



DIAMOND CUT 115 - 78 DC / DX



HYDRAULIC PAPER CUTTING MACHINES

# Fully hydraulic. High performance.



## Service at the touch of a key.

The S-Line easy-to-use computer-control type 'DC' (10,4" TFT-colour monitor) makes this a high-speed guillotine that's worthy of the Diamond Trademark. The total number of required keys has been reduced by a third. The possibility of incorrectly programming the machine has been eliminated right from the start.

Each control key has just one function - even if peripheral equipment is attached. External programming via IC card, an unlimited number of programmes, as well as language-independent usage and service diagnostic programmes, are but a few examples of the controlsystem's immense performance.

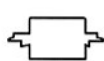
## Quality is decisive.

He who wants to produce in large format, needs smooth machines of highest precision. With more than 2 decades of experience in the manufacturing of high - quality paper cutters Diamond Cut provides a long and trouble-free run, even in non-stop production conditions. With this compact design Diamond Cut realises large format processing on small space.

These high-speed cutters can take a lot of abuse, because Diamond Cut equipments live longer. The S-Line are based on a solid cast iron frame. And you'll benefit from mechanical / hydraulic drive that had proven over many years. The position of flywheel and motor gives the machine an excellent weight distribution. The pneumatic clutch guarantees an excellent overload protection.

## Lots of extras - at no extra charge.

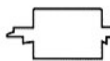
- Fully hydraulic drive
- Solid cast iron design
- Computer-control with TFT-colour monitor
- Infrared safety curtain
- CE & EN 1010 - conform
- Airfilm table with stainless steel surface, rustproof
- Central lubrication system
- Automated knife change at the front of the machine (AKC)
- Programme correction facility (linear and percentagewise)
- Optical cut indicator
- 2 knives (HSS quality)
- Slot closing device
- Clamp cover plate
- Tools
- Colour: RAL 7035, light grey



78cm



92cm



115cm



130cm



137cm

DIAMOND CUT

S-LINE

# Fully hydraulic. High performance.



## The maintenance can wait so you don't have to.

Precision linear guides, a ball race lead screw and a major reduction in the number of mechanical parts make the Senator S-Line one of the most maintenance-free and cost-effective machines of its kind on the market today. The hydraulically controlled, semi-automatic knife change is easy and completed in minutes. It makes the need for most adjustments a thing of the past. But if they are necessary, they can be easily performed from the front of the machine.

## Safety: first, last and all ways.

The hydraulic fail-safe design for the hydraulics and controls (using separate, independently controlled microprocessors) is your assurance for the highest possible safety and compliance to the CE and EN 1010 security standards. The integrated monitoring elements in the control system provide (in conjunction with the hydraulic overload protection system) highly-reliable protection against potential mechanical damage. A clutch (wearing part) is superfluous. The Diamond Cut DC is equipped with an infrared safety barrier. Furthermore, the pressure adjustment is electronically controlled by a proportional valve and therefore programmable with each cut.

DIAMOND CUT



S-LINE



# Cutting with Style

## Features of S - Programmable Line

1. Our programmable paper cutting machine adopts advanced computer control system, 10.4" or 8" color LCD and servo motor. It has multination language choice.
2. The data resolution is less than 0.01mm. The location precision is less than 0.01mm. The maximum backgauge speed is 12m/min.
3. Our paper cutting machine can store 50 cutting program blocks. From 1st to 10th, every program can store 99 cutting sizes. From 11th to 50th, every program can store 50 cutting sizes. The longest storage time is 30 years.
4. The backgauge mechanism adopts high stiffness double linear guides (except 78 size machine) and high precision gapless lead screw to ensure backgauge accuracy.
5. Our programmable paper cutting machine adopts double hydraulic system which is composed of two hydraulic circuits. When press the footpedal, the hydraulic oil goes through the primary hydraulic circuit made up of reducing valve and spillover valve, and gives the cutting paper micro pressure. The pressure is only several kilograms and can't hurt operator's hands. At the time of cutting paper, put thousands of kilograms of high pressure to ensure the cutting quality and safe operation.
6. Chrome-plated for main worktable and side tables, and has the device of air cushion, which is convenient for backgauge running.
7. Our paper cutting machine is of high safety. It adopts inside electronic knife locker, which can effectively avoid knife-sliding and ensure the safety of operators. It has infrared photoelectric protection, main motor overloading protection safety device for cutting, and buttons by two hands safety devices.
8. The large components adopt HT250 cast iron and has accepted vibration stress relief, so they won't deform after been used for long time.
9. Our programmable paper cutting machine adopts Japan NSK bearing of low maintenance, Taiwan TECO servo motor, and German DICHOTOMATIK hydraulic elements. Main electronic units are from French TE and Japanese ORMON brands.
10. This paper cutting machine has mechanical assistance device for knife replacement, illuminated working surface/optical cutting line indicator and a tool box with tools, operating instruction, computer manual and spare parts list. It has total 2 knives.



