



## A Solution to Suit All Applications

The EVOLUTION series consists of high quality components with stable design. Regardless of whether you use the EVOLUTION 7402 or the power version, the EVOLUTION 7405 4mat. There is a CNC machine for every user to satisfy custom requirements. The 7402 is laid out for format milling on 4 sides and is suitable for standard machining operations such as construction and anchor holes. The additional equipment with Quattro HSK package makes the 7402 even more versatile thanks to the 4 position tool changer and 10.3 kW HSK chuck.

The integrated 6-fold tool changer makes the 7405 4mat capable of even more. The application possibilities are virtually unlimited.

This model is suitable for all shops requiring a flexible machine for complex carcass and internal construction. In addition, an X/Y tool changer for using a special angle gear is integrated into the Connect equipment

- 4mat – complete machining on all 4 edges of the workpiece.
- Innovative vacuum clamping concept with recognition of through holes.
- EcoMode – for intelligent energy management.
- Completely equipped drilling unit for maximum drilling power.
- High precision servo direct drives on all axes.
- User friendly CAMPUS software package with process simulation and design software.

	EVOLUTION 7402 4MAT	EVOLUTION 7405 4MAT	EVOLUTION 7405 CONNECT
Machining Dimensions in mm Max.:	2,500 x 920 x 70 (without additional support) 200 x 70 x 8	3,200 x 1,170/970 x 70 (without additional support) 200 x 70 x 8	3,200 x 1,170/970 x 70 (without additional support) 200 x 70 x 8
Min.:			
Max. Machining in X Direction without Reclamping	1,000 mm drilling and cutting width	1,500 mm edge routing (minus radius of cutter)	
	1,000 mm for complete machining	1,500 mm for complete machining	
Drilling Head	15 spindles (9 V   6 H), incl. sawing unit for grooving in X-direction		
XL Drilling Head	19 spindles (13 V   6 H), incl. sawing unit for grooving in X-direction		
	Double drilling spindle in Y direction		
	Vertical adapter with double positioning force		
Cutter Unit	5.6 kW, with collet chuck 1,000–18,000 rpm	x	
	10.3 kW, HSK chuck, 1,000–24,000 rpm (Tool change at the touch of a button)	10.3 kW, HSK chuck, 1,000–24,000 rpm	
Tool Changer	Quattro HSK, tool changer package for 4 tools	Linear changer for 6 tools	
	x	X/Y tool changer	X/Y tool changer
Max. Tool Dimensions	dia. 100 mm, Length 80 mm	dia. 110 mm, Length 80 mm	
Run-in Linear Guide	Height adjustable for 4-sided edge routing and profiling		
Vector Speed	68 m/min		
Safety Equipment	CE compliant		
Workpiece Support	Solid rollways incl. stops	Solid rollways incl. 2 stops	
Workpiece Clamping	Automatically positioning vacuum system	Fully automatic positioning of suction cups	
Energy Management	ECOMODE   ECOVAC		
Software	CAMPUS / NC-Hops incl. aCADemy CAD/CAM module with machine license		

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. 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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## EVOLUTION 7402 | 7405

CNC Precision in Smallest Space



## EVOLUTION SERIES

### Compact and Precise CNC Machining

It would be really difficult to imagine rational production without CNC machining centers, even in smaller carpentry workshops. There is room for such machines even in the smallest of spaces. The EVOLUTION series is a full value CNC machining center for complete vertical machining requiring less than 5 m<sup>2</sup> of floor space.



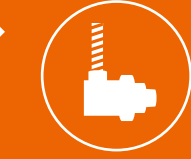
The EVOLUTION Operates Efficiently, with Maximum Precision and Meets All my Requirements.



**4mat**  
Formatting on all 4 workpiece edges and surface machining.



**Connection Technology – Free Choice!**  
Everything with one clamping operation. State-of-the-art connection technology with the EVOLUTION tool packages.



