

Edgebanders

CNC machining centers

Vertical panel saws

Pressure beam saws

Material handling



# CNC MACHINING



## EPICON 7135

5 Aches for Maximum Flexibility





Opens up virtually unlimited possibilities for processing wood and synthetic material.

## EPICON 7135

### Perfectly Equipped for All Types of Machining

Investments in state-of-the-art 5-axis technology are vastly rewarding. It can be the only way to achieve maximum precision even with curved or contorted parts. The EPICON 7135 guarantees precise and economical production of furniture even with complex designs.

Step up to the next generation of CNC machining with the EPICON series. The EPICON's flexibility allows optimal equipment to meet your specific requirements for producing furniture, staircases and models as well as processing solid wood.



#### True 300 mm Workpiece Height

Perfect for custom and highly variable processing on panel material and solid wood.



#### 5-Axis Machining Head

Optimized for practical use – and, in combination with the HOLZ-HER Bluetooth "ChipControl", ready for data logging and spindle monitoring.



#### VISE LED Table

The ingenious solution for quickly setting up the console table, thanks to HOLZ-HER Visual SETting – even with rotating suction cups.



#### SynchroDrive Table

for optimum convenience. Synchronous, movable suction cups and consoles position themselves to fit any workpiece under software control.



## The Power Package in 5-Axis Technology

The EPICON opens up a completely new dimension for production in craft shops and industrial applications in the field of wood and synthetic processing. The heart is the compact, gimbal-mounted 5-axis head allowing completely free spatial motion. State-of-the-art drives and control technology delivers endless possibilities.

The gimbal-mounted processing head guarantees precise production of furniture, staircases and shaped components with complex design. The compact, powerful and fully interpolating machining head operates at speeds up to 24,000 rpm; its ceramic bearings and liquid cooling allow it to work under extremely high loads.

The special feature of the 18 kW spindle is the PRO-TORQUE technology, that automatically locks the A and C axes mechanically, resulting in extremely high stability to facilitate the use of increased torque at the spindle.

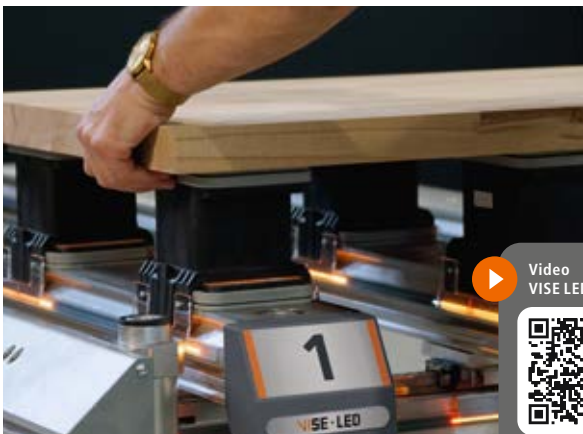
- 5-axis head, A and C axes can be rotated in an interpolating manner  
A axis:  $\pm 180^\circ$ , C axis:  $\pm 360^\circ$ .
- 13 kW Power Spindle as standard equipment.
- 18 kW PRO-TORQUE Power Spindle (Upgrade).
- HSK 63 F tool collet with unit interface.
- Z stroke 565 mm, true 300 mm workpiece height.



A selection of three console tables requiring minimum space and offering maximum flexibility.



## 1 HIGHLY FLEXIBLE TABLE CONCEPTS

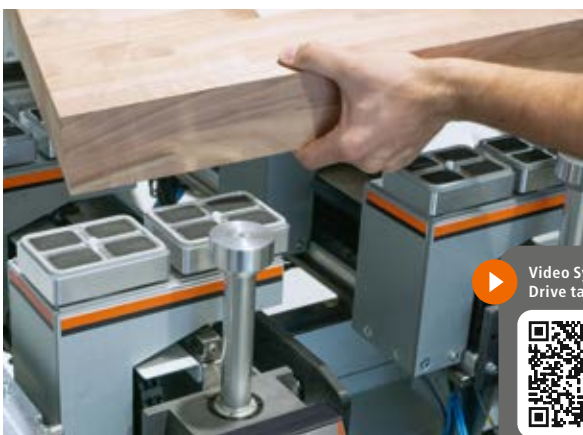


Video  
VISE LED table



### VISE LED Table

The HOLZ-HER LED table with Visual Setting ensures extremely fast, reliable set-up while eliminating machining errors. The calculated positions for the consoles and suction cups are indicated by colored LED strips and the type of suction cup is accentuated by the matching color code. Indicating the rotation angle of rotary suction cups is so easy, making it simple to position the suction cups for free shaping.



