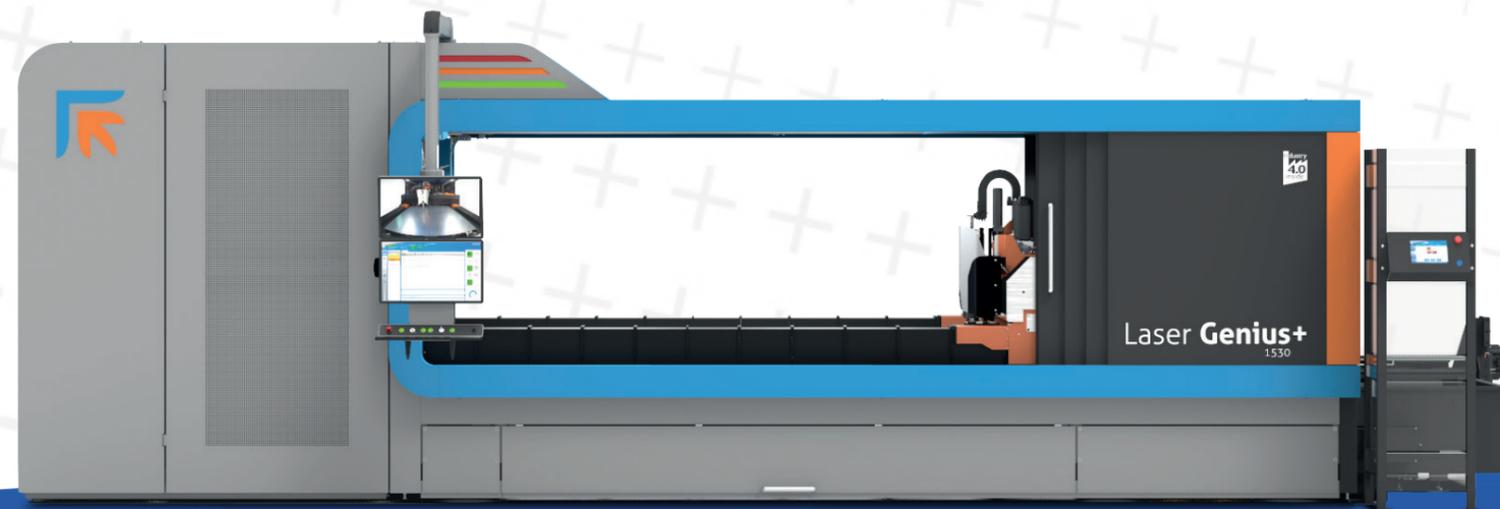
The Laser Genius<sup>+</sup> is a **plug-and-play machine.** The Laser generator, chillers, motors, optics and are integrated inside the cabin and ensure **ease and speed of installation:** just two days are enough to go from delivery to production in any factory.

## REVERSIBLE LAYOUT

The symmetrical and reversible layout of the Laser Genius<sup>+</sup> increases the **ease and flexibility of installing** the machine with better placement in any production context.

## HIGHEST ACCESSIBILITY

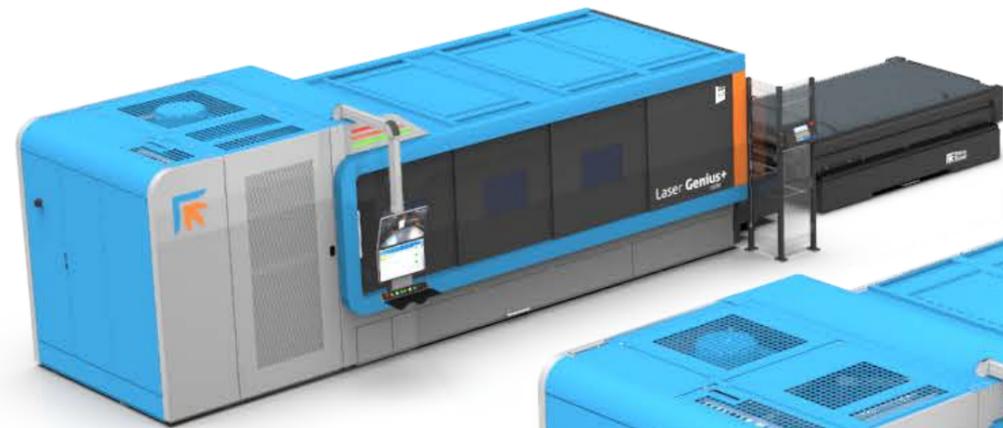
Thanks to optional opening doors on both sides of the machine, the Laser Genius<sup>+</sup> guarantees the **highest ergonomic standards and levels of accessibility** into the work area.



