



CNC cutting centre

PlasmaCut

- high-power, general purpose
- materials up to 150 mm
- plasma and gas torches



The cutting machine of PlasmaCut type is a numerically controlled equipment designed for the cutting of material by the autogenous torch to the thickness 150 mm. It can carry autogenous but also plasma torch. It is a reliable and powerful machine type. The accuracy and cutting quality comply with standards EN 9013. PlasmaCut is characterized by reliable running, high performance and high quality of cut.

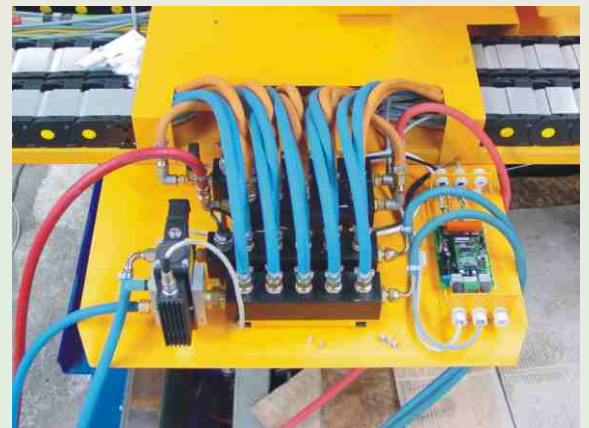
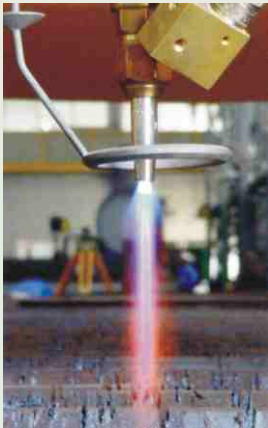
The portal is of steel, from machined square, rectangular or triangle profile, in working width from 1,5 to 4 m as standard. In X axis is moved by the machined rail with linear guidance. The machine can carry one or more portals. To 5 cutting heads can be on the portal.

The GCE torches are standardly supplied for autogenous cutting but torches of any other required trade mark can be used. Each torch is equipped by automatic igniter and capacity sensor of cutting height that are controlled from the control system. Propane, acetylene and also natural gas can be used for cutting. It is possible cutting with several torches together. Regulation of plasma torch height is based on voltage measuring of electric arch of plasma. The system of anti-corrosive protection ensures the machine switch-off after the collision with obstacle.

The machine frame is created by „legs“ gripped by anchoring screws . Planes on them are adjusted and rails with linear guidance are machined. The rail is gripped by a foot to legs. The path straightness is adjusted by side pushing screws.

The working exhaust table is of modular construction. Each module is divided into 3 sections, valves of which are opened and closed in dependence on portal movement. The control of valves through the pneumatic cylinders is the responsibility of control system. The table has a high loading capacity that is inevitable for cutting of materials with thickness to 150 mm.

Control systems MSNC 500 / BRNC 500 is a universal control systems that provides all functions required for comfortable and reliable control and manipulation of cutting machines with plasma and gas torches, or for cutting using water jet technology. Control systems respects all requirements on high reliability and comfort of control and manipulation.



Technical parameters

working width	1500 - 4000 mm
working length	1500 to 30000 mm
position speed	to 30 000 mm/min (by version)
max. material thickness	by plasma type / autogen to 150 mm
torch controlling height	autogen - capacitance measurement plasma - based on plasma arc voltage
position precision	+ - 0,1 mm
power	230V, 50Hz, 16A
machine accuracy corresponds to standards EN 9013 and DIN 28 206	