



# CATALOG

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EXPERTS IN THE MANUFACTURING OF CNC  
MACHINES FOR PLASMA AND GAS CUTTING

**For 17 years, we have been creating modern solutions in the field of plasma and oxygen cutting.**



Our company's mission is to produce the most advanced and safe plasma-gas cutters. The designs of our machines, as well as the technical solutions implemented, enable reliable machine operation for many years. The post-sales support we provide to our customers ensures a quick return on investment. For over 17 years, we have been consistently developing our products, emphasizing technological capabilities and the safety of our offerings.

**No shortcuts when providing professional solutions for businesses.**

- 01 Perfectly tailored to meet your needs**

Our sales advisors develop optimal solutions for clients based on specific production requirements. They also present the possibility of expanding already used machinery. They discuss the benefits of equipping the device with additional modules to enhance its functionality. The presented offer will address the client's precisely diagnosed needs, both in terms of technological requirements and a defined budget.
- 02 Fast and effective service support**

We know that our machines operate under the most challenging conditions, which is why we have developed the best post-sales service on the market. The diagnostic solutions installed in our machines enable us to remotely resolve over 90% of malfunctions and breakdowns. In the case of a failure that requires a visit from our technical staff, we typically reach the customer within 30 hours.
- 03 More included in the standard package**

We equip our plasma-gas cutters with solutions that are typically only available as optional features in competing machines. We know what you need and what will give our machine a real advantage in the market - with us, you get it as a standard!
- 04 Lower operating costs**

The dynamic operation of our machines, faster order fulfillment, and reduced gas consumption by our units significantly contribute to reducing production costs. All of these factors enhance competitiveness in the market and result in a shorter return on investment period.
- 05 Safety and reliability of our solutions.**

Employee safety and machine protection are of utmost importance to us. The high speed of our machines necessitates compliance with the most rigorous safety standards for both workers and thermal cutting machines.

The implemented systems, such as GuardLine-O, primarily safeguard the operator, as well as the machine, from collisions with materials, other objects, or vehicles left within the workspace. Downtime resulting from mechanical damage to the machine or workplace accidents can be highly costly. We understand the importance of minimizing the risk of such incidents occurring.

**17** years  
of experience

**>600**  
implementations

**50+**  
International trade fairs  
awards



# MultiProfiler 3D

No shortcuts in automated processing.

Modern and versatile robotic cutting line for profiles.

The most advanced automatic 3D cutting line for complex profiles used in the most demanding industries.



Each machine can be designed according to the individual needs of the customer.

## Additional expansion possibilities

Additional ink printing module support

Tracing module for characters and lines

Wireless remote EasyCONTROL

Dedicated fan or air filtration unit

Automatic entry storage

Automatic output storage

## Main features of the cutter

**18 m**

maximum load length

**12 m/min**

maximum feeding speed

**3D**

innovative pivoting head with 3D option

Maximum cross-section dimension: 400 mm x 600 mm

Minimum cross-section dimension: 80 mm x 80 mm

Maximum cutting thickness: 80 mm

Maximum profile weight: 220 kg/ running meter

Cutting technology: plasma

## Cutting capabilities



H-beam



T-beam



rectangular pipe <sup>1</sup>



channel



bulb flat



flat bar



angle bar

<sup>1</sup> Elements that can be processed with the purchase of an additional equipment



# ShipProfiler 3D

Bez skrótów w cięciu kształtowników branży morskiej

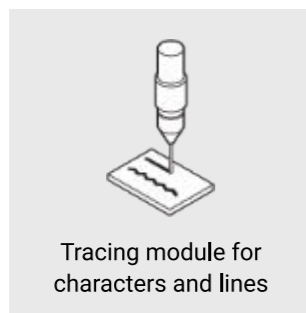
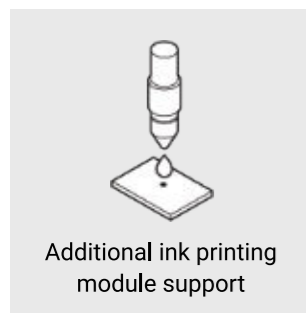
A dedicated 3D cutting solution for the offshore industry.

A dedicated solution for 3D cutting of complex profiles using a downdraft table with virtually unlimited length.



Each machine can be designed according to the individual needs of the customer.

## Additional expansion possibilities



## Main features of the cutter

**18 m**

maximum load length

**15 m/min**

maximum feeding speed

**2D / 3D**

innovative pivoting head with 3D option

Maximum cross-section dimension: 300 mm x 600 mm

Minimum cross-section dimension: 50 mm x 50 mm

Maximum load length: 18 m

Maximum profile weight: 220 kg/running meter

Cutting technology: plasma

## Cutting capabilities



H-beam



pipe



rectangular pipe <sup>2</sup>



channel



bulb flat



flat bar



angle bar

<sup>1</sup> Cutting possible with the purchase of a gas torch

<sup>2</sup> Elements that can be processed with the purchase of an additional equipment



Without shortcuts in tube cutting.