Video Synchro-  
Drive table



### Synchro-Drive Table

The SynchroDrive table moves all consoles and suction cups fully automatically in seconds and with maximum precision to the positions specified in the software or by the operator. Simultaneous positioning of all suction cup assemblies and consoles ensures that the SynchroDrive table can be set up in seconds with maximum precision for each workpiece.

## SIMPLE IMPORT FROM ALL COMMON 5-AXIS CAD/CAM SYSTEMS

Even complex 5-axis machining operations can be implemented without issues using the open and simple connectivity to three-dimensional CAD/CAM programs.

Moreover the recognized, versatile CAMPUS software package ensures simple programming of even complex parts thanks to the abundant macros and help features present, such as Easy-Snaps, free levels, auxiliary geometries and much more. In addition to furniture parts, all the parameters for structural elements such as doors can be generated easily with just a few clicks.

## DXF PROFESSIONAL DXF IMPORT

Professional DXF import of components allows workpieces to be positioned on the work center directly from CAD. The only prerequisite for this is a matching layer in the design software.

## 2 VIACOCKPIT

Machine monitoring from HOLZ-HER:  
Allows you mobile access to check your production on the go!

### viaMonitor

For monitoring and evaluation.

### viaCondition

Optimizes machine utilization.

### viaOrder

Provides an overview of your production progress.

### viaMaintain

Notifies you when service is due.

### viaNotify

Reports any faults.



### 3 IMPRESSIVE HARDWARE FEATURES

The large dynamic range and high performance of the powerful, liquid-cooled 13 kW milling spindle, ensures optimum milling results and short cycle times. For extremely high machining performance the EPICON 7135 can also be equipped with the 18 kW PRO-TORQUE spindle.

The drilling unit, provided as a standard feature, is ideal for drilling rows of holes and machining grooves in the rear walls of furniture and structural designs. A second grooving saw and additional horizontal drills are available as options.

The optional cantilever extension for the EPICON 7135 offers even greater flexible 4-field machining.

