

# MOTOFIL CUTTING EQUIPMENT



FIBER LASER  
PLASMA CUTTING  
OXYFUEL CUTTING

**JPS Machinery Ltd**  
UK & Ireland Sole Agents

group **motofil**  
[www.grupomotofil.com](http://www.grupomotofil.com)

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WE ARE MOTOFIL

## THE GROUP

Our 35 years in the business makes us a leader in the automation and robotics market. Our growth strategy is based on research and development, and on the continuous improvement of our products and processes, to meet the specific needs of each one of our clients.

We are located in Ílhavo, Portugal, in an industrial park of 260,000 sqm, in which we built facilities to make our production flow independent and optimised. We have a team with approximately 270 employees, specialised in various areas of expertise.

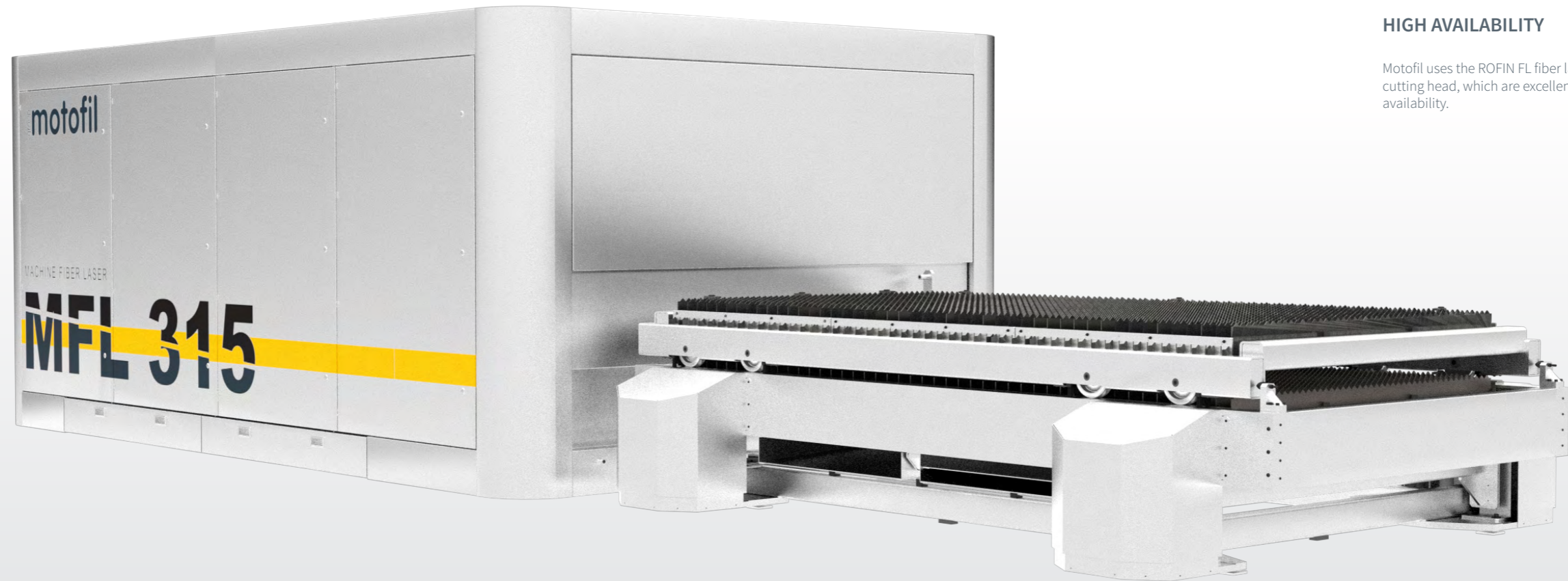
We invest in internationalisation, by frequently exporting to countries like Spain, England, France, Germany, Russia, Slovakia, Czech Republic, Romania, Poland, Turkey, China, USA, Mexico, Peru, Chile, Brazil, and we are currently working to expand to new markets.



**FIBER LASER**

# MFL

The Motofil Fiber Laser system was designed to be the best solution for a simple, fast and effective cut.



**STABLE**

Mechanically welded cradle specially developed to reduce cutting vibrations.

**EFFICIENT**

Fast table changing system, allowing for a sheet to be available while the other is being moved to the loading/unloading area, thus decreasing the stops and duty cycles.

**HIGH AVAILABILITY**

Motofil uses the ROFIN FL fiber laser technology and the PRECITEC cutting head, which are excellent products regarding quality and availability.