## Professional 3D cutting of pipes with diameters up to 2500 mm.

Efficient and precise 3D cutting of pipes with specialized end preparations for the most demanding construction and maritime industries.




Each machine can be designed according to the individual needs of the customer.

### Additional expansion possibilities



Additional ink printing module support



Tracing module for characters and lines



Wireless remote EasyCONTROL



Dedicated fan or air filtration unit

### Main features of the cutter

# 2500 mm

maximum diameter of pipe to be cut

# 15 m/min

maximum travel speed

# 2D / 3D

manual bevelling or 3D head

Plasma cutting range:	up to 50 mm, depending on the selected power source
Gas cutting range <sup>1</sup> :	up to 50 mm as standard
Pipe diameter:	Ø 50 - Ø 2500 mm
Working length:	2 000 - 12 000 mm
Positioning accuracy:	+/- 0,05 mm

### Cutting capabilities



pipe



rectangular pipe <sup>2</sup>

<sup>1</sup> Cutting possible with the purchase of a gas torch

<sup>2</sup> Elements that can be processed with the purchase of an additional equipment



# ProMaster 3D

Without shortcuts in demanding industries.

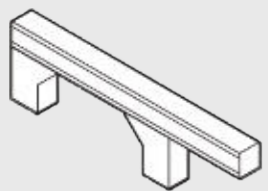
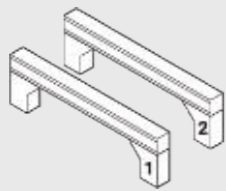
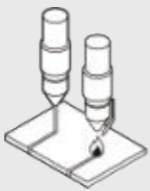





## Plasma-gas cutting machine for specialized applications.

The largest and most efficient plasma-gas cutting machine for sheet metal. It is also suitable for cutting pipes, profiles, and structural shapes in the maritime, construction, and energy industries.



Each machine can be designed according to the individual needs of the customer.

### Additional expansion possibilities

 Portal extension	 Additional portal	 Additional support with gas torch	 Tracing module for characters and lines
 Turntable for cutting pipes	 Additional ink printing module support	 Wireless remote EasyCONTROL	 Dedicated fan or air filtration unit

### Main features of the cutter

**300 mm**

maximum thickness of cut material

**30 m/min**

maximum travel speed

**2D / 3D**

manual bevelling or 3D head

<b>Plasma cutting range:</b>	up to 80 mm, depending on the selected power source
<b>Gas cutting range<sup>1</sup>:</b>	up to 200 mm as standard, optionally up to 300 mm
<b>Working width:</b>	2 000 - 6 000 mm
<b>Working length:</b>	2 000 - 30 000 mm
<b>Positioning accuracy:</b>	+/- 0,05 mm

### Cutting capabilities



<sup>1</sup> Cutting possible with the purchase of a gas torch

<sup>2</sup> Elements that can be processed with the purchase of an additional equipment



# VX standard

No shortcuts in speed and quality

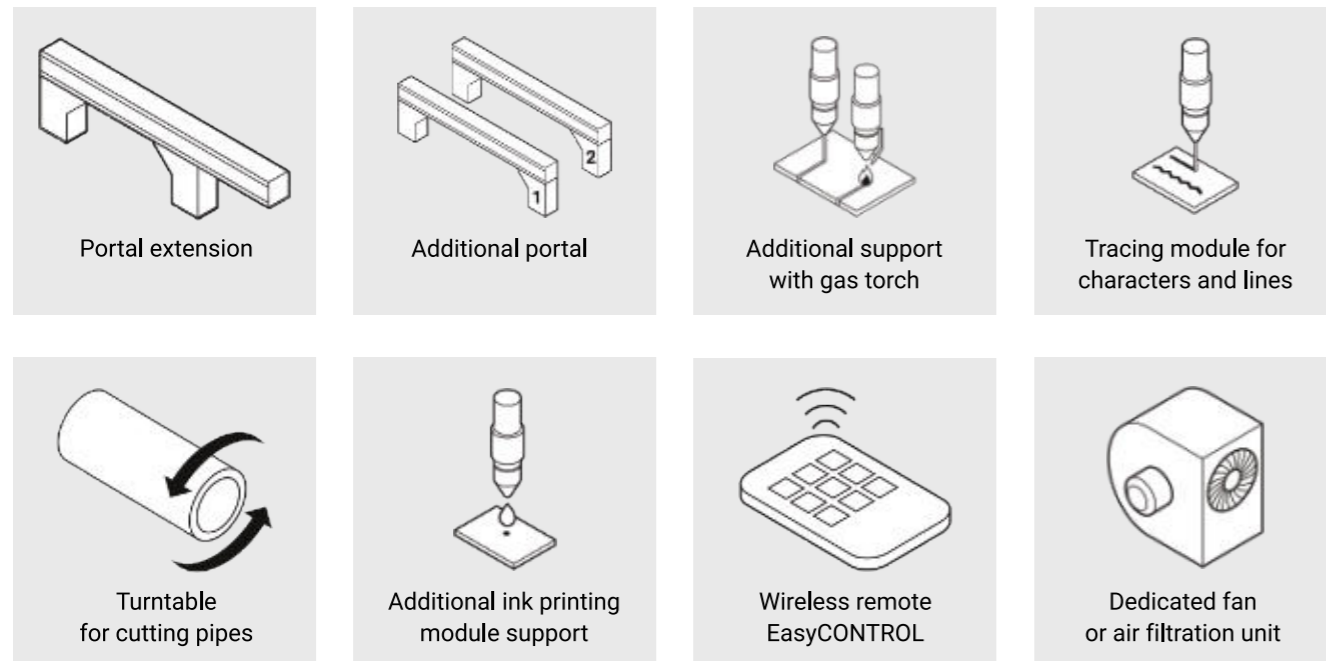
## Versatile and universal plasma-gas cutting machine

Combination of dynamics and quality with 3D cutting capability. Gas cutting up to 200 mm allows demanding orders to be completed while maintaining the dynamics and speed of cutting.



Each machine can be designed according to the individual needs of the customer.

### Additional expansion possibilities



### Main features of the cutter

**150 mm**  
maximum thickness of cut material

**30 m/min**  
maximum travel speed

**2D / 3D**  
manual bevelling

Plasma cutting range:	up to 80 mm, depending on the selected power source
Gas cutting range <sup>1</sup> :	up to 150 mm as standard, optionally up to 200 mm
Working width:	2 000 - 3 000 mm
Working length:	2 000 - 30 000 mm
Positioning accuracy:	+/- 0,05 mm

### Cutting capabilities



sheet metal    rectangular pipe <sup>2</sup>    pipe <sup>2</sup>

<sup>1</sup> Cutting possible with the purchase of a gas torch  
<sup>2</sup> Elements that can be processed with the purchase of an additional equipment

# Dynamic X-PRO

No shortcuts in cutting dynamics.

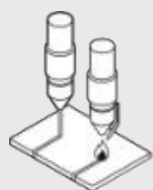
## Compact and fastest plasma cutting machine.

The fastest among available plasma cutting machines. Ideal for small and medium-sized businesses that focus on 2D sheet metal cutting with the option of manual chamfering.

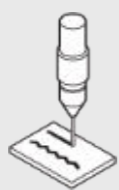


Each machine can be designed according to the individual needs of the customer.

## Additional expansion possibilities



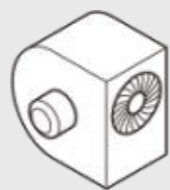
Additional support with gas torch



Tracing module for characters and lines



Wireless remote EasyCONTROL



Dedicated fan or air filtration unit

## Main features of the cutter

### 50 mm

maximum thickness of cut material

### 50 m/min

maximum travel speed

### 2D

manual bevelling

Plasma cutting range:	up to 50 mm, depending on the selected power source
Gas cutting range <sup>1</sup> :	do 50 mm w standardzie
Working width:	1 500 - 2 000 mm
Working length:	3 000 - 12 000 mm
Positioning accuracy:	+/- 0,05 mm

## Cutting capabilities

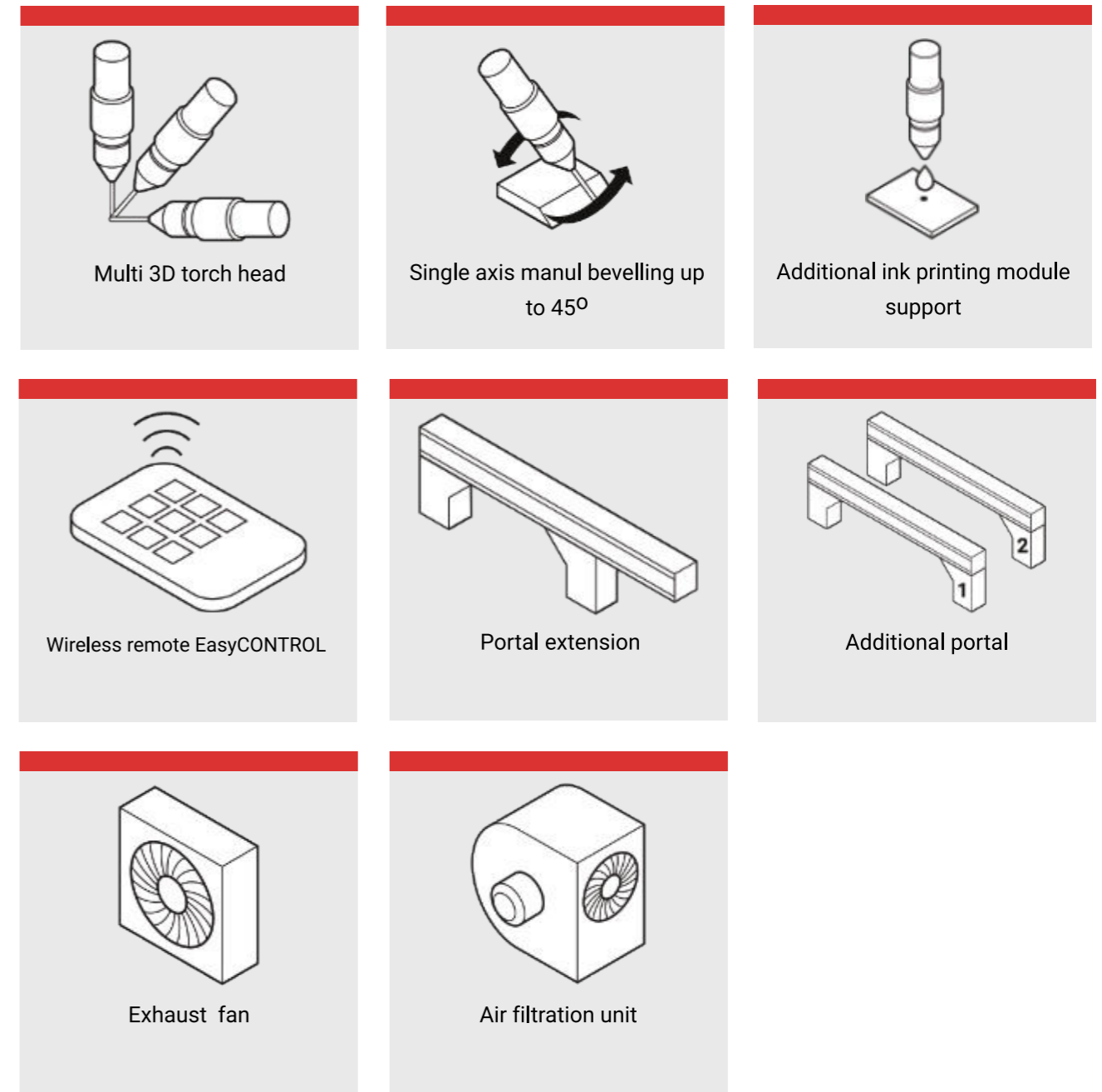
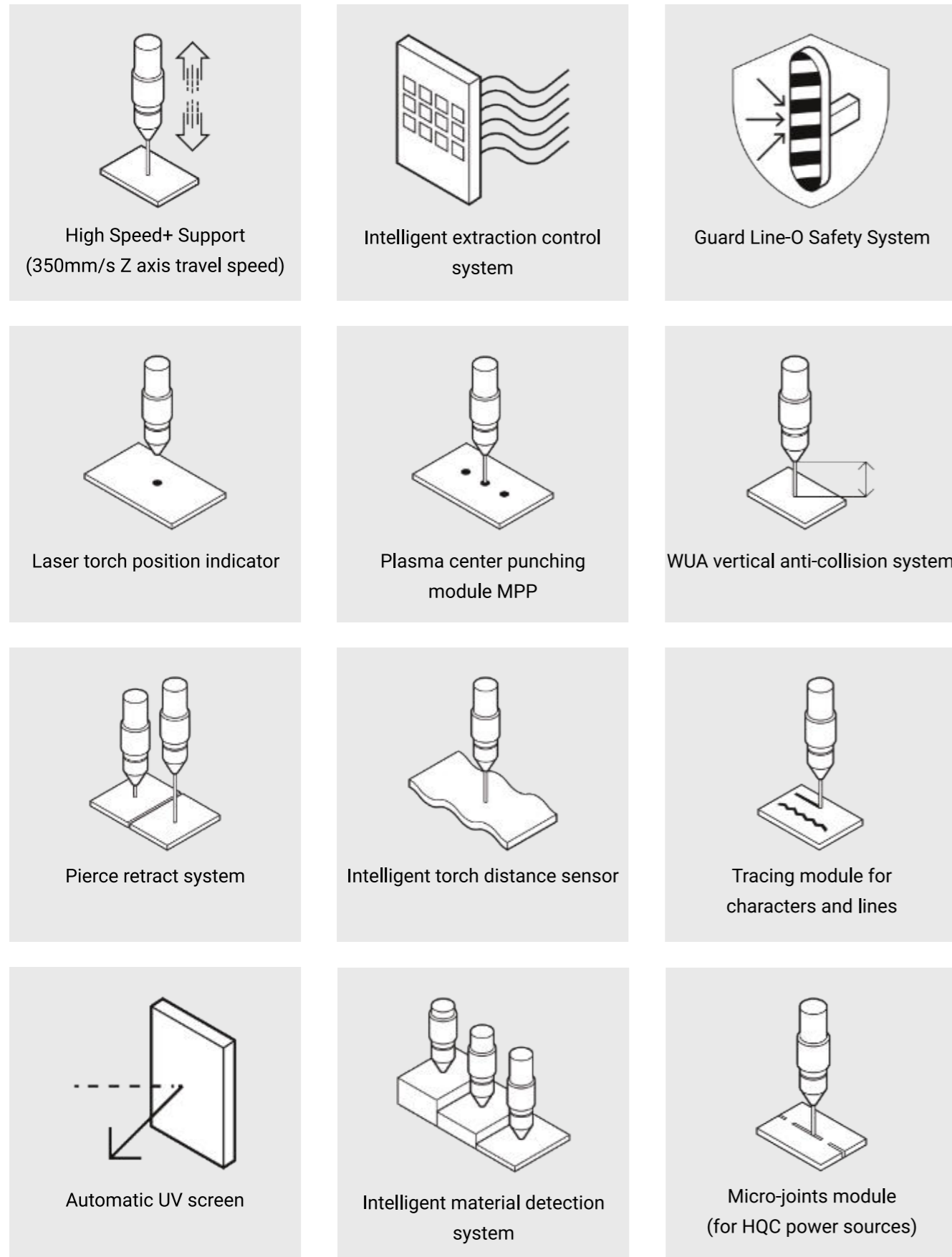


sheet metal

<sup>1</sup> Cutting possible with the purchase of a gas torch



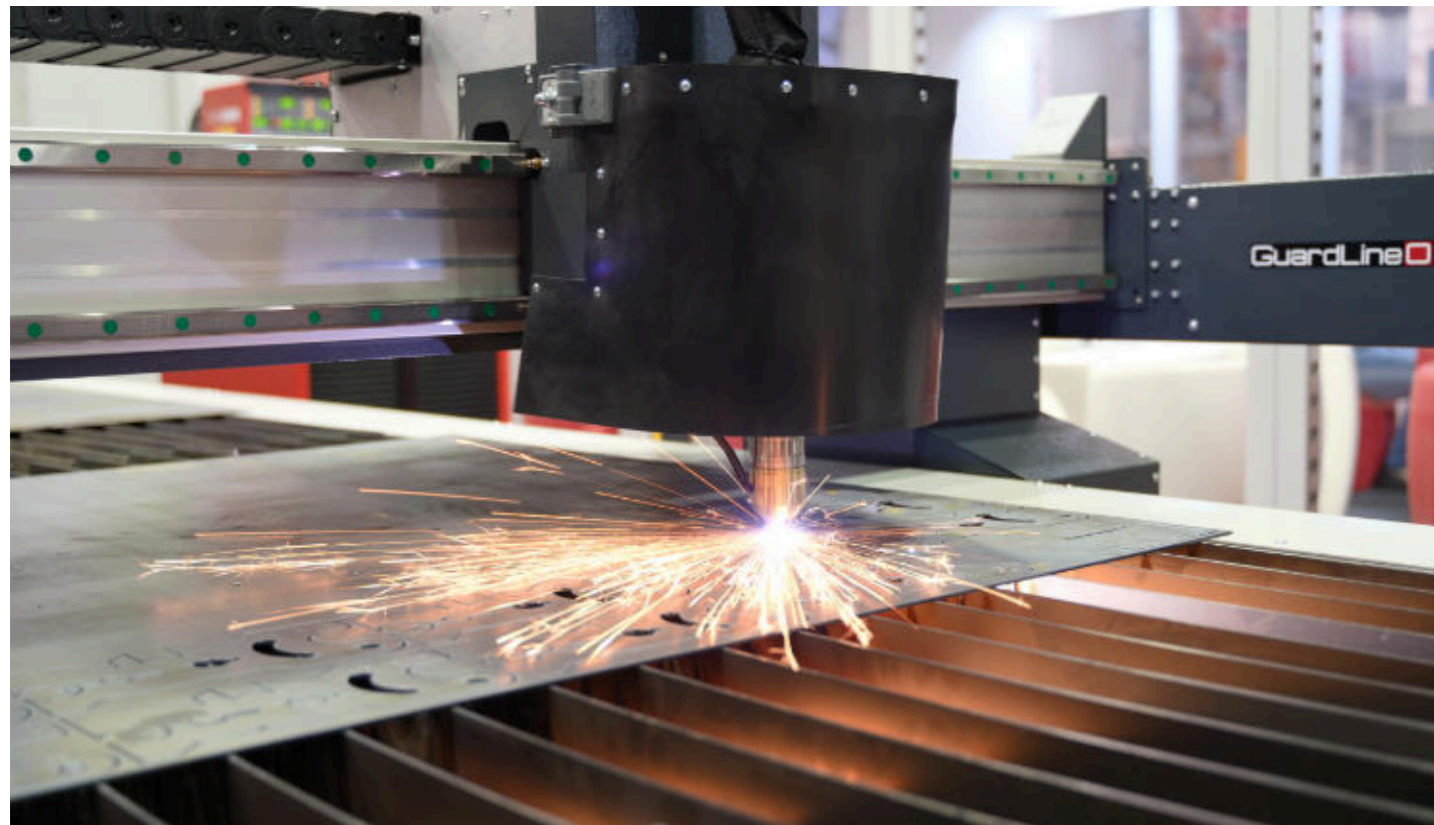
# Technical solutions and systems available on STIGAL cutting machines



Optional equipment used in our plasma cutting machines

Each machine can be designed according to the individual needs of the customer.

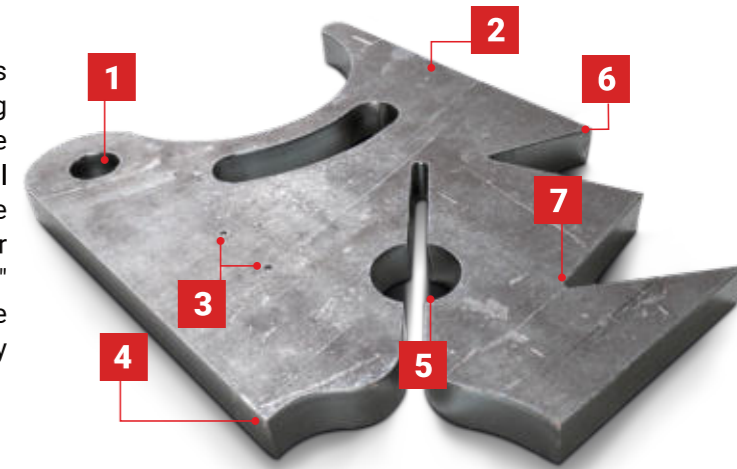
# The most efficient plasma cutting with unparalleled capabilities.



## Intelligent solutions in the field of HQC (High-Quality Cutting) plasma cutting.

The HQC (High-Quality Cutting) class of plasma units utilizes two gases in the cutting process: the cutting gas and the shielding gas. These gases can be different and are selected based on the type of material being cut. By employing this technology, we achieve edge beveling at just 2-3 degrees and a smoother surface on the cut edge compared to standard "air" plasma cutting. Combining HQC-class units with the dynamics of our machines ensures the highest quality of plasma cutting.

**ORDER FREE SAMPLES!**



- Expandability of the system
- Reduced process time
- 100% efficiency in continuous shape cutting
- Reduced beveling and roughness of edges
- Better adherence to required tolerances
- Improved weldability
- Better results in cutting stainless steel and aluminum
- Capability for plasma tracing and spot marking

- 1** Accurate replication of the hole.
- 2** Very slight bevel of the edge.
- 3** Plasma etching
- 4** Small heat-affected zone
- 5** Smooth transition from a straight line to a curve.
- 6** Loop-free cutting.
- 7** Small undercuts on internal edges.



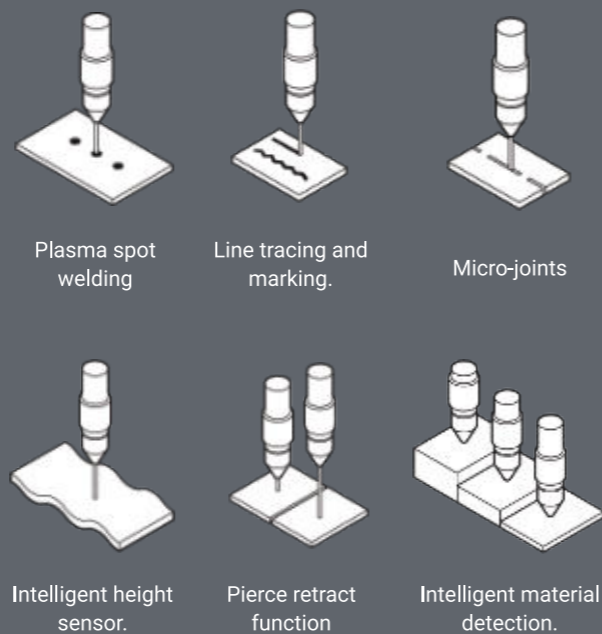
### Precision plasma cutting High Quality Cutting power sources

CEBORA is a leading manufacturer of plasma units worldwide with over 65 years of experience. They offer a range of over 60 devices for plasma cutting and welding. From simple welders used in workshops to professional plasma units that provide HQC (High-Quality Cut).

The quality of CEBORA's plasma units is attested by renowned brands such as Ferrari, Mercedes, BMW, Maybach, Toyota, Ford, Land Rover, Mazda, Smart, and Renault, who rely on them.

CEBORA's long-standing reputation and the trust placed in their products by these esteemed manufacturers further solidify their position as a trusted provider of high-quality plasma units.

#### Key functionalities



	STANDARD	HQC	HQC	HQC	HQC	HQC
Current range	20-130	20-120	20-180	20-250	20-300	20-420
Duty cycle	125 A 100%	120 A 100%	180 A 100%	250 A 100%	300 A 100%	420 A 100%
Cooling	Air	Liquid	Liquid	Liquid	Liquid	Liquid
Current adjustment	Smooth	Smooth	Smooth	Smooth	Smooth	Smooth
Max. Power consumption (kW)	18	16	35	46	56	81
Beveling capability	-	45°	55°	45°	55°	45°

Cutting range						
<b>Mild steel</b>						
Piercing (mm)	20	20	40	40	50	50
Edge start (mm)	30	30	60	60	80	80
<b>Aluminium</b>						
Piercing (mm)	15	20	25	25	30	40
Edge start (mm)	20	25	40	50	50	80
<b>Stainless steel</b>						
Piercing (mm)	15	15	30	30	35	40
Edge start (mm)	20	25	50	50	60	80

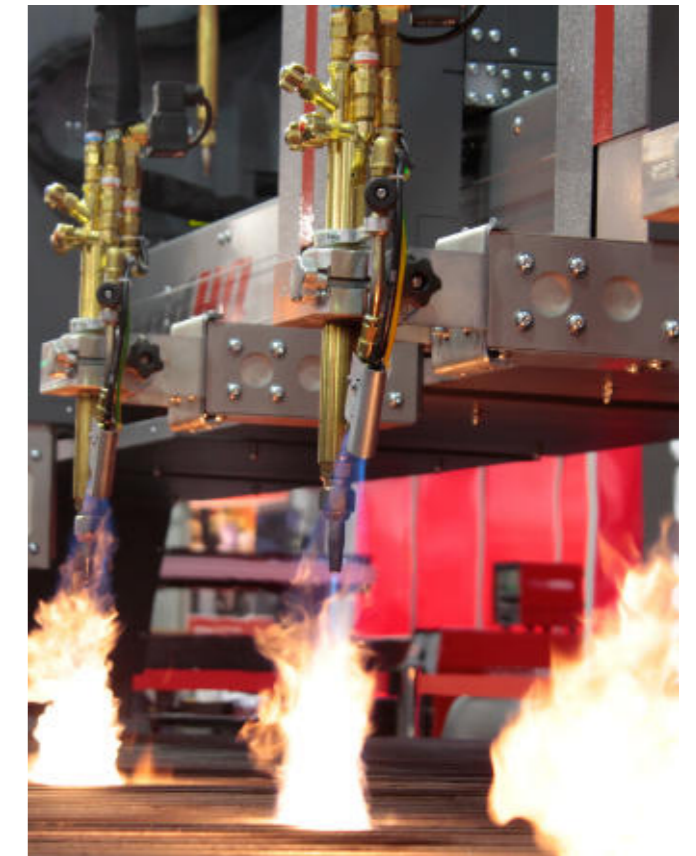


## Cutting and chamfering of mild steel perfected in every detail.



### Multiple cutting supports on a single machine.

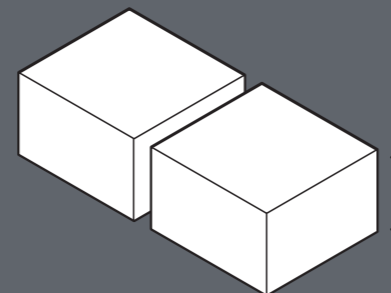
Cutting up to 300mm thickness and using multiple tool supports working synchronously offers tremendous possibilities for optimizing the cutting process of such costly materials. The implementation of a multi-support system can significantly reduce processing time for cutting identical parts and long strips of sheet metal.



## GAS CUTTING

### Oxygen cutting, which expands the thickness of the cut elements up to 300mm.

Cutting sheet metal with a thickness of 300mm poses a significant challenge and is a costly process due to the material expenses alone. However, we have developed an effective technology that guarantees the highest quality in gas cutting, which has proven successful for many of our clients. Through extensive testing, we have established precise cutting parameters that ensure a high-quality cut edge and minimize beveling.



Thickness of cut up to 300 mm

### Automatic gas pressure regulator.

Automatic synchronization of parameters tailored to the specific material thickness eliminates the need for manual adjustment of gas pressures during the gas cutting process. This reduces both the setup time and the cutting time. With precisely matched parameters, it is possible to achieve the highest possible quality.



## Cutting with simultaneous chamfering up to 55° during the processing of any material.



## Advantages of a tilting head over a rotating head:

- |           |   |  |
|-----------|---|--|
| <b>01</b> | <b>Absence of wire stress</b>           | Plasma and gas torch hoses do not twist during operation, thereby avoiding fatigue damage.   |
| <b>02</b> | <b>Time and material savings</b>        | The proper design and operating principle of the head do not require it to be "unthreaded" after each hole is made.  |
| <b>03</b> | <b>Utilization of two technologies.</b> | The design of the head allows for the use of both plasma and oxygen torches in 3D cutting.   |
| <b>04</b> | <b>Dynamic work without limitations</b> | Dynamic angle chamfering without the need for technological loops.   |
| <b>05</b> | <b>Bevel corrector</b>                  | The STIGAL controller has been equipped with functionality that allows for phase correction performed by the 3D head, optimizing the accuracy of detail execution. |

# Multi 3D

The multi-functional 5-axis head is an innovative worldwide solution that revolutionizes the process of contour cutting and chamfering of sheets, profiles, pipes, and structural sections. The head is capable of cutting in 3D using both plasma and oxygen technology. It has a cutting and chamfering thickness range exceeding 100mm. Furthermore, the largest tilting angle of up to 55° allows for unprecedented capabilities in contour cutting, which are only available in STIGAL cutting machines.



V bevel



X bevel



2Y bevel



Y bevel

### Capabilities of contour cutting and chamfering.

#### Cutting complex shapes.



The use of a special head design allows for cutting connections and intersections of objects with an angular deviation of up to 90°.

#### Torch approach angle up to 55°.



The new CP455G torch enables beveling up to the largest tilt angle of any plasma torch on the market. This allows for the execution of 3D cutting at an unprecedented angle.

#### Beveling on all axes



Tilting the head allows for chamfering in every direction while maintaining an ideal edge.

#### Reliability and safety.



The design of the head prevents the twisting of hoses during the cutting process of complex elements, which could lead to their damage (as in the case of rotating heads). This ensures reliability and prevents potential hazards.



## Remote diagnostics, repair, and machine servicing.



The purchase of a machine is just the beginning of success, which is why we maintain constant communication with our customers, providing them with technical and service support in every situation. Ensuring efficient operation relies on proper machine usage, and that's why we are always available to assist our customers in optimizing cutting technology, maintenance, and service.

## No shortcuts in after-sales service and technical support.



### Remote machine diagnostics

Continuously improved software and procedures enable 90% of technical support interventions to be conducted remotely. This eliminates the need for service technicians to visit the site.



### A ready-to-deploy team is always available.

Having our own fleet of service vehicles and a readily available team allows for efficient on-site technical support at the customer's location, right by the machine.



### Spare parts warehouse.

We have a spare parts warehouse for machines as well as consumables for equipment. This enables us to fulfill the majority of orders with same-day shipping.



### Relocations, renovations, and ongoing maintenance.

Company development often involves relocating machines to a new workshop or a new location. Our employees will carry out this process quickly and efficiently, minimizing downtime to a minimum.



### Monitoring, consultancy, and training.

Continuous development of staff and employee turnover necessitates the improvement and training of new individuals. We will conduct certified training at the customer's premises or remotely, ensuring that employees are ready for work upon completion.

# 90%

We solve support requests remotely.

# 15 min

The average response time of the service department.

## More than 600 implementations in Poland alone

Innovation and industry knowledge have enabled us to deliver hundreds of standard machines and numerous special-purpose machines designed to meet the specific needs of our customers.



## They trusted us





# NO SHORTCUTS IN BUSINESS IN CUTTING

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