Horizontal pressure beam saws

CUT 6110 I 6120

Compact Dimensions – Maximum Performance

New with postforming saw

Your partner for productivity and precision

HOLZ-HER®
Spezialmaschinen

The saws with the high performance spectrum

The CUT 6110 and CUT 6120 pressure beam saws are high performance packages. They are compact and therefore even fit in shops where work areas require extremely economic planning. Nevertheless their cutting performance is far beyond standard. The free-supporting, torsionally rigid design of the base frame as well as the high quality equipment are distinguishing features of these saws.

- 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 (optional on CUT 6110), 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).
- The pressure beam is controlled pneumatically (CUT 6110), the pressure can be regulated precisely to prevent damage to sensitive work.
- Electronically control pressure beam for short cycle times (CUT 6120).
- Air cushion machine table for simple handling of heavy panel stacks (optional) to prevent scratching sensitive panels.

Illustrations may contain optional features.

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 adjust practically from the outside on the CUT 6110, or electrically on the CUT 6120. 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

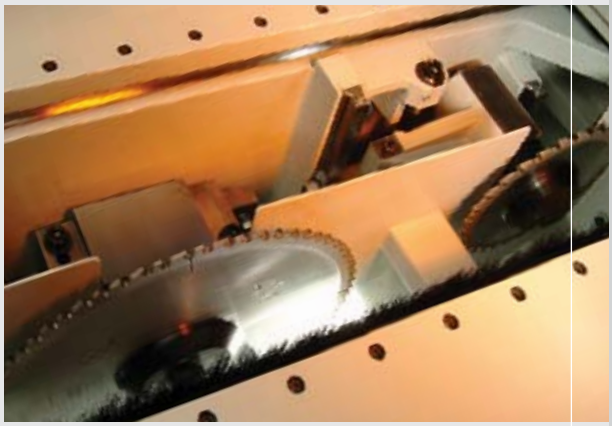
The CUT 6110 and CUT 6120 meet the highest demands in terms of technology and equipment.

- The stable support tables never distort, event under heavy panel packages.
- The laminated wood of the compact plate provides maximum protection for the positioned work (CUT 6110).
- The support tables can be moved for work with small dimensions or to obtain additional space (optional).
- Optional air cushions for the machine table protect the work 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 (optional on CUT 6120).
- Prescoring unit with electrically adjustable height and width on control (CUT 6120).
- Grooving unit – bidirectional grooving for rapid cycle sequence.
- Groove depth electronically adjustable from 0 to 35 mm on control (CUT 6120).

