

# Precisely for you.



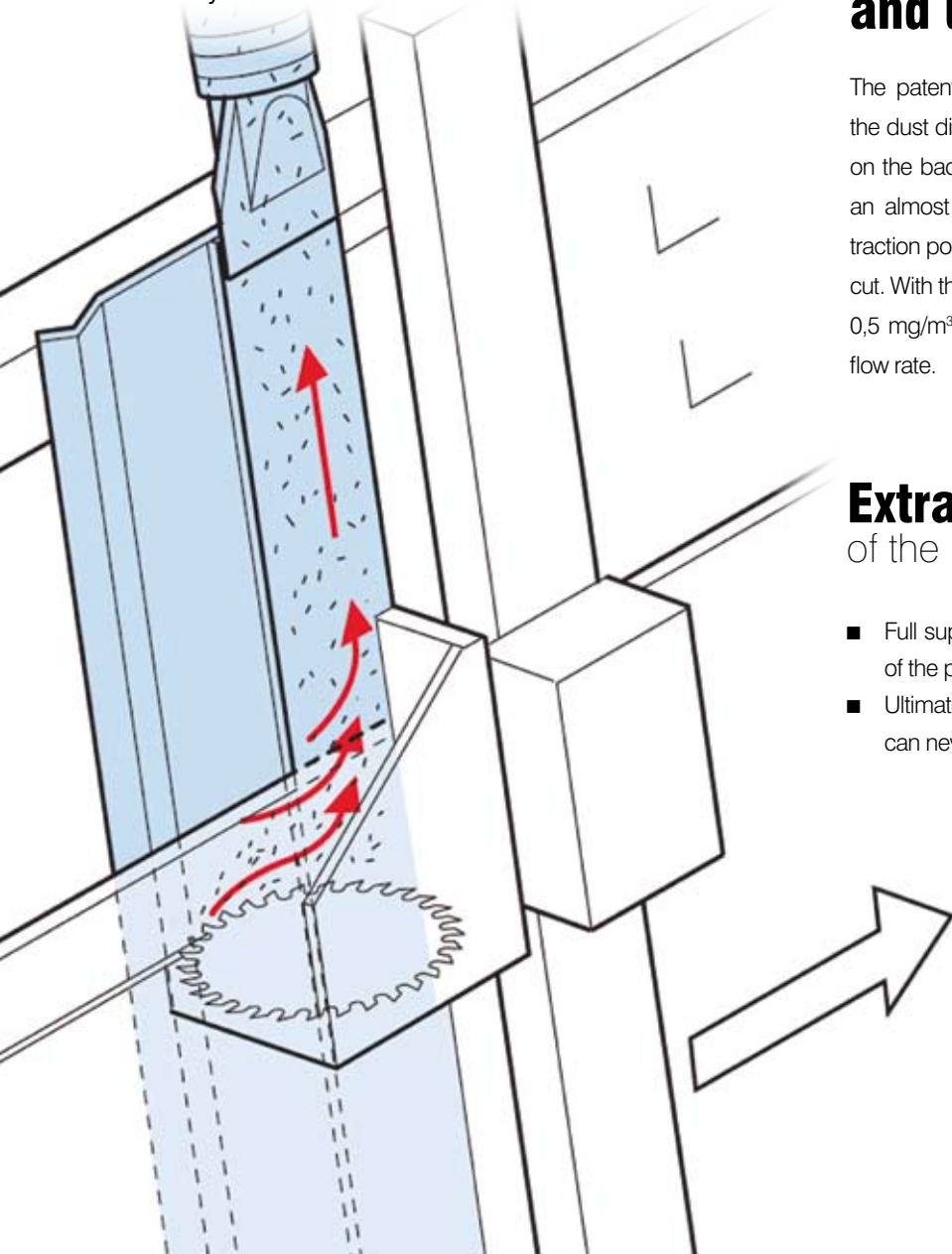
The DS:  
not only for wood...

**ELCON**  
SAWING TECHNOLOGY

## ...also for plastic and aluminum

The DS models are equipped with all the functions needed for professional use when also working with plastic and aluminium panels. In addition to these functions there is a wide choice of accessories, including a scoring unit and a V-grooving attachment.

