

**SCHNEIDER
SENATOR**

S-line 115 H, 137 H, 155 H

Guillotines



Faster. More precise. More economical.

- Fully hydraulic knife drive
- User-friendly PCC control unit
- Fast, automated knife changes
- Precision linear guides for the knife carrier
- Scores of options
- Made in Germany



**Made in
Germany**

Precision is no coincidence

The powerful S-Line guillotines are made for the precise cutting of medium or large format reams. These high-performance machines are available in cutting widths of 1150 mm, 1370 mm or 1550 mm and provide extraordinary quality that's 'Made in Germany' combined with ultimate precision. Schneider Senator's S-Line delivers impressive performance through a patented, fully hydraulic knife drive which comes without a clutch, fly-wheel, gear or shear bolts. There is less wear and tear to parts, drastically reducing maintenance costs - the very hallmark of tried-and-tested Schneider Senator technology.



S-Line 137 H with BN side tables (standard)

Fully hydraulic

Inside the compact and modern cast iron frame lies the crucial part of the S-Line: a patented hydraulic knife drive with a direct twin cylinder arrangement. The knife is drawn directly from the bottom to be guided through the stack and not from above. This technology delivers stable cutting force and uniformly high cutting speeds.

Thanks to the patented precision linear guides of the knife carrier, the S-Line achieves optimum cutting accuracy, also extending the durability of the knives. The infinitely variable, frequency-controlled back gauge drive achieves high speeds of up to 300 mm/sec. The ball-screw spindle with precision linear guides operates practically wear-free, thus extending maintenance intervals and reducing costs. This is all rounded off by automatic knife changes from the front of the S-Line and a variety of useful options.

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 S-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:

- Fully hydraulic knife drive and clamp bar (patented)
- Computer control PCC with 15" TFT display, USB and Ethernet connection
- Program correction function, in linear or percentage terms
- Clamp pressure adjustment via display, programmable, proportional valve-controlled
- Solid cast iron frame
- Infrared safety barriers
- Central lubrication system
- Rust-proof cutting table with air film and stainless steel surface (2 mm)
- Optical cut indicator
- Automated knife change and adjustment from the front (patented)
- 2 knives (HSS quality)
- Knife change cassette (patented)
- 5 sinus cutting sticks
- Slot cover and clamp bar cover plate (90 mm)
- Ergonomic cut buttons
- Tool kit
- Colour: RAL 7035, light grey
- Conforms to CE & EN 1010 standards

The S-Line family



S-Line 115 H with enlarged side tables LST 750 (optional)

S-Line 115 H

Cutting width	1150 mm
Feed depth	1150 mm
Clamp opening	170 mm
Table height	900 mm
Clamp pressure min / max	200 / 4500 daN
Back gauge speed	300 mm/s



S-Line 137 H with enlarged side tables LST 750 (optional)

S-Line 137 H

Cutting width	1370 mm
Feed depth	1480 mm
Clamp opening	170 mm
Table height	900 mm
Clamp pressure min / max	200 / 4500 daN
Back gauge speed	300 mm/s



S-Line 155 H with enlarged side tables LST 1000 (optional)

S-Line 155 H

Cutting width	1550 mm
Feed depth	1930 mm
Clamp opening	170 mm
Table height	900 mm
Clamp pressure min / max	200 / 5000 daN
Back gauge speed	400 mm/s