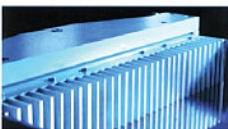
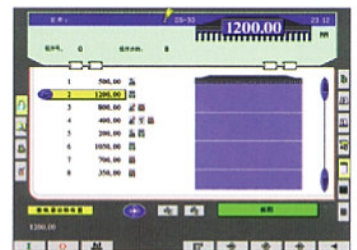
Mitsubishi AC motor



The hydraulic system adopt the German advanced technology, the elements is approved under ISO stanard



The new raster is produced according to CE standard. increases 16 point. This can improves the safty factor



Supply the backgauge mechanism of the high rigidity linear guid



The main electronic units are imported, famous international brands from Siemens (Germany), TE(France)and Omron(Japan).



The stability and accuracy of backgauge position is determined by two linear ball races and a linear ball screw.



Mitsubishi Transducer



The Built in air table enables the operator to efficiently manipulate heavy and bulky stock with ease. The chrome table gathers no rust



The special knife blade fixing unit enables safe and efficient replacing.



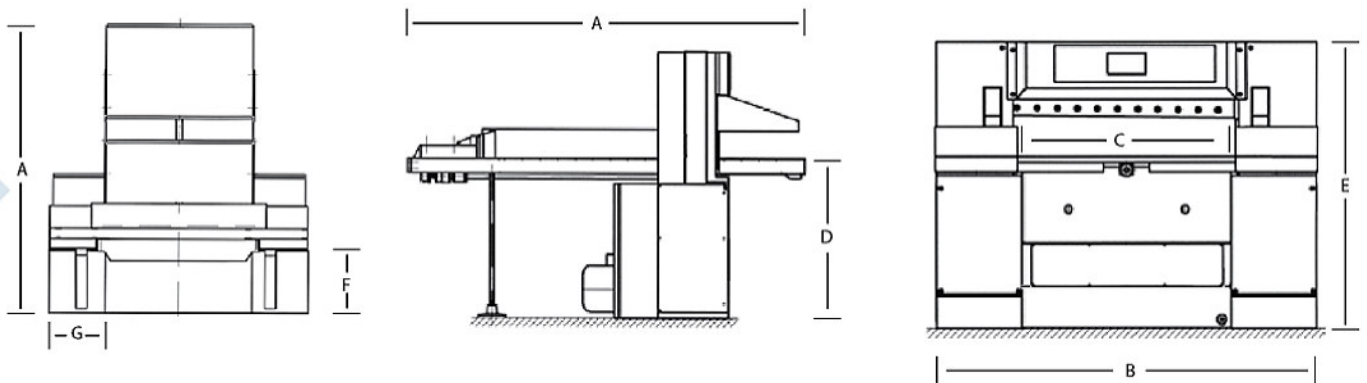
# Cutting with Style

## Specifications & Technical Data

### Specifications:

Model		A	B	C	D	E	F	G
78	inch	80.7	80.3	30	35	60	19	23
	cm	205	204	78	90	152	46	60
92	inch	89.8	85.8	36	35	60	22	23
	cm	228	218	92	90	152	56	60
115	inch	102	117.3	45	35	66	29	39
	cm	259	298	115	90	167	75	100
130	inch	105.5	110	51	35	66	29	39
	cm	268	280	130	90	167	75	100
130	inch	113	126	54	35	66	29	39
	cm	287	320	137	90	167	75	100

### Measurements



### Technical Data

Model	S-137DC/DX	S-130DC/DX	S-115DC/DX	S-92DC/DX	S-780DC/DX
Max. Cutting Width:	1370mm	1300mm	1150mm	920mm	780mm
Max. Cutting Length:	1450mm	1300mm	1150mm	920mm	780mm
Max. Cutting Height:	165mm	165mm	165mm	120mm	120mm
Front Table Length:	730mm	730mm	730mm	612mm	697mm
Max Clamp Pressure:	45000N	45000N	45000N	35000N	35000N
Cutting Speed [ Times/min]:	43	43	43	42	42
Power of Main Motor:	4KW	4KW	4KW	3KW	3KW
Weight:	5000Kg	4800Kg	4200Kg	3000Kg	2500Kg

DIAMOND CUT

S-  
LINE

# Fully hydraulic. High performance.



Model	SPj-1325
Max. length of Worktable(L) :	1325mm
Max. width of Worktable(W) :	860mm
Max. Height of paper stack :	165mm
Max. jogging power :	5Kw
Over all Dimension:	1555x 1160 x 1745mm
Max. jogging torque:	175daN



DIAMOND CUT

S-LINE

Model	SPL-1360
Max. length of pallet(L) :	1360mm
Max. width of pallet(W) :	1000mm
Max. Height of platform :	900mm
Max. loading capacity :	1000Kg
Over all Dimension:	1830 x 1500 x 1450mm

