

**SCHNEIDER
SENATOR**

E-line 78 & 92

Guillotines



Small. Strong. Precise.

- Direct electromechanical knife drive
- User-friendly PCC control unit
- Fast, automated knife changes from the front
- Drastic reduction in energy consumption
- Requires little space and makes little noise
- Made in Germany



**Made in
Germany**

High performance. Compact format.

Small-format cutting requires absolute precision and reliability - and Schneider Senator's E-Line meets this challenge. Ideal for cutting widths of 780 and 920 mm, these machines deliver ultimate energy efficiency and a variety of quality advantages associated with the Schneider Senator brand.



E-Line 78



E-Line 92

Silent and strong

The Schneider Senator E-Line is absolutely silent in standby mode and only needs power during cutting. Tried-and-tested Schneider Senator technology is the result of our systematic and methodical approach to development, so it is always user-friendly. The electromechanical knife drive operates without a geared fly wheel, so there is no risk of wear and tear. The result: drastically reduced machine maintenance costs. The unit is driven precisely by a gear motor, and knife changes and adjustments can be made conveniently from the front. Thanks to the knife changer, automatically replacing the cutting knife is child's play and it also meets the highest safety standards. There's no more need to adjust the knife draw rod and all grease points are easy to access. The E-Line package also comes with a PCC control unit, which is simple to use and doesn't involve a steep learning curve.

Quality 'Made in Germany'

The proven quality that is the hallmark of Schneider Senator units comes from their solid construction and a label that says it all: Made in Germany. All E-Line production parts are made in our own plants in Germany and all guillotine castings are produced in Germany, too. Other aspects, such as the assembly of mechanical and electronic devices, are also kept exclusively in-house, allowing us to take care of everything in our Schneider Senator factories in Germany. As a result, ultimate production quality is a given.

As is well known, we are totally committed to utmost safety. Besides bearing the CE label under EU regulation 765/2008, our machines meet the EN 1010-3 standard for machine safety (safety requirements for the design and construction of printing and paper converting machines).

Equipment:

- Direct electromechanical knife drive and hydraulic clamp bar
- Computer control PCC with 15" TFT display, USB and Ethernet connection
- Frequency-controlled back gauge drive with ball-screw spindle (225 mm/sec)
- One-piece, closed rear table (without slot cover band) - with hinged rear table cover
- Solid cast iron frame
- Infrared safety barriers
- Safety catch with shear bolt (safety bolt)
- Rust-proof cutting table with air film and stainless steel surface (2 mm)
- Optical cut indicator
- Knife change and adjustment from the front
- 2 knives (HSS quality)
- 5 sinus cutting sticks
- Clamp bar cover plate (60 mm)
- Ergonomic cut buttons
- Tool kit
- Colour: RAL 7035, light grey
- Conforms to CE & EN 1010 standards

Matched to industrial needs and precision

The hydraulic clamp bar and the precise electromechanical knife drive on this guillotine are ideal for industrial operation in half-size formats. The electric and hydraulic components are housed in the lower section of the machine to deliver a highly precise cut, meeting the very highest standards.

Depending on the properties of the material being cut, the E-Line can be operated at up to a maximum clamp opening of 120 mm. Materials that are typically cut on this machine include paper, paperboard and cardboard, as well as paper banknotes containing cotton fibres. Depending on the knife grade, even difficult materials can be cut with the E-Line.

The clamping hydraulics are activated centrally using two powerful equalising levers which deliver a pressing clamp capacity of between