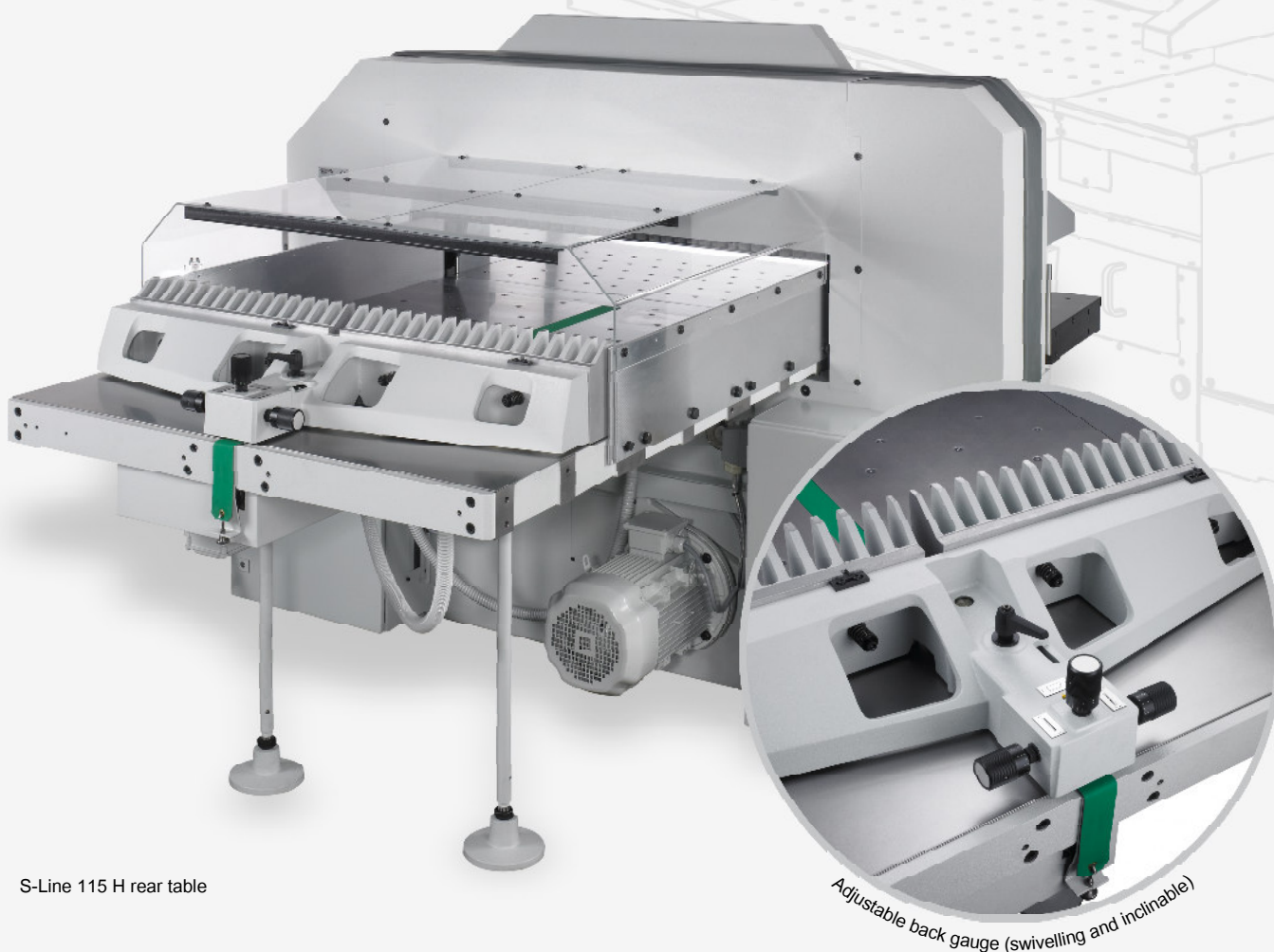
Safety: first, last and always

The S-Line H machine is equipped with an infrared safety barrier system. If the light barrier is triggered during the downward knife movement, the fully hydraulic machine pulls the knife back to top dead centre in one, immediate upward movement.

The linear knife movement delivers the fastest knife change in the world - only a few minutes. The automated knife exchange is trouble-free and meets the highest safety standards with the help of the patented knife changing cassette.

This device protects the knife edge and prevents risk of injury at the same time. After the knife change, there is no time wasted adjusting the height of the knife.

The fail-safe design of the hydraulics and controls is assuring confirmation of ultimate safety in compliance with CE and EN 1010 security standards. Pressure adjustment is controlled electronically by a proportional valve and thus individually adjustable with each cut.