MFL				
Models	315	420	620	820
Working area (L x W) [mm]	3000 x 2000	4000 x 2000	6000 x 2000	8000 x 2000
Total dimensions [mm]	8000 x 3100 x 2150 – 20 000 x 3600 x 2150			
Weight [Kg]	8600	11000	16000	21000
Max. interpolated speed [m/min]	40			
Automated peripherals	Load/unload pallet system			

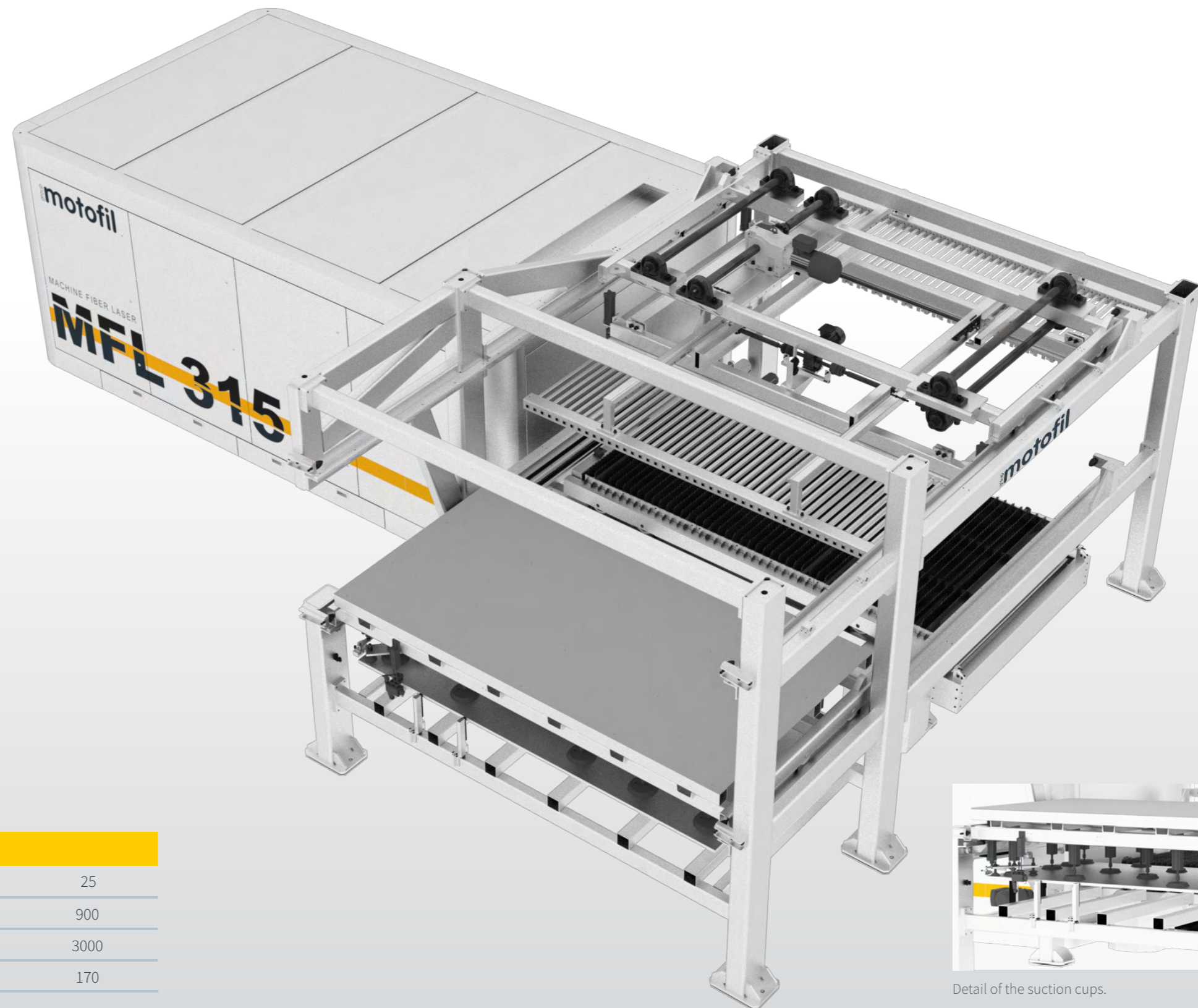


## FIBER LASER

## MFL

## LOAD/UNLOAD PALLET SYSTEM

Fast and compact loading and unloading unit. While the suction cups are unloading the metal sheets to the cutting shuttle, the fork system is unloading the cut parts. This operation saves time, money, and space.



## LOAD/UNLOAD PALLET SYSTEM

Max. sheet thickness [mm]	25
Max. weight of the part to load / unload [Kg]	900
Payload per pallet [Kg]	3000
Loading/unloading sheet height [mm]	170



Detail of the suction cups.



