



CUTLITE PENTA

**FH**HD  
IBER



# FIBER HD

**FIBER HD** combines the practicality and simplicity of large format cutting systems with the power of fiber laser technology **up to 30kW**. 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 or CO2 cutting. In addition to the wide range of applications, there is also the versatility of the options, such as the 6-position drilling turret.

Made in Tuscany, FIBER HD 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. In combination, the brushless motor offers high energy efficiency, reliable performance and durability. The result is a highly accurate, stable and efficient system that optimises the company's performance.

## Gantry

The electro-welded architecture of the carriage, made of aluminium machined with very high precision machinery, has been analysed with the most modern dimensional systems. Lightness, 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 HT series 6-position 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 FIBER HD 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°

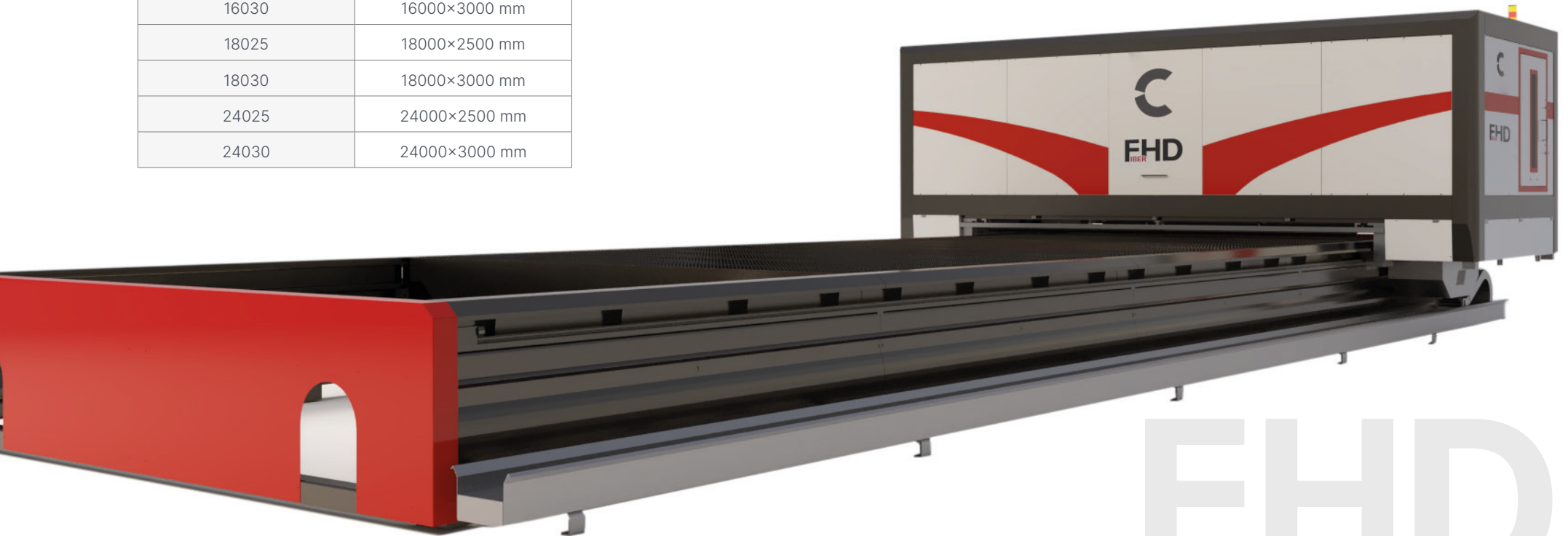
BEVEL HEAD



DRILL OPTION

WORKING AREA UP TO  
**24 m x 3 m**

POWER UP TO  
**30 kW**



**FHD**  
IBER

ENGLISH



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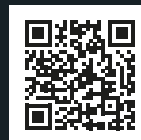
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