

Vertical panel saws

V-CUT 1275 | 1280

Perfectly equipped for
absolute precision



reddot design award
honourable mention 2009

Your partner for productivity and precision

HOLZHER[®]
Spezialmaschinen

Optimum technology – convincing performance

In their sector, the new vertical panel saw V-CUT 1275 I1280 from HOLZ-HER stands for superior precision and angularity when cutting. This result is achieved thanks to a construction and equipment which is better than average in all areas.

- High rigidity guaranteed by the completely welded, self-supporting frame.
- Use of full-length, hardened linear guides – for example when guiding the saw unit, in order to provide an extremely precise cut.
- With 5.5 kW the high-torque saw motor offers outstanding performance.
- The modern control panel is easy to use.
- Pneumatic arrest of the sawing beam for vertical cuts; thereby providing precise angle cuts.
- Continuous anodised aluminium support matrix to protect the work piece.
- Support matrix automatically moves aside when making horizontal cuts (pneumatically).
- Ergonomically formed hand wheel for pivoting the cutting unit.
- Maximum panel thickness/cutting depth: 75 mm.
- Saw blade protrusion: 15 mm – for a clean cutting result.



Clearly structured – the control panel



The instruments on the control panel are clearly arranged and ergonomic and are always within reach of the user, as it is connected to the sawing beam and moves with it.

- Easy operation at eye-level.
- Integrated handle to move the sawing beam.
- Function switch for starting/stopping the saw motor.
- Pneumatic arrest for the sawing beam with pre-warning when the arrest point is approached.
- Function switch for pneumatic engaging and disengaging of the scoring blade, including automatic motor activation.
- Easy to read digital dimension display for horizontal cuts (optional).
- Highest precision with precision motorised adjustments for horizontal cuts (optional).
- Buttons flash to indicate errors.
- Emergency stop switch.

Digital horizontal display [figure 1] (optional)

- Absolute dimension of the lower work piece support.
- Absolute dimension of the middle work piece support.
- Relative dimension of the upper panel edge, automatically taking the saw blade thickness into account.
- Display with 1/10 mm accuracy.

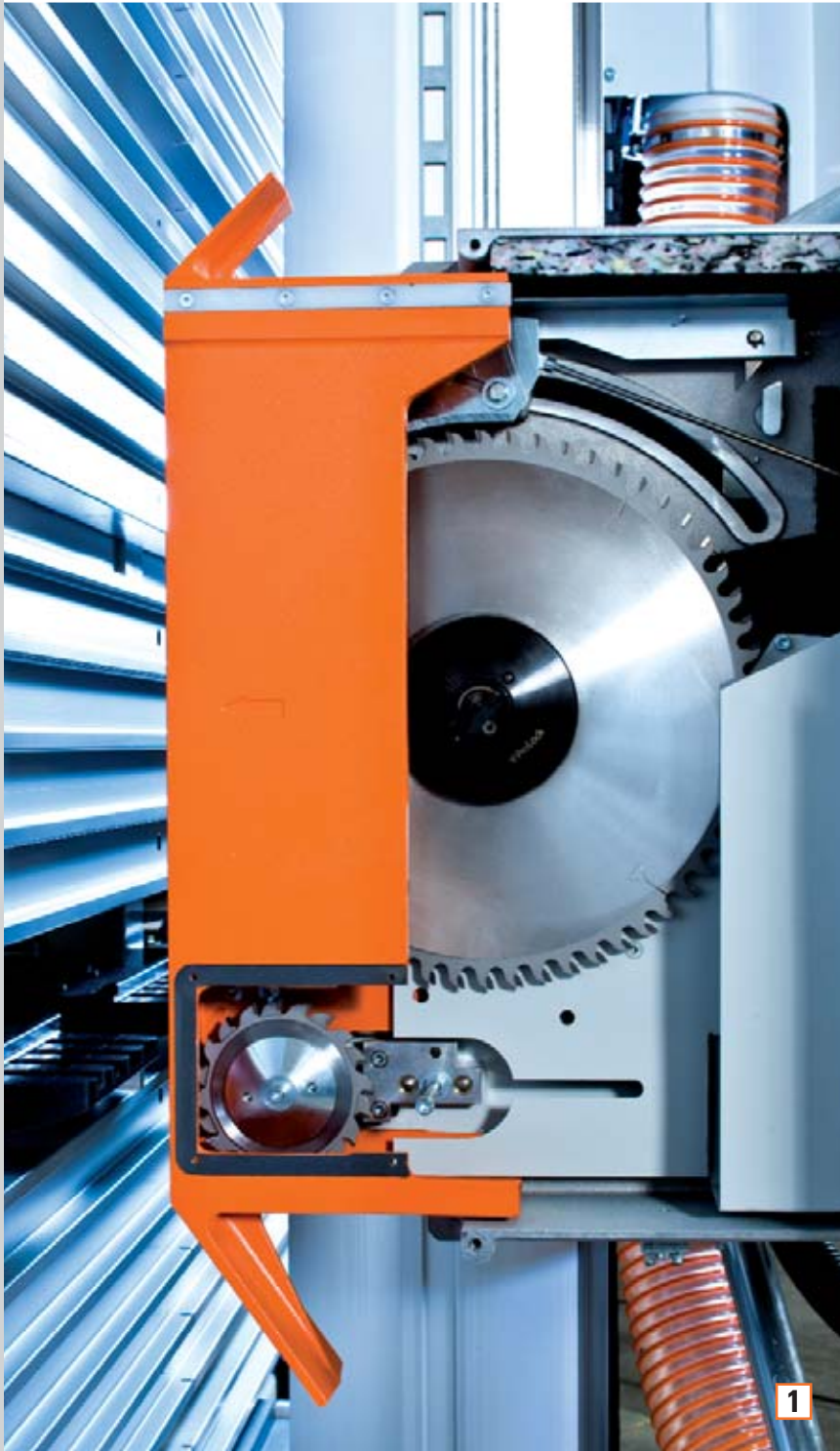
Digital vertical display [figure 2] (optional)

