

Precisely for you.



The DSX:
Versatile and powerfull

ELCON
SAWING TECHNOLOGY

The basis for a fast and high quality production

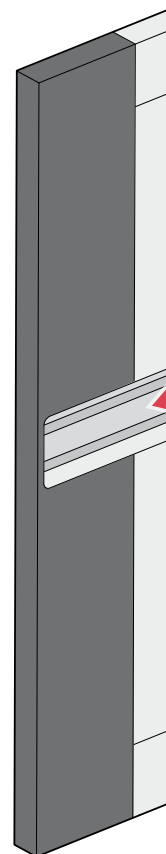
The DSX is characterised by the unique guidances that position both the saw-beam and the saw-unit precisely over long lengths. Therefore it is possible to reach an accuracy of 0,1 mm/m.

The DSX is also standard equipped with pneumatic plunging of the saw-unit. This makes it far more easy to cut at bigger heights when processing bigger panels.

The DSX also has standard pneumatic horizontal locking and fine adjustment of the saw-unit for horizontal cutting. The saw-unit can be positioned very simply at eye level and accurately locked at the correct position to cut horizontally. These unique features increase the user friendliness and the production capacity.

Other useful elements on the machine are:

- The programming rail that is placed on the saw-beam in order to repeat very easily five, self adjustable, positions of regularly returning cuts.
- The fault diagnosis enables the user via a set of LED lamps identify the nature of a problem. By this the user can easily judge if he can fix the problem by himself or if technical assistance from of the service department is necessary.
- The robust measuring stop with fine adjustment for vertical cuts. The stability of this flip stop is unmatched.
- The repeat stop enables the horizontal cutting to the size of a panel into strips of the same width. Unnecessary measuring and adjusting are things of the past definitively, as the saw-unit stops automatically at the required height.