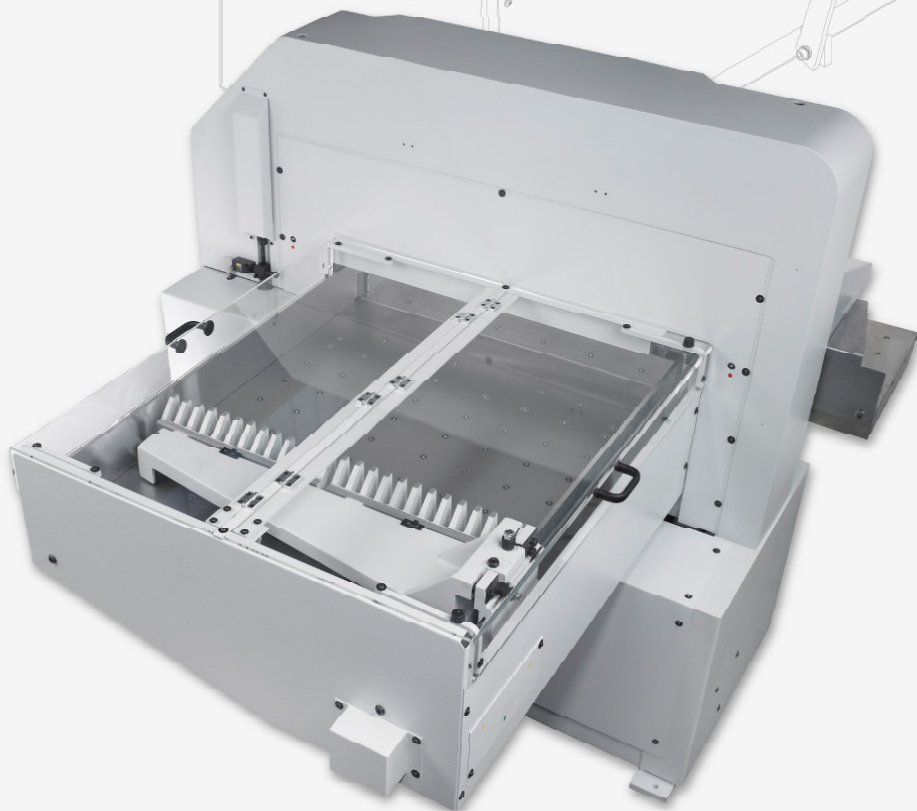
100 and 2500 kg (E-Line 78) or up to 3000 kg (E-Line 92). The pre-clamping time can be preset in 0.1-second increments from 0 to a maximum of 9.9 seconds.

After the cut is released, the clamp lowers onto the cutting material using a preset pressure for a preset clamping time. After pre-clamping, the knife carrier with the knife is drawn through the material from above in a swinging motion. After reaching the lower dead centre, the knife carrier with the knife returns to the upper position. To adjust the cutting depth and the parallel position of the knife versus the cutting sticks, two excentric adjustments can be made. The back gauge speed can be programmed. Swing and tilt of the back gauge is set manually.

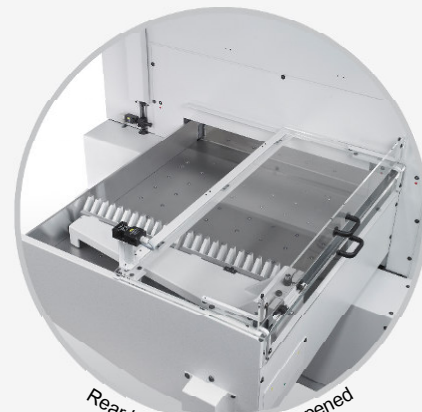
One-piece rear table with solid back gauge

The sturdy rear table allows for optimal material handling by doing away with the usual slot cover band. Another unique feature for a machine of this type is the solid back gauge. The cover is hinged on

the left and the right to allow for quick access to the rear table. Naturally, access is monitored electronically - as ever, operator convenience and safety are a key priority.



E-Line 92, one-piece rear table, closed rear table cover



Rear table cover, left side opened



Rear table cover, right side opened

Everything under control

Ultimate user-friendliness

15-inch TFT colour display

Clear icons

Intuitive coding



The new Power Cutting Control (PCC) acts as the central operating and control unit for Schneider Senator guillotines. The PCC guarantees ultimate user-friendliness with high definition graphics on a 15-inch TFT colour display, designed to give a clear overview. The control functions, display and drive technology have all been merged into a single package, making this industrial control unit ideal for heavy-duty industrial applications. The unit also features a variety of future-proof, proven and reliable controls provided by our development partner B&R. To make it practically fail-safe, the unit contains no specially produced PC boards or moving components (eg: aerator or rotating hard disk).

The traditional safety wire system has been replaced by SafeLOGIC, an intelligent electronic control system that delivers ultimate operating reliability and adheres to the strictest safety standards. To make data exchange as simple as possible, the unit is equipped with an Ethernet and USB interface.

The network connections and open system architecture are ideal for rapid digital workflows. The unit provides numerous programming options plus the possibility to control peripherals centrally through the PCC unit, thus underscoring the user-friendliness of the overall system.