S-Line 115 H rear table

Adjustable back gauge (swivelling and inclinable)

Rear table and back gauge

The S-Line guillotines come with a closed rear table as standard. The rear table and back gauge are made of solid cast steel. The ventilated table comes with a 2 mm solid stainless steel surface and air jets to make it easier to move material around on the air cushion.

The back gauge guide is positioned centrally on the rear table and covered with a slot band. To make fine adjustments, the back gauge can be swivelled and inclined manually or mechanically (optional).

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. The additional standby function for the main drive with a preset time helps save power in absolute silence.

Programming options :

- Single cut
- Repeat cut
- Programmed cut
- Fully automatic cut
- Adjustable prepress 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 in two standard sizes.

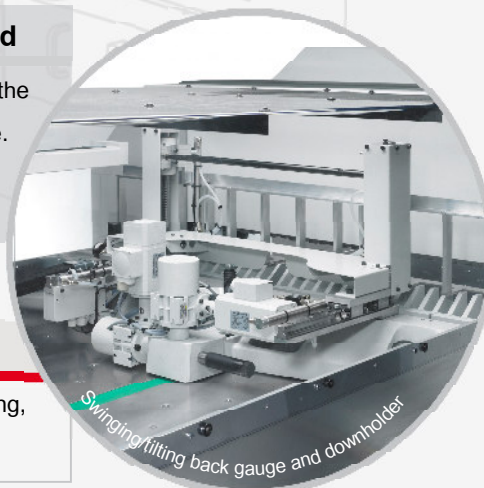
- LST 750 (750 x 750 mm)
- LST 1000 (1000 x 1000 mm)

A variety of special table sizes are available on request. The integrated air nozzles make it 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 in 2 mm wear-free solid stainless steel for ultimate durability.



Swinging and/or tilting back gauge, program-controlled

The swinging back gauge is used for corrections when the print does not run parallel to the edge, or when parallel and non-parallel cuts are needed in the same cutting programme. The tilting back gauge corrects distortions created by pressure, as well as undercuts or overcuts which cannot be compensated for by adjusting the clamp pressure.



Downholder on the back gauge, program-controlled

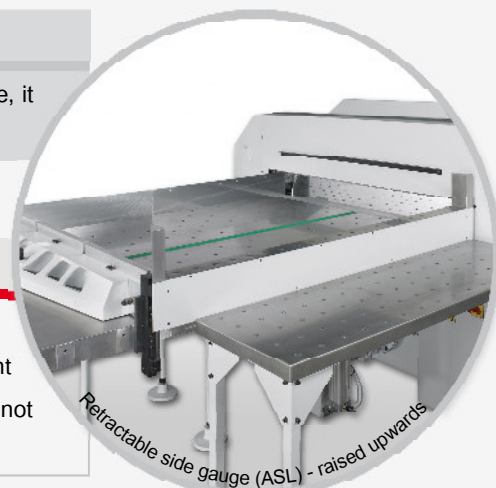
The optional downholder avoids cutting inaccuracies resulting from shifting. During cutting, the material is subjected to additional holding by the downholder unit.

Retractable side gauge (ASL)

The ASL unit is needed for automatic loading of the rear table. Once lowered into place, it can be used for automatic loading and raised upwards for lateral material alignment.

Lay edge control (without fig.)

The program-controlled unit makes it possible to position materials according to their print marks and align them to the side gauge of the guillotine. This option is especially important for cutting concave or convex piles without straight alignment edges. This feature is not available in connection with the downholder.



Handy optional extras

Automatic waste removal: TrimmMaster

The horizontal extendable front table (featuring a cast iron underframe with a 2 mm VA steel surface) makes it possible to remove waste automatically with the TrimmMaster unit. There is a shaft between the table and the cutting stick which opens pneumatically over the entire cutting width. Waste drops down through the shaft along a metal guide into a bin or onto a waste conveying system for disposal. The TrimmMaster unit is a highly efficient and productive option for automatically removing cutting waste and is especially recommended for intermediate cuts.



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.