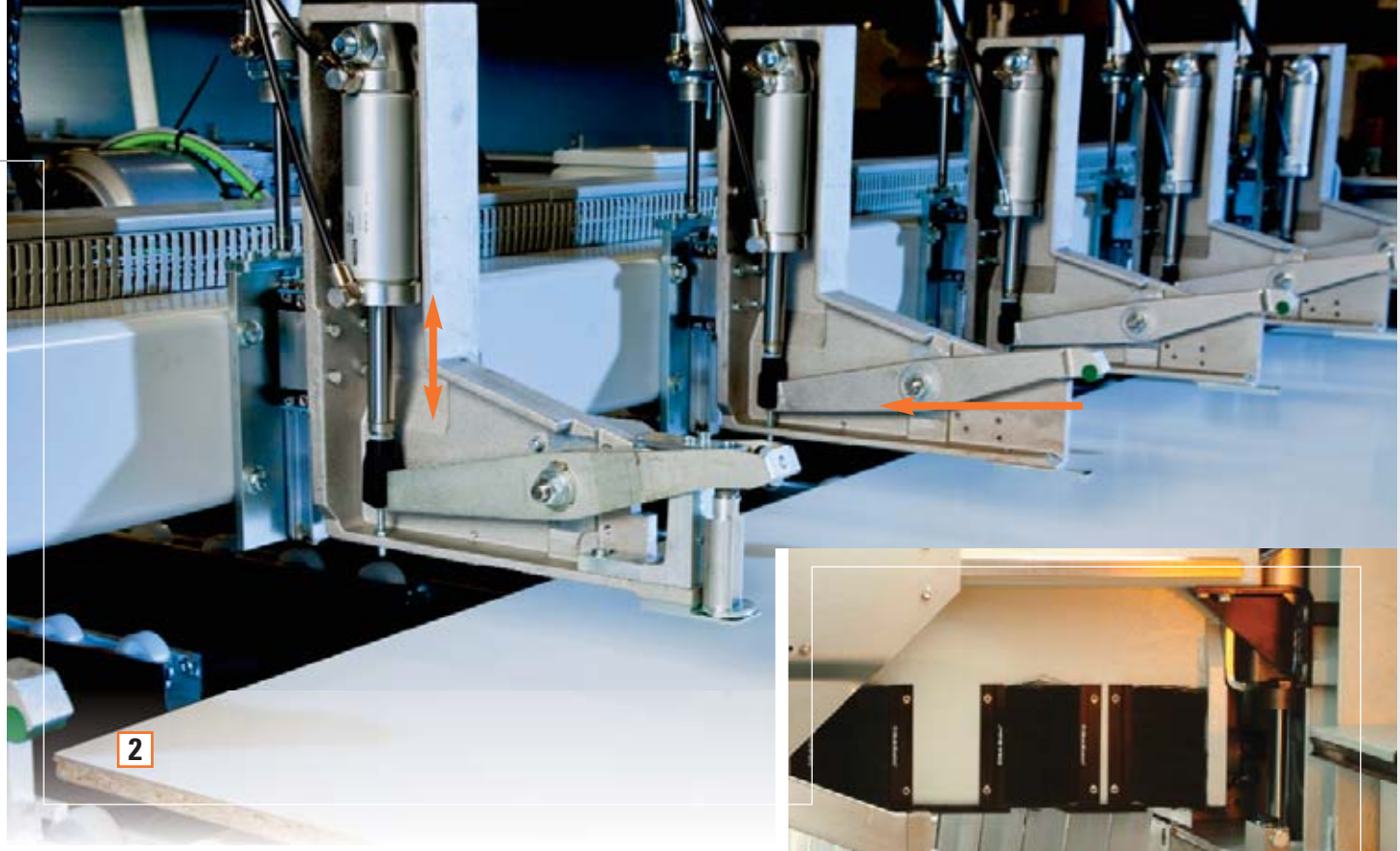


Air cushion in machine table to protect sensitive panel finishes (optional).

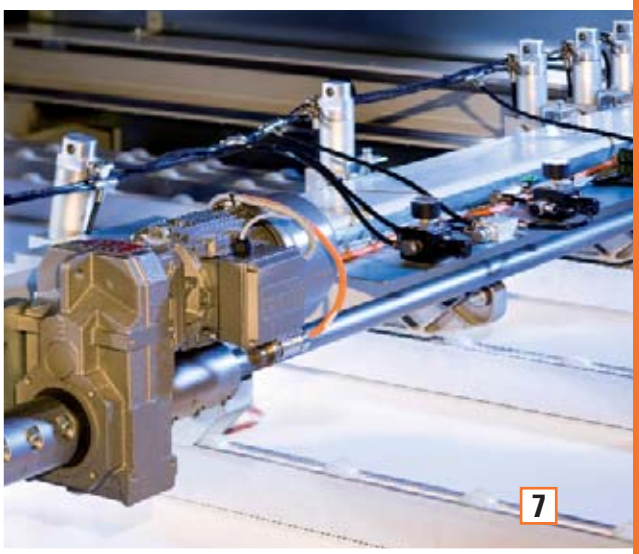
Perfect Hold – Pressure Beam and Clamp

- The pressure beam is controlled pneumatically (CUT 6110), 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 on 6120). Prepositioning saves time by reducing cycle times and increasing saw output.

- Dynamic feed – fold-out longitudinal alignment unit for aligning panels fed in automatically [Fig. 1].
- Dynamic feed – liftable clamps for moving over panels already fed in [Fig. 2].
- First clamp as double finger clamp (standard feature on CUT 6120) with pneumatic format and trimming unit for clamping 3 strips with maximum dimensions of 80 mm each [Fig. 3].

