

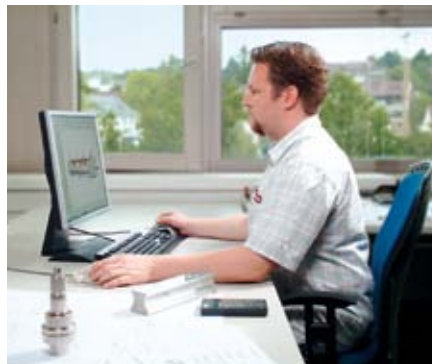
Compact Dimensions – Maximum Performance

# TECTRA 6120



PRODUCTIVITY AND PRECISION





## Perfect panel processing is our passion

Our engineers are among the world's best. Their visionary imagination and exceptional skill guarantee that our machines are the highest performance, most flexible and safest in the world today. Customers appreciate our capability to develop and produce excellent products quickly at equitable prices and high quality. Integrative, networked solutions are decisive for machining wood and panels worldwide.

This is why HOLZ-HER offers a range of products matched to one another and always develops a complete product series, from

an entry-level machine right up through all performance ranges to the comprehensive top model. All service activities and product training courses are planned alongside new products. This ensures that, in addition to being offered a new machine, customers can also take advantage of a complete range of services. This focuses on practical solutions and greater customer benefit.

Absolute precision in  
production guarantees  
perfect results for customers.



# What you can expect from us

- We want to understand our customers and partners as much as possible and optimize and increase their success with innovative products and services.
- Close contact with our dealers as well as with end customers, cabinet makers, interior architects and industrial shops is one of HOLZ-HER's particular strengths.
- Providing higher than average performance in all areas, thinking towards the future, continuity and consistency in development and design, perfection in production and intensive consulting in sales and service are HOLZ-HER's strong points.
- HOLZ-HER sets trends and provides the impetus for technological development. This is the only way to meet market demands for continuously shorter development cycles and deliver these developments to our customers faster. This applies for mechanical systems as well as software.
- Recognizing and anticipating trends are key qualifications for successful companies like HOLZ-HER. This requires up-to-date qualifications from each and every employee. For this reason, HOLZ-HER places great emphasis on qualified training for young employees. A selected range of courses of advanced occupational and personal training maintain the learning process.
- As a WEINIG Group company we profit from synergy in development, production and sales – to the advantage of our customers.



For over 100 years, our HOLZ-HER employees have been developing innovative products and setting trends for the future.

# The saw with the high performance range

The TECTRA 6120 series beam saws impress with their high performance. They are variable, 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 panel cutting saws.

- Saw carriages, sawing units and rip fences are held precisely by ground V-guides, preventing vibration. This ensures clean and precise cuts over the long term.
- Electronically-controlled saw carriage, depending on the model, for extremely short cycle times and a high level of productivity. Also ideal as cutout equipment e. g. for precise grooves.
- Infinitely variable feed rate of 0 to 130 m/min (up to 70 m/min for the classic).
- Saw carriage return speed of up to 130 m/min (up to 70 m/min for the classic).
- The high quality rack-and-pinion drive offers high acceleration rates and rapid operating cycles without effort.
- Rip fence return speed of 100 m/min, positioning speed of 25 m/min (CE).
- Electronically-controlled pressure beam with optimized hub for short cycle times.
- Air cushion support tables and machine table depending on the model – for easy and careful material handling of heavy panel stacks.
- Enables perfect solutions for charging and lifting table or storage systems. The dynamic and lift versions are ideally equipped for charging thanks to the storage system and lifting table.



Illustrations may contain optional features.



» **Brilliant simplicity –  
simply brilliant.**

Just three clicks and  
my cutting begins. <



## Your cutting – perfect and efficient

### Automatic cutting

- Improved and easier handling.
- A1 quality of cuts.
- Shorter machining times.

### Energy management

- Low energy consumption through efficient use.
- Fewer emissions.
- Optimized extraction technology.
- Software-controlled efficiency checks.