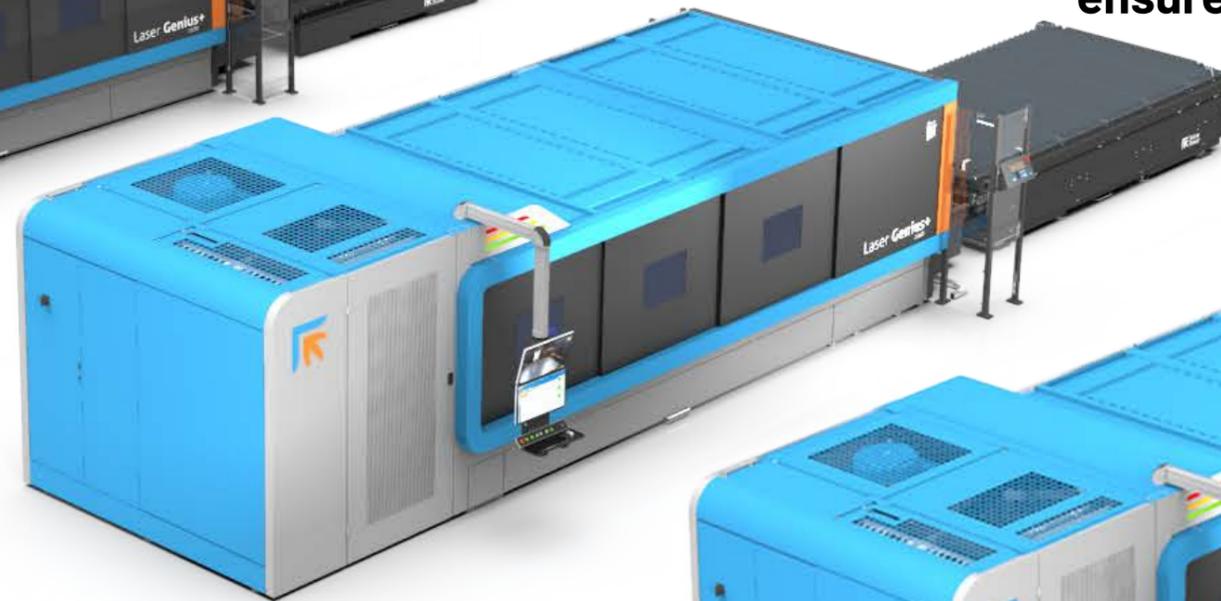
**+ Beyond standards  
Find the size that fits  
you best**

Laser Genius<sup>+</sup> is available in 1530, 2040 and 2060 size in order to meet the production needs of the widest audience of customers, while maintaining high performance in terms of dynamics, cutting quality and reliability regardless of the size of the machine.

