



# MFL - FIBER LASER CUTTING MACHINE

Industrial machinery for an effective cut of mild steel, stainless steel, aluminium, brass and copper 2D metal plates using a fiber laser system.

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## LASER CUTTING

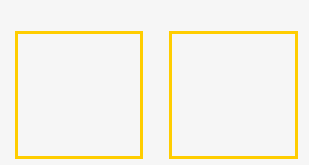
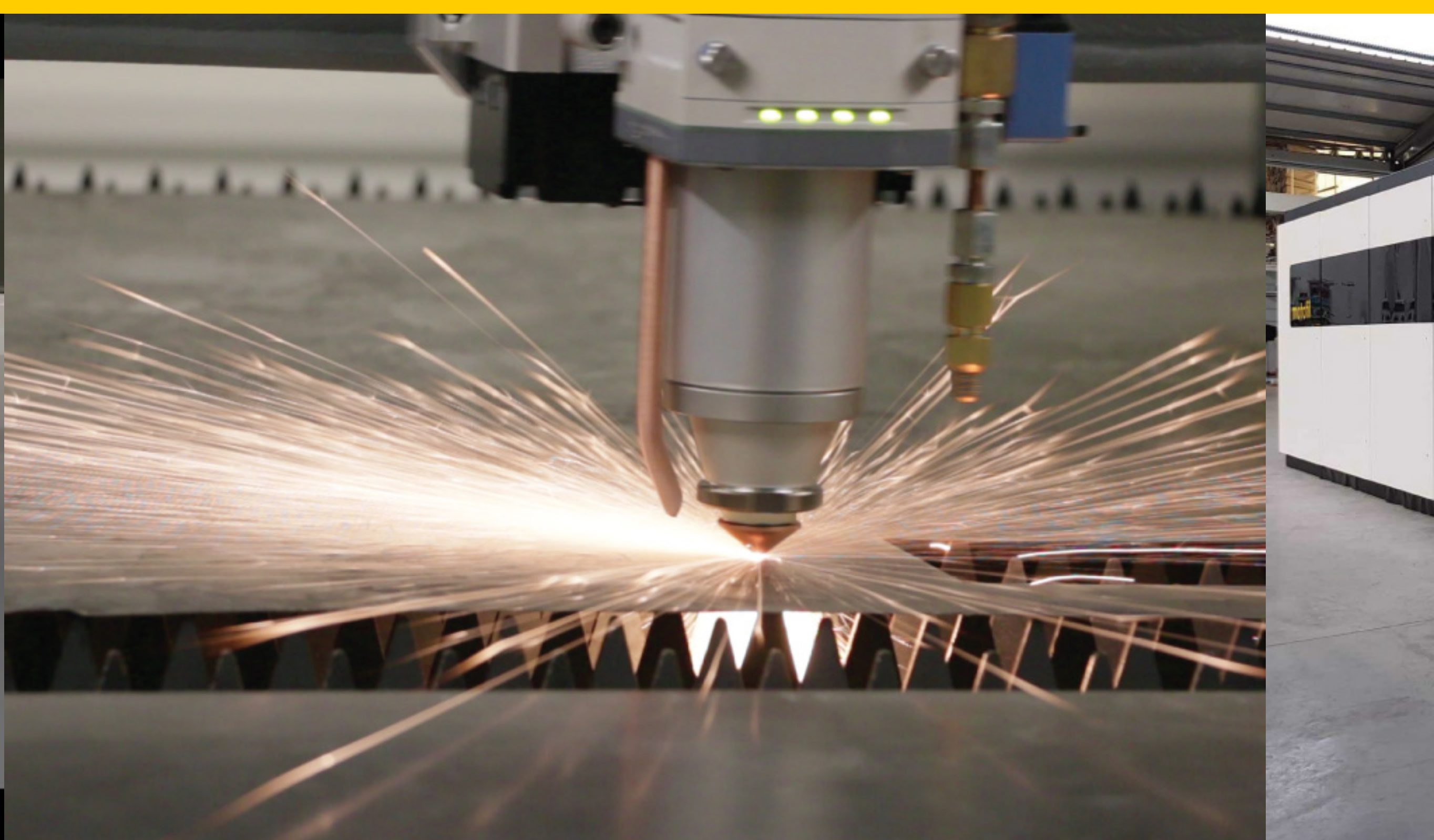
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CUTTING TECHNOLOGIES

## MFL 315 FIBER LASER CUTTING



## GENERAL CHARACTERISTICS

### DESCRIPTION

Our 2D Laser Cutting Machine (MFL series) was developed for a clean and efficient cut of different types of materials and different thicknesses. Its robust and mechanically-welded structure **reduces the vibrations** resulting from the laser cutting operations, thus achieving great precision.