### Simple work preparation

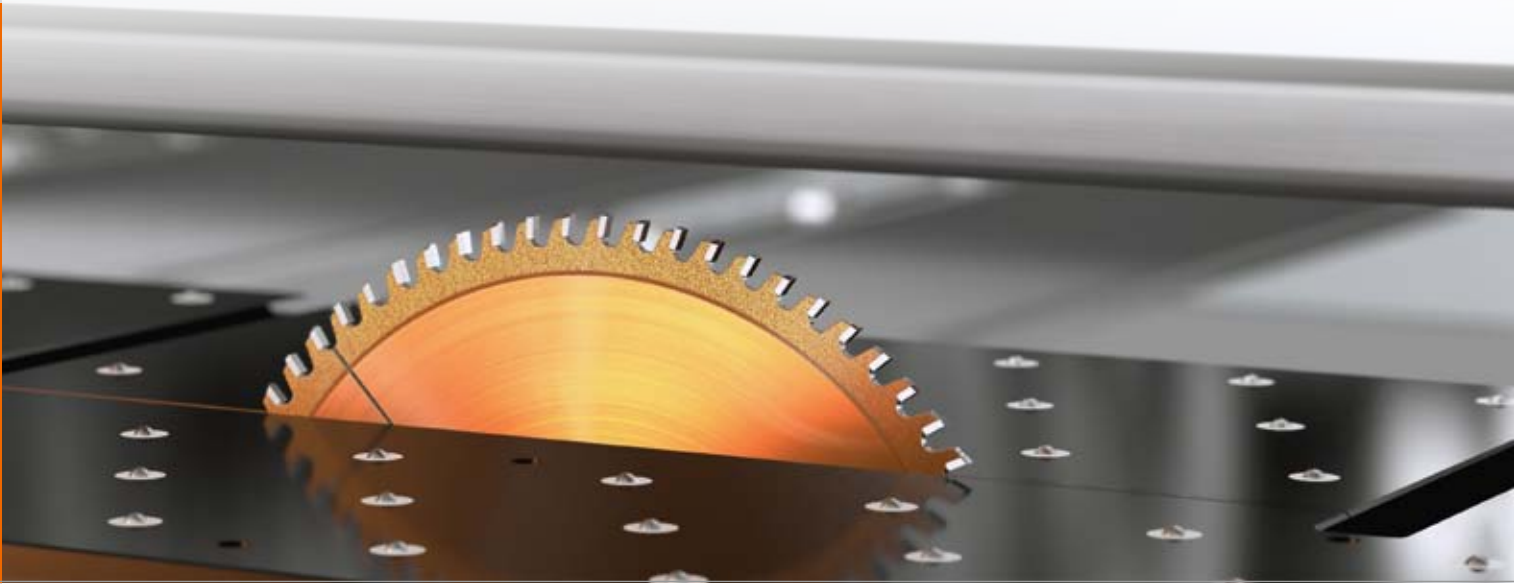
- Optimization software.
- Production schedule planning.
- QuickWorks – the perfect optimization assistant.
- Pre- and post-calculation.
- Material management.

### Complete solutions

- Optimally prepared for charging systems, lifting table solutions and storage systems.
- Perfect for machine networking.



The intelligent energy  
management system –  
standard on all HOLZ-HER  
panel cutting saws.



# TECTRA: The right step for the perfect cut

## Automation of the operating procedures

- Data transfer from third-party programs.
- Three clicks to cut.
- Rapid and simple creation of cutting plans.
- Higher performance in cutting.
- The path to correct work preparation.
- Pre- and post-calculation of the cutting jobs.
- Ready for connection to third-party software and storage systems.
- Simple operation – rotating and swiveling control panel at eye level.

## Fast and reliable

- Most rapid programming of its type.
- Clear machine control.
- Simple and uncomplicated operation.
- Equipped for all your projects.
- Overview of order workload.
- Cost assessment.
- Proven safety for your employees.
- Harmonized workplace.
- Perfect ergonomics for your employees.
- Perfect, uniform cutting.

This is what your customers  
can expect from TECTRA.



We show you the easy step-by-step  
path to the perfect cut.

The software for any order

SOFTWARE PACKAGE IN OFFICE

Perfect  
work preparation

Unique  
interface solution



## HOLZ-HER **Orbit**

Orbit gives you total control of the HOLZ-HER software modules. Switch easily between the various windows and maintain an overview of your production.



## Orbit

Pre- and post-calculation  
at the touch of a button

Equipped for all orders,  
whether large or small

Seamless connection  
to your machine



To the machine  
with one click

## Cutting optimization

Perfect utilization of material and high output thanks to intelligent software. Know your material and production costs now.

## Production planning

Plan the production – monitor the manufacture. Also the perfect tool for post-calculation.

The HOLZ-HER software package –  
the comprehensive solution for your cutting.

#### SOFTWARE PACKAGE ON THE MACHINE

Saw blade protrusion  
up to 95 mm

Sawing unit  
up to 15 kW



### QuickWorks

Three clicks to the finished cutting plan:

- Import the order
- Optimize the order
- Cutting plan on the machine

The cutting can begin.

### Direct cutting

Rapid implementation of  
individual and serial cuts.

Simple operation and  
identification of all parts

Rapid  
cutting cycles

Unlimited number  
of orders

Manufacture  
that inspires



## OptiCut

High-performance optimization solution with  
material management (option for classic).

## EasyPlan

The quick and simple tool for  
optimization at the machine.