Retractable rear table cover

The standard closed rear table cover is also available in a retractable version. This ensures that knives can be accessed from the back and the rear table can be cleaned properly.

Narrower clamp cover plate

This special clamp cover plate comes in a narrow version to replace the existing plate and allows 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 100 mm (with standard clamp cover plate) to 60 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.

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.

TrimmMaster cycle



Efficiency thanks to useful peripherals

Gerhard Busch GmbH provide a wide range of peripherals, making the S-Line a central feature of any efficient cutting system. We enhance performance by, for example, offering improved ergonomics for superior performance. Automated material transportation and banding of cut stacks are now also considered an essential given of our guillotines. Besides material preparation away from the guillotine, we also offer tailor-made solutions for cutting waste disposal.



Pile Hoist

This hoist is for automatically lifting and lowering cutting materials on pallets. To increase productivity and simplify processes, working heights can be adjusted individually. 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. Waste is dropped manually into the funnel on the conveyor. Alternatively, the TrimmMaster unit helps feed waste automatically between the cutting stick and the open front table on a horizontal conveyor. From there, the waste is transported on an upwards-running conveyor directly into a container. 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.



Feed Bander

The BUSCH ZFB 32/75 feed bander can be used to automatically feed product piles or 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.



Multiple Banding Machine

The space-saving multiple bander is used for banding rows of paper piles. The rectangular piles are pre-cut on the guillotine and fed as a compact ream to the multiple banding machine. This improves workflows resulting in higher guillotine output thanks to direct connection to all known cutting systems. Alternatively, the system can be used as a stand-alone solution.

Schneider Senator cutting systems

The image shows a S-Line 137 H cutting system consisting of BUSCH Pile Hoist model HL 125, BUSCH Jogger model BRA 115, sheet transport system (BTS) for automatic loading on to the rear table of the guillotine, and a Schneider Senator Restacker model 0559.



SCHNEIDER SENATOR
Sheet Transport System BTS

Sheet Transport System

The BTS pusher system has been designed for automatic loading of the material to be cut, by moving the material from jiggers or air board lifts onto the rear table of the guillotine. The transport system has buffer stations for one or two reams (optional). This ensures optimal material flows, fully controlled by the new PCC power cutting control. This negates the need for a separate control panel. The table surface is made of VA stainless steel, air-blown. The sheet transportation speed can be adjusted by the operator.



SCHNEIDER SENATOR Restacker

Restacker

The restacker ensures that sheet materials are placed exactly onto pallets. The result is precisely aligned stacks - even down to the size of a postcard. There is no need for manual operation. The restacker increases productivity during subsequent processing by saving time and staff resources.



SCHNEIDER SENATOR Pressing Station

Pressing Station

The pressing station is used for additional air removal from uneven reams and for compressing voluminous cutting materials - mainly for label production (in-mould labels). The unit presses up to 8 tons over the full area of the ream. The air is expelled and the pile is made stable and compressed for further processing. Pressure and pressing time can be adjusted. The machine has been designed for formats of up to 750 x 1050 mm. The unit can be operated from the left or the right of the guillotine. Cutting materials are transferred manually to the pressing station using a pile hoist and jogger. To align reams, there are automatic retractable stops. After pressing, the ream is pushed manually onto the front table of the guillotine.



SCHNEIDER SENATOR Roboload

Roboload

Loading jiggers with ventilated reams of paper is probably one of the most labour-intensive and physically demanding parts of paper processing. There is huge potential to make the entire process more efficient by using automated loading systems. This loading robot is available for the 3B format equipped with a gripper system, automatic pallet recognition, a safety light curtain and pre-selectable ream height for unloading.

Optimum cuts - even for large formats



S-Line 155 H

S-Line 155 H with the maximum cutting width of 1550 mm is the perfect machine for performing large format cuts.

The large feeding depth of 1930 mm offers an unusual amount of space so that format 6 and even 7B (1220 x 1620 mm) can be handled without any problems.