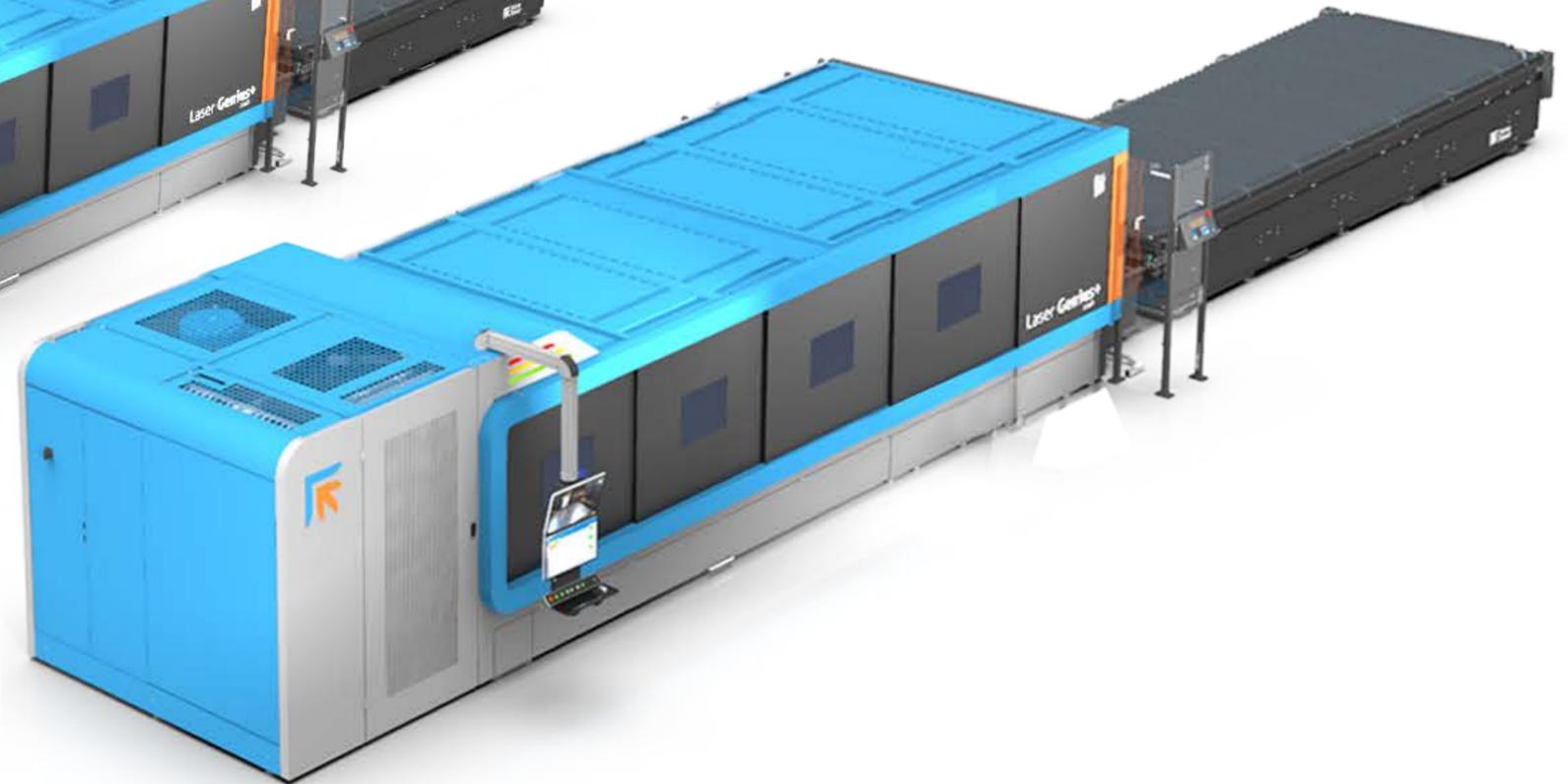
All of Genius<sup>+</sup> Laser automation solutions are available for both 1530 and 2040 product sizes **to ensure the highest level of production flexibility.**