## CutControl 2

A perfectly designed workplace forms the basis for efficient and effortless work. Using the 21.5" control terminal, HOLZ-HER panel cutting saws meet all of a machine operator's requirements. The ergonomically adjustable shelf gives you the means of positioning up to two printers, scanners or keyboards for user friendliness.

- The 21.5" graphic user interface guarantees the largest possible overview with 3D real-time graphics and complete graphical processing support.
- The optimized display of information impresses in terms of "overview" (keys and functions that are not required are faded out).
- The self-explanatory interface is an essential feature of this, so that your employees can work properly and rapidly with the machine without a significant training outlay.
- Operating statuses, service and maintenance intervals and separately programmed energy management are displayed in real time.





> **Control from  
experience –  
for practice.** <

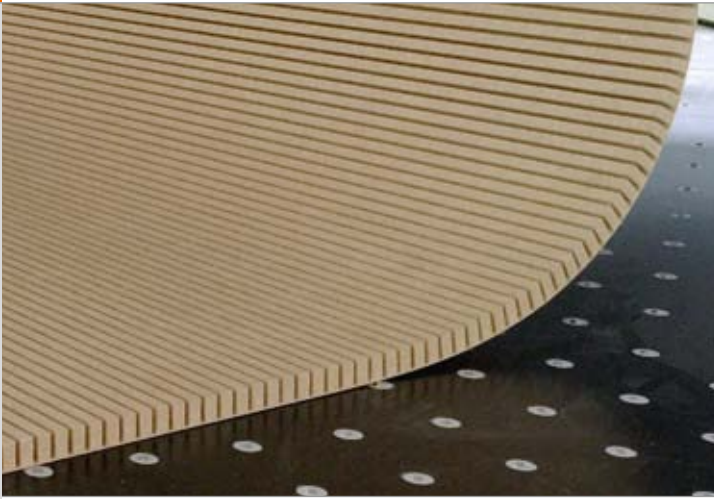


- To be able to operate the CutControl even more easily and effectively, the TECTRA can be equipped with an optional touchscreen. The entire operation of the interface is adjusted for use by touch.
- All operating elements are laid out for ideal operability by mouse or by touch.
- Remote maintenance assistant, video monitoring, USB connection or use of many Windows support programs, as you would expect!

### Perfect data flow in the HOLZ-HER programming network

- Programming
- Sawing
- Edgebanding
- CNC machining





## Bidirectional grooves

Using graphic groove and recess programming, you can create your desired components in the shortest possible time and see the programmed cutting result in real time. For you, this means a significant time gain, thanks to the bidirectional cutting sequence of your HOLZ-HER saw for grooves. Precise grooves are cut in the forward and reverse directions and valuable production time is saved.



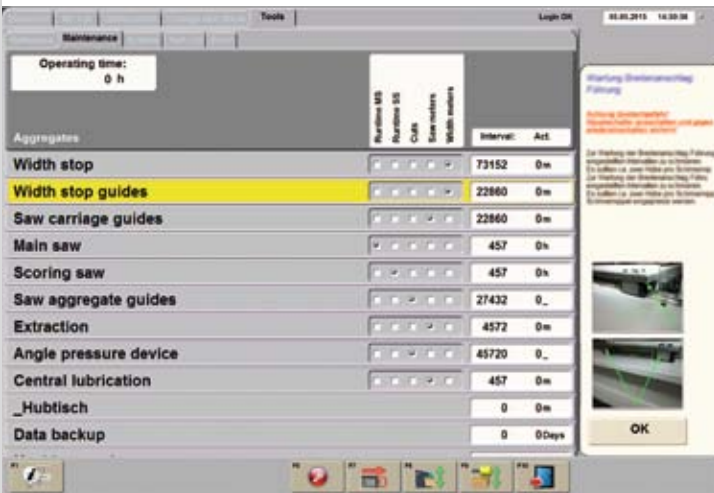
## Labeling system

The labeling module gives you the means of designing labels perfectly matched to your manufacture. Logo, bar code or data matrix code – create your individual label or use a predefined label.



## Remnant management

From cutting to the printing of labels, the whole procedure is completed automatically, during which all remnants are checked in or out automatically. Even remnants that are added or removed manually can be managed seamlessly by the system.



## Maintenance and service wizards

Detailed and easy-to-understand service and maintenance wizards in clear text and as picture guidelines for simplest implementation of all maintenance intervals.



MULTISTORE

## “MultiStore” storage management offers cost savings and efficiency

With the “MultiStore” storage software from HOLZ-HER, you have all panel formats and even remnants firmly under control. You save a significant amount of material and no longer need to carry out time-consuming searches for remnants. Using the mobile “MultiScan” hand-held scanner, simply scan the bar code of the panel and see immediately on the display whether this part is available or if it has already been reserved for another order.

### ■ Remnant management

Fully-automatic check-in and check-out during cutting. Manual check-in and check-out of parts that are required.