Programming options :

- Single cut
- Repeat cut
- Programmed cut
- Fully automatic cut
- Adjustable pre-press time (digital form)
- Actual value transfer
- Back gauge feed speed
- Clamping without cut
- Linear program correction
- Program correction in percentages
- Automatic paper ejection, programmable ejection mark
- Cutting optimiser



Handy optional extras

LST side tables

To make material handling as easy as possible on the guillotine, it is recommended that the standard BN side tables are replaced with larger LST side tables. The ventilated side tables come with a stainless steel surface in two standard sizes.

- LST 750 (750 x 750 mm)
- LST 1000 (1000 x 1000 mm)

This helps improve ergonomics and with air nozzles integrated into the stainless steel surface, it is easier to move materials around on the air cushion. Another defining feature of the LST tables: they have been overhauled to eliminate the inner front table legs and provide the operator with more legroom at the guillotine, naturally without compromising the stability of the table or cutting accuracy. The new table legs also come with galvanised, flexible feet to make it easier to adjust the guillotine to requirements. The tables come with a 2 mm solid stainless steel surface for ultimate durability.



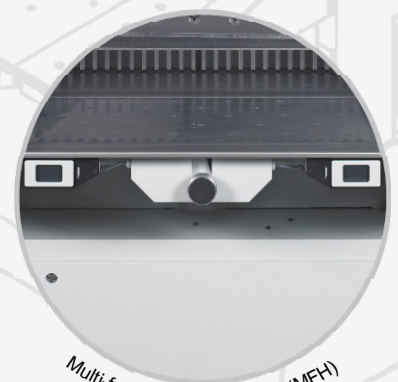
Side tables LST 750

Tungsten carbide knife

These knives are much more durable than standard HSS steel knives. The ultra-fine grain of the material makes the knives perfect for even the most difficult cutting tasks. The knives are also quick and easy to change from the front.

Multi-functional hand wheel (MFH)

The MFH is used to position the back gauge quickly and precisely. The hand wheel is located centrally between the cut buttons. The speed of the forward and backward movement of the back gauge can be adjusted by using two electronic controls. It is easy to make adjustments at any time without interrupting the cutting program.



Multi-functional hand wheel (MFH)

Narrower clamp cover plate

The special clamp cover plates come in a narrow and extra narrow version to replace the existing plate and allow for small cutting sizes - naturally, without any loss of quality. The unit can be mounted from the operator side. This plate reduces the smallest cut from 70 mm (with standard clamp cover plate) to 60 or 50 mm.

Isoloc vibration absorber

With difficult floors, it is recommended that Isoloc noise insulation is used. This entails placing the machine on four vibration absorbers resulting in a higher working height of up to 95 cm. The anti-vibration package includes levelling discs and levelling bolts to absorb cutting movements. The effective vibration insulation also helps reduce noise and is especially recommended for machines installed above ground level.



Isoloc vibration absorber

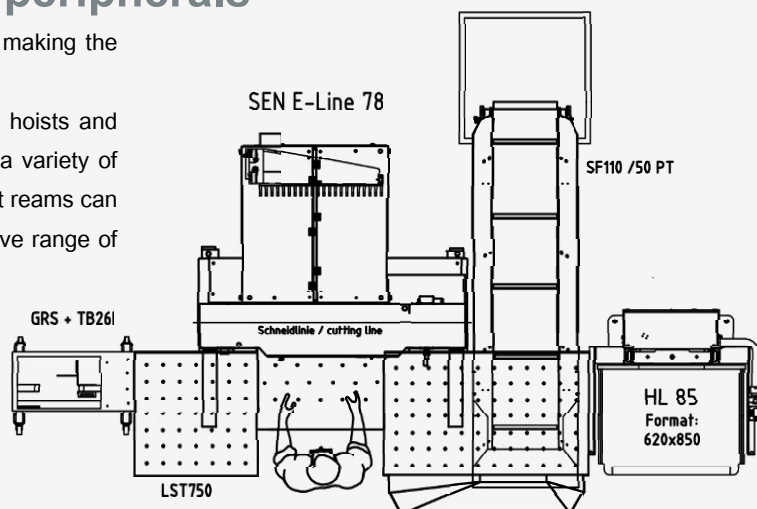
Waste bin

This solid plastic container comes on rollers to provide plenty of room for cutting waste, improving efficiency by making it easier to throw away rejects next to the side table.

