

Compact Dimensions – Maximum Performance

CUT 6120



PRODUCTIVITY AND PRECISION



CUT 6120

The saw with the high performance spectrum

The CUT 6120 pressure beam saw is a high performance package. It is compact and therefore even fit in shops where work areas require extremely economic planning. Nevertheless its cutting performance is far beyond standard. The free-supporting, torsionally rigid design of the base frame as well as the high quality equipment is a distinguishing feature of this saw.

- Saw carriages, sawing units and rip fences are held precisely by ground V-guides preventing vibration. This ensures clean and precision cuts.
- Electronically controlled saw carriage with cut-out device high productivity even for light cutouts.
 - infinitely regulated feed rates from 0 to 100 m/ min.
 - Saw carriage return speed 130 m/ min.
- The high quality rack-and-pinion drive provides for high acceleration rates and rapid operating cycles without effort.
 - Rip fence motion speeds up to a maximum of 100 m/min (EU: 0 to 25 m/min).
- Electronically control pressure beam for short cycle times
- Air cushion machine table for simple handling of heavy panel stacks (optional) to prevent scratching sensitive panels.

High Power – Extremely Smooth Operation

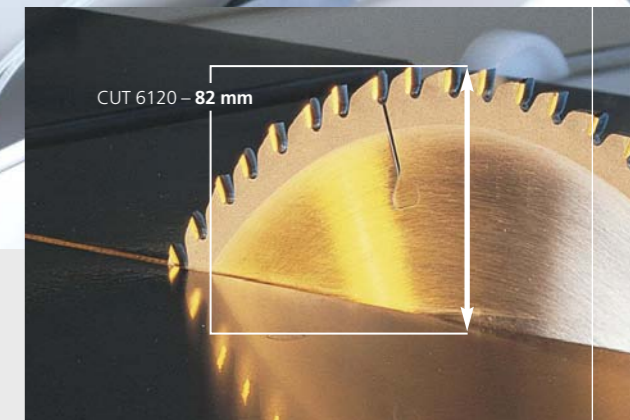
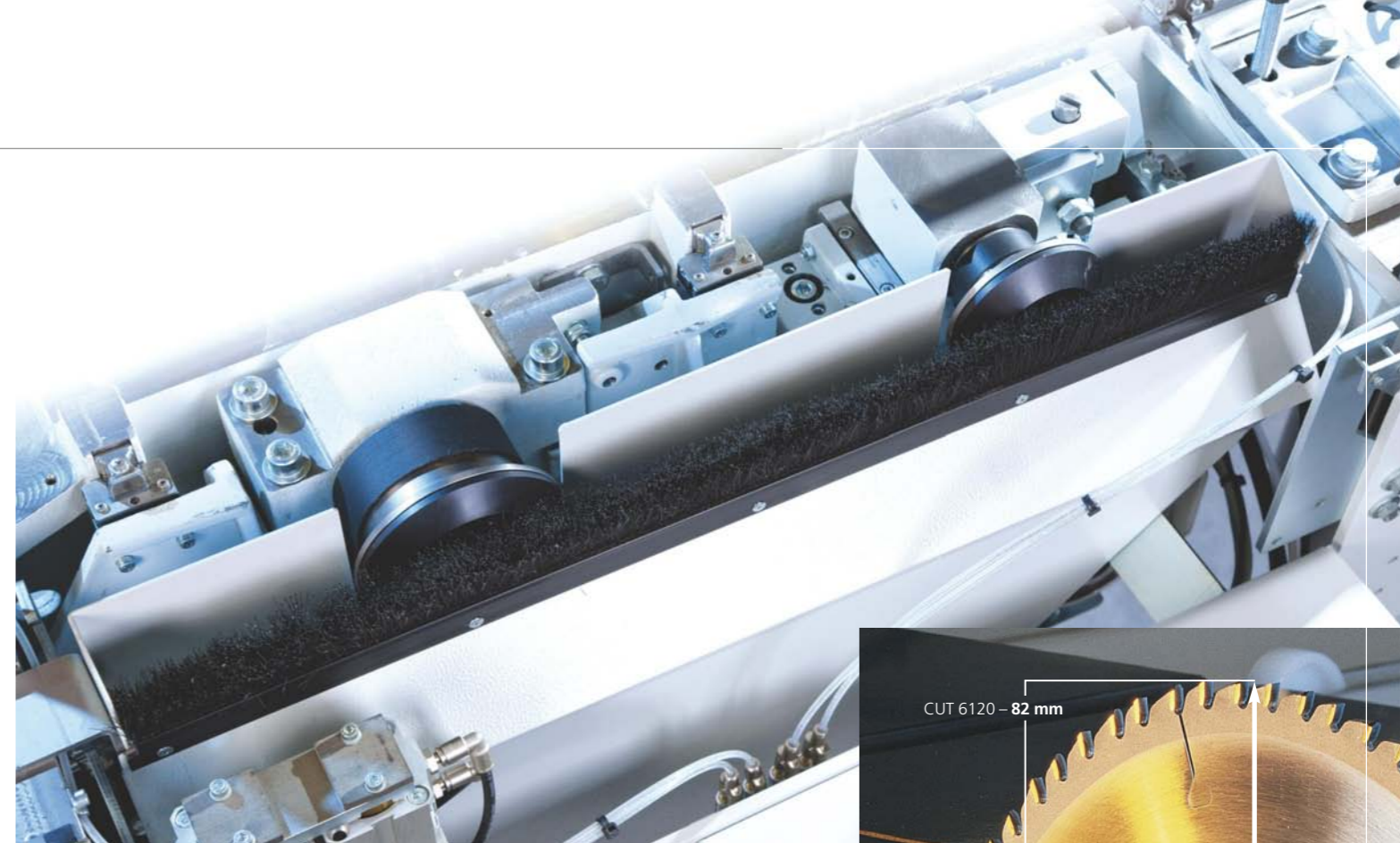
The heavy duty main sawing unit (11 kW) is driven by a ribbed belt. This ensures extremely smooth operation. Surface hardened linear guides ensure that the unit is raised and lowered uniformly. The scoring unit also satisfies these high requirements. The prescoring cutter can be adjusted electrically. The central dust extraction unit which moves with the saw carriage sucks up the dust right where it originates.