### ■ Compartment fill display

The warehouse manages filling of the remnants box independently. You therefore maintain an overview of your operations and save valuable panel material.

### ■ Label printing

Even the labels for remnants can be designed as you require and ensure clear identification of the leftover pieces.

### ■ Bluetooth and wireless communication

The hand-held scanner equips you for future generations; whether Bluetooth or Wifi, the hand-held scanner can handle both platforms.



# TECTRA 6120 power and TECTRA 6120 classic

## Reliable partner for optimum cutting

With the TECTRA 6120 power and TECTRA 6120 classic beam saws, HOLZ-HER has introduced a new era in equipment and precision for cutting for craftsmen and in shops with several individual and stack cuts.

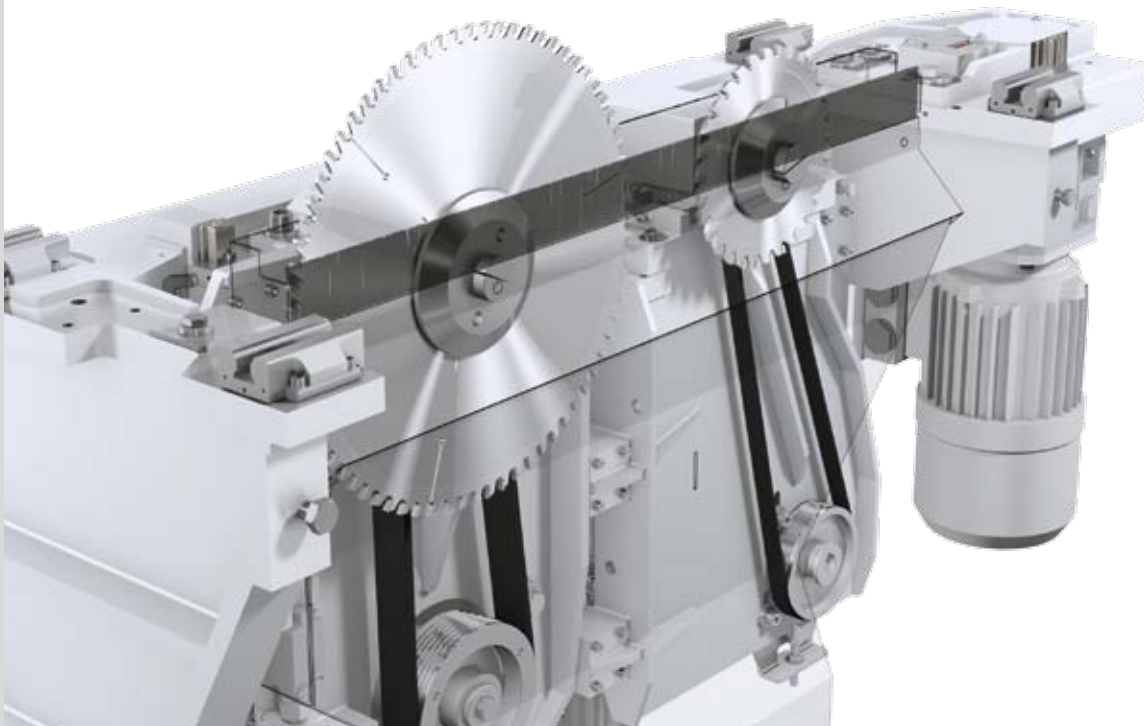
### ■ Saw blade protrusion

The panel cutting saws of the TECTRA 6120 have a saw blade protrusion of 95 mm (82 mm for the classic) and are equipped as standard with a powerful 11 kW motor (7 kW for the classic). For greater performance, particularly for stack cutting, the TECTRA can be equipped with an optional powerful 15 kW drive (11 kW for classic) (Fig.1).

### ■ Intelligent workpiece clamps

The solid clamps are also available equipped with an optional intelligent control for the TECTRA 6120 power. For you, this means better cycle time and cutting quality (Fig. 6).

- Automatic, individual switch-on of the clamps by the cutting plan.  
No damage to the outside panel edges as the size of the workpiece is checked in advance and only the necessary clamps are used for tension.
- Automatic, infinite pressure control using material parameters.
- Safety circuit in the front access area.
- Highest level of safety for you and your machine operators.







