



**CUTLITE PENTA**

**FAST**



# FAST

Cutlite Penta presents **FAST**, its new and revolutionary laser machine model, designed and tested to achieve **high movement speed during the cutting of medium and low thicknesses without compromising quality**, even on complex geometries. FAST stands out **for exceptional jerk, accelerations and speeds**, a result that derives from the application of Cutlite Penta's decades of experience in the internal design of each component of its laser systems for research and development activities devoted to achieving fast movement and high dynamics, rapid and snappy, but rigid and reliable.

The FAST model features a completely redesigned gantry to minimize weight, while preserving the rigidity necessary for a stable and replicable cutting process. The **base** has been reworked **with 100mm thick sides and a lowered center of gravity** in order to obtain a very low ratio between the mass of moving components and that of static parts placed horizontally inside the structure to optimize their dynamic performance, to perform movements with very high jerk, so as to maintain high speeds and accelerations during the entire cutting process without compromising geometries in direction changes or producing vibrations.

## Structure and movement

The combination of a particularly rigid and light gantry with a robust and massive structure, with 100mm thick sides, **returns a very low ratio between moving masses and static masses**, allowing to obtain a very high jerk and thus take advantage of the performance of linear motors without the rapid accelerations and sudden direction changes of the head affecting the cutting quality or its geometric accuracy.

## Cutting head

FAST mounts the proprietary Cutlite Penta head in its **EVO 3 version**, appreciated for its reliability even in the face of using high laser powers allowing extraordinary cutting performance in thin thicknesses, without giving up the ability to cut larger thicknesses.

## Power/speed laser source

The experience accumulated over time and the technical foundations of Cutlite Penta, combined with the use of high-power sources, allow the FAST model not only to cut large thicknesses but also to **obtain high speeds and excellent cutting quality** on medium and thin ones. The source, which stands out for high efficiency, excellent beam quality and low energy absorption, is contained in a conditioned and sealed **NEMA 12** cabinet so that it can operate even in hostile environments. The high reliability of these sources also contributes to reducing maintenance costs.

LASER POWER
6.000 W
8.000 W
12.000 W
15.000 W
20.000 W
30.000 W

FAST MODEL	WORKING AREA
3015	3000X1500 mm
4020	4000×2000 mm
6020	6000×2000 mm

WORKING AREA UP TO  
**6000 × 2000 mm**

POWER UP TO  
**30 kW**



ENGLISH



CUTLITE PENTA

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