



CNC cutting centre

SPL

- cutting of tubes, sheets, profiles
- accurate fast - powerful
- robust and dynamic
- for High Definition cutting
- rotation bevel head



The SPL plasma cutting machine is a numerically controlled machine designed for division of material by plasma. The modular construction of this machine enables on the basis of customer's requirements to supply machines with the width of working zone 1500 to 4000 mm and length of working zone 1500 to 30000 mm, with various additional shafts and positioners.

- Robust, accurate and fast, specifically for the burning by Hi Focus plasmas
- Stiff and dynamic machine suitable for the heavy operation
- Accurately ground guidance with ball carriages in all axes
- Both sides drive
- Clearance in all drives is specified automatically
- Drive in Y-axis with accurate racks with helical teeth
- Drive by ball screw for Z-axis
- Exhaust section table of modular construction and variable size
- Fine grates in table catching small component parts
- Waste containers are integrated in tables
- Wide software assortment
- Fully colour display by the touch screen + control panels on both sides of portal



Any **plasma source** that is able to communicate with the CNC system can be connected. We use the sources of worldwide trade marks as KJELLBERG, HYPER THERM, THERMADYNE, FORMICA etc.

During the cutting process, the height of plasma torch above the sheet is controlled through the adaptability from the cutting voltage.

We install the plasma torches also in the equipment called ROTATOR, that enables the fluent cutting change of perpendicular and bevel cuts in 3D system.

After the customer's requirement we install also **gas torches** at this machine type. But the portal must be increased. They are supplied with automatic or manual gas bracket that ensures adjusting of gas pressures and activation of individual torches. The torches are ignited by the control programme through igniter.

Automatic gas bracket ensures fully automatic preheating, burning-up and cutting in dependence on material thickness and quality. It also adjusts automatically the activity of individual torches.

The working table is of modular construction with the section exhaustion that ensures optimal exhaustion in the place of cutting. The modular construction enables to construct tables with width from 1.5 to 4 m and in lengths from 1,5 to 30 m and more if necessary. The tables are with fine and coarse grate and are equipped by waste containers. There is an offer of stairs for better access on big tables.

The portal of burning machine is moved by the path separated from working table. By it is ensured that the accuracy of machine is not influenced by table shaking at loading of material and its thermal deformations. In the portal to six working heads can be embedded if necessary.

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	to 30000 mm
cutting speed	by plasma type and materials thickness
position speed	0 - 40 000 mm/min (by version)
max. material thickness	by plasma type (max 80mm)
	autogen to 80/150/250* mm
torch controlling height	autogen - capacitance measurement
	plasma - based on plasma arc voltage
power	230V, 50Hz, 16A
position precision	+0,1 mm
machine accuracy corresponds to standards EN 9013 and DIN 28 206	
* - according to request	