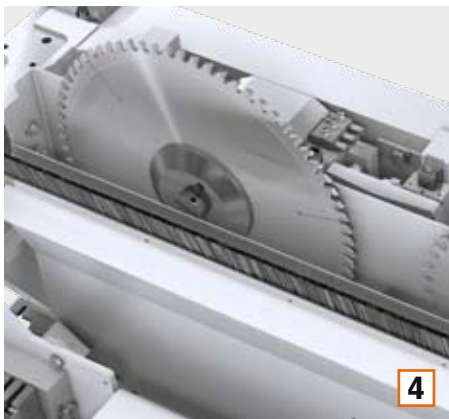
1



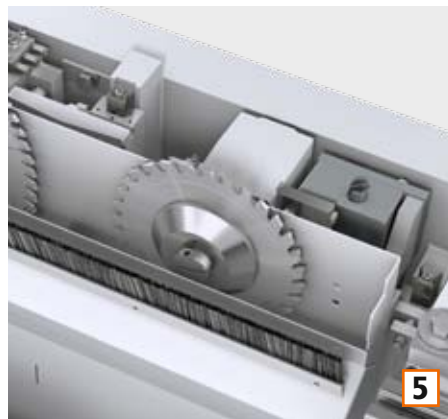
2



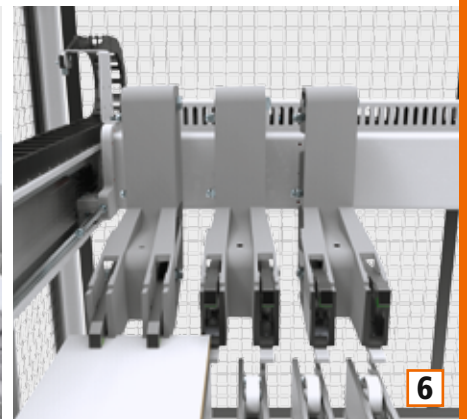
3



4



5



6

#### ■ Electronically positionable scoring saw

The position of the scoring saw on the TECTRA 6120 can be adjusted precisely on the control panel using the two motor-driven positioning axes for height and lateral adjustment. Valuable changeover time is saved in this way and a perfectly cut product is guaranteed (Fig. 5).

#### ■ Electronically positionable grooving unit

The bidirectional grooving unit provides infinite adjustment for groove depths as deep as 30 mm. This function contributes to a significant time saving when manufacturing wide grooves and flexible panels, due to grooving in forward and reverse directions (Fig. 4).

#### ■ Feed speed

Infinitely adjustable feed rates of up to 130 m/min at the saw carriage ensure short cycle times. The solid design of the machine stand, the optimized extraction duct and the precise direct drive ensure optimum, uniformly cut products (Fig. 3).

#### ■ Linear guides

Even in the classic version, TECTRA 6120 provides precision technology with ground linear guides on the saw carriage, on the sawing units and on the rip fence. A direct rack-and-pinion drive and proximity-type sensor for absolute dimensions guarantee maximum positioning accuracy (Fig. 2).



**Only with HOLZ-HER**  
**10 year guarantee**  
**on all linear guides.**



## TECTRA 6120 classic – perfect cutting for craftsmen

### ■ Workpiece clamps

The TECTRA 6120 classic has the first three workpiece clamps assembled closely, specifically for strip cutting. All clamps are mounted floating and can compensate for irregularities in panels/stacks by means of a linear guide (Fig.1).

### ■ Angle pressing device (pneumatic)

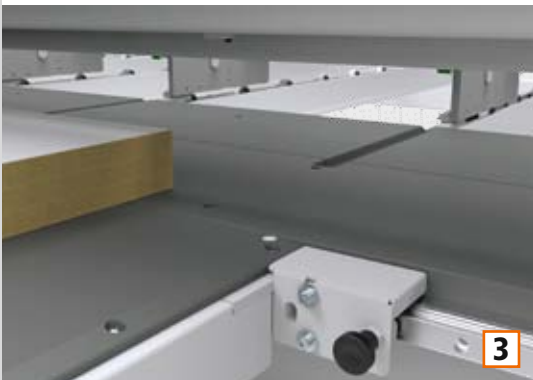
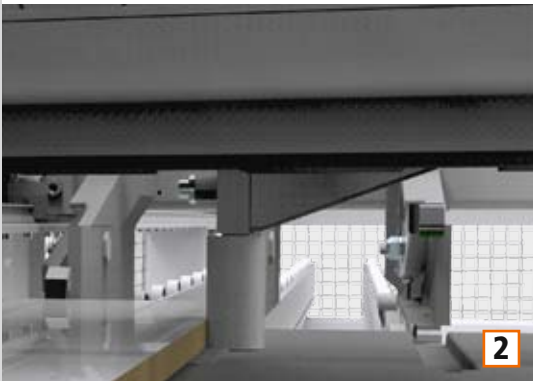
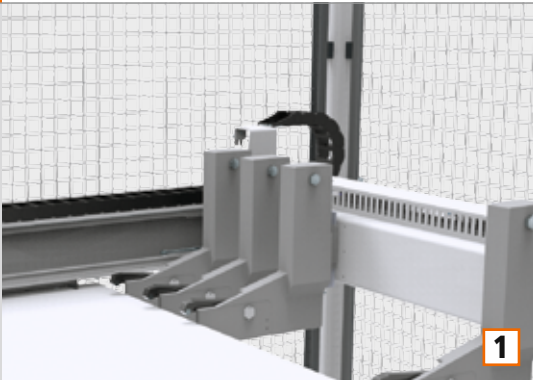
The pneumatically-controlled angle pressing device (up to a maximum of 1,200 mm) holds the workpieces securely and carefully in position, guaranteeing an exact cut, even with long workpieces. Optional program-controlled and route-optimized devices are also available (infinitely up to 1,200 mm). The time saving due to prepositioning is demonstrated in shorter cycle times and increased saw output (Fig. 2).