Laser Genius<sup>+</sup> 1530



Laser Genius<sup>+</sup> 2040

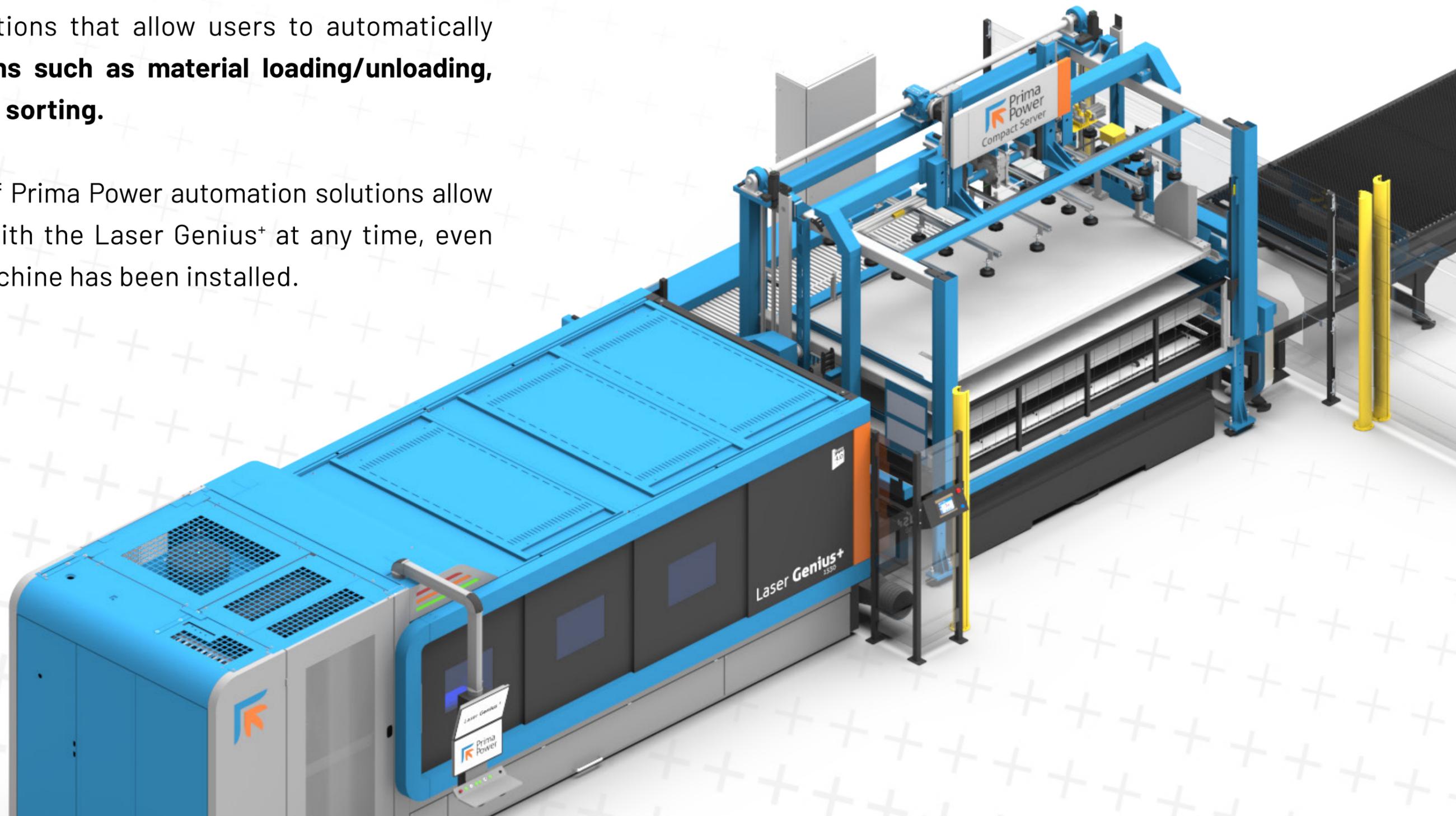


Laser Genius<sup>+</sup> 2060

# Solutions and automation modules for round-the-clock production

The Laser Genius+ can be integrated with a wide range of automation solutions that allow users to automatically **perform functions such as material loading/unloading, storage and part sorting.**