- Digital dimension display for setting the length of vertical cuts.
- Absolute dimensional display with precision mechanical adjustment.
- Display with 1/10 mm accuracy.
- Adjustment possible for the calculation of longer lengths over 1.2 metres.
- Easy setting of the desired dimension.
- Can be easily folded away when not required.

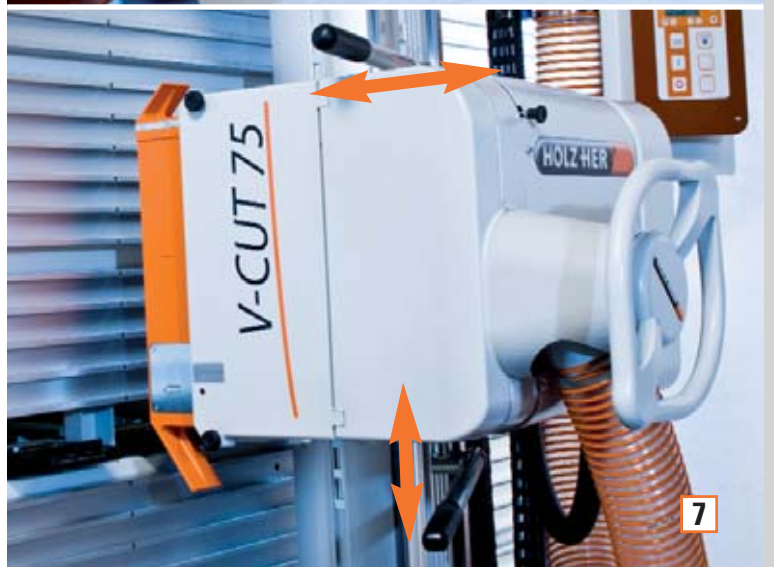
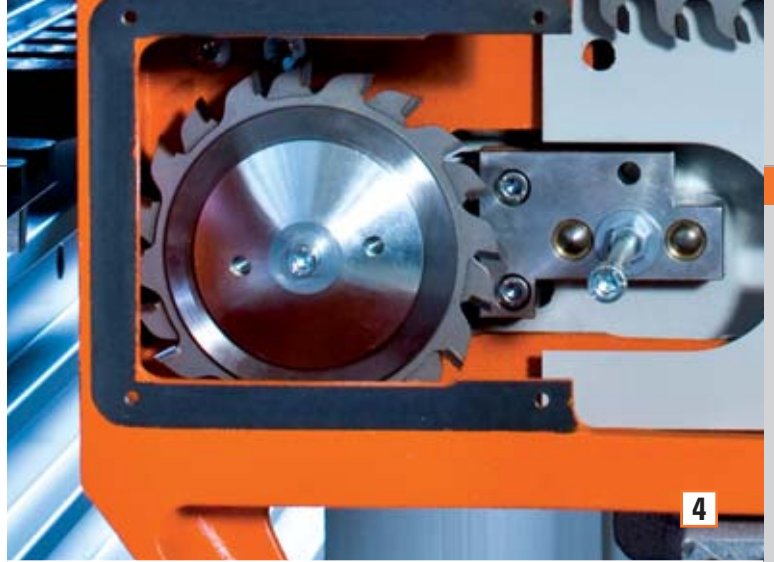


High-performance and durable – the sawing unit

With its 5.5 kW at 4450 min⁻¹ the sawing unit can perform any work that needs to be done effortlessly. The precision guides provide an absolutely straight cut and the easy operation is exemplary.



