

SPARCIN 4000



HIGH PRECISION PLASMA CUTTING SYSTEM

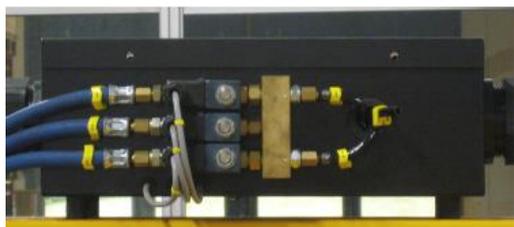
SPARCIN 4000 is a high precision plasma cutting system for industrial production cutting of all materials from 0.5 to 50mm. The plasma cutting system is designed for continuous use with 100 % duty cycle in the whole current range from 20 to 200 A.

The SPARCIN 4000 system is ideal for job shops and all industrial cutting of various metals in its capacity range. Whether the task is to cut mild steel, stainless, aluminium or other alloys the SPARCIN 4000 has the capability to cut with the best possible quality and economy.



GAS CONTROL UNIT GCU

The gas control unit is designed to be easy to manoeuvre with gas selection and setting of pressures. With a selector the proper gas mixture according to the cutting task is selected. All settings can be easily found in the parameter charts delivered with the machine. Simple to use - low risk of operator error.



TORCH CONNECTION UNIT TCU

The torch connection unit connects the hose assembly (TCL) from the machine to the X-Cut/400 torch. It is mounted close to the torch on the torch carriage or the robot arm and contains the gas valves and an ignition system. Having the ignition system close to the torch minimizes ignition problems and protects the CNC-control.



QUICK CHANGE TORCH HEAD

The quick change torch X-Cut/400 features a robust yet finely engineered torch head built to deliver 100 % quality and productivity throughout its lifetime with minimum maintenance. For those who cut short series of different materials it is convenient to have several heads equipped for the different tasks.



X-CUT/400 TORCH

The X-Cut/400 torch features direct cooling of nozzle and electrode which makes the lifetime as long as possible. The shield outside the nozzle effectively protects the nozzle from spatter, accidental touching of the work piece etc. While 9 out of 10 break downs in plasma cutting installations are torch related, a quick change torch head is a quick remedy and usually the machine can be up and running within minutes with the help of an optional secondary torch head.

With the X-Cut/400 the cutting is fast, economical and high quality.

The consumables for X-Cut/400 are made to the highest industrial standards. Each individual part is inspected visually. Critical parts are checked on a regular basis in the production to eliminate the risk of parts that are not made to our strict quality standards reaching end customers.

With the SPARCIN 4000 together with the X-Cut/400 torch the systems delivers accurate cutting with:

- Straight cuts*
- Smooth cut surface*
- Directly weldable cuts also in stainless steel*
- Dross free cuts*
- Repeatable quality
- Less rework
- Narrow kerf width
- High cutting speed without sacrificing quality
- Higher productivity
- Lower costs

Long lifetime of the consumables means not only better cutting economy but also less downtime. Thanks to the quick change torch head the downtime when changing consumables can be reduced to a less than a minute.

* material depending

CUTTING DATA			
MATERIAL	CURRENT	THICKNESS	SPEED MM/MIN
Mild steel	30A	0.5	5355
Mild steel	30A	1	3615
Mild steel	30A	2.5	1325
Mild steel	50A	5	1200
Mild steel	80A	5	3660
Mild steel	80A	10	1810
Mild steel	130A	10	2680
Mild steel	130A	15	2275
Mild steel	200A	25	1165
Mild steel	200A	50*	255
Stainless steel	45A	1	5880
Stainless steel	45A	3	2550
Stainless steel	80A	6	1225
Stainless steel	130A	6	1960
Stainless steel	130A	10	1300
Stainless steel	200A	15	1200
Stainless steel	200A	25	550

*) Edge start recommended. Cutting parameters may vary depending on material and the shape of the detail.

TECHNICAL DATA

Power supply	3~50 Hz, 400 V
Fuse	80 A slow blow
Maximum power	40 kVA
Process power	190 V / 20-200 A
Duty cycle	100 %
Open circuit voltage	300 V
Protection class	IP 22
Cooling	F
Temperature class	F
Dimensions LxWxH	Power source 740x510x1210 GCU 450x420x320
Weight	150 kg

SPARCIN 4000