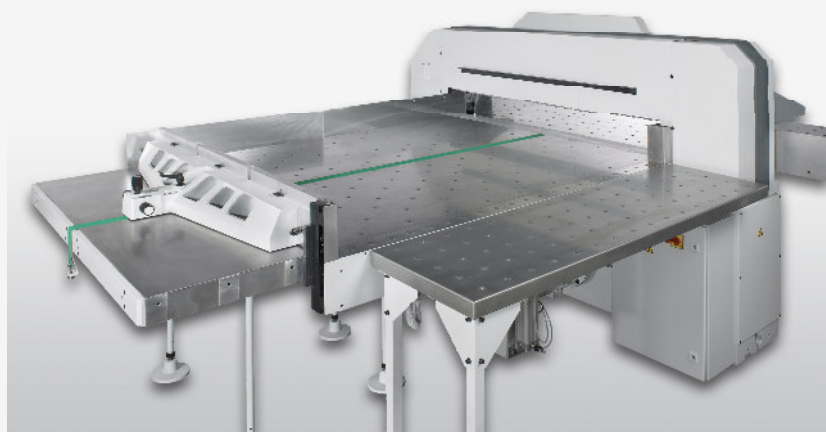
The large rear table comes with a closed cover as standard, or with an optional hinged version.

The special features of this large format machine include a maximum clamp pressure of 5000 daN and an increased back gauge speed of 400 mm/s.

As part of an end-to-end cutting system with matching peripherals, the S-Line 155 H provides a highly effective and supremely efficient system, also thanks to automatic loading onto the rear table of the guillotine and the retractable side gauge (ASL).



Rear table with raised side gauge - ASL (option)



Rear table with lowered side gauge - ASL (option)

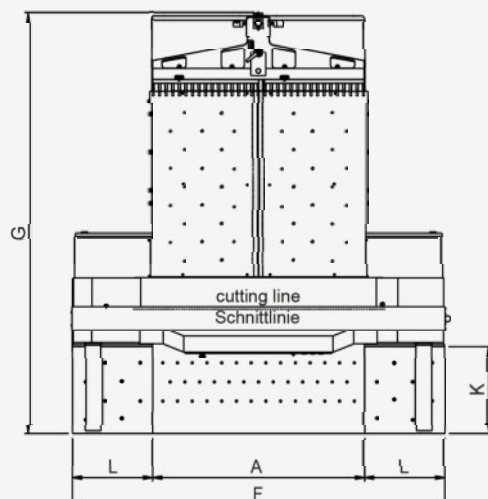
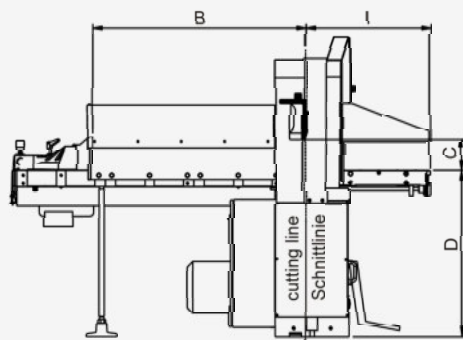
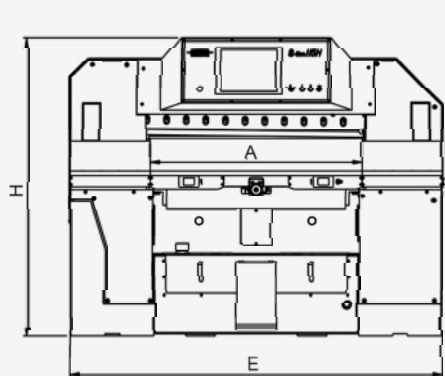
Technical Data