### ■ Stable support tables

For simple and careful handling of your panel material. When handling heavy panels or stacks of panels, the optional air cushion table is recommended (Fig. 3).

High operating convenience:

Optionally each TECTRA provides movable support tables which can be adjusted easily and precisely on linear guides.





## TECTRA 6120 power – the variable all-round solution for your operations

### ■ Double-finger workpiece clamps

Three double-finger workpiece clamps in the stop area of the TECTRA 6120 power allow narrow strips to be cut simultaneously with maximum stability. The floating type clamps compensate for tension in the panel stack using a linear guide (Fig. 4).

### ■ Angle pressing device (program-controlled)

The program-controlled angle pressure unit with rubberized, ball bearing pressure roller presses the material to be cut against the solid stop guide gently and precisely at right angles to the cutting line. For additional hold in the remnant cutting area, the TECTRA 6120 power can be equipped with the optional TwinPress system, with two rubberized pressure rollers (Fig. 5).

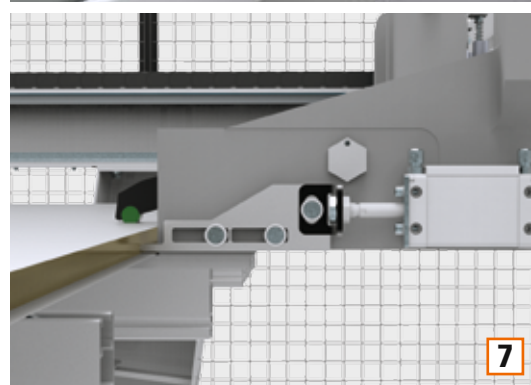
### ■ Solid air cushion table

The air cushioned machine tables ensure easy and gentle handling on the support tables with an air cushion before and after the cutting line. For more space when machining serial cuts, all support tables can be exchanged for the optional 2,400 mm version (Fig. 6).

### ■ Trimming stops

For precise cutting e. g. on unveneered workpieces, optional pneumatically-controlled trimming stops are available (Fig. 7).

Useful extra for the TECTRA 6120 dynamic:  
Additional lateral alignment on roller table for angular layout of narrow and long parts on the extended stop fence behind the cutting line.



4

5

6

7

# Charging and handling systems

## For individual and efficient production

Customer requirements have been changing. Our modern society with its many cultural influences is reflected by highly divergent tastes. Custom solutions, taking the personal lifestyle of the customer into consideration, are the strength of small cabinet-making shops. However economical handling of small batches is also expected from industrial shops today. A variety of decors, veneers and new

types of panel materials poses the problem of storage and effective handling of such material for all shops. HOLZ-HER is your competent partner in this sector and a pioneer for innovative solutions in automation of panel and material handling with very high savings potential. Profit from our expertise and make your production more profitable.