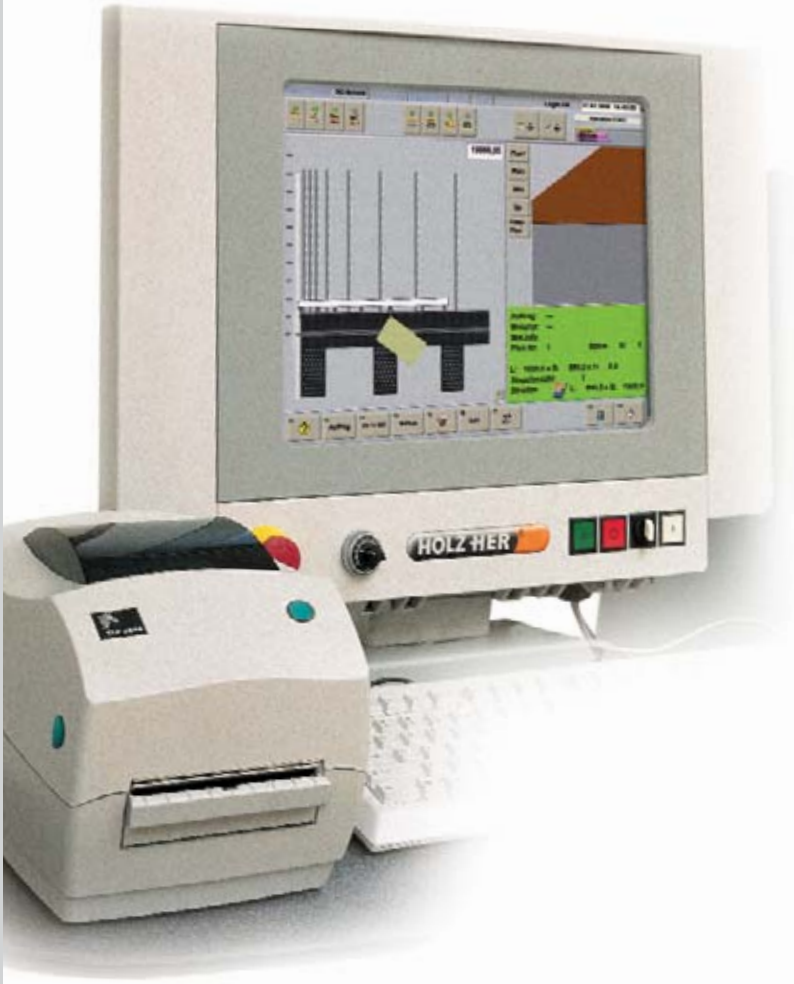


- Remnant cutting device for division without remnants. The clamps retract into the grooved pressure beam. Allows panels to be used completely during processing [Fig. 4 and Fig. 5].
- Floating type work clamps compensate for tension in the panel stack toward the top [Fig. 6].
- Precision guided, freely 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. On the CUT 6110 and the CUT 6120 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

Control 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

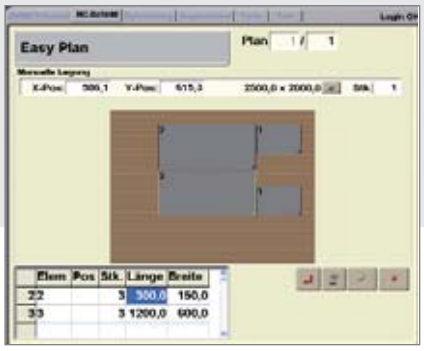
The integrated OPTI-CUT optimisation software can also be purchased as a combination package – with machine and office version (standard feature on 6120). OPTI-CUT serves for laying out, managing and optimising orders.