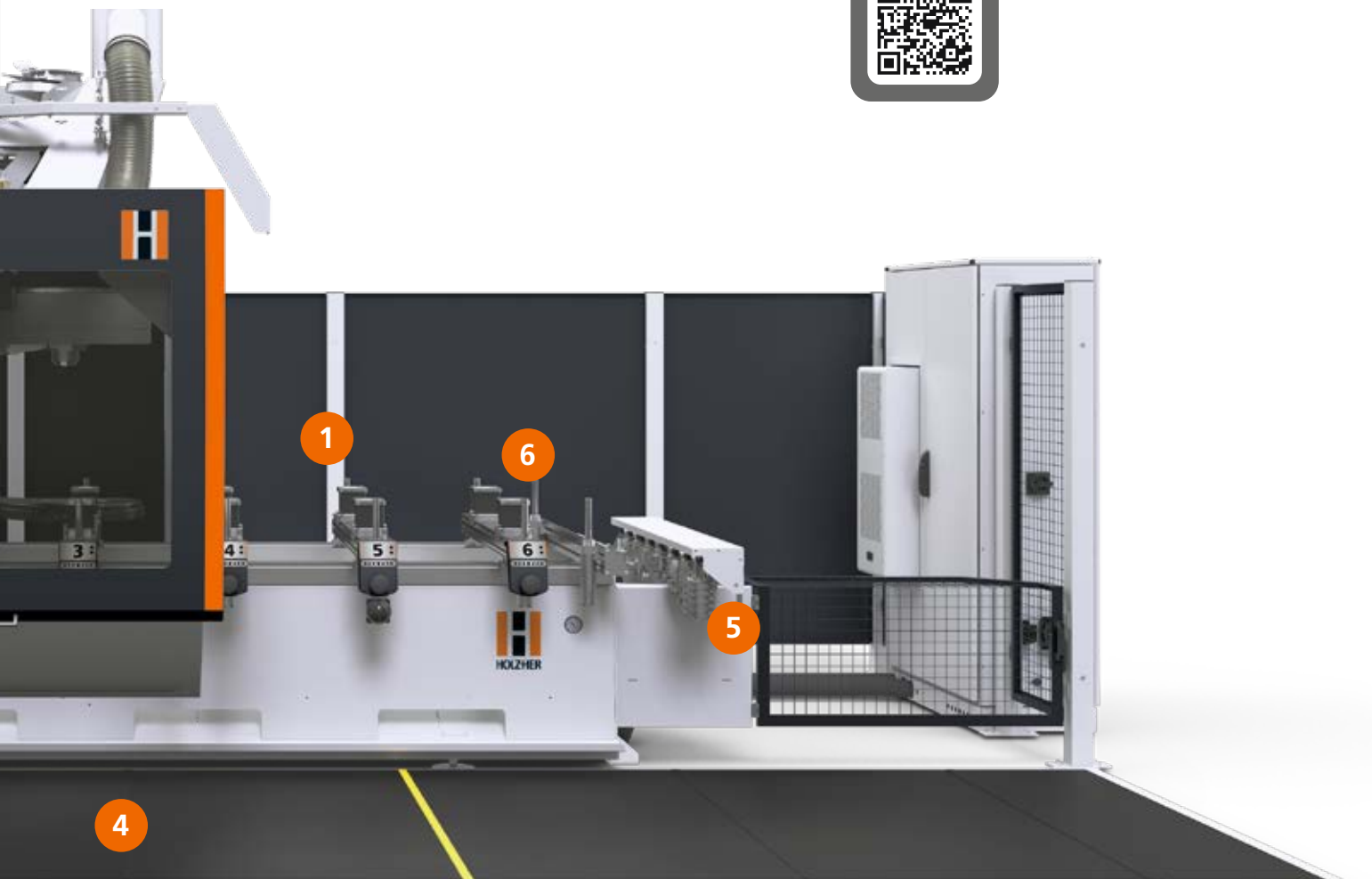
### 4 PERSONNEL SAFETY

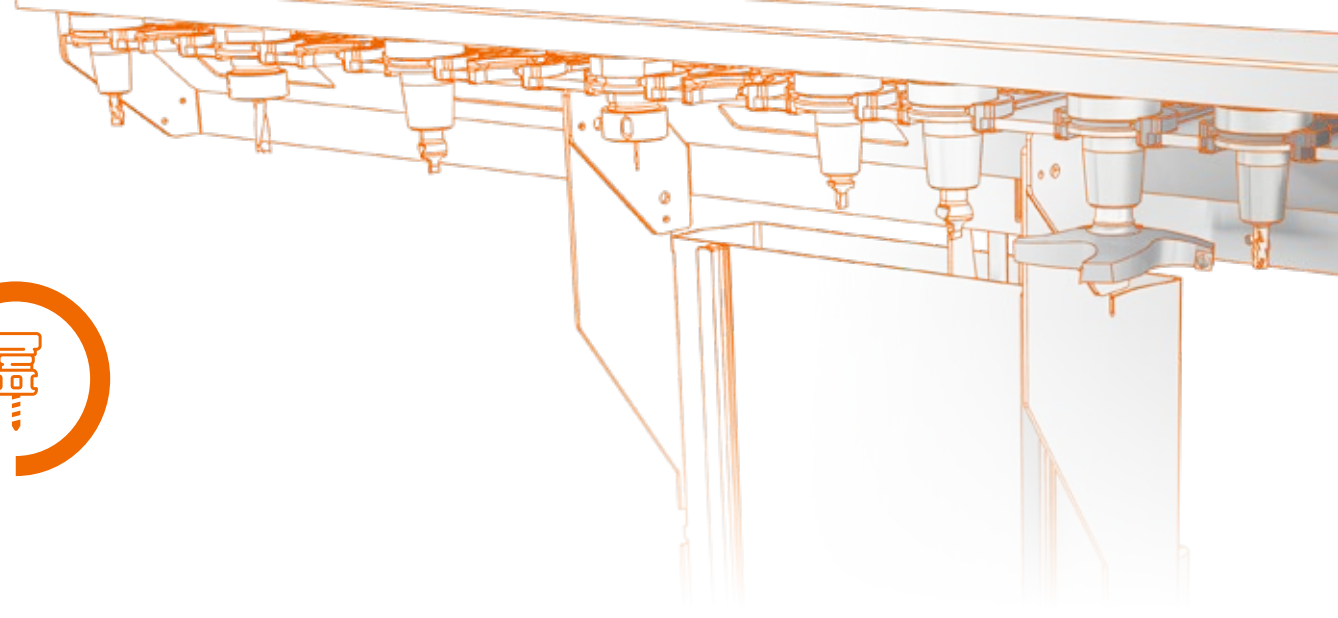
Extremely robust 3-field safety shut-off mats for maximum safety and flexibility during pendular processing..



