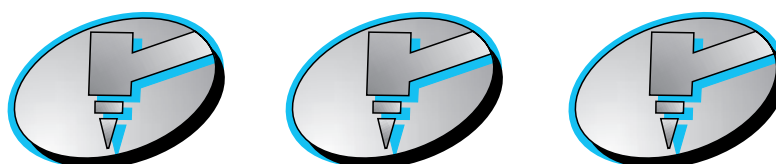




SISTOR 142



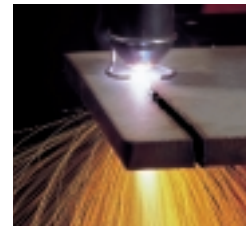


PLASMA CUTTING MACHINE

SISTOR 142

Power, sturdiness and design innovativ

The new plasma cut generator in the Sistor by Selco features a modern innovative design. Sistor 142 can cut **carbon steel, stainless steel and aluminium down to 50 mm**, and does not consume much electrical power and



compressed air. It is the ideal tool for cutting conductive materials on-site and in the workshop. It is more versatile, simpler, quicker and more practical to use than traditional mechanical tools and oxyacetylene welding torches.

Sistor 142 fully complies with the European regulations **IEC974-1, EN50192, and EN50078** concerning electrical safety and the stringent European regulation **EN50199** concerning electromagnetic compatibility; application of these regulations endures compliance with the **Community Directives** and maximum operator **safety** during work.

Selco is a company with **ISO9001** certification and a highly qualified distribution network, a further confirmation of the product and service quality it offers its customers.

USE

Chopper technology and quality construction ensure **safety, dependability and stable accurate cutting arc** in all operating situations.

The pilot arc features accurate striking thanks to a high frequency device. Cutting current can be continuously adjusted in the range from 20A to 140A and is independent of mains voltage variations.

Electronic control of the cutting process reduces electrode and nozzle wear. Correct setting of the air flow for the cutting arc is easily obtained by means of the gas test button and the flow meter provided and digital pressure gauge.

If used beyond the rated parameters a **thermal device** and a **mains voltage protection**, protect the internal components from malfunctioning. **Two alarms** are also provided, one to cut off the output voltage when the torch is not completely assembled and the other to prevent operation with incorrect compressed air pressure.



The control panel shows how easy the Sistor 142 is to use.



ADVANTAGES

- ✓ **Easy handling due to the sturdy revolving wheels and compact dimensions.**
- ✓ **Voltage change terminal** for connection to 230 V or 400V 3-phase mains.
- ✓ Chopper technology ensures high efficiency and energy consumption proportional to cutting current.
- ✓ **Stable, precise cutting current.**
- ✓ **Low wear** of torch spares.
- ✓ **Test-gas push-button.**
- ✓ Possibility of cutting until 50 mm mild steel, stainless steel and aluminium **with electricity and compressed air only.**
- ✓ **External parts made of shockproof polycarbonate.**
- ✓ **Extremely easy** to adjust due to the digital control front panel.
- ✓ Parameters controlled 10.000 times per second by **microprocessor.**
- ✓ **Easy safe replacement of torch** due to the central fitting with locking system.
- ✓ **Digital reading** of air pressure and cutting current setting and measurement of the actual cutting voltage and current.

APPLICATIONS

- LIGHT AND HEAVY STRUCTURAL WORK
- BUILDING
- SHEET METAL WORKERS
- MAINTENANCE
- TRANSPORT
- AUTOMATION

Structural work: thickness sheet metal from 1 to 50 mm,...

Building: corrugated sheet metal, steel-cage construction, section bars...

Sheet metal workers: sheet metal in the workshops and on site...

Transport: lorries, trains, aeroplanes, containers...



MILD STEEL

Thickness (mm)	Current (A)	Speed (mm/min)
3	50	4300 *
6	50	1500 *
10	50	750 *
20	50	200
6	100	3700 *
10	100	1800 *
20	100	750 *
30	100	400 *
40	100	200
10	140	2800 *
20	140	1200 *
30	140	650 *
40	140	350 *
50	140	200 *

STAINLESS STEEL

Thickness (mm)	Current (A)	Speed (mm/min)
3	50	2500 *
6	50	1000 *
10	50	550
20	50	200
6	100	3400 *
10	100	1800 *
20	100	550 *
30	100	300
40	100	130
10	140	2700 *
20	140	900 *
30	140	500 *
40	140	300 *
50	140	150

ALUMINIUM

Thickness (mm)	Current (A)	Speed (mm/min)
3	50	4300 *
6	50	1900 *
10	50	800
20	50	300
6	100	4000 *
10	100	3000 *
20	100	900 *
30	100	600
40	100	300
10	140	3600 *
20	140	1600 *
30	140	1000 *
40	140	600 *
50	140	300 *

* High quality cut

TECHNICAL DATES

POWER SUPPLY VOLTAGE		3x230/400V* 50/60Hz
DELAYED FUSE		25 A (400V) -40 (230V)
RATED POWER		22.6 kW
CUTTING CURRENT	X=40%	140 A
	X=60%	120 A
	X=100%	90 A
CUTTING VOLTAGE	X=40%	136 V
NO-LOAD VOLTAGE		255 V
PILOT ARC CURRENT		22 A
OPERATING PRESSURE		5 bar
FLOW RATE		200 l/min
PROTECTION CLASS		IP21
INSULATION CLASS		H
CONSTRUCTION RAGULATIONS		IEC974-1; EN50199
		EN50078; EN50192
WEIGHT		144 kg
DIMENSIONS		40x70x78 cm

Note: the above specifications refer to an ambient temperature of 40° C.

ARTICLES CODES

Sistor 142	3x230/400V	54.01.080
Earth cable	25 m ² 4 m	71.05.016
Plasma torch	R145 6 m	81.20.026

** Special voltage values on request*

Since SELCO pursues a policy of continuous research and development, the data shown may be subject to modifications without notice.