Technology and equipment to meet highest demands

The CUT 6120 meets the highest demands in terms of technology and equipment.

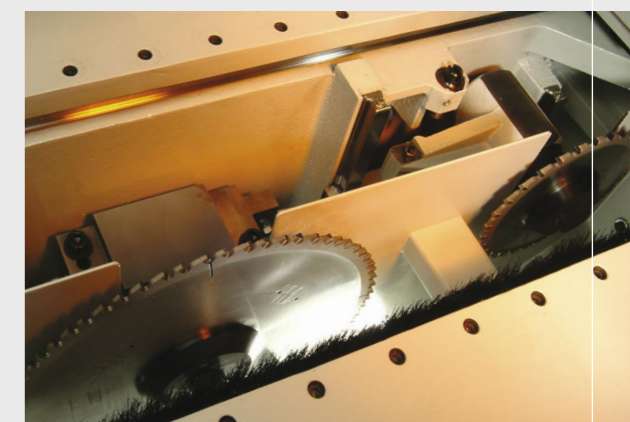
- The stable support tables never distort, event under heavy panel packages.
- The support tables can be moved for work with small dimensions or to obtain additional space (optional).
- Air cushions for the machine table protect the panels during handling. Two powerful fans provide a large area air cushion, which allows heavy stacks of panels to be moved easily.



New CUT 6120 Sawing Unit

Exceptional stability, laid out for high travelling rates, optimum user convenience. A contactless optical system for automatic limitation of the cutting length allows the sawing unit to recognise the end of the work, thereby optimising the sawing cycle. With a saw blade diameter of 350 mm the automatic, infinite cutting height adjustment ensures an optimum saw blade protrusion and therefore a clean cut edge.

