

Four cutting technologies

LASER PLASMA WATER OXYGEN



Opal Waterjet
Combo



Opal Waterjet



Onyx



Sapphire



Chrome



Jantar



Ruby HD



Ruby ECO



Ruby MAX



Diamond Fiber
Laser 2

ONYX

Modern construction and innovative technological solutions. Unique ergonomy of work and attractive design.

PLASMA OXYGEN



Technology [Technical data](#) [Additional equipment](#) [Gallery](#)

Characteristics

During designing of the plasma-oxygen cutting machine 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.

Discover the modern CNC cutting machine for plasma and oxygen cut



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,
- Onyx has Hypertherm® True Hole™ certificate and Kjellberg® Contour Cut™ technology.

Technology

Construction

Do you want to know more?

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CONFIGURATIONS

- Vortex 3D FL Head
- Fume exhaust system
- Automatic pallet table
- Drilling
- Punch marking
- Plasma marking
- ESR System
- Gantry extension

GALLERY





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.



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.



Suction table

Modular suction 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 gird, scrap tank and pneumatic controlled channels.



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.



Vortex 3D FL Head

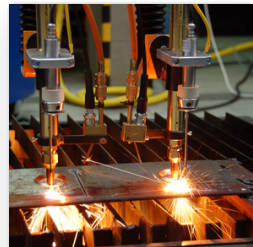
The fully automated plasma cutting head enables very precise bevelling and chamfering in a single sheet cutting process. Angle of rotation +/- 54° and head angle deflection +/- 52°, makes our cutting machine a universal tool able to work in three dimensions together with preparing welding phases on Y, 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®.

Worth reading



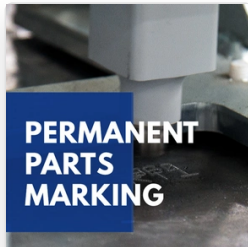
Onyx 3D in slovenian company

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Oxygen cutting

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