**Doors Ready**  
The door package: Cuts lock box and hinges.



**xcut**  
Optimum utilization of cut panel strips for carcass production.



**XL Passage**  
Enlarged passage for workpieces with height of up to 1,200 mm on 7405 4mat or connect.



EVOLUTION 7402 –  
VERSATILITY IS ITS STRENGTH

The new EVOLUTION 7402 4mat provides a top quality CNC machining center, allowing you to profit from 4-sided forming. This drilling and forming centre includes a powerful 5.6 kW spindle as a standard feature, making it perfectly equipped for cutouts and pockets.

The EVOLUTION 7402 4mat can also be equipped with the optional Quattro HSK package with 10.3 kW spindle and tool changer for 4 tools allowing you greater flexibility for custom designs in the smallest space. A fully equipped drilling head including grooving saw is also available. The EVOLUTION 7402 4mat offers you complete CNC machining.

**Simple to Program**

The complete CAMPUS EVOLUTION software package with process simulation.

**Extreme Machining Dimensions**

Height up to 920 mm and virtually unlimited length.

**4mat – 4-Sided Forming**

Complete forming on all 4 edges of the workpiece.

**Fully Equipped Drilling Head**

With up to 22 drilling spindles and grooving saw with optional XL drilling head.

**Quattro HSK Package (optional)**

High performance 10.3 kW cutter unit and tool changer for 4 tools.


**Perfect Access**


Generous machine door with free view of machining process and easy access.

**Innovative Vacuum Clamping Concept**

Automatic suction cup positioning, ideal for highly differing and sensitive materials.

Video EVOLUTION 7402





FREE SELECTION OF  
CONNECTION TECHNOLOGY

Perfect, completely milled and drilled workpieces for highly varying connection technologies are no problem for the EVOLUTION. The Connect Package also allows pockets to be milled for state-of-the-art furniture connectors without reclamping. These can be cut on all four edges as well as on the surface in the X and Y directions. The EVOLUTION has been supplemented with matching programming macros to make programming even simpler.



- Quattro HSK Package 7402**
- 4-position tool changer
  - 10.3 kW milling spindle
  - Optional lock box milling unit
  - Campus macro for Lamello Clamex pockets



- Connect Package 7405**
- 1 X/Y tool changer
  - EVOLUTION angle gear for Lamello Clamex cutouts
  - Original Lamello P system tool set
  - Campus macro for Lamello Clamex pockets

CAMPUS SOFTWARE – SUITE

The Campus software package is an integral part of the machine concept. The HOLZ-HER machine control thus provides the perfect prerequisites for convenient operation and efficient machining.

**NC-Hops**

In addition to variable programming, 3D views and simulations, the NC-Hops editor offers full Z-axis interpolation and a text editor.

**aCADemy**

CAMPUS aCADemy is a full-fledged, high-performance CAD/CAM software package with versatile import features.

**DXF Import**

Simple, direct transfer of DXF files to machine software in defined layers.

**Process Simulation**

Virtual workpiece program check before machining.

XCUT PACKAGE

With the xcut package the vertical CNC machines automatically produce the required workpieces from panel strips previously cut in the longitudinal direction. This xcut mode completely eliminates cross-cuts otherwise required. The xcut software lists all pending jobs on the machine monitor. This provides the machine operator with a perfect overview of all jobs and the required strip material.



- xcut Software Package**  
Including CabinetSelect with over 400 pre-programmed pieces of carcass furniture. Custom adaptation with CabinetControl Pro.
- Workpiece Database**  
Warehouse including CSV interface and sorting feature for strip optimization.
- Laser Measurement**  
Automatic measurement of strip width and length with remnant recognition.
- Automatic Formating**  
Length and width forming with X and Y milling.
- Part Marking**  
Simply scan workpiece programs and mark using optional barcode scanner and Easy Label printer with labeling software.

**Simple to Program**

The CAMPUS EVOLUTION software package with process simulation.

**Generous Machining Dimensions**

Drilling up to 1,170 mm and milling height up to 970 mm, with virtually unlimited length.

**xcut Table**

Extended feed table for secure guidance of long panel strips.

**XL Passage**

The increased passage dimension of 1,200 mm makes it even more versatile.

**4mat – 4-Sided Formating**

Complete forming on all four workpiece edges.