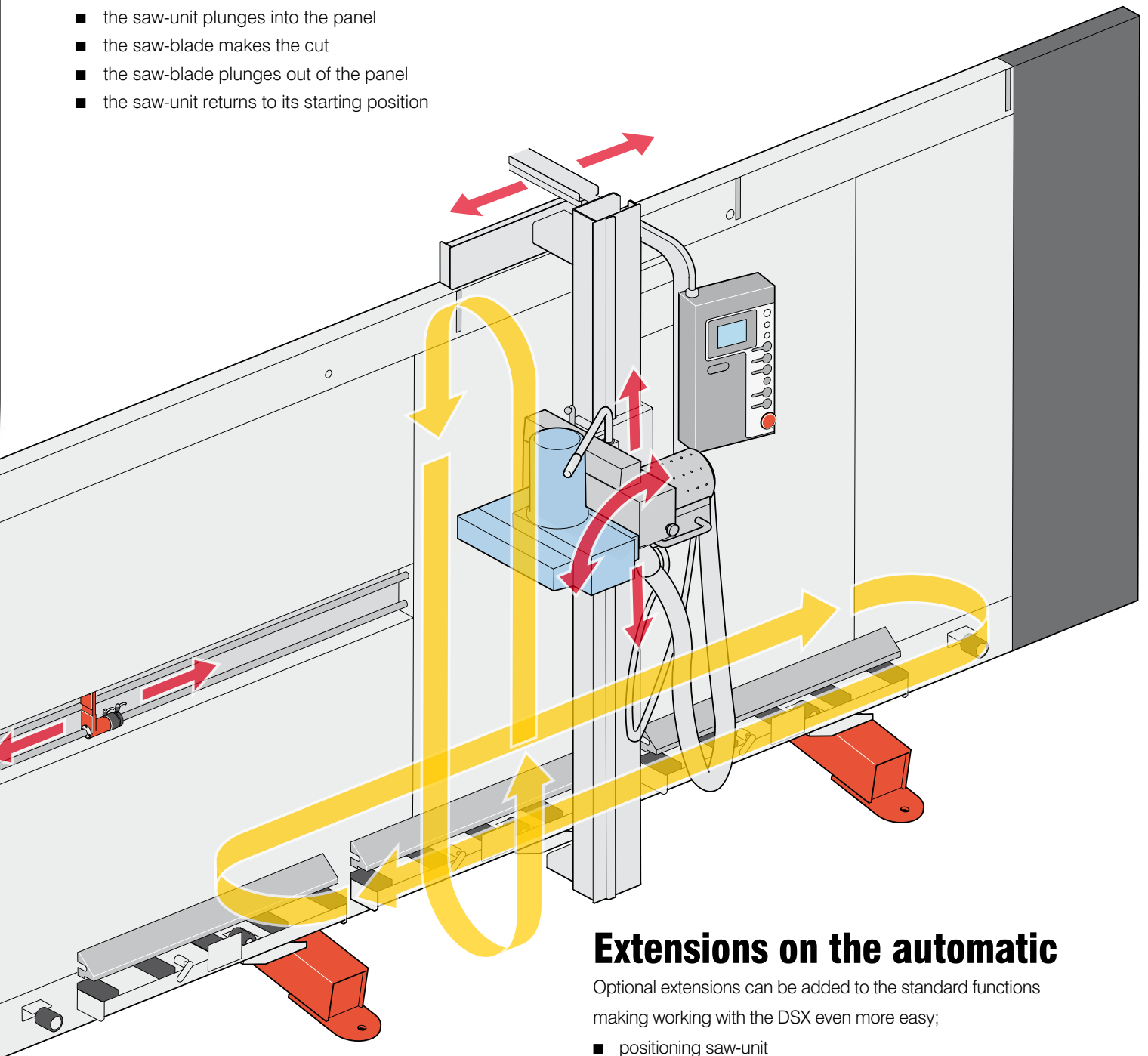


Alternative automatic mode adds value

Next to the standard DSX there is the automatic version of the DSX that is provided with a number of extremely useful operator functions. All the cutting movements, below indicated with yellow arrows, are integrated in cycles that run automatically after pressing the start button;

- the saw motor starts
- the saw-unit plunges into the panel
- the saw-blade makes the cut
- the saw-blade plunges out of the panel
- the saw-unit returns to its starting position

In this process the cutting speed is steplessly variable from 0 till 20 m/min. Also the length of the cutting stroke can be adjusted freely to the height and the length of the panel. And if the machine is equipped with a pneumatic folding mid fence, the length of the cutting stroke can automatically adapt to the height of it.



Extensions on the automatic

Optional extensions can be added to the standard functions making working with the DSX even more easy;

- positioning saw-unit
- programmable strip cutting
- positioning measuring stop
- positioning saw-beam
- automatic rotation of the saw-unit.

All these possibilities are indicated with the red arrows.

Vast choice of options: precisely for you!

Double bearing alu bottom rollers

As an option it is possible to execute the machine with double bearing aluminium bottom rollers. These are always combined with a pneumatic panel clamp to hold the panels while cutting.



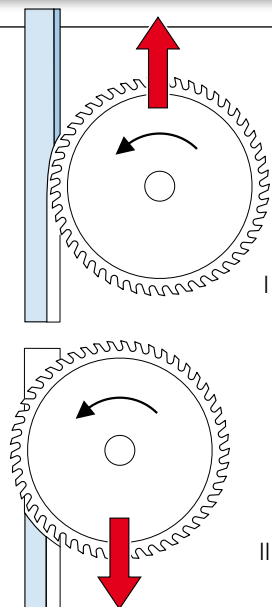
Panel tilting ruler

With the panel tilting ruler it is simple to cut angles on a vertical panel saw. The adjustment of the cutting angle is read digitally and has a reach from +45° to -45°.



Double-cut scoring

Scoring is not only possible with the TWIN III scoring unit, but also with the main blade. With doublecut scoring, the top layer of the panel is scored with a reduced saw blade plunge while positioning the head for the main cut (I). Then, the saw blade is plunged fully into the panel and the cut is completed (II).



Rotation of the saw-unit

By pressing the button on the control unit the saw-unit rotates automatically from vertical to horizontal position.



Pneumatic lifting bottom rollers

The bottom beam can be supplied with pneumatic lifting rollers. This makes it easy to move heavy panels or packages and prevents damage.



TWIN III scoring saw

The scoring saw with a very precise depth adjustment has a speed of 20.000 rpm and is placed on the sawblade inside the saw-unit.



Standard functions:

Guidances

The DSX is supplied with a hardened steel rod precision guidance for the horizontal and vertical movement.



The Elcon automatics are equipped with a touchscreen. These have a very user friendly interface where dimensions can be read or input very simple.

Measuring stop with optional extension



The robust flip stop (with fine adjustment) on a 30 mm solid shaft guidance, can be equipped with a square stop-extension.