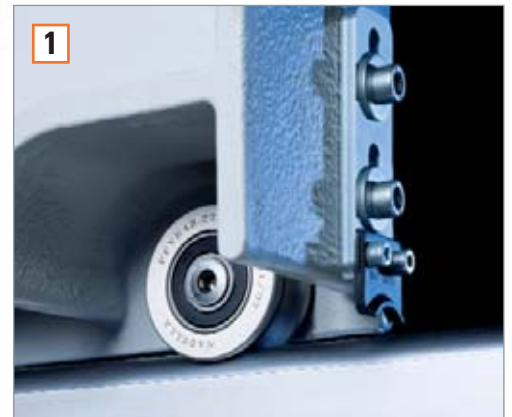
- A large access port allows an easy exchange of sawing and scoring blades [figure 1].
- Extremely quiet due to the sound protection features and a low-noise sawing blade.
- Ergonomic hand wheel allows easy pivoting [figure 2].
- ProLock quick change system for simple saw blade change [figure 3].
- Motorised scoring device unit with a separate motor with 0.55 kW at 12000 min⁻¹ provides tear-free edges for further processing [figure 4].
- The scoring device unit can be externally adjusted quickly and easily [figure 5].
- Scoring device unit and pressure guides with hardened guides and guide carriages for high cut precision
- The splitting wedge can be retracted for light cutouts. When the saw is moved out this returns to its original position [figure 6].
- Dust extraction port diameter 120 mm directly on the saw casing. In combination with the Leitz DFC (Dust Flow Control) it provides perfect chip and dust extraction.
- Two plunge levers [figure 7] for easy and equal pneumatic plunging and removal of the sawing unit. The lower plunge lever can be folded away and thereby allows the unit to be easily plunged into in the upper position (220 cm) at a handling height of 182cm [see large image on the next page]. Integrated castor which automatically folds the plunging lever away for vertical sawing.



Especially stable – the sawing beam



- Made from extruded aluminium sheath.
- High precision guaranteed by the hardened half-round guide in a horizontal direction [figure 1].
- Two hardened linear guides for the vertical attachment of the sawing unit.
- Three manual dimensional displays for easy setting of the cut dimension, above and below the cutting unit (unit in the upper position) [figure 2].
- Absolute angular pneumatic arresting of the sawing beam above and below, controlled from the control panel.



The measure is the cutting result

The concept of the V-CUT 1275 | 1280 is orientated to the requirements of absolute precision, angularity and dimensional accuracy. A high degree of ergonomics and easy operation are a matter of course.

Lower work piece support

- Wear-free – stainless steel support [figure 3].

Lifting roller transport system

- Made easy – lifting rollers which can be manually raised and lowered to easily move bulky and heavy panels [figure 4].

Length stop in the 1st field

- Hardened guide for the highest precision and long life-span.
- The clamping is provided by a quick-release lever [figure 5].
- The stop can be collapsed to the middle work piece support.
- Manual dimensional display.
- Digital dimensional display (optional) [see page 3].

Middle work piece support

- Practical – three collapsible work piece supports to ensure the secure handling of small work pieces; optional over the whole length of the machine – attached at an ergonomic height above the ground – 88.5cm [see the large image on the left].
- Protective mechanism to prevent folding back unintentionally [figure 6].
- Stop on the support provides a secure hold for the work piece – stopping it moving when horizontal cuts are made [figure 7]



Fully-automatic, easy to operate

The V-CUT 1280 is the large, fully-automatic panel saw from HOLZ-HER. It impresses with its program functions and copes with large cut quantities in a short time. The process mode is started by the press of a button once the panel has been positioned. All movement processes are performed by a Servomotor which meets the latest technology.

- The plunging, sawing, return movement and pivoting of the sawing unit is carried out automatically.
- As standard it is positioned for horizontal cuts fully-automatically after entering the target dimensions on the touchscreen.
- The sawing beam can be automatically positioned to the defined cutting line for vertical cuts.
- A sensor recognises the dimensions of the work piece; this shortens the cycle and increases productivity.



