



**3D VARIOPRESS® LINES** 

Wemhöner 3D VARIOPRESS® Lines  
set the standards. Worldwide.



## WEMHÖNER SURFACE TECHNOLOGIES

Technology, quality, innovation – these are the three pillars in the success story of Wemhöner over more than 85 years. Traditionally linked with the wood based panel industry, the furniture industry and their suppliers, around 300 employees produce machines and equipment for value adding of wood based panels.

New technologies are developed at the highest level and quality standards are optimised at the headquarters in Germany, always in close cooperation with the customers. Wemhöner sets standards with its short-cycle and throughfeed press lines, 3D VARIOPRESS® systems, lightweight panel equipment, digital- and direct printing and lacquering equipment. Worldwide.

Wemhöner provides complete system solutions which guarantee optimal production processes and reliable production, due to the perfect combination of technology and the company's decades of engineering experience.

Headquartered in Herford, Germany since 1925: Wemhöner Surface Technologies.





The plant in Changzhou, China.

The international focus and the continuous efforts to create new ideas are the reason for the global success of Wemhöner Surface Technologies. Wemhöner (Changzhou) Machinery Manufacturing was founded in 2006 with the intention to be present in the most important future market for the production of furniture.

Since the summer of 2007 the first factory outside Germany has been in operation. Until today, more than 35 3D Eagle press lines have been produced for the Chinese and international market. In 2008 the first throughfeed press line was built. Short-cycle press lines and lightweight panel equipment expand the portfolio of Wemhöner Changzhou since 2009. As a result of this success in China, the production area was doubled to 6,000 m<sup>2</sup> in 2010.

Due to the headquarters in Europe and its additional facility in China, Wemhöner is well prepared for the future and is able to react immediately on growing trends in established markets, but first of all to break into emerging markets. That makes the state-of-the-art technologies from Wemhöner available for customer's worldwide.



## WEMHÖNER IN THE THIRD DIMENSION

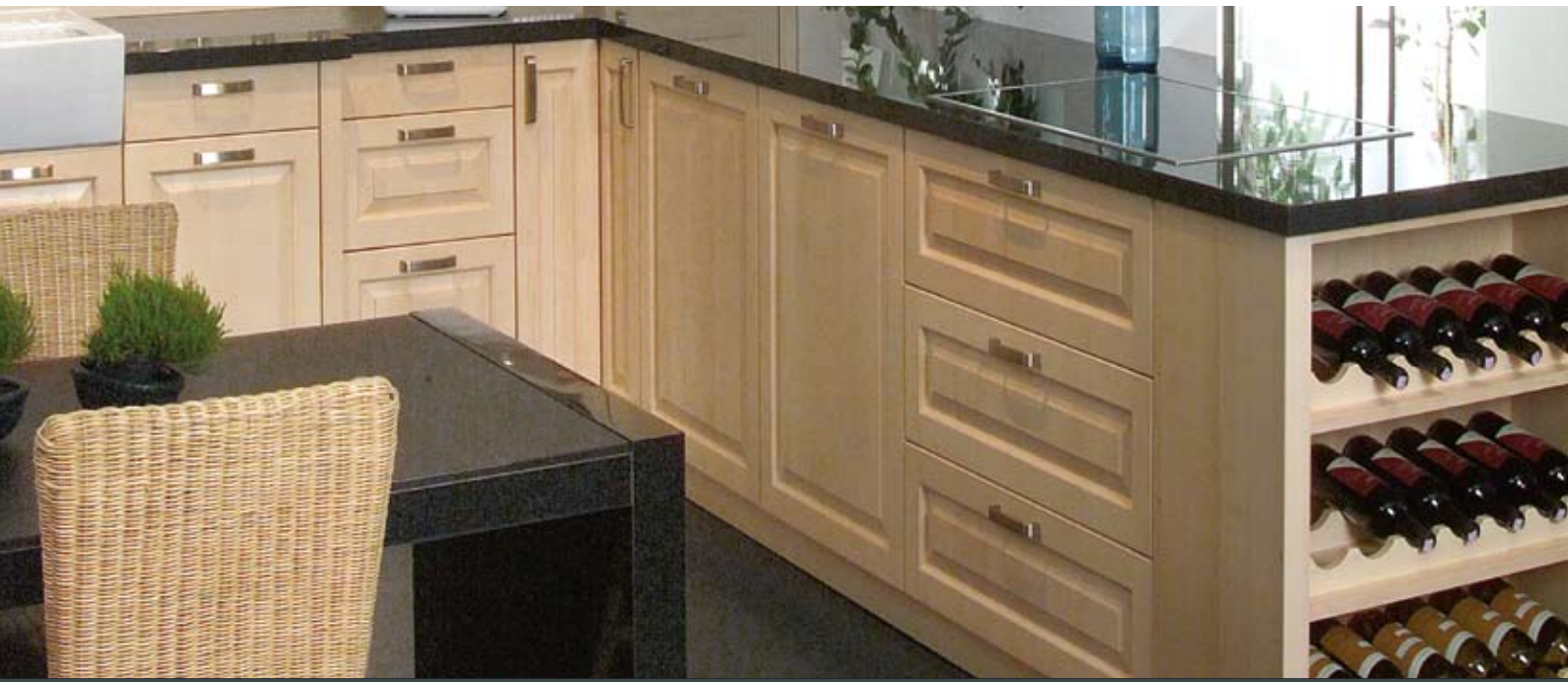
From antique cabinets to kitchen furniture, from early 20th-century industrial production to modern high-tech kitchens, distinctive 3-dimensional elements from every era give furniture fronts an individual character and accentuate their value. Years ago this kind of production required a high level of craftsmanship and was slow and costly. Today's 3-dimensional machining of wood material surfaces and subsequent pressing of thermoplastic foils or veneers offer the ideal basis for a newfound freedom in designing 3D furniture fronts and other applications.