In this way it is not necessary to lift heavy boards, that do not reach the measuring stop, onto the mid-fence.

End stop



The heavy duty mid fence has, just as the bottom beam, a handy end stop. This prevents the slipping of the panel when cutting horizontally.

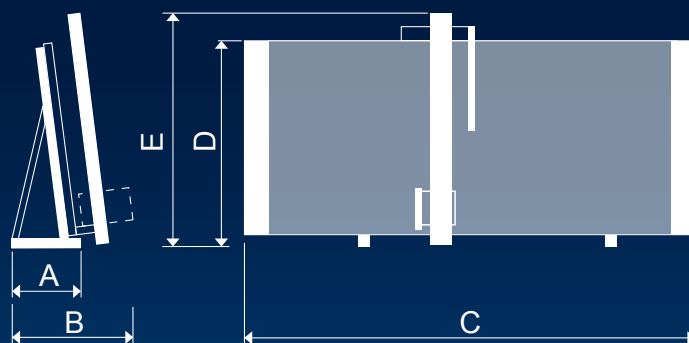
Frame

A fully self-supporting construction with torsion-rigid carrying modules is the basis for the steel length guidance shaft. The tension free guidance ruler guarantees an accuracy within 0,1 mm/m. The hardened steel bar assures a very long life.



D DS DSX

Advance Advance² Quadra



Technical data	155	185	215
Maximum cutting length	3300	3300/4300	4300/5300
Maximum cutting height (hor)	1530	1830	2070
Maximum cutting height (vert)	1550	1850	2150
Maximum cutting depth	80 mm		
Motor (S6)	4 kW		
Speed	4200 rpm		
Diameter saw-blade	300 mm		
Electric supply	400V/3ph/50Hz		
Air requirements	min. 6 bar		
Extraction flow rate	> 1000 m ³ /h, 20 m/s		

Dimensions (mm) and weight	155	185	215
A	945	945	945
B	1720	1720	1720
C	4510	4510	5510
D	1980	2280	2580
E	2525	2825	3050
Weight in kgs	785	830	950
<i>When cutting horizontally at the highest position: +120 mm. Extra space at the right: +300 mm.</i>			
<i>Special sizes on request.</i>			

Family features across the Elcon range

- Unique long life guidance for sawbeam
- Super silent motor housing with insulation
- Safety: CE tested, Micro switch security, "Tilt" switch
- Precision: 0,1 mm/m (DIN 875/1)
- Construction: robust modular welded frame, heavy cast iron flip stop, on solid steel rod

Features of the DSX

- Big cutting depth 80 mm
- Standard equipped with pneumatic functions
- Many extra automatic functions possible
- Operation possible through user friendly touchscreen
- Steel rod guidance for movement over both axis

Accessories Standard

- Pneumatic plunging of the saw-unit
- Pneumatic locking with fine adjustment at working height for horizontal cutting
- Extra support strips over full length for smaller pieces
- Double secured fine adjustable flip stop
- Supply package with user guide, tooling and Internet support access
- Clipboard for cutting lists
- Fixed bottom blocks for stable panel support
- Mid fence in 3 parts with integrated end stop
- Ideal entry rollers
- Panel tilting/placing guidance
- Integrated guidance rail cleaners
- Indestructable double chain guidance for saw unit
- Electromagnetic brake on saw motor
- Programming rail for repetitive sizes
- Folding repeat stop for strip cutting

Accessories Optional

- Accessories Optional
- 5.5 kW (S6) motor
- Saw motor with 2 speeds
- Steplessly variable rpm's for saw motor
- Patented Limpio double sided dust collection system, emission less than 0,5 mg/m³
- Square stop extension
- Filling-in piece for flip stop compartment
- Pneumatic lifting transportrollers
- Double bearing bottom rollers, with pneumatic panel clamp
- Extra pneumatic clamp
- Automatic moving back support grid
- Digital read-out
- Automatic rotation of the saw-unit
- Automatic cutting cycle for horizontal and vertical cutting
- Electric positioning module for vertical cutting
- Programmable strip cutting horizontally
- Positioning of the saw-beam
- Lubrication unit for solid aluminium
- Electro-pneumatic double-cut scoring
- TWIN scoring system
- Increased projection of the saw-blade at the back
- Panel tilting ruler for cutting angles
- V-grooving router for Alu-bond materials

Elcon is continuously working on development and perfecting its product range, which may result in changes to product specifications without prior notice

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