Completing the picture: useful peripherals

Gerhard Busch GmbH provide a wide range of peripherals, making the E-Line a central feature of any efficient cutting system.

To prepare material away from the guillotine, there are pile hoists and joggers. To transport cutting waste to containers, there are a variety of perfectly developed waste conveyor solutions. Afterwards, cut reams can be bundled into clearly arranged packages using the extensive range of BUSCH banding machines.



Pile Hoist

This hoist is for automatically lifting and lowering cutting materials on pallets. To increase productivity and simplify processes, working heights are individually adjustable. The pile hoists can also be used for de-stacking cutting materials.



Jogger

To cut materials accurately, reams need to be aligned uniformly in exactly the right position. These can be formed into blocks by using the air removal roller. The jogger boosts guillotine productivity by making it possible to continue cutting while more materials are being prepared away from the guillotine.



Waste Conveyor

Busch also manufacture tailor-made solutions for transporting cutting waste to containers. The waste is dropped manually into the funnel of the conveyor. The conveyor can be positioned on the right or the left of the guillotine and can be controlled by the PCC unit. Apart from the manual on/off controls, the unit can be put on automatic with a predefined follow-up time.



Banding Machines

All Busch banding machines operate with coated kraft paper tape or transparent foil tape. The table banding machines are versatile enough to cope with banding in the smallest of volumes as well as high volumes. For ultimate flexibility and productivity, the system can also be connected to a mobile large reel stand.



The BUSCH Feed Bander model ZFB 32/75 is used for automatic feed of product piles and rows of product piles especially if it is positioned after the guillotine. This unit comes with an intelligent feed pusher and pneumatic bundle compression for ultimate efficiency and perfect banding results.