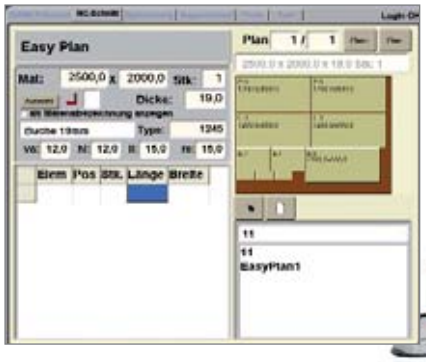
- The software supplies current job information for NC cutting.
- An additional module imports parts lists from user programs.
- Simple configuration of all system settings.
- Material-related result display of optimised parts lists in graphic form.
- Layout and management of edging lists with predefined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

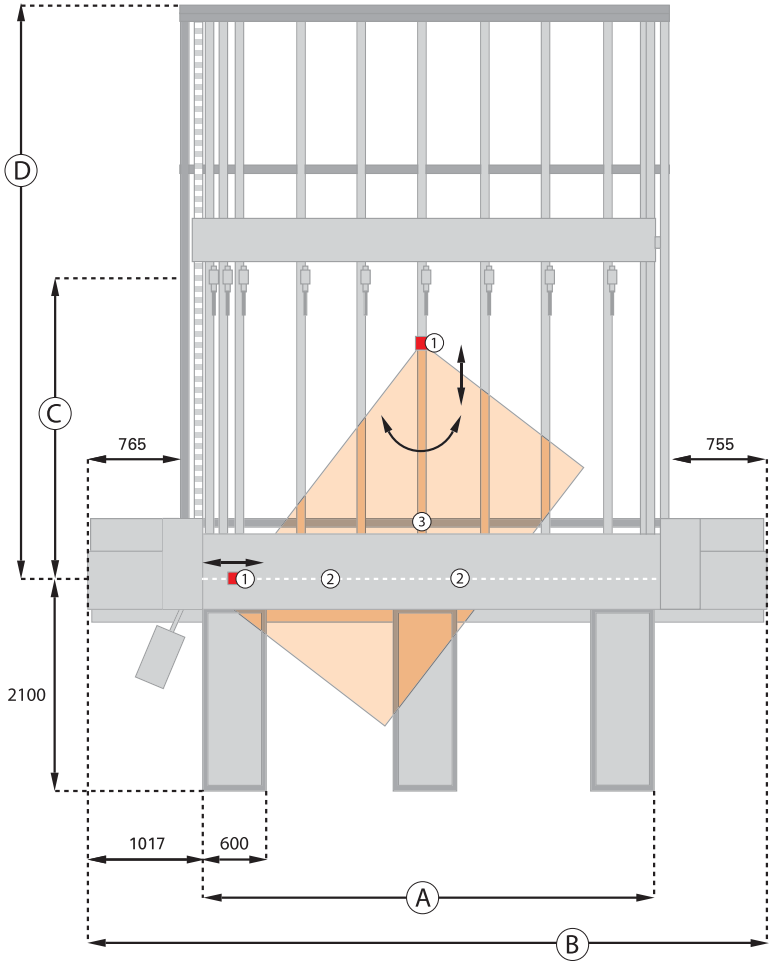




Precise dimensions – cut exactly

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 6110	(mm)
A Cutting length	3100 / 3900 / 4400
B Machine width	5138 / 5938 / 6438
C Cutting width	3100 / 3900 / 4300
D Machine depth	3990 / 4790 / 5190

CUT 6120 – Dynamic Feed	
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

HOLZ-HER products are unbeatable when combined. The digital workflow between the saws, edgebanders and CNC machining centres allows efficient production. Flexible “manufacturing cells” and “lean manufacturing” are future-proof methods. In conjunction with the HHPDE (HOLZ-HER process data acquisition) software, time-based and computer monitoring and reporting of machine data within the network is also possible.

