



CUTLITE PENTA

FHD



FHD

FHD combines the practicality and simplicity of large format cutting systems with the power of fiber laser technology **up to 60kW**. The enclosed booth around the cutting head allows for high-level performance with a minimised overall footprint, bringing the speed and efficiency of the fiber laser to industrial sectors previously dominated by plasma cutting. In addition to the wide range of applications, there is also the versatility of the option, including the drilling turret, which can be placed on the same portal as the laser cutting or on an independent portal. Made in Tuscany, FHD is the pinnacle of **Made in Italy innovation**. The combination of experience and passion with a high-quality production chain is reflected in the choice of materials such as aluminium, used in the structure of the gantry and energy chains, in the manufacturing quality and in the focus on the practicality and operability of the system.

Structure and movement

The robust steel structure, extended along the X-axis, **facilitates the loading and unloading process** through the use of a forklift or overhead crane. The enclosed booth precisely follows the cutting operation, moving on double prismatic guides. Sealed aluminium energy chains enclose pipes and cables directed towards the head, to prevent sparks and external bodies from entering. The total footprint is therefore close to the size of the worktop. The movement is entrusted to ground racks and pinions, made with very high precision tolerances, which guarantee a smooth and precise movement. The brushless motors offer high energy efficiency, reliable performance and strength. The result is a highly accurate, stable and efficient system that optimises the company's performance.

Bevel Cut

The FHD can be equipped with the Bevel cut option $\pm 50^\circ$ in both cutting directions. The cutting head, designed by Cutlite Penta, allows you to carry out any processing while maintaining the advantages of the classic flat cut. Innovative in its mechanics, the head has very small dimensions, is light and allows you to use the same bases of flat machines while maintaining the high performance offered by the system.

Gantry

The electro-welded architecture of the carriage, made of aluminium machined with very high precision machinery, is analysed with the most modern systems

of dimensional analysis. Elasticity, rigidity and high strength are the valuable requirements that also support the use of mechanical tools such as a drilling machine.

Cutting head

The **EVO 3** cutting head, made by Cutlite Penta, stands out for its performance and reliability. It reduces the consumption of technical gases and supports prolonged periods of intensive use, reducing operating costs compared to plasma and oxyfuel.

Drill option

The inclusion of the which may be assembled on the same head portal or on an independent portal, revolver turrets further extends the range of machining, such as drilling, countersinking, threading and counterboring, which can be performed on workpieces directly on the machine.

Scrap Recovery

The recovery of scraps is simple and immediate thanks to the drawers placed transversely under the machine along its entire length. This system, already adopted and appreciated on other Cutlite Penta laser systems, is unprecedented among **single-bench thermal cutting applications**, where the spaces below the work area are difficult to access.

Flexible Configuration

Always very attentive to customer needs, Cutlite Penta finds in FHD a new opportunity to meet the demands of versatility and competitiveness of the sector, starting from the size to the configuration of the booth.

Fibre Laser Source

Fiber laser sources allow you to cut different types of metals and are characterised by high efficiency, an excellent quality beam and low energy absorption. The source, housed in a conditioned and sealed **NEMA 12** cabinet, operates even in harsh environments and ensures extremely low maintenance costs.



FIBER HD MODEL	WORKING AREA
4025	4000×2500 mm
6020	6000×2000 mm
6025	6000×2500 mm
6030	6000×3000 mm
8025	8000×2500 mm
8030	8000×3000 mm
12025	12000×2500 mm
12030	12000×3000 mm
16025	16000×2500 mm
16030	16000×3000 mm
18025	18000×2500 mm
18030	18000×3000 mm
24025	24000×2500 mm
24030	24000×3000 mm

ACCESSORIES



+/-45°

BEVEL HEAD



DRILL OPTION

WORKING AREA UP TO

24 m x 3 m

POWER UP TO

60 kW



ENGLISH



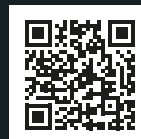
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