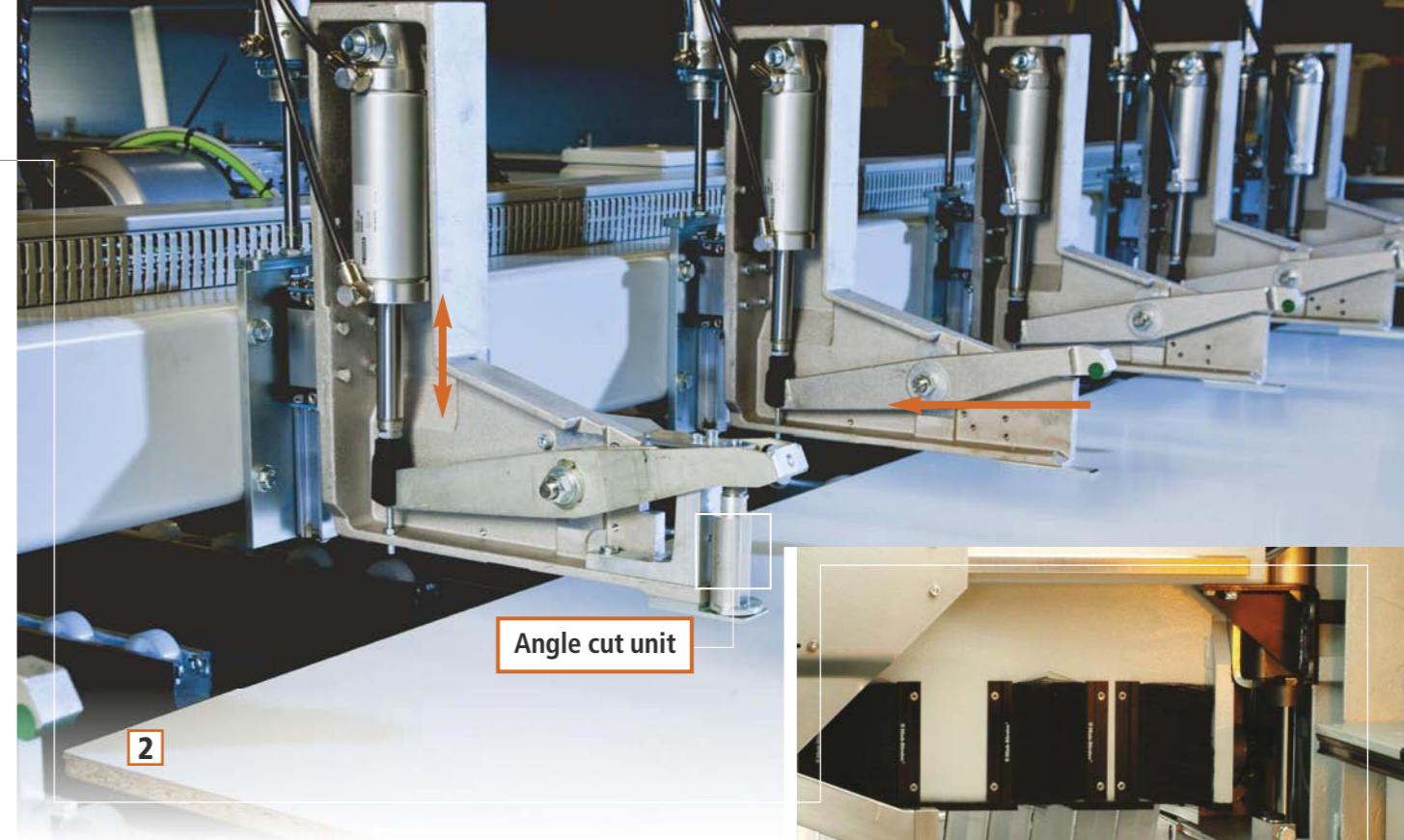
- High performance postforming unit for tear-free cutting of postforming and other edges up to a panel thickness of 50 mm.
- Prescoring unit with electrically adjustable height and width on control.
- Grooving unit – bidirectional grooving for rapid cycle sequence.
- Groove depth electronically adjustable from 0 to 35 mm on control.