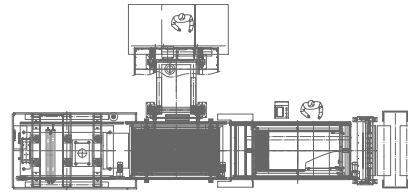
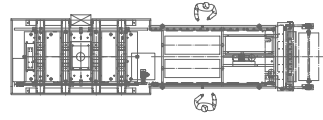


Wemhöner Surface Technologies used its decades of experience in other laminating fields to develop the VARIOPRESS® systems. Various Wemhöner patents secure the company's leadership in the field of 3D press technology and set standards worldwide for the entry-level models as well as the completely automated lines. You will be impressed by the high flexibility in the use of substrates and laminating materials, short set-up times, high productivity for small and large volumes and the quality of the end-product.

Wemhöner VARIOPIN®: the highlight in equipment options of Wemhöner 3D VARIOPRESS® lines. The patented automatic pin system recognises the form and size of the workpieces and automatically lifts it. No more manually inserting jig boards.

Neat solutions by Wemhöner for curved doors: In the past Wemhöner has built many 3D VARIOPRESS® lines with special equipment for reliable lamination of extreme concave and convex curved furniture components. All three models of the VARIOPRESS® range receive bigger press openings, extended hydraulic cylinder stroke and higher lay-up frames. All this offers major capabilities in the production of curved furniture fronts.





# WEMHÖNER VARIOPRESS® BASIC 1000 BASIC PLUS

The VARIOPRESS® Basic 1000 and Basic Plus provide entry-level to the Wemhöner 3D lamination technology with an outstanding value for money. The highly flexible individual units are ideal for small volumes and single pieces, such as for shopfitting, boat construction or construction of individual components. Highly complex press techniques are reduced to pure simplicity. The Basic 1000 can be expanded to meet growing demand. You can select either one- or two-tray infeed systems.



## TECHNICAL DATA

### Application:

3D surface finishing of wood based panels such as MDF with thermo-plastic foils or other suitable surface materials. Optionally with or without membrane.

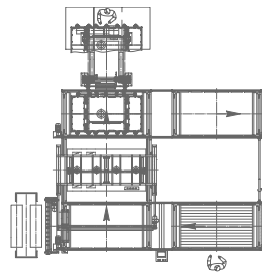
### Products:

Furniture doors and components.  
Custom-made products.

### Dimensions:

From 2.800 x 1.500 mm  
to 3.500 x 1.550 mm.  
Chamber pressure 6 bar.





For 3D applications with moderate capacity, Wemhöner recommends the use of the VARIOPRESS® Universal 2000, which covers all application areas including curved doors or veneer laminating. Larger capacity needs can also be met with the diverse automation options for MDF and foil feeding, variability in