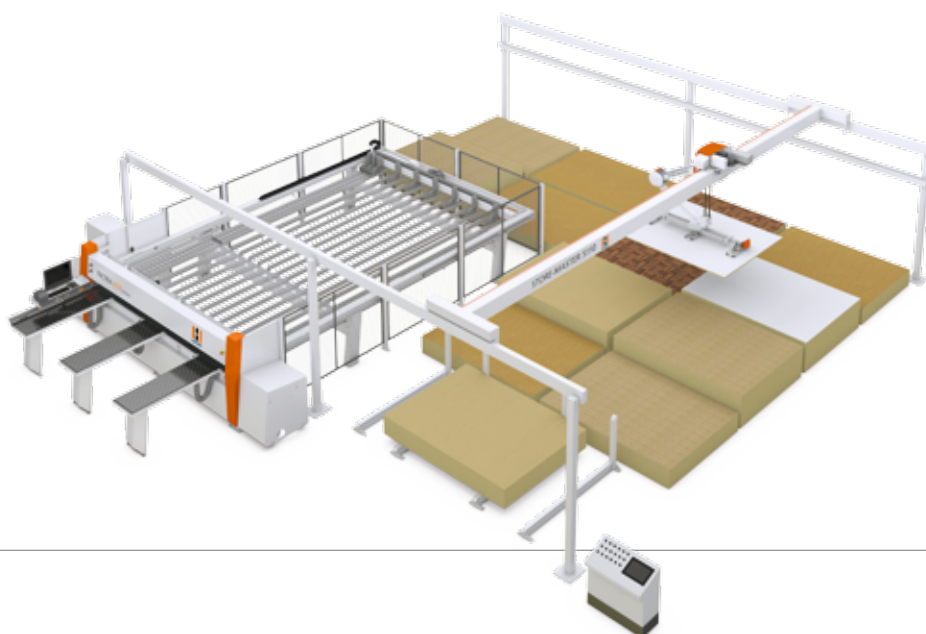






## State-of-the-art and profitable charging of panel cutting saws

HOLZ-HER storage systems offer fully automated and intelligent processes as well as highly efficient use of available storage space. Mature, fully integrated software with chaotic storage management increases production capacity enormously.



## The lift solution for maximum material throughput

Solid scissor-type lifting table for high capacity mass production. The low space requirement and considerable supporting capacity allow high speed processing at high material through-put rates when stack cutting. Select the suitable version for optimum integration into your production process.

# Tool versions of the TECTRA 6120

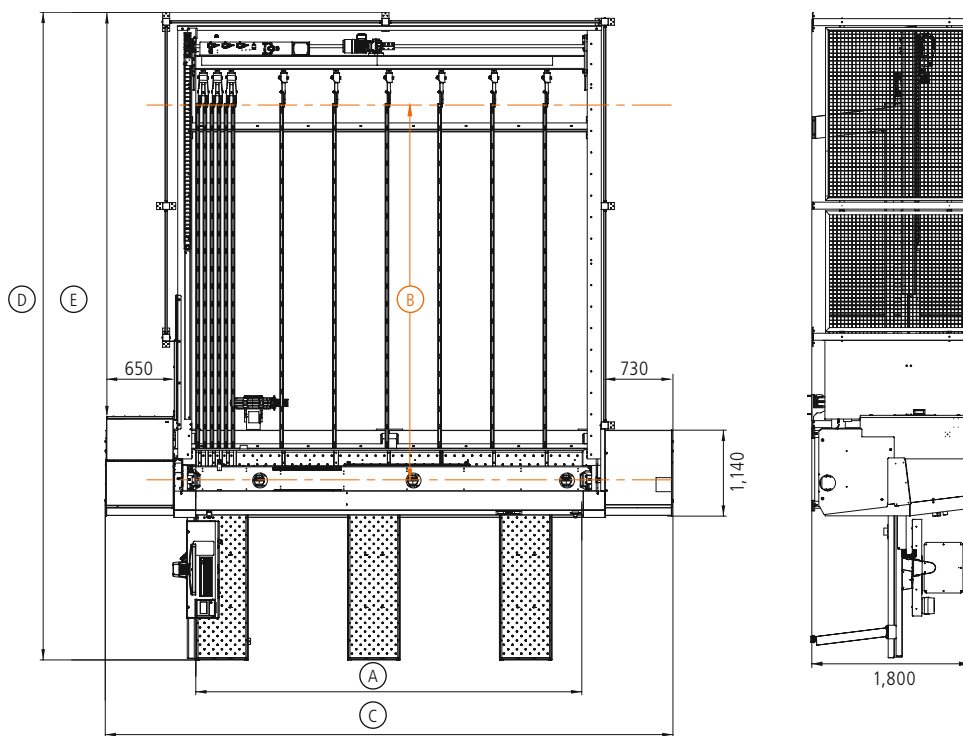
TECTRA 6120	classic	power	dynamic	lift
<b>Machine data</b> Cutting length Cutting width	3,100 mm, 4,400 mm 3,100 mm, 4,250 mm	3,100 mm, 4,400 mm 3,100 mm, 4,250 mm	4,400 mm 6,500 mm	4,400 mm 4,800 mm
<b>Charging</b>	x	Via vacuum storage system	Via vacuum storage system	x
	x	x	x	Via lifting table
	x	Stack aligner	Stack aligner	Stack aligner
<b>Saw blade protrusion</b>	82 mm	95 mm	95 mm	95 mm
<b>Main sawing unit</b>	7.5 kW 350 mm, Dia. saw blade 11 kW Automatic cutting length	11 kW 380 mm, Dia. saw blade 15 kW, Speed control Automatic cutting length	11 kW 380 mm, Dia. saw blade 15 kW, Speed control Automatic cutting length	11 kW 380 mm, Dia. saw blade 15 kW, Speed control Automatic cutting length
<b>Scoring unit</b>	2.2 kW 180 mm, Dia. saw blade x Electronic adjustment	2.2 kW 180 mm, Dia. saw blade Speed control Electronic adjustment	2.2 kW 180 mm, Dia. saw blade Speed control Electronic adjustment	2.2 kW 180 mm, Dia. saw blade Speed control Electronic adjustment
<b>Post-forming</b>	x	280 mm, Dia. saw blade	280 mm, Dia. saw blade	280 mm, Dia. saw blade
<b>Groove cutting equipment</b>	Electronic positioning	Electronic positioning	Electronic positioning	Electronic positioning
<b>Saw carriage feed rate</b> Forwards Backwards	1 – 70 m/min 70 m/min	1 – 100 m/min 130 m/min	1 – 100 m/min 130 m/min	1 – 100 m/min 130 m/min
<b>Rip fence</b> Positioner speed Return speed	25 m/min 100 m/min	25 m/min 100 m/min	25 m/min 100 m/min	25 m/min 100 m/min
<b>Workpiece clamps</b>	3 Band clamps 2 – 6 Pieces x x	3 Band clamps 2 – 6 Pieces Intelligent workpiece clamps Angle cut clamps	3 Band clamps 2 – 6 Pieces Intelligent workpiece clamps Angle cut clamps	3 Band clamps 2 – 6 Pieces Intelligent workpiece clamps x
<b>Angle presser</b>	Pneumatic (1 roll) Controlled (1 roll) x	Controlled (1 roll) TwinPress, controlled (2 rolls) x	Controlled (1 roll) TwinPress, controlled (2 rolls) Lateral aligner in the roller table	Controlled (1 roll) TwinPress, controlled (2 rolls) x
<b>Machine and support tables</b>	Without air cushion With air cushion Additional support tables	With air cushion x Additional support tables	With air cushion x Additional support tables	With air cushion x Additional support tables
<b>Trimming stops</b>	Pneumatically-controlled	Pneumatically-controlled	Pneumatically-controlled	Pneumatically-controlled