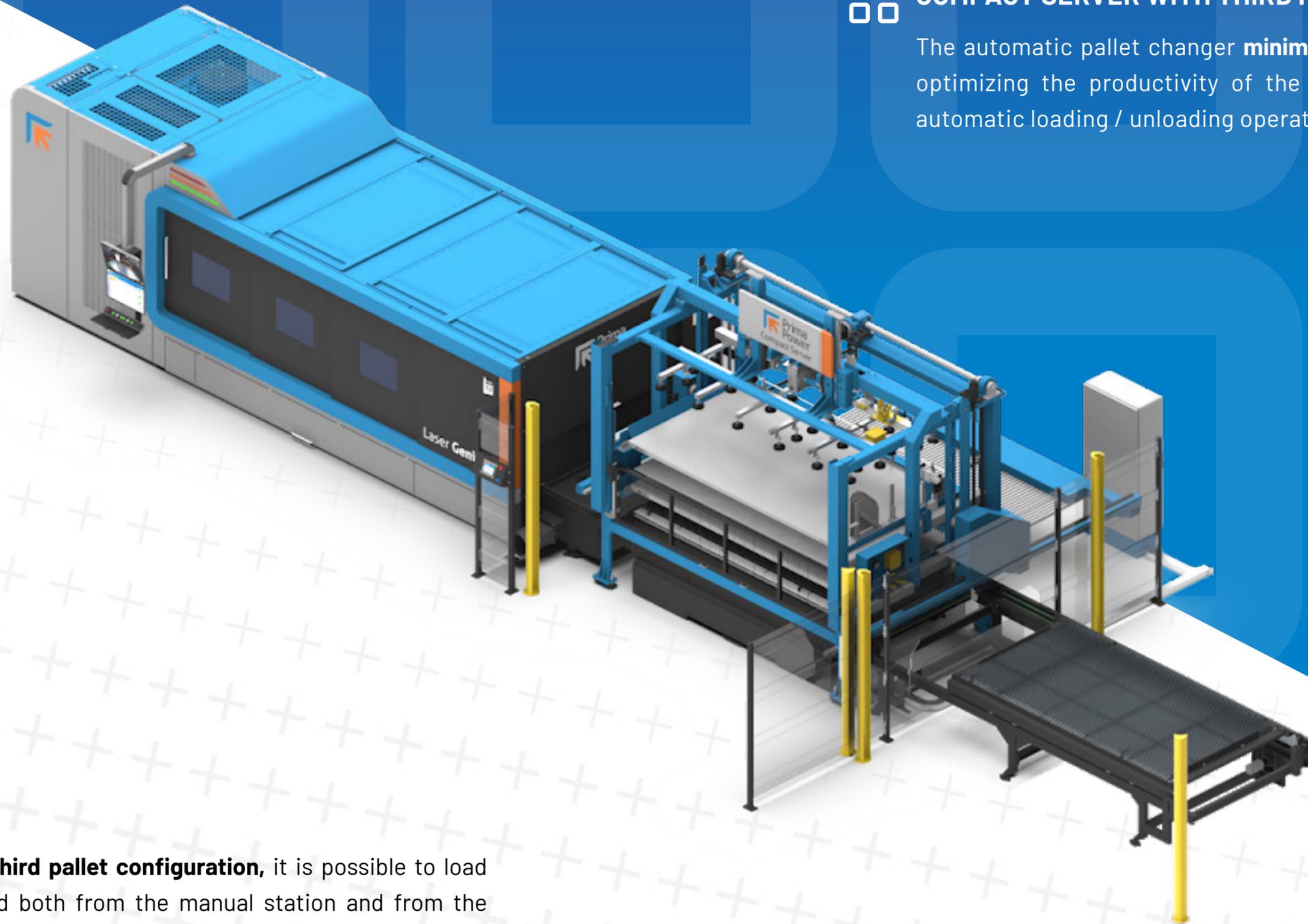
The modularity of Prima Power automation solutions allow for integration with the Laser Genius+ at any time, even well after the machine has been installed.