			S-Line 115 H	S-Line 137 H	S-Line 155 H
A	Cutting width	mm	1.150	1.370	1.550
B	Feed depth	mm	1.150	1.480	1.930
C	Clamp opening	mm	170	170	170
D	Table height	mm	900	900	900
E	Machine width (without side tables BN)	mm	2.020	2.240	2.420
F	Machine width (including side tables BN)	mm	2.020	2.240	2.420
G	Machine depth	mm	2.287	2.767	3.247
H	Machine height	mm	1.620	1.620	1.620
I	Front table depth	mm	680	680	680
K	Side table depth (BN)	mm	472	472	472
L	Side table width (BN)	mm	435	435	435
	Side table width and depth (LST 750)	mm	750	750	750
	Side table width and depth (LST 1000)	mm	1.000	1.000	1.000
	Power required (main drive), max.	kW	8	8	8
	Net weight	kg	2.750	3.350	3.650
	Clamp pressure, min.	daN	200	200	200
	Clamp pressure, max.	daN	4.500	4.500	5.000
	Knife thickness	mm	12	12	12
	Smallest cut, automatically, with clamp cover plate (90 mm) *	mm	100	100	100
	Smallest cut, automatically, without clamp cover plate **	mm	35	35	35
	Back gauge speed	mm/s	300	300	400
	Static floor load	daN/m ²	756	691	596
	Contact area floor (+/- 12 %)	daN/cm ²	9,2	11,2	12,2

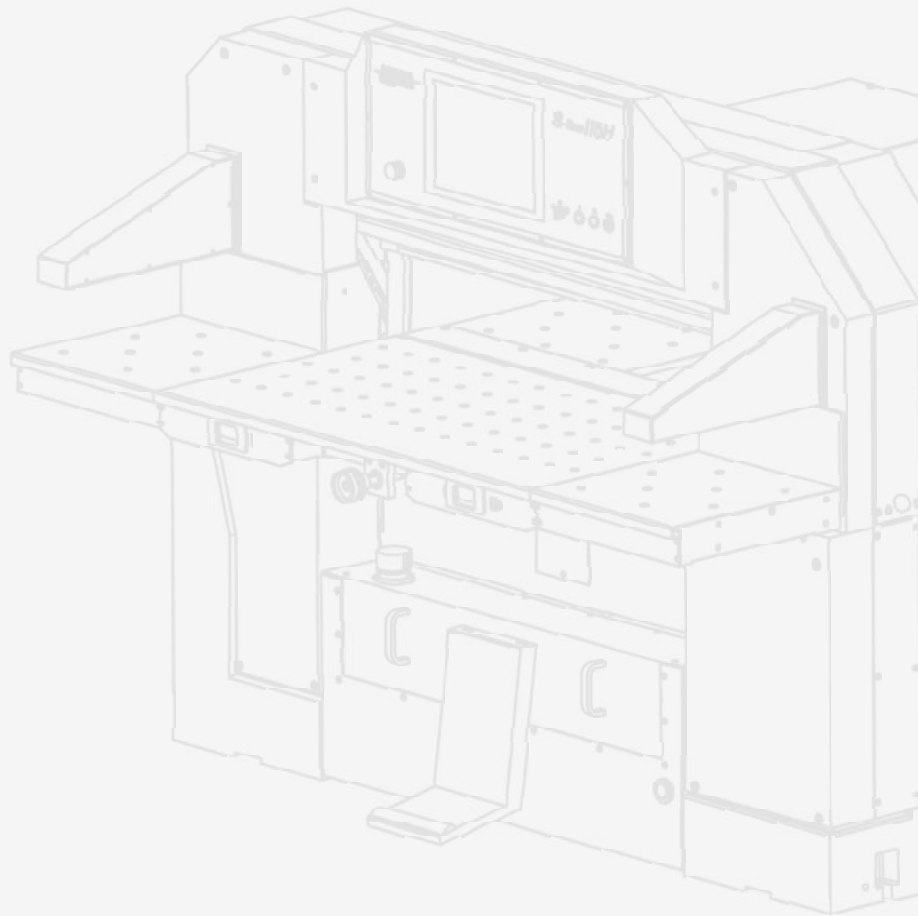
* optional: smallest cut 60 mm with special clamp cover plate (50 mm)

** manually: smallest cut reducible to 25 mm (115H and 137H) or 30 mm (155H)

Measurements:



SCHNEIDER SENATOR



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