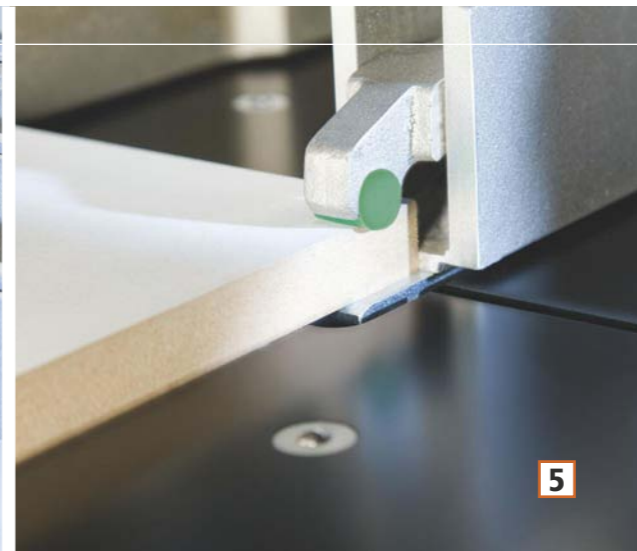
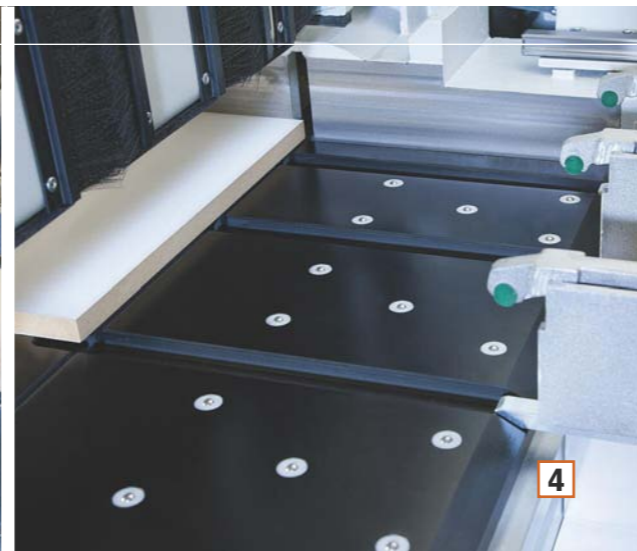
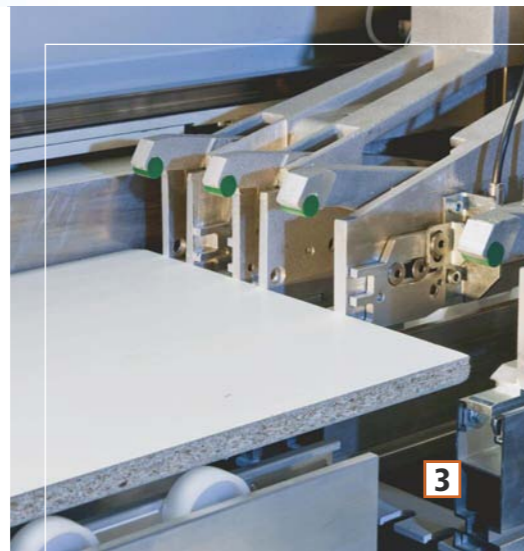
Air cushion in machine table to protect sensitive panel finishes (optional).

Perfect Hold – Pressure Beam and Clamp

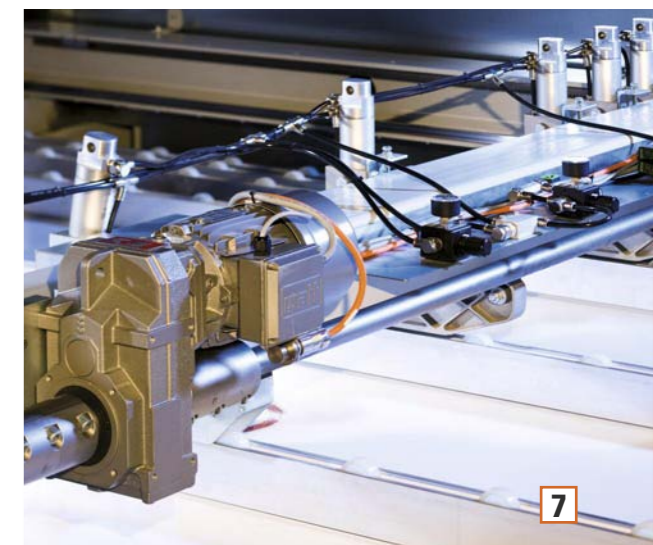
- The pressure beam is controlled pneumatically, the pressure can be regulated precisely to prevent damage to sensitive work.
- The pneumatically controlled angular pressing device holds the work securely in position, guaranteeing an exact cut, even with long workpieces [Fig. 8].
 - Angle pressing device can be prepositioned up to a maximum of 1300 mm (optional). Prepositioning saves time by reducing cycle times and increasing saw output.