### SAFE DETECT

The space above the machine table as well as the area in front of the machine is monitored for perfect all-round protection. State-of-the-art sensor technology offers safety and freedom of motion for the operator thanks to automatic human detection with distance control. Removing the need for safety mats, bumpers or light beams.





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## AUTOMATIC TOOL CHANGING OPTIONS

The EPICON can be equipped with a variety of automatic tool changing options for highly varying applications. The traveling disk tool changers for 18 tools guarantee short chip to chip times when changing tools.

Or, in addition, you can choose a traveling changer for saw blades with a diameter of up to 350 mm. The lateral, linear changer for 14 or 24 tools offers even more space for additional tools.

## CLEVER SETUP AIDS

When positioning a workpiece the machine software immediately generates a suction cup recommendation. This feature allows you to position the consoles and suction cups quickly and precisely using the laser pointer. When machining complex workpieces with rotated suction cups, the optional ceiling laser provides support by specifying the ideal position for cambered workpieces and arches.



## UNIVERSAL CLAMPING SYSTEMS

The variety of clamping systems available make the EPICON Series suitable for universal applications. Whether furniture components and doors in alternating operation or in component production – the HOLZ-HER EPICON ensures perfect adaptability.

- Frame clamps for straight and chamfered parts.
- Also for large cross-sections and maximum chip removal.
- Can be controlled individually or in groups.
- Also available as upgrade.



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|  | EPICON 7135  |
|--|--|
| Machining dimensions<br>in X-direction<br>in Y-direction | 3680 / 4580 / 5480 / 6380 / 7280 mm<br>1500 mm   |
| Vector speed   | 131 m/min  |
| Cutter unit  | 13 kW, liquid-cooled, 1,000–24,000 rpm   |
|  | 18 kW, liquid-cooled, 1,000–24,000 rpm   |
|  | ChipControl, Bluetooth spindle sensor  |
| Drilling head S  | <b>Drilling head S</b><br>14 Spindles (10 V   4 H), incl. sawing unit in X direction   |
|  | Second double drilling spindle in X direction  |
| Drilling head L/XL                                       | <b>Drilling head L</b><br>21 Spindles (15 V   6 H), incl. sawing unit in X direction   |
|  | <b>Drilling head XL</b><br>31 Spindles (25 V   6 H), incl. sawing unit in X direction  |
|  | Second double drilling spindle in X direction  |
|  | Third double drilling spindle in X direction   |
|  | Additional sawing unit in Y direction  |
| Workpiece support  | 6 Consoles, pneumatically clamped, 1 stop bolt each front and rear<br>2 Suction cups 115 x 140 x 125 mm                                      |
|  | WISE LED table, display for consoles and suction cups as well as type of suction cup and rotation angle in 15° increments using colored LEDs |
|  | Synchro-Drive Table, fully automatic, software-controlled machine table for synchronous positioning of consoles and suction cup assembly     |
| Safety equipment   | Safety shut-off mat  |
|  | Safe Detect – variable safety system using sensors   |
| Workpiece clamping                                       | 100 m³/h vacuum pump, dry-running version  |
|  | Additional, dry-running vacuum pumps   |
| Tool changer   | Traveling magazine (plate) for 18 tools in X direction   |
|  | Single magazine for large diameter saw blades up to 350 mm   |
|  | Linear pick-up for 14 tools or disk pick-up for 24 tools, permanently installed on right side of machine                                     |
| Software   | CAMPUS software, machine license incl. aCADemy CAD/CAM module  |
|  | CAMPUS 3D – Material removal simulation  |
|  | Campus software office license   |
|  | 5-axis simultaneous cutting  |
| Machine monitoring                                       | viaCockpit   |

Standard
  Optional
  x Not possible

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The technical data are guide values. We reserve all rights to changes in design and equipment, because HOLZ-HER machines are subject to continuous development. Illustrations 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.  
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