**PLASMA CUTTING**

# FELINE

FELINE is the fastest, compact and user-friendly Motofil solution in industrial plasma cutting.



**COMPACT**

Cutting table and a gantry on rails that are completely integrated into a structure, allowing for a fast installation and set-up.

**REDUCED FOOTPRINT**

Designed to limited factory spaces, featuring a structure with reduced dimensions.

**EFFECTIVE**

High performance in comparison to the larger cutting machines. Its compact and integrated manufacturing concept was developed for faster and safer high precision cuts.

FELINE			
Models	1530	2040	2060
Working area (L x W) [mm]	3000 X 1500	4000 x 2000	6000 x 2000
Total dimensions [mm]	5000 x 2390	6000 x 2890	8000 x 2890
Max. cutting thickness [mm]	25 (mild steel)		



PLASMA AND OXYFUEL CUTTING

# DRAGOm

Motofil's robust, adjustable and highly productive solution in oxyfuel and plasma cutting.



## HEAVY-DUTY MANUFACTURING

Provides a high precision movement and its robust structure reduces the cutting vibrations while ensuring durability of the system

## ADAPTABLE

This solution allows the extension of the cutting area depending on the productive needs of the client. Furthermore, this machine offers various process options from drilling to bevel cutting with oxyfuel and/or plasma.

## EASY MAINTENANCE

The cutting tables integrate an easy slag extraction mechanism for a quick cleaning of the remnants of the cutting process.



### DRAGOm

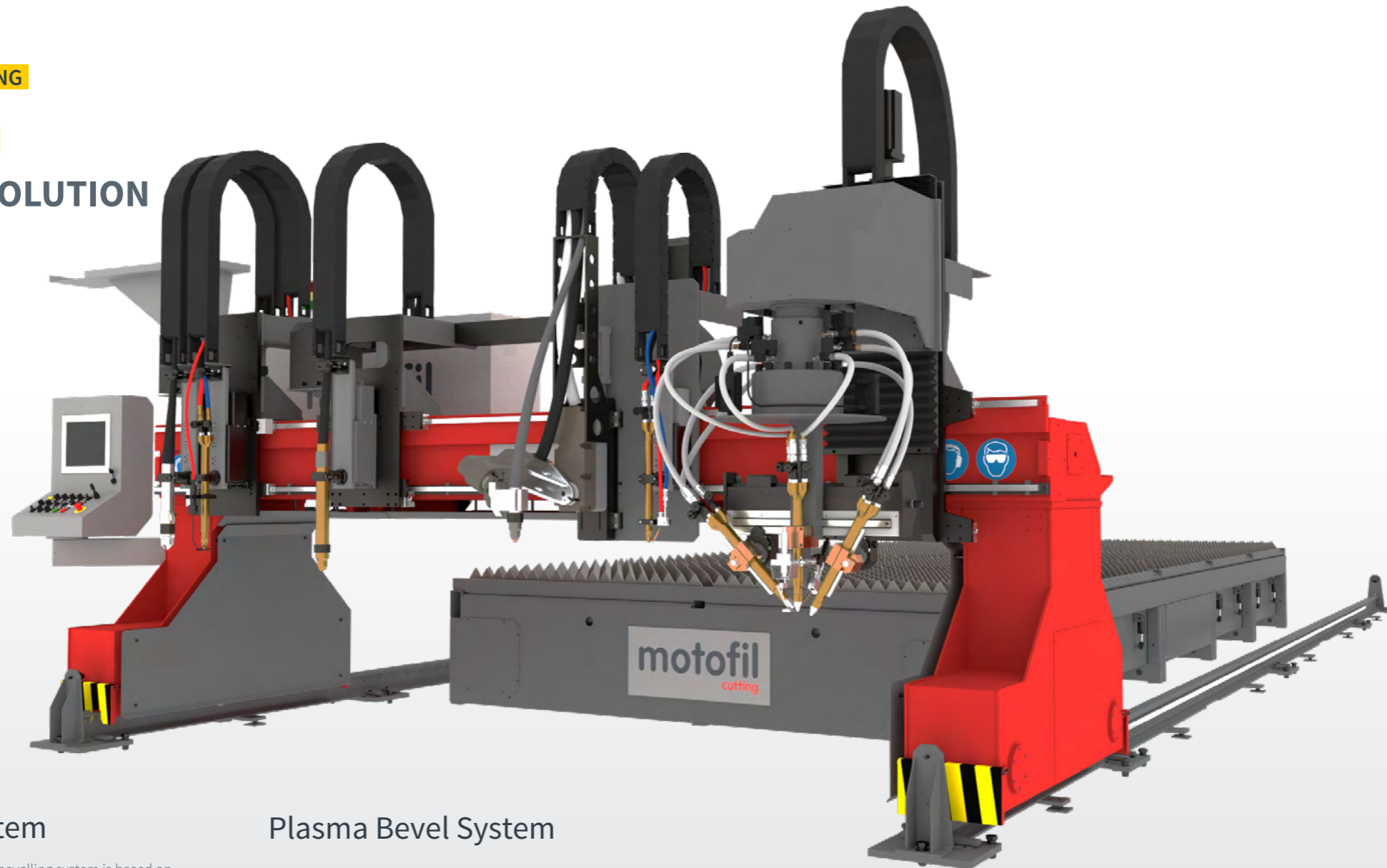
Models	25	40	35	Special
Cutting Width [mm]	2500	3000	3500	> 3500
Cutting Length [mm]	6000 - 30000			
Max. cutting speed [mm/min]	7000			
Max. cutting thickness [mm]	3-50 (plasma) / 3-200 (oxyfuel)			
Max. number of plasma torches	2			
Max. number of oxyfuel torches	6			