- Dynamic feeding – pop-up length alignment pins for fast cycle time for the alignment of panel books, fed automatically [Fig. 1].
- Dynamic feed – liftable clamps for moving over panels already fed in [Fig. 2].
- First clamp as double finger clamp with pneumatic format and trimming unit for clamping 3 strips with maximum dimensions of 80 mm each [Fig. 3].



- Remnant cutting device for division without remnants. The clamps retract into the grooved pressure beam. Allows panels to be used completely during processing [Fig. 4 and Fig. 5].
- Floating type work clamps compensate for tension in the panel stack toward the top [Fig. 6].
- Precision guided, freely programmable rip fence with clamps. Feed parallel to the cutting line is ensured [Fig. 7].



High Performance and Practical – CUTCONTROL 2

The control is decisive for the power output of a state-of-the-art horizontal pressure beam saw. The CUTCONTROL 2 takes over the control and the preinstalled EASY-PLAN software manages jobs and material as well as optimising the cutting plan. The generously dimensioned industrial processor, a state-of-the-art graphic operating system and 17" TFT monitor provide the basis for practical operation.

- The clear, graphic-based control surface is self-explanatory and represents processing in real time. Switch-over from 2-D to 3-D mode.
- All functions can be called from one level, there is no limit for job entries, meaning that an unlimited amount of material list data can be entered.
- The control functions for direct cutting and NC cutting always lead to the best possible results.
- The integrated OPTI-CUT optimisation software can also be purchased as a combination package – with machine and office version.
- Display of veneer direction.

Everything at a Glance

- Large monitor with optional touchscreen; large, clearly arranged buttons, absolute, series and format cuts with integrated groove possible.
- Individual jobs can be assigned a priority at any time, job programming parallel to cutting.
- Graphic view of machine with machine sequence function for NC cutting.
- Program-controlled measurement of reference dimensions when saw blade is changed.
- Information display indicating running meters for main and scoring saws
- Individual adaptation of function and parameter settings

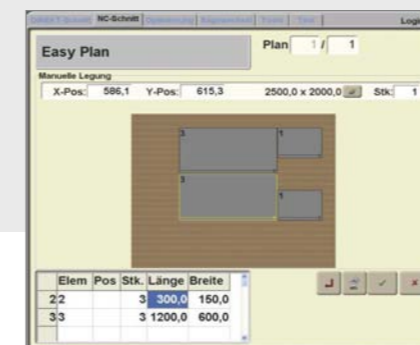


Optimisation Module

EASY-PLAN – its Name is its Programme

The EASY-PLAN optimisation software installed as a standard feature provides all functions, such as:

- Entry of material data and parts list data.
- Job summary.
- Cutting plan survey for optimized jobs (representation at one level)
- Material-related result display in graphic form.
- Display provides information on required material formats, panels and remaining formats per job.
- Complete jobs can be reset and booked back into the parts list at any time.



OPTI-CUT – makes your work even simpler

The integrated OPTI-CUT optimisation software can also be purchased as a combination package – with machine and office version. OPTI-CUT serves for laying out, managing and optimising orders.

- The software supplies current job information for NC cutting.
- An additional module imports parts lists from user programs.
- Simple configuration of all system settings.
- Material-related result display of optimised parts lists in graphic form.
- Layout and management of edging lists with predefined edging recommendation lists.
- Defined cutting length adaptation from the software reduces cycle times decisively.

OPTI-PRO – Your premium optimisation

Optimisation in one complete package with a variety of additional modules.