Vertical cutting

- The cutting unit starts up and plunges automatically into the panel, cuts it and leaves the panel. Automatic backwards movement can be activated if desired.

Horizontal cutting

- The cutting unit plunges into the panel, cuts is, leaves the panel and can return to the starting position. Automatic backwards movement can be activated if desired.

It is of course also possible to switch off the automatic function to manually operate the device via the key switch.



Illustrations may contain optional features.



Effective dust extraction – with DFC (Dust Flow Control)

A dust flow system (DFC system) from Leitz is integrated into the sawing unit [figure 1]. It provides particularly effective dust extraction within the sawing unit. Dust and chips are also speeded up to influence the amount of time they spend in the “chip area” and the direction they fly in specifically so that they find their way to the extraction support quickly and fully. The large-dimensioned extraction port with a diameter of 120 mm is attached directly to the saw casing and the Dust Flow System.

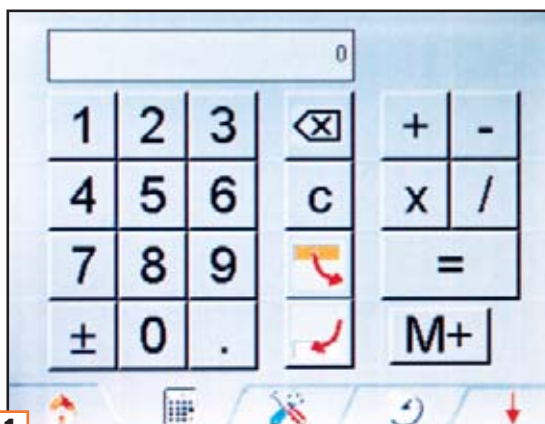


Automatically lift down of the roller during plunge-in of the saw blade. For high accuracy of the cutting dimensions [figure 2].

Operating comfort for high cutting quantities

The control panel of the V-CUT 1280 is exemplary in its ergonomics and operating comfort. The clear 5.7 inch touchscreen allows the extremely easy input of data in the typical HOLZ-HER operating concept.

- The extensive functions can be accessed quickly.
- Clear structure, graphical surface, the operation is intuitive.
- The control panel moves with the sawing unit and is therefore always easily reachable.
- Forward speed 6–25 m/min (can be steplessly adjusted).
- Input of the target value on the touchscreen and the display of the actual value for:
 - automatic forward movement 6–25 m/min (optional)
 - adjustable saw blade speed (optional)
 - Speed of the scoring blade
- Calculator can be accessed via the touchscreen to quickly calculate the cutting dimensions and for the automatic import to the target value [figure 1].
- Ten memory spots for repeat horizontal cutting dimensions [figure 2].
- Automatic positioning to a vertical cutting line [figure 3].



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Operation of the individual elements



- Sawing cycle without the sawing beam moving back.



- Sawing cycle with the sawing bar moving back automatically.



- Start positioning



- Stop positioning



- Supports vertical
Brakes horizontal



- Start the saw motor



- Stop the saw motor



- Scoring code



- Pivot saw



- Plunge and remove unit



- Supports vertical
Brakes horizontal



- Start the saw motor



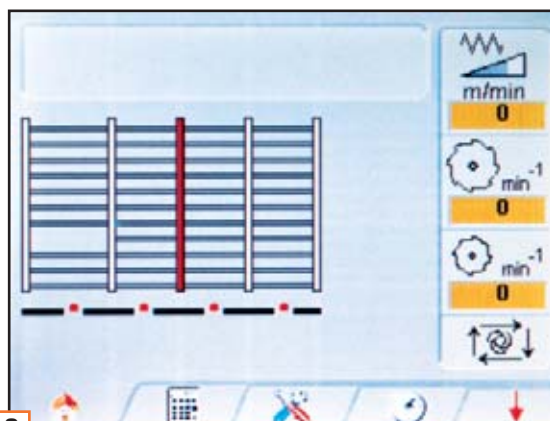
- Stop the saw motor

- Menu selection for:

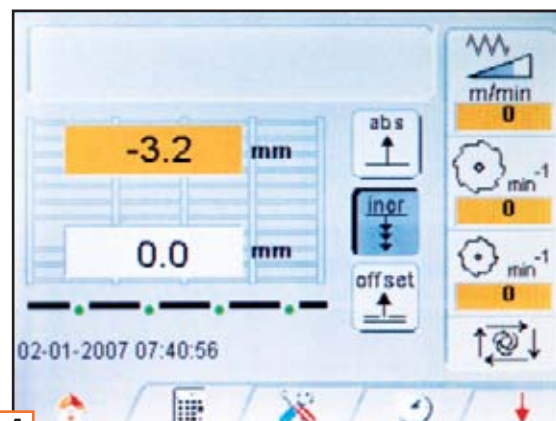
- Calculator [figure 1]
- Messages
- Operating data
- Settings