Limpio-dust  
collection system



### **Limpio: clean, efficient and unique**

The patented Limpio-dust extraction system collects the dust directly at the source, both from the front and on the back side of the panel. The saw-blade runs in an almost completely closed area with the dual extraction points removing the dust directly at the point of cut. With this unique system emission values, less than  $0,5 \text{ mg/m}^3$ , are reached with a minimal extraction air flow rate.

### **Extra advantages** of the Limpio-system are:

- Full support of the work piece over the total height of the panel
- Ultimate machine frame protection, as the blade can never cut into the panel supports.



## Two versions

The Limpio system can be supplied in two versions. The picture below is an example of a DS with a full Limpio dust tray. A moving back support grid is superfluous as the Limpio dust tray protects the full rear side of the machine against any accidental damage caused by cutting into it with the saw blade.

A combination of the two systems is the semi Limpio version (see top picture), where the Limpio dust tray is limited to above the mid-fence. This means that the saw beam is always free for horizontal movement and is not limited by the prominent position of the mid fence. Therefore cutting strips horizontally on the mid fence is easy and virtually dust free.





## End stop



As with the bottom beam, the heavy duty mid fence has an end stop. This prevents the slipping of the panel when cutting horizontally.

## Guidance's

The Elcon DS is supplied with a hardened steel shaft for the horizontal guidance. This provides an almost friction free course of the saw beam.



## Pneumatic lifting rollers

The bottom beam can be supplied with pneumatic lifting rollers. This makes it easy to move heavy material and prevents any damage to the machine and operator.



## Digital read-out

The cutting height and length can be read electronically. This feature also enables the resetting of the display after cutting the top side of a panel, the nett width of the strip can then be read easily and accurately.

## 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 ensures a very long life.



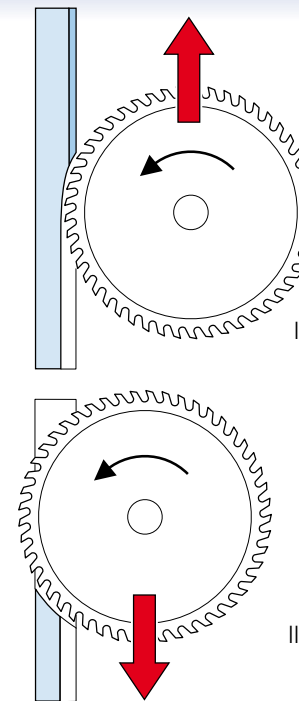
## Measuring stop with optional extension



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

## Double cut scoring

Scoring is not only possible with the TWIN III scoring unit, but also with the main blade. With double-cut 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).

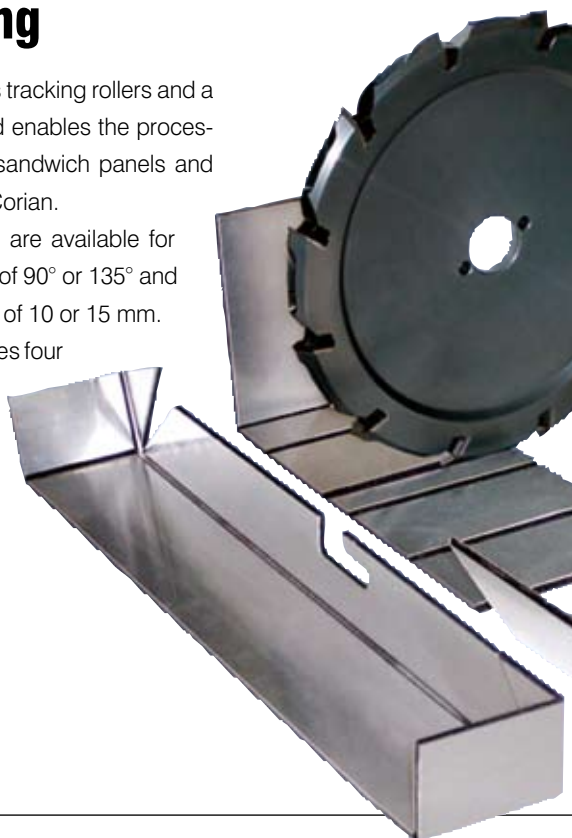


## V-Grooving

This option includes tracking rollers and a V-grooving disc and enables the processing of aluminium sandwich panels and plastic panels like Corian.