PLASMA AND OXYFUEL CUTTING

# DRAGOm

## MULTIPROCESS SOLUTION



### Oxyfuel Bevel System



The oxyfuel bevelling system is based on the use of two or three oxyfuel torches depending on the format of the required chamfer ("V" or "K").

The bevel system can be:  
 - Automatic: the process can occur continuously, without rolling the wiring, thus the system has infinite rotations;  
 - Manual: the process can occur with the intervention of the operator and the rotation is up to 180°.

Number of torches	2 - 3
Bevel types	I, K, V, X e Y
Rotation [°]	0 - 45, manual

### Plasma Bevel System

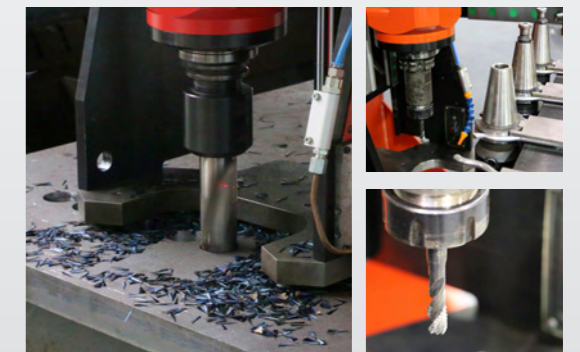
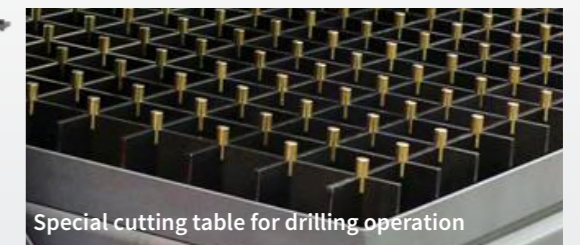


The plasma cutting technology allows cuts in chamfer, with 360° borders, continuously, with angles between 0 and ±45°, automatically increasing the intended inclination directly or gradually.

Max. angle [°]	0 - +/- 45
Bevel types	I, V, X e Y
Rotation [°]	360, automatic
Drive	AC

### Mechanical drilling

DRAGOm can perform drilling operations through a servo-controlled unit with a drilling capacity of up to 64 mm of thickness and 32 mm in diameter.



Max. number of stored tools	5
Max. drilling diameter [mm]	32
Min. thickness of the sheet to be drilled [mm]	6
Max. thickness of the sheet to be drilled [mm]	64



## TECHNICAL ASSISTANCE

### MAINTENANCE

We guarantee the availability of substitution components in order to ensure the perfect functioning of our equipment.

### AFTER-SALES SERVICE

By getting in touch with Motofil, our specialised technicians are available to answer any question.

### INSPECTION

It is possible to schedule inspection visits and preventive maintenance to perform exhaustive diagnosis of the conditions and the operation state of Motofil's machines.

## TRAINING SESSIONS

The training program includes a stage destined to the maintenance and basic operation of the equipment, as well as a stage destined to the Certified RADAN Nesting Basic Course.

The training is accessible and valid during the operating life of the equipment.

## ON THE ROAD TO SUCCESS

Motofil developed approaches and strategies to equip its machine with functionalities like piercing, cornering, edge burning as well as great cutting and travel speeds, with which we can achieve, for instance, piercing times inferior to 1 second in thick sheets. These approaches are based on functions like Pulse Power and Ramping Power.

Motofil invests in the continuous improvement of its products to provide more and better solutions to its clients. To keep track of our developments, visit our site [www.grupomotofil.com](http://www.grupomotofil.com).



# WE'VE INSTALLED SOLUTIONS IN MORE THAN 30 COUNTRIES

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