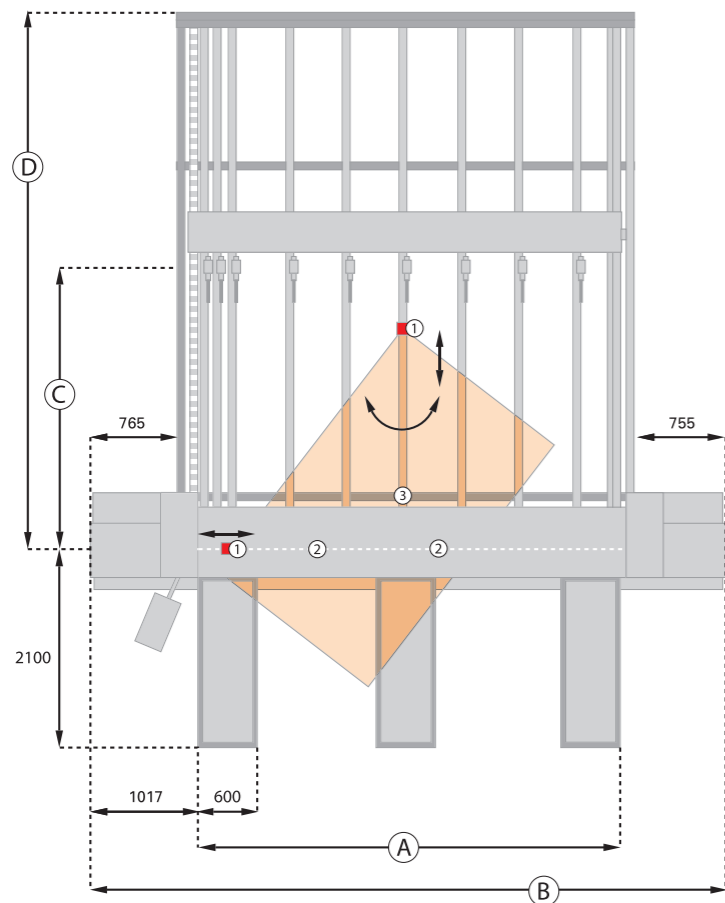
- Job management
- Material and coating management
- Data migration
- Configuration
- Display of results
- Material booking
- Edging and grooving entries
- Use of cuts
- Optimisation of block parts
- Edging calculation, data migration
- Export of all data
- Cutting time calculation
- Label printout in office
- Filler parts
- Bar optimisation
- Collective jobs
- Second licence



Precise dimensions – cut exactly

An angular cutting device is available (as option) for freely definable angle cuts.

- Program-controlled calculation of angle geometry
- Entry of leg lengths or angles possible
- Definition of position in relation to workpieces to be sawed
- Automatic positioning of rip fence and angle fence on saw



CUT 6120 – Dynamic Feed (mm)	
A Cutting length	4400 mm
B Machine width	6440 mm
C Cutting width	6550 mm
D Machine depth	7628 mm

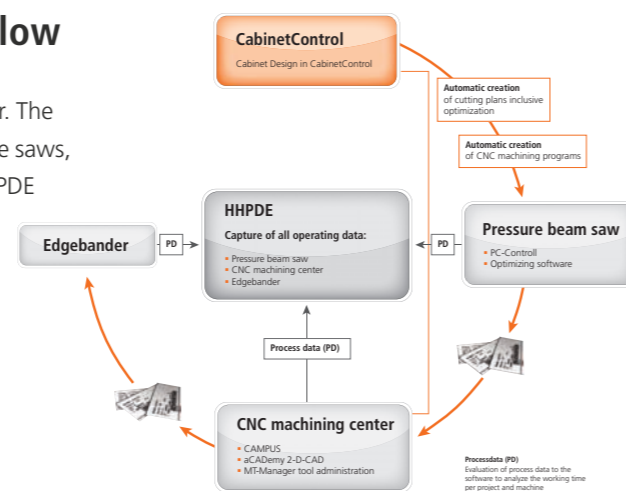
- 1 Positionable stop for angular cutting unit
- 2 Evacuation connection dia. 120 mm
- 3 Evacuation connection dia. 120 mm

Productivity through Digital Workflow

All HOLZ-HER machines can be networked with each other. The digital workflow between the CabinetControl software, the saws, the edgebanders, the CNC machining centres and the HHPDE software (HOLZ-HER process data capture) ensures efficient production. HHPDE offers:

- Capture of all operating data
- Time scheduling and calculation for order planning
- Exact evaluation of job-related production data

HHPDE is therefore the basis for efficient calculation.