**Extremely Versatile**

Thanks to standard tool changer for 6 tools including 10.3 kW HSK cutter unit.

**Fully Equipped Drilling Head**

With up to 22 drilling spindles and grooving saw with optional XL drilling head.

**Fully Automatic Suction Cup Positioning**

Provides secure, material-friendly hold on any material.


**Ergonomic Control Concept**

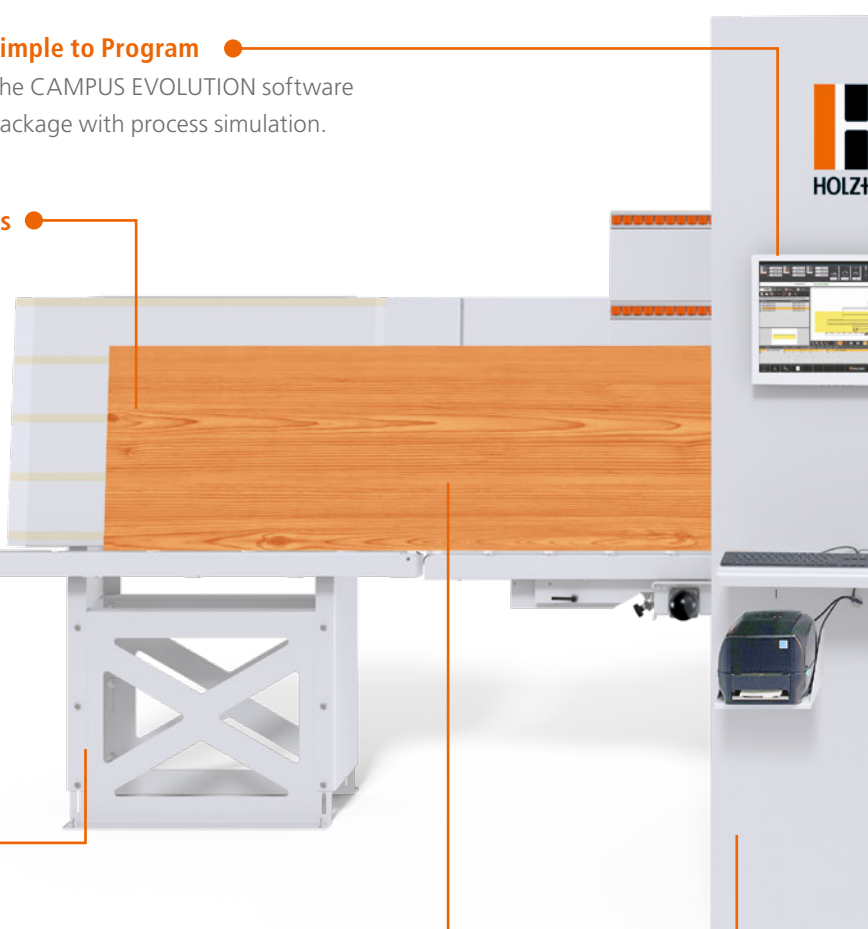
Vacuum activation with mushroom-shaped button.

**Perfect Access**

Generous machine door with free view of machining process and easy access to tool changer.

Video EVOLUTION 7405





EVOLUTION 7405

The EVOLUTION 7405 4mat is an extremely flexible CNC machining center for a very wide range of materials and machining processes. Unique in its class, it offers absolutely precise edge routing on all four workpiece edges and thus complete formatting for panel material. Possible material thicknesses from 8 to 70 mm mean the vertical machining centers are all-rounders. The thickness adaptation is completely automatic.

Panels weighing up to 75 kg can be machined easily. The versatile 7405 4mat includes a tool changer for 6 tools with diameter up to 110 mm and a 10.3 kW spindle with HSK chuck. The EVOLUTION is a full-value CNC machine perfectly suited for production of carcass furniture as well as machining counter tops and many other applications.



**With HOLZ-HER Quality Guarantee!**  
High quality components ensure maximum precision and reliable operation for years. Optimized, extremely rigid machine and traveling columns for excellent machining results. This allows HOLZ-HER to offer a 10 Year guarantee on all linear guides.