The **cutting table exchange system** allows a metal plate to be cut, while another one moves to the loading/unloading zone, thus reducing the downtime of the system, increasing its efficiency. In addition, an **automatic loading and unloading system** can be added to increase the profitability of the equipment.

### ADVANTAGES

#### Fiber Laser vs Laser CO2

The fiber laser machines don't need mirrors on the laser source, which guarantees a reduction in terms of operating costs and maintenance requirements;

The laser source has a life cycle of three times more, comparing with an equivalent CO2 laser;

Excellent cutting capacity on reflexive materials such as copper, brass and aluminum, without the problem of the occurrence of reflections that damage the equipment;

High accuracy in the cut of thick plates, in which concerns to complex geometries;

Composed with the latest technologies on the market, the machine has frog-jump technology to optimize the displacement of the cutting head, achieving **greater productive efficiency**. Controlled by a user-friendly interface, **this machine ensures quick learning and easy programming and importing of the parts to be cut.**

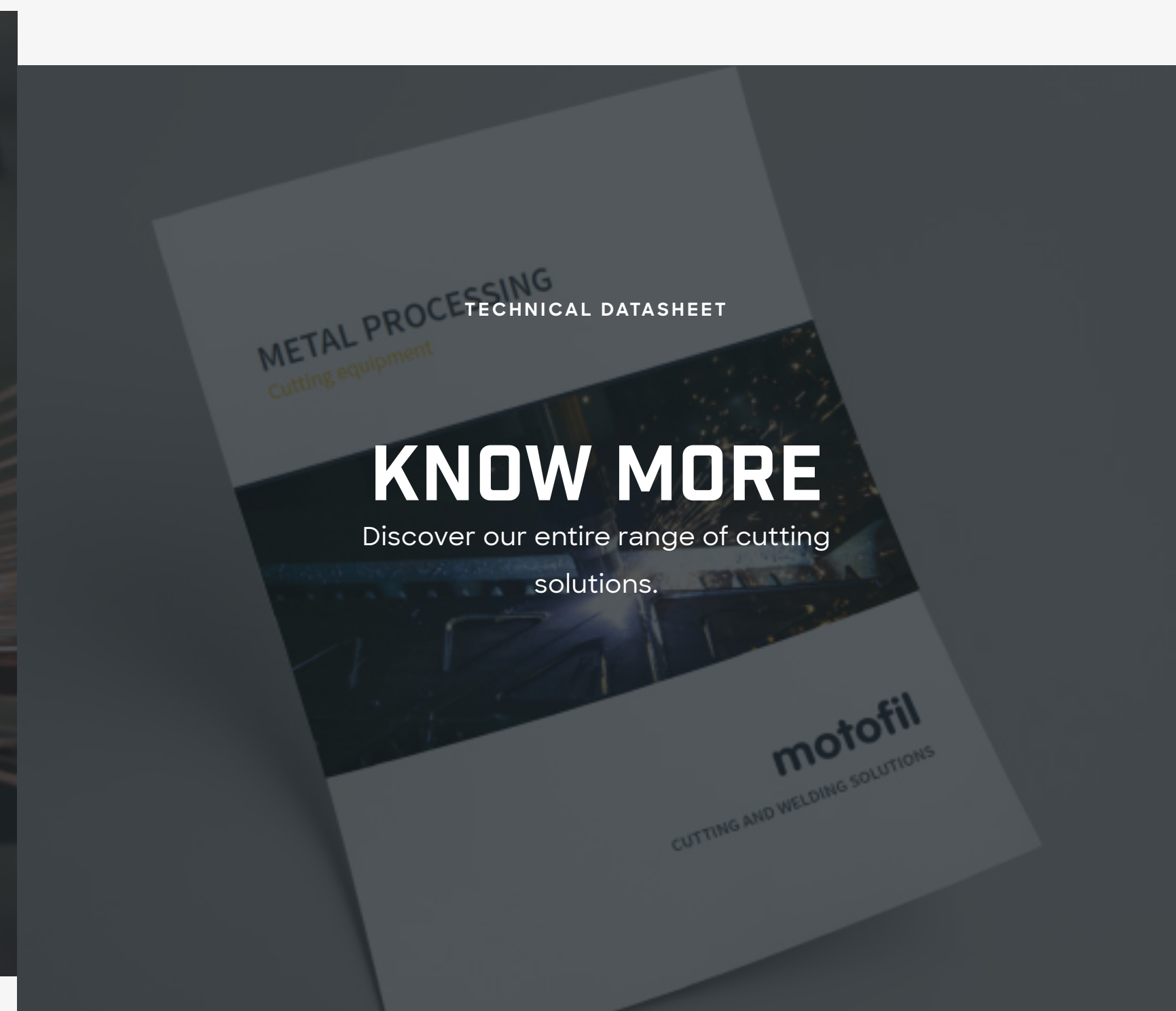
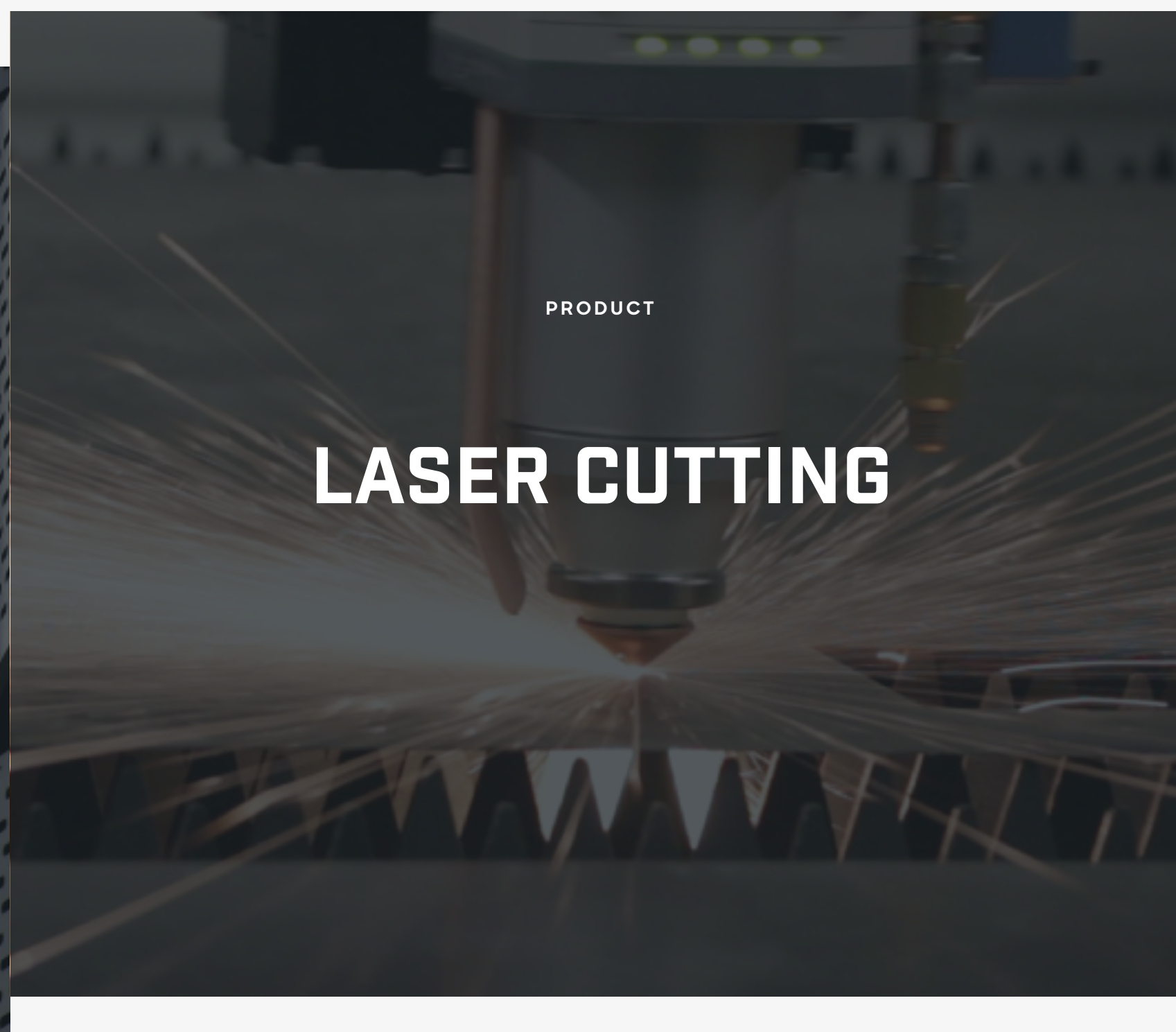
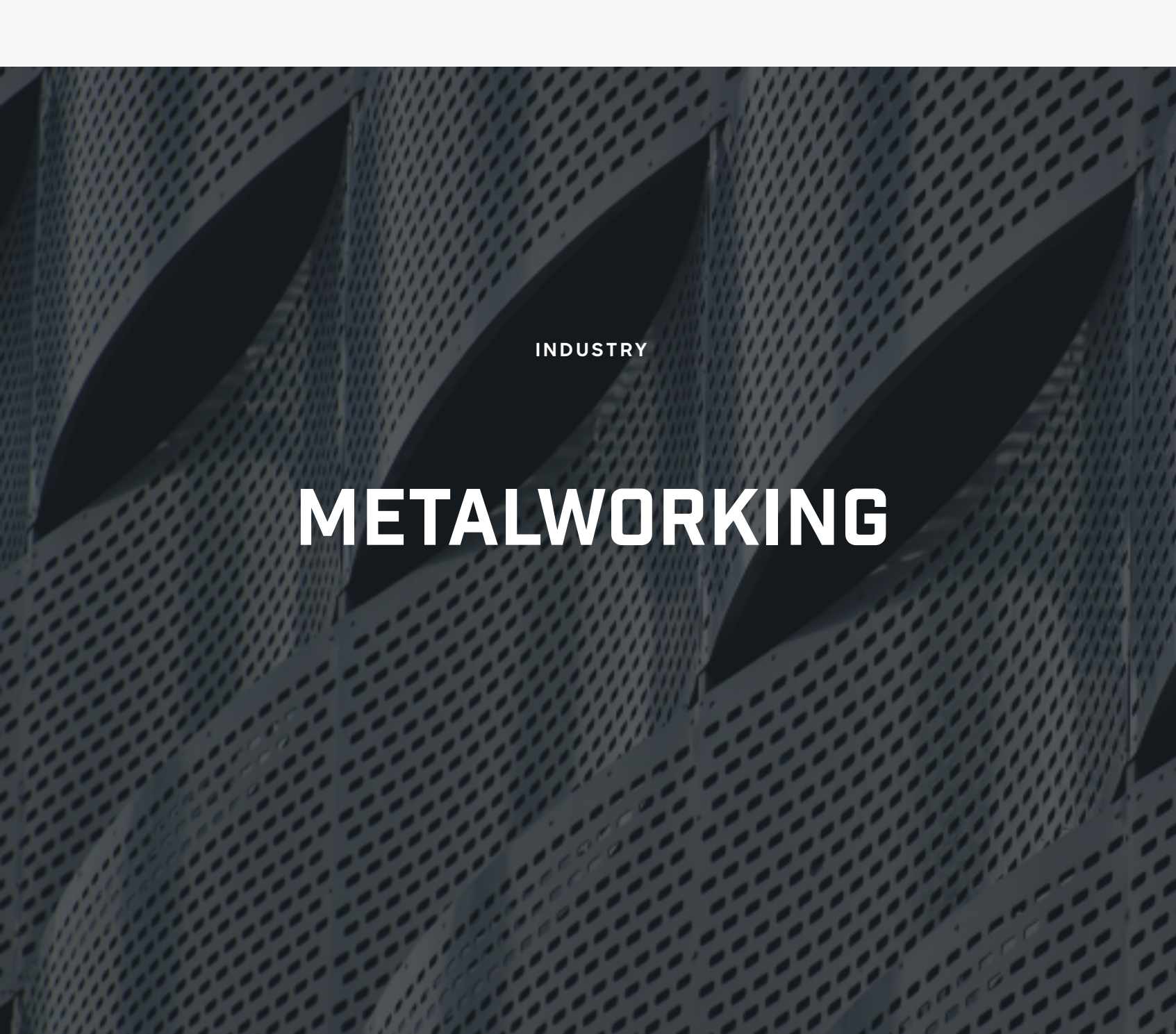
This is an extremely versatile laser cutting machine and, the standard models, are prepared to cut plates (raw material) up to **20 meters in length**.

The alternating tables allow a quick load and unload of the metal plates, reducing the duty cycles, making the process more efficient;

Greater energy efficiency - a resonator of 3kW uses 1/3 of the power of a CO2 4kW;

Reduced costs in consumables, given the fact that the only components that need to be replaced are the ceramics and the protection lenses of the cutting head;

MFL presents a structure which minimizes the vibrations due to the cutting operations, allowing a better stabilization of the system.



## TECHNICAL DATA

This information is specific for standard models. For information about special models, please contact us.

Models	MFL315	MFL420	MFL620	MFL625	MFL820
Length [mm]	8800	11000	15300	15300	20000
Width [mm]	3100	3600	3600	4100	3600
Height [mm]	2150	2150	2150	2150	2150
Max. weight of the plate [Kg]	850	1500	2350	2350	3100

### Fiber Laser Cutting Thicknesses

Potencia [Kw]	2	3	4	6	8	10
Mild steel [mm]	14	16	20	22	25	30
Stainless steel [mm]	8	8	10	12	18	20
Aluminium [mm]	6	8	10	10	14	16

Note: Other materials information (brass and cooper) under request.

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