CUT 6120

Electronically controlled pressure beam for short cycle times	✓
Electrically adjustable prescoring saw with 2.2 kW prescoring motor	✓
Controlled saw carriage for light cutouts	✓
Groove height motor-driven adjustment	✓
Rip fence max. 100 m/min in return Feed rate max. 25 m/min	✓
1. Clamp as double finger clamp for clamping 3 strips each 80 mm (max.)	✓
Air cushion table 1. Table with stop fence	✓
Additional air cushion table 1800 mm	○
Air cushion table 2400 mm also mobile	○
Air cushion machine table	✓
OPTI-CUT Software preinstalled (INDUSTRY model package)	✓
Fully automatic lubrication of saw carriage	○
Angle pressing device up to 1300 mm Pre-positionable for short cycle times	✓ ○
Pressure beam Programme-controlled pressure switch-over	○
Postforming saw for 50 mm thick panels	○
17" TFT Display Large Display	✓
19" Touchscreen Large Display as Touchscreen	○
Closed pressure beam for foil cuts	○
Infinite speed control For main saw and prescorer	○
Additional work clamps in rip fence	○
Additional double finger clamps For max. 5 strips each 80 mm	○
Pneumatic format and trimming unit	○
Upgrade kit for dynamic feed Incl. communication module for feed	○

✓ = Standard | ○ = Optional



- Additional lateral alignment on roller table for angular layout of narrow and long parts.
- Extended stop fence behind sawing line for high cutting accuracy.

Product brochures and numerous
videos can be found at
www.holzher.com

Technical data

	CUT 6120	
Machine dimensions		
Cutting length x cutting width (mm inch)	4400 x 3100 4400 x 6500	173.23 x 122.05 173.23 x 255.91
Weight (kg) (depending on cutting length and cutting width)	5000 – 6700	5000 – 6700
Clamp opening dimensions (mm inch)	82	3.23
Max. saw blade projection (mm inch)	82	3.23
Sawing unit		
Motor output (kW)	11	11
Saw blade dia. (mm inch)	350	13.78
Rotary speed (RPM)	4070	4070
Rotary speed (RPM) (optional)	1000 – 5000	1000 – 5000
Scoring unit		
Motor output (kW)	2.2	2.2
Saw blade dia. (mm inch)	180	7.09
Rotary speed (RPM)	6040	6040
Rotary speed (RPM) (optional)	1000 – 6500	1000 – 6500
Postforming saw		
Motor output (kW)	2.2	2.2
Saw blade dia. (mm inch)	280	11.02
Saw carriage		
Feed rate (m/min ft/min) (including electrically controlled saw carriage with cutout device) (standard)	0 – 100	0 – 328.08
Return feed rate (m/min ft/min) (including electrically controlled saw carriage with cutout device) (standard)	130	426.51
Rip fence		
Feed rate (m/min ft/min) (infinite)	0 – 100	0 – 328.08
Feed rate in EU (m/min ft/min) (infinite)	0 – 25	0 – 82.02
Return rate (m/min ft/min)	100	328.08
Clamps		
Cutting length 3900/4400	6 Each	6 Each
Compressed air		
Operating pressure (bars)	6	6
Air consumption NL/cutting cycle	32	32
Dust extraction		
Basic machine connection dia (mm inch)	1 x 120	1 x 4.72
Pressure beam connection dia. (mm inch)	3 x 120	3 x 4.72
Dust extraction rate (m ³ /h f ³ /h)	4500	158954
Air velocity (m/s ft/s)	30	98.43
Number of worktables		
Cutting length 3100/3900/4400	3	3

The technical specifications are intended as a guide. We reserve the right to make alterations as our HOLZ-HER wood processing machines are undergoing constant development. The illustrations are therefore also of a non-binding nature. Some of the machines illustrated have special fittings that are not delivered as standard. Please ask your HOLZ-HER dealer as to the exact specifications. Subject to alterations in construction and fittings.

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