

# FH D IBER

WORKING AREA UP TO  
**100 X 12 ft**

POWER UP TO  
**60 kW**

## ACCESSORIES

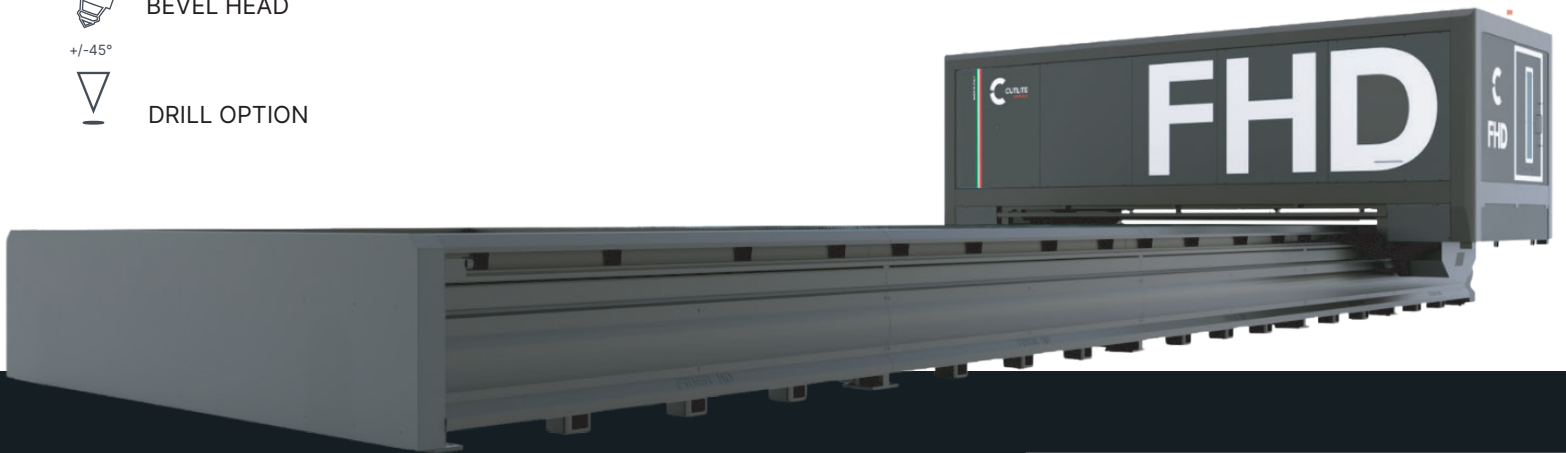


BEVEL HEAD

+/-45°



DRILL OPTION



# FIBER HD

The **FIBER HD** combines the practicality and simplicity of large format cutting systems with the power of fiber laser technology up to 60kW. The gantry-style cabinet enclosure brings high-performance fiber laser cutting with a small footprint to industrial sectors previously relying on oxy-fuel, plasma, or CO2 cutting technology.

Fully manufactured and designed in Prato, Italy, the FIBER HD is the new technological benchmark for large-format machines. The combination of over a decade of experience in implementing high-power laser systems, (60kW and below), and a high-quality supply chain is reflected in the choice of the highest quality materials. In-house engineering that is continuing to design and develop new technology is the Cutlite America's DNA.

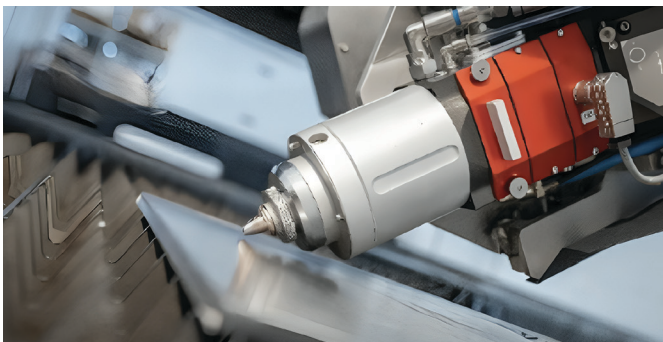
## Structure and Movement

The robust steel table structure, extended along the x-axis, ensures fast and trouble-free loading and unloading of large plates with a forklift or existing overhead cranes.

This proven system virtually eliminates any maintenance except for recommended monthly cleaning, which takes a matter of minutes. Utilizing the highest quality rack and pinion motors available, which are located on the outside of the machine frame, ensures any pollution from the cutting process does not affect the operation of the machine.

## Cutting Head

The **FIBER HD** model uses the EVO 3 cutting head, which was completely designed and manufactured in Prato, Italy, is equipped with non-contact capacitive sensors and an option for gas-mix capabilities. The head itself and the focusing lenses can be used with **up to 60kW** of laser power, and a pressure of 25 bar. There are three different focal configurations: **150-200-250 mm.**



## SMART Bevel Pro (Option)

The unique and well-proven bevel cutting head performs bevel cuts including V, A, X, Y upward, Y downward and K, while still providing the highest quality 2D straight cutting capabilities. The innovative SMART Bevel Pro head is very consistent, even with very long cutting lines. Finished cut parts can be directly transferred to robotic welding stations eliminating additional milling and deburring steps in the production process. It can also rotate  $\pm 45^\circ$  in both cutting directions.

## SMART Drill (Option)

The optional 6-position tooling turret increases the flexibility of the FIBER HD laser cutting system. The SMART Drill adds mechanical machining options, such as drilling, countersinking, thread-cutting and filing, to the FIBER HD laser system.

## Gantry

The electro-welded architecture of the aluminum frame is extremely light, but rigid and strong enough to support the cutting head movement. The enclosed laser cabin moves easily via precise rack and pinion drives to closely follow the cutting process.

## Fiber Laser Source

The fiber laser sources (4kW to 60kW) offer exceptional metal cutting versatility. Both IPG and Raycus resonators are housed in an air-conditioned, sealed NEMA 12 cabinet. These efficient lasers provide excellent beam quality, low energy consumption, and reliable performance in demanding production environments.

## Available Configurations

FIBER HD MODEL	WORKING AREA	SOURCE OPTIONS
4020	13.3' X 6.7'	6kW
4025	13.3' X 8.4'	8kW
6020	20' X 6.7'	12kW
6025	20' X 8.4'	15kW
6030	20' X 10'	20kW
6530	21.5' X 10'	30kW
6537	21.5' X 12.3'	50kW
8025	26.4' X 8.4'	60kW
8030	26.4' X 10'	
9030	30' X 10'	
12025	40' X 8.4'	
12030	40' X 10'	
13037	43' X 12.3'	
16025	53' X 8.4'	
16030	53' X 10'	
18025	59' X 8.4'	
18030	59' X 10'	
18037	59' X 12.3'	
24025	79' X 8.4'	
24030	79' X 10'	
24035	79' X 12'	
30037	100' X 12'	