## COMPACT SERVER WITH THIRD PALLET

The automatic pallet changer **minimizes unproductive times**, optimizing the productivity of the machine thanks to the automatic loading / unloading operations.



With the **third pallet configuration**, it is possible to load and unload both from the manual station and from the automation, ensuring high production flexibility.

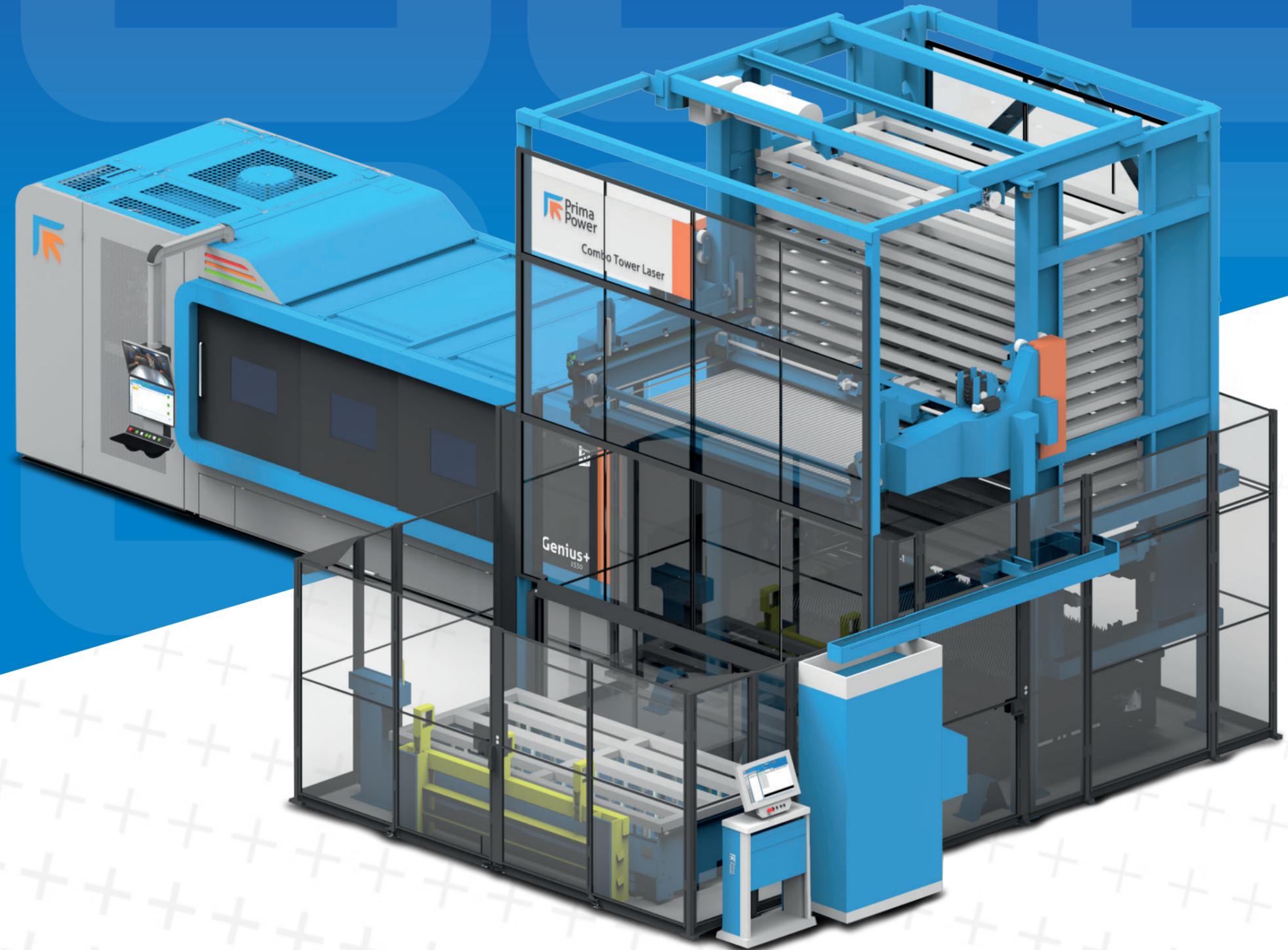
*Available for both Laser Genius<sup>+</sup> 1530 and Laser Genius<sup>+</sup> 2040*



## COMBO TOWER LASER

The Combo Tower Laser is a flexible storage system with integrated loading and unloading functions for 2D laser machines.