OPTIONAL EQUIPMENT

	CUT 6110	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	O	✔
Groove height manually adjustable 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	O	✔
Additional air cushion table 1800 mm	O	O
Air cushion table 2400 mm also mobile	O	O
Air cushion machine table	O	O
OPTI –CUT Software preinstalled (INDUSTRY model package)	O	✔
Fully automatic lubrication of saw carriage	–	O
Angle pressing device up to 1300 mm Pre-positionable for short cycle times	O –	O O
Pressure beam Programme-controlled pressure switch-over	–	O
Postforming saw for 50 mm thick panels	–	O
17" TFT Display Large Display	✔	✔
17" Touchscreen Large Display as Touchscreen	O	O
Closed pressure beam for foil cuts	O	O
Infinite speed control For main saw and prescorer	O	O
Additional work clamps in rip fence	O	O
Additional double finger clamps For max. 5 strips each 80 mm	–	O
Manual format and trimming unit Pneumatic format and trimming unit	O –	– O
Upgrade kit for dynamic feed Incl. communication module for feed	–	O

✔ = Standard I O = Optional I – = Not available

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

Technical data

	CUT 6110		CUT 6120	
Machine dimensions				
Cutting length x cutting width (mm | *inch*)	3100 x 3100 3100 x 3900 3900 x 3100 3900 x 3900 4400 x 3100 4400 x 3900 4400 x 4300	*122.05x122.05* *122.05x153.54* *153.54x122.05* *153.54x153.54* *173.23x122.05* *173.23x153.54* *173.23x169.29*	4400 x 3100 4400 x 6500	*173.23x122.05* *173.23x255.91*
Weight (kg) (depending on cutting length and cutting width)	4700 – 6300	*4700 – 6300*	5000 – 6700	*5000 – 6700*
Clamp opening dimensions (mm | *inch*)	72	*2.83*	82	*3.23*
Max. saw blade projection (mm | *inch*)	77	*3.03*	82	*3.23*
Sawing unit				
Motor output (kW)	11	*11*	11	*11*
Saw blade dia. (mm | *inch*)	350	*13.78*	350	*13.78*
Rotary speed (RPM)	4070	*4070*	4070	*4070*
Rotary speed (RPM) (optional)	1000 – 5000	*1000 – 5000*	1000 – 5000	*1000 – 5000*
Scoring unit				
Motor output (kW)	1.1	*1.1*	2.2	*2.2*
Saw blade dia. (mm | *inch*)	180	*7.09*	180	*7.09*
Rotary speed (RPM)	6040	*6040*	6040	*6040*
Rotary speed (RPM) (optional)	1000 – 6500	*1000 – 6500*	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*) (standard)	0 – 70	*0 – 229.66*	–	–
Return feed rate (m/min | *ft/min*) (standard)	70	*229.66*	–	–
Feed rate (m/min | *ft/min*) (including electrically controlled saw carriage with cutout device) (standard)	0 – 100	*0 – 328.08*	0 – 100	*0 – 328.08*
Return feed rate (m/min | *ft/min*) (including electrically controlled saw carriage with cutout device) (standard)	130	*426.51*	130	*426.51*
Rip fence				
Feed rate (m/min | *ft/min*) (infinite)	0 – 100	*0 – 328.08*	0 – 100	*0 – 328.08*
Feed rate in EU (m/min | *ft/min*) (infinite)	0 – 25	*0 – 82.02*	0 – 25	*0 – 82.02*
Return rate (m/min | *ft/min*)	100	*328.08*	100	*328.08*
Clamps				
Cutting length 3100	5 Each	*5 Each*	–	–
Cutting length 3900/4400	6 Each	*6 Each*	6 Each	*6 Each*
Compressed air				
Operating pressure (bars)	6	*6*	6	*6*
Air consumption NL/cutting cycle	32	*32*	32	*32*
Dust extraction				
Basic machine connection dia (mm | *inch*)	1 x 120	*1 x 4.72*	1 x 120	*1 x 4.72*
Pressure beam connection dia. (mm | *inch*)	3 x 120	*3 x 4.72*	3 x 120	*3 x 4.72*
Dust extraction rate (m^3/h | f^3/h)	4500	*158.954*	4500	*158.954*
Air velocity (m/s | *ft/s*)	30	*98.43*	30	*98.43*
Number of worktables				
Cutting length 3100/3900/4400	3	*3*	3	*3*

All product brochures can be downloaded from www.holzher.de

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