



SPARCIN 4000

HIGH PRECISION PLASMA CUTTING SYSTEM



SPT Plasmatechnik AB is proud to introduce the latest development of the SPARCIN 4000 high precision plasma cutting system. It is developed for industrial production cutting of all materials from 0,5 to 30 mm (up to 50 mm with edge start). The SPARCIN 4000 is ideal for all job shops and all industrial cutting of various materials 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. The system has now been further enhanced with a new torch and gas console. The new X-Cut/400 torch delivers improved performance, quality and economy compared to its predecessor.

SPARCIN 4000 is designed to fit with all CNC cutting machines and robots.



SPARCIN 4000 PLASMA CUTTING SYSTEM

The SPARCIN 4000 plasma cutting system is designed for industrial continuous use with 100 % duty cycle in the whole current range from 20 to 200 A. The build-up of the power source has been made with regard to best possible reliability and service-friendliness. The different parts of the power source have separate compartments to avoid costly damages. For example, the water cooling system is sealed off from the electronics to protect them if there should be a water leak.

The SPARCIN 4000 has a CNC-interface with all necessary signals to communicate with CNC-controls and robots including several error messages.

The new gas console features 4 digital pressure gauges. Having only pressure to adjust makes the operation much simpler compared to having to adjust both pressure and flow. All power source settings can be set via CNC-interface. The next generation of fully automatic computer controlled gas console is under development.



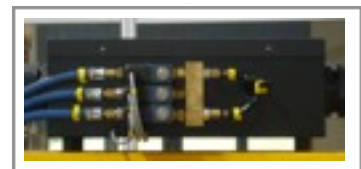
QUICK CHANGE TORCH HEAD

The new 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.



GAS CONTROL UNIT GCU

The new gas control unit is simpler than its predecessor to manoeuvre since it has gas pressure settings only. 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 minimises ignition problems and protects the CNC-control.



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
- Laser-like quality in most materials
- 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. In 10 mm mild steel it is possible to cut more than 1000 pieces at 20 seconds or less per part.

SPARCIN 4000 delivers the same or better cut quality and the same or better productivity as the competitor's systems, but at a far lower costs. Apart from the better consumable economy, the investment is about 30% less compared to equal systems on the market.

SPT Plasmateknik AB is committed to delivering the best plasma cutting solutions to the industry. Contact us directly for advice and to find the location of your local dealer. As we constantly develop our products further we reserve the right to change the products without prior notice.

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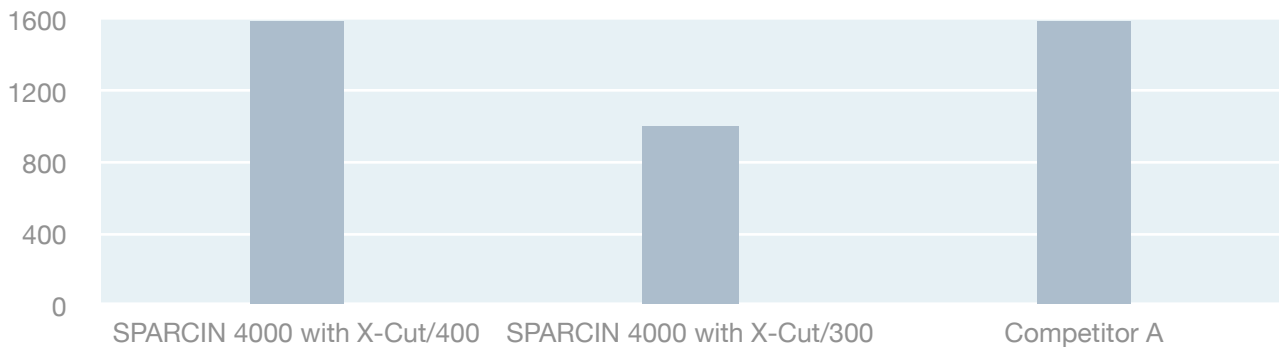
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CUTTING DATA			
MATERIAL	CURRENT	THICKNESS MM	SPEED MM/MIN
Mild steel	30 A	0,5	5355
Mild steel	30 A	1	3615
Mild steel	30 A	2,5	1325
Mild steel	50 A	5	1200
Mild steel	80 A	5	3660
Mild steel	80 A	10	1810
Mild steel	130 A	10	2680
Mild steel	130 A	20	1050
Mild steel	200 A	15	2275
Mild steel	200 A	25	1165
Mild steel	200 A	50*	255
Stainless	45 A	1	5880
Stainless	45 A	3	2550
Stainless	80 A	6	1225
Stainless	130 A	6	1960
Stainless	130 A	10	1300
Stainless	130 A	15	670

*) Edge start recommended. All values are approximate and may vary on individual installations.

Consumable lifetime - Number of starts, 10 mm mild steel, 20 second cuts.



TECHNICAL DATA

TECHNICAL DATA	SPARCIN 4000
Power supply	3~50 Hz, 400 V
Fuse	80 A slow blow
Maximum power	40 kVA
Process power	200 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



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