The Combo Tower Laser is a **key module to automate material flow**. It makes different materials available whenever needed automatically and without delays; it can also serve as intermediate storage for ready cut components along with the skeleton.

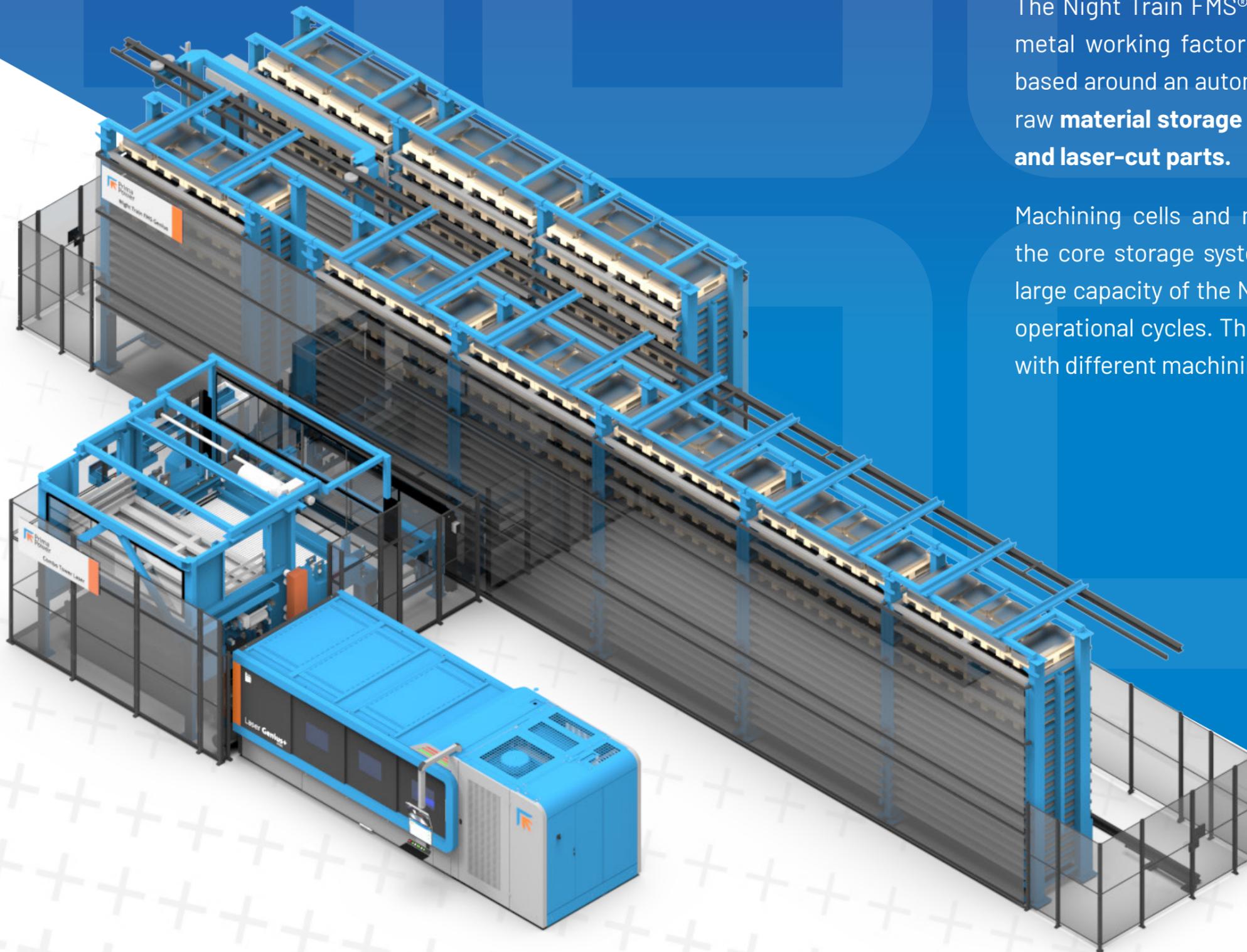


*Available for both Laser Genius<sup>+</sup> 1530 and Laser Genius<sup>+</sup> 2040*

## NIGHT TRAIN FMS®

The Night Train FMS® is a comprehensive solution for a sheet-metal working factory. Designed for automatic operation and based around an automatic storage solution, it can serve as both raw **material storage and buffer storage for punched, sheared and laser-cut parts.**

Machining cells and manual work stations are located around the core storage system. The automated material handling and large capacity of the Night Train FMS® allows for long, unmanned operational cycles. The Night Train FMS® can easily be expanded with different machining cells or additional shelves.



Available for both Laser Genius<sup>+</sup> 1530 and Laser Genius<sup>+</sup> 2040

# Prima Power Services<sup>+</sup>: Assistance way beyond the standard

The Laser Genius<sup>+</sup> and Prima Power's after-sales services are the key to starting and developing the production capacity of each system, and **keeping it at its peak potential**.



## **Remote assistance**

A remote monitoring system records the operational history, data on component use and machine alarms, storing the information in the Prima Power database and allowing systematic, planned maintenance along with easy troubleshooting.



## **Field intervention**

Thanks to a dedicated team, Prima Power are able to respond to customer demands for service and support, swiftly and effectively, at any time and wherever they are, keeping faith with our value of always being next to our customers.