Standard

Optional

x

Not possible



	TECTRA 6120 classic   power	TECTRA 6120 classic   power	TECTRA 6120 classic   power	TECTRA 6120 dynamic	TECTRA 6120 lift
Machine dimensions	3,100 x 3,100	4,400 x 3,100	4,400 x 4,300	4,400 x 6,500	4,400 x 4,800
A (Cutting length)	3,100 mm	4,400 mm	4,400 mm	4,400 mm	4,400 mm
B (Cutting length)	3,100 mm	3,100 mm	4,300 mm	6,500 mm	4,800 mm
C	5,160 mm	6,460 mm	6,460 mm	6,460 mm	6,460 mm
D	6,220 mm*	6,220 mm*	7,320 mm*	9,885 mm*	8,650 mm*
E	3,440 mm	3,440 mm	4,540 mm	7,110 mm	5,870 mm
Weight	4,100 kg	4,700 kg	4,900 kg	5,500 kg	6,200 kg

\* with support table 1,800 mm.

## CONTROL

TECTRA 6120	classic	power	dynamic	lift
Screen 16:9	21.5"	21.5"	21.5"	21.5"
	21.5" Touch	21.5" Touch	21.5" Touch	21.5" Touch
Optimization	EasyPlan	EasyPlan	EasyPlan	EasyPlan
	CutControl	CutControl	CutControl	CutControl
	Office package	Office package	Office package	Office package
	HOLZ-HER Orbit	HOLZ-HER Orbit	HOLZ-HER Orbit	HOLZ-HER Orbit
Label system	Printing software	Printing software	Printing software	Printing software
	Label printer	Label printer	Label printer	Label printer
	Bar code scanner	Bar code scanner	Bar code scanner	Bar code scanner

Standard

Optional

Product brochures and many  
videos are available at  
**[www.holzher.com](http://www.holzher.com)**

The technical data specified is intended for reference only. HOLZ-HER woodworking machines are subject to constant development and are therefore subject to modification without prior notice. The illustrations are therefore not binding. Some of the machines shown also contain special equipment not included as a standard feature. For clarity, some of the machines are shown without protective hood.

Picture credits:

»Werbefotografie Weiss«;

»Deutschland, Bayern, München, Männer und Frauen diskutieren im Büro« © Westend61 – Fotolia.com;

»Geschäftsleute in Bürogemeinschaft« © Westend61 – Fotolia.com

**UK** – HOLZ-HER 3410 45 – Printed in Germany/Imprimé en Allemagne  
Printed on: 24.07.2015 – First edition: 06.05.2015

Ihr autorisierter HOLZ-HER-Händler



**HOLZ-HER GmbH**  
Plochinger Straße 65  
72622 Nürtingen  
Germany  
T +49 (0) 70 22 702-0  
[kontakt@holzher.com](mailto:kontakt@holzher.com)  
[www.holzher.com](http://www.holzher.com)

**HOLZ-HER**  
A member of the WEINIG Group