- Input and display of target/actual dimensions for:

- Horizontal cut positioning
- Absolute dimension of the lower work piece support
- Absolute dimension of the middle work piece support
- Incremental dimension of the upper sawing edge [figure 4]



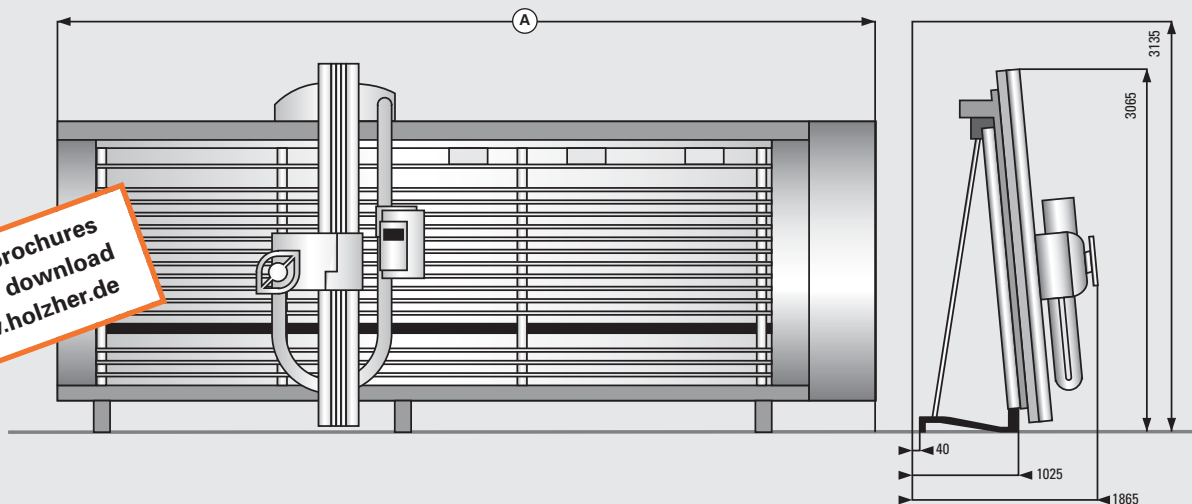
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Technical data

		V-CUT 1275 1280
Working dimensions		
Cutting depth (mm inch)		75 2.95
Undercut (mm inch)		15 0.59
Cutting height (trimming height 2100) (mm inch)		2200 86.61
Cutting length (mm inch)		4300 169.29
Cutting length (mm inch)		5300 208.66
Sawing unit		
Motor output (kW)		5.5 5.5
Forward speed (m/min ft/min) (V-CUT 1280)		6 – 25 19.69 – 82.02
Rotational speed of saw blade (min ⁻¹) at 50 Hz		4450 4450
Saw blade ø (mm inch)		303 11.93
Pneumatic in-movement of saw unit		
Motor output (kW)		0.55 0.55
Rotational speed of saw blade (min ⁻¹)		12000 12000
Saw blade ø (mm inch)		100 3.94
Dust extraction		
Air requirement (m ³ /h ft ³ /h)		1400 49 452
Air speed (m/sec ft/sec)		20 65.62
Port ø for unit (mm inch)		120 4.72
Port ø end of frame (TRK design) (mm inch)		100 3.94
Static low pressure of the sawing unit (Pa)		1100 1100
Static low pressure of the end of frame (Pa)		1000 1000
Compressed air		
Operating pressure (bar)		60 60
Machine dimensions		
Weight (kg) V-CUT 1275		1200 1200
Weight (kg) V-CUT 1280		1300 1300



All product brochures
available for download
from www.holzher.de

A (mm)	V-CUT 1275 1280
5840	at cut lengths of 4300
6840	at cut lengths of 5300

The technical data represents guideline values. We have to reserve the right to alterations, as our HOLZ-HER wood processing machines are subject to constant further development. As a result the illustrations are also non-binding. Some of the machines depicted also contain special equipment, which is not part of the standard scope of delivery. Please acquaint yourself with the exact equipment of your machine at your HOLZ-HER dealer. Changes to construction and equipment reserved.

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