## **Warranty extension**

Special warranty extension packages are available for all Laser Genius<sup>+</sup> customers.

# Laser Genius+

## LASER GENIUS+ 1530

## LASER GENIUS+ 2040

## LASER GENIUS+ 2060

### WORKING AREA

X: 3,150 mm  
Y: 1,600 mm  
Z: 150 mm

X: 4,320 mm  
Y: 2,200 mm  
Z: 150 mm

X: 6,320 mm  
Y: 2,200 mm  
Z: 150 mm

### SPEED

Trajectory: 180 m/min  
X,Y: 130 m/min

### ACCELERATION

Trajectory: 2.8 g

### LASER POWER OPTIONS

2,000 W - 3,000 W - 4,000 W - 6,000 W  
8,000 W - 10,000 W

### RESOLUTION

X, Y, Z: 0.001 mm

The technical performance of the machine is only guaranteed when the requirements indicated in the instructions, pre-installation and checklist (Prima Power Installation Book) are met. The machine is not intended for use in potentially explosive atmospheres (ATEX). All images shown in the document are for informational purposes only. We reserve the right to change the technical specifications without notice.

## LASER GENIUS+ 1530

## LASER GENIUS+ 2040

## LASER GENIUS+ 2060

### POSITIONING ACCURACY (PA) AND REPEATABILITY (PS)

X, Y: 0.03 mm

### MAXIMUM OVERALL DIMENSIONS

Length: 12,300 mm  
Width: 3,400 mm  
Height: 2,730 mm

Length: 14,800 mm  
Width: 4,100 mm  
Height: 2,730 mm

Length: 19,000 mm  
Width: 4,100 mm  
Height: 2,730 mm

(ancillaries and photoelectric barriers excluded)

### MAXIMUM PIECE WEIGHT

1,150 kg

2,000 kg

3,000 kg

### WEIGHT (BASIC MACHINE)

~12,000 kg

~16,000 kg

~19,000 kg

# All in one. **The only one.**

Prima Power offers a complete range of services for sheet metal processing and laser cutting.

A true **all in one** partner.

The **first and only** to develop the essential components of its products such as numerical control, automation, the laser head and its own fiber laser source.



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