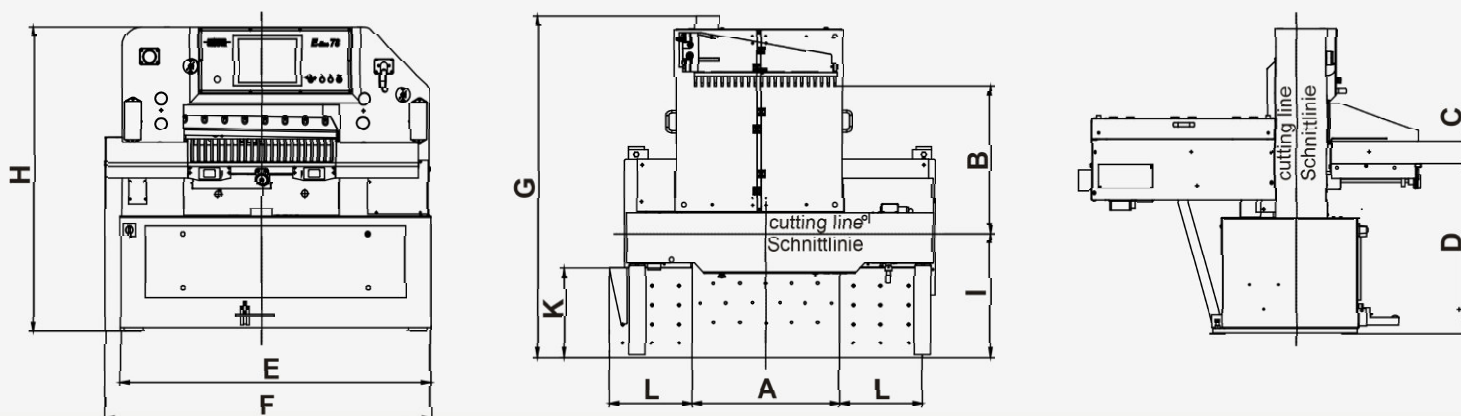
Technical Data

		E-Line 78		E-Line 92	
A	Cutting width	mm	780	920	
B	Feed depth	mm	780	920	
C	Clamp opening	mm	120	120	
D	Table height	mm	900	900	
E	Machine width (without side tables BN)	mm	1.620	1.675	
F	Machine width (including side tables BN)	mm	1.719	1.835	
G	Machine depth	mm	1.811	1.992	
H	Machine height	mm	1.615	1.620	
I	Front table depth	mm	657	657	
K	Side table depth (BN)	mm	471	471	
L	Side table width (BN)	mm	436	436	
	Side table depth (LST 750)	mm	750	750	
	Side table width (LST 750)	mm	750	750	
	Power required (main drive), max.	kW	3,8	5,5	
	Weight net	kg	1.550	1.720	
	Clamp pressure, min.	daN	100	100	
	Clamp pressure, max.	daN	2.500	3.000	
	Knife thickness	mm	12	12	
	Smallest cut, automatically, with clamp cover plate (60 mm) *	mm	70	70	
	Smallest cut, automatically, without clamp cover plate **	mm	30	30	
	Backgauge speed	mm/s	225	225	
	Static floor load	daN/m ²	590	605	
	Contact area load (+/- 12 %)	daN/cm ²	1,9	2,1	

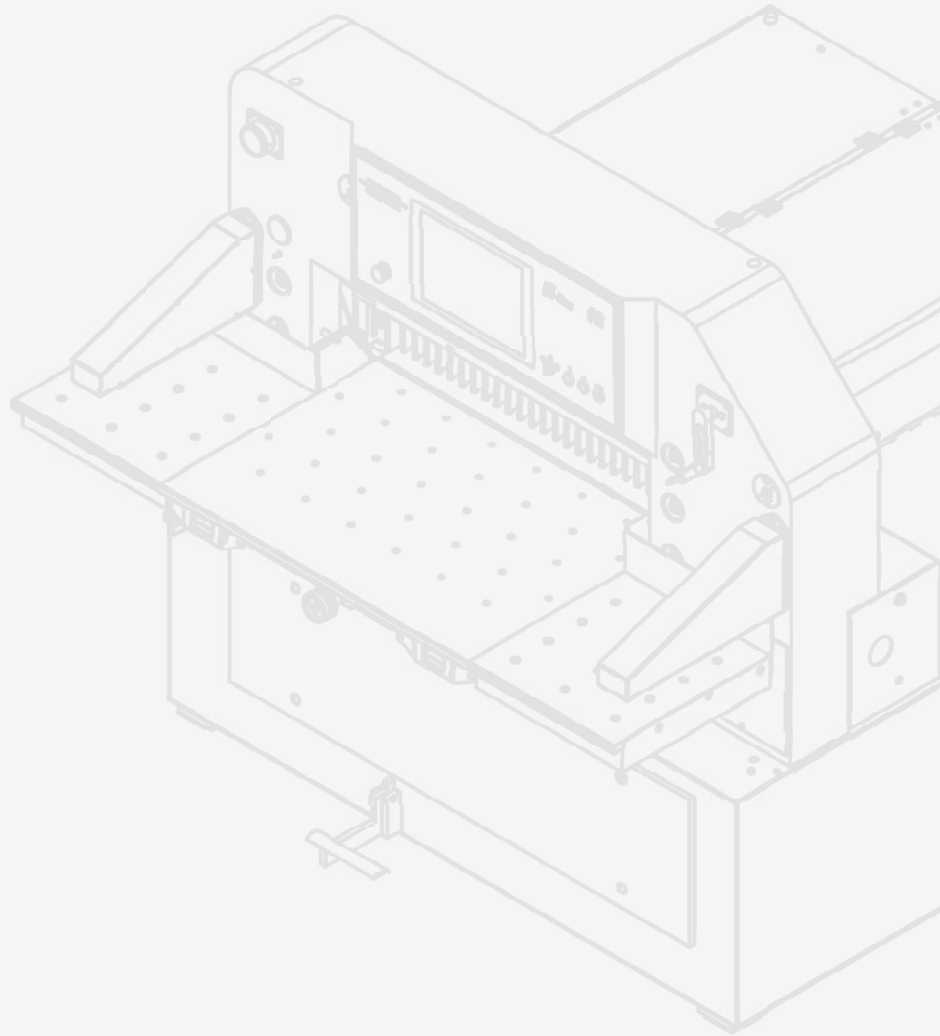
* optional: smallest cut 60 mm with narrow clamp cover plate (50 mm)
 smallest cut 50 mm with extra narrow clamp cover plate (40 mm)

** manual: smallest cut reducible to 20 mm

Measurements:



SCHNEIDER SENATOR



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