The grooving discs are available for V-shaped grooving of 90° or 135° and U-shaped grooving of 10 or 15 mm.

The tracking-unit uses four enlarged bearing rollers with fine adjustment, providing very accurate depth adjustment.



## Repeat stop for strips

Cutting a panel horizontally into strips of the same width is easy with the adjustable repeat stop with track bearing.

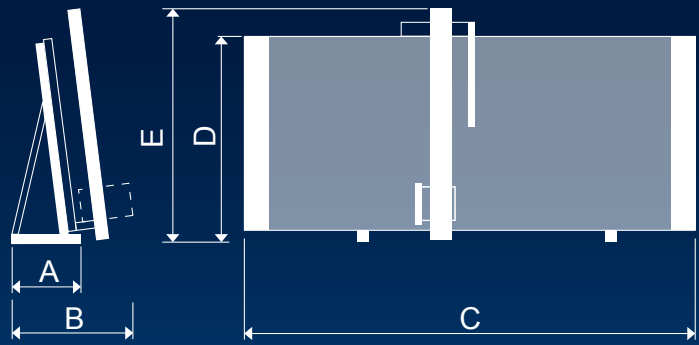


## Double bearing bottom rollers

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



# D DS DSX Advance Advance<sup>2</sup> Quadra



Technical data	155	185	215
Maximum cutting length	3300	3300/4300	4300/5300
Maximum cutting height (hor)	1510	1810	2100
Maximum cutting height (vert)	1550	1850	2150
Maximum depth of cut	55 mm		
Motor (S6)	3 kW		
Speed	5100 rpm		
Diameter saw-blade	250 mm		
Electric supply	400V/3ph/50Hz		
Air requirements	depending on options		
Extraction flow rate	> 1000 m <sup>3</sup> /h, 20 m/s		

Dimensions (mm) and weight	155	185	215
A	945	945	945
B	1450	1450	1450
C	4510	4510	5510
D	1980	2280	2580
E	2300	2600	2900
Weight in kgs	700	745	865
<i>When cutting horizontally at the highest position: +160 mm. Extra space to the right: +300 mm.</i>			
<i>Special sizes on request.</i>			

## Family features across the Elcon range

- Unique long life guidance for saw beam
- 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 axis

## Features of the DS

- Integrated operating handles at two heights
- Possibility for cutting out rectangles
- Easy access to saw blade
- Fault diagnostics

## Standard Accessories

- Repeat stop for strip cutting
- Double cut scoring with main blade
- Programming rail for repetitive sizes
- Mid fence in 3 parts with integrated end stop
- Panel entry rollers
- Panel tilting/placing guidance
- Extra support strips for smaller pieces
- Double secured fine adjustable flip stop
- Package with CD-ROM, user guide, tooling and Internet support access
- Clipboard for cutting lists
- Fixed bottom blocks for stable panel support
- Integrated guidance rail cleaners
- Indestructible double chain guidance for saw unit
- Electromagnetic brake on saw motor

## Optional Accessories

- Automatically moving rear support frame
- Square stop extension
- Digital read-outs (horizontal and/ or vertical)
- Double bearing bottom rollers, with pneumatic panel clamp
- Extra pneumatic panel clamp
- Pneumatic midfence
- Pneumatic lifting transport rollers
- Patented Limpio double sided dust collection system, emission less than 0,5 mg/m<sup>3</sup>
- TWIN scoring unit
- Filling-in piece for flip stop compartment
- Electronic positioning module for vertical cutting
- 4 kW (S6) motor
- Saw motor with 2 speeds
- Infinitely variable speed control for saw motor
- Lubrication system for solid aluminium
- 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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