

PLUS EVO

WORKING AREA UP TO
59 X 10 ft

POWER UP TO
30 kW

FEATURES

TWO LEVEL PALLET EXCHANGE
ULTRA HIGH POWER



CUTLITE PENTA

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PLUS EVO

The **PLUS** range of laser systems stems from the extensive experience that Cutlite Penta has accumulated over the last decade through their ongoing commitment and investment into constant in-house research and development. Every component in our machinery is designed in-house, while 90% of the machine components are manufactured on premises. Every element of this machine is designed and built in Prato, Italy to ensure consistent cutting quality, unparalleled reliability, and a dramatic competitive advantage that will separate you from your competitors.

The quality of movement is ensured by the best linear motors available on the market, which when combined with the IPG laser source and a robust frame design allows you to run a Cutlite Penta laser 24 hours per day seven days per week! Cutlite Penta knows that to withstand the daily demands of industrial production, the value of a laser machine is measured by its reliability, which is the cornerstone of this flagship model. The specific features of the PLUS EVO range ensure unmatched cutting quality up to 50mm or 2 inches, on most materials including mild steel, carbon, and stainless steel. Now with a lighter gantry, the PLUS EVO is a leading brand for both high quality cutting and high acceleration for a rapid cut and a fast return on investment.

Structure and Movement

The base is an electro-welded, thermally stabilized steel frame, machined to accommodate the high precision rails and linear motors. The gantry structure is made with cast aluminum alloy elements to which a steel beam is attached, creating a lightweight yet durable structure. Driven by linear motors with absolute inductive encoders, the PLUS EVO's max acceleration is 3.2 G.

SMART Changer (Option)

The automatic nozzle changer is an option that allows the machine to automatically replace the cutting head nozzle without operator intervention. Up to 10 positions are available and includes both cleaning and calibration capabilities.

SMART Mix (Option)

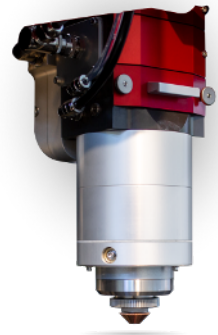
Smart Gas Mix is an internally developed component that improves the cutting process thanks to hardware technology controlled in real time by our Smart Manager software. With just a few clicks, the right amount of oxygen and nitrogen can be supplied instantly adapted for cutting varying types of materials and thickness saving gas consumption and delivering a cool part for fast removal from the cutting table.

Cutting Head

The PLUS EVO system uses the EVO 3 cutting head, renowned for its reliability when paired with high power fiber lasers. The in-house designed and built autofocusing cutting head offers exceptional cutting speeds on thin and thick material. The head itself and the focusing lenses can be used with **up to 30KW** of laser power, and a pressure of 25 bar. There are three different focal configurations: **150-200-250mm**.

Fiber Laser Source

The highly efficient IPG laser source, featuring excellent beam quality and low consumption, is housed in an air-conditioned and sealed NEMA 12 cabinet for guaranteed operation even in the harshest of environments. The excellent reliability of the IPG source keeps maintenance costs low.



Available Configurations

PLUS EVO OPTIONS	WORKING AREA	IPG SOURCE OPTIONS
3015	10' X 5'	6kW
4020	13' X 6.7'	8kW
4525	14.9' X 8.4'	12kW
6020	20' X 6.7'	15kW
6025	20' X 8.4'	20kW
6030	20' X 10'	30kW
6525	21.5' X 8.4'	
6530	21.5' X 10'	
7035	23.1' X 11.6'	
7037	23.1' X 12.3'	
7530	24.8' X 10'	
8020	26.4' X 6.7'	
8025	26.7' X 8.4'	
9030	29.9' X 10.2'	
9037	29.9' X 12.3'	
12030	40.5' X 10.1'	
12037	40.5' X 12.3'	
13030	43.1' X 10'	
13037	43.1' X 12.3'	
15030	49.4' X 10'	
18030	59.4' X 10'	