












MODEL	ONYX
Drives	Servo AC
Cutting width	2000-7000 mm
Basic working length	Any length from 1500 mm
Positioning speed	25000 mm/min
Cutting thickness	up to 300 mm
Cutting quality	EN ISO 9013
Positioning accuracy	EN 28206
Safety standard	EN 13850

ADDITIONAL EQUIPMENT

- | | | | |
|---|--|--|---|
|  Gantry extension |  ESR System |  Filtroventilation |  Ventilation |
|  Plasma marking |  Drilling |  Punch marking |  Inkjet |
|  Heat shields |  Light barriers |  Compressor |  Air Booster |
|  Remote controller |  Suction table |  Automatic pallet table |  Water table |
|  Vortex 3D head |  Autocalibration for Vortex 3D head |  Autopositioning sheet for Vortex 3D head | |



The manufacturer reserves the right to make changes and/or improvements without notice.

SOFTWARE



And many more...



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ONYX

The modern construction and innovative technology solutions.
Unique work ergonomics and the attractive design.

OXYGEN
PLASMA

ONYX



1 VORTEX 3D FL HEAD

The fully automated plasma cutting head enables very precise bevelling and chamfering in a single sheet cutting process. Angle of rotation +/- 540° and head angle deflection +/- 47°, makes our cutting machine a universal tool able to work in three dimensions together with preparing welding phases on Y, V and K. Vortex 3D cutting head is equipped with sensors: anti-collision, electrical/mechanical touch and height sensor. This allows using technologies such as: Contour Cut®, Contour Cut Speed®, Diameter Pro® and True Hole®.



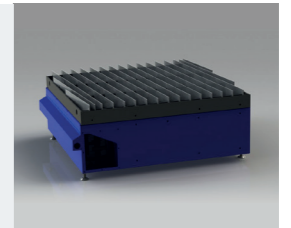
2 OXYGEN TORCH

Oxygen torch is the cutting solution destined to cut structural low-carbon and low-alloy steel. It is capable of processing wide range of material thickness. The torch was fitted out the height sensor, automatic ignition and possibility of manual angle setting.



3 SUCTION TABLE

Modular section tables grant efficient elimination of dust during the cutting process. The cutting machine was implemented with the self-supporting construction as the base for the frame with replaceable grids. Such construction offers safe and the best possible safety and performance of the table. The cutting table is provided with intelligent system of dust discharge from the cutting area. Each segment consists of supporting structure with discharge channels, diagonal grid, scrap tank and pneumatic controlled channels.



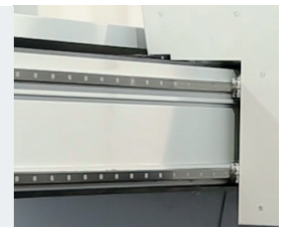
4 I-VISION CONTROLLER

The most modern i-Vision Controller is the high quality industry machine has Corning® Gorilla® Glass's touchscreen. Efficient parts and the strong construction ensures reliability Onyx working. Many functions of own software and simple controller's interface let to use all of machine's possibilities. Controller's place on the moving arm delivers the unique comfort and safety of machines operator. It make also possible to watching the cutting process and controller's using at the same moment.



5 CONSTRUCTION

The Onyx construction is made of closed profiles with large cross-sections. Integration of cabling and controlling elements inside the machine ensures more agility and less risk for destroying because of high temperature or other factors during the cutting. The size of guiding trolleys, specially prepared roadway and using double linear guides efficiently make the machine stable and deliver the best safety and accuracy.



CHARACTERISTICS

During designing of the plasma-oxygen cutter Onyx there were used some modern solutions of construction and mechanics. They ensured the best efficiency and the attractive, innovating look.

Modified bridge construction makes it more rigid and resistant for high temperature. It is very important, especially during even 300 mm thick materials cutting.

The unique combination of safety systems used in plasma-oxygen cutter Onyx ensure the highest comfort and the best level of safety for machine operators and people around them.

MAIN FEATURES

- ▶ Plasma Vortex 3D FL head ensure the best precision of automatic 3D cutting of plates, tubes and profiles
- ▶ More bridge rigid make possible to cut 1-300 mm thickness plates
- ▶ Modern i-Vision controller installed on moving arm delivers the unique ergonomic and comfortable work
- ▶ Modified drive system ensures clear X axle positioning during dynamic cutting
- ▶ Power LED lighting and light curtains warrants safe work
- ▶ Perfect scores thanks of greater base of predefined plasma and oxygen cutting parameters
- ▶ Integrated modules inside of the machine make better resistance for adverse influences from cutting process
- ▶ Machine with Kjellberg® Contour Cut™ technology and Hypertherm® True Hole™ certificate
- ▶ Remote management of the machine load
- ▶ Machine maintenance schedule assistant

STANDARD PLASMA POWER SUPPLIES

Hypertherm	Max. piercing	Max. from the edge	Kjellberg	Max. piercing	Max. from the edge
Powermax 65	10 mm	32 mm	PA-S45W	20 mm	45 mm
Powermax 85	12 mm	38 mm	HiFocus 80i	12 mm	25 mm
Powermax 105	16 mm	50 mm	HiFocus 161i Neo	30 mm	50 mm
Powermax 125	25 mm	57 mm	HiFocus 280i Neo	35 mm	70 mm
MaxPRO 200	32 mm	75 mm	HiFocus 360i Neo	40 mm	80 mm
XPR 170	40 mm	60 mm	HiFocus 440i Neo	50 mm	120 mm
XPR 300	50 mm	80 mm	HiFocus 600i Neo	80 mm	160 mm
HPR 400 XD	50 mm	80 mm	SmartFocus 130	25 mm	40 mm
HPR 800 XD	50 mm	160 mm	SmartFocus 200	30 mm	60 mm
			SmartFocus 300	40 mm	80 mm
			SmartFocus 400	50 mm	100 mm

* Given data depends on the material involved and its structure.
The ability to pierce depends on the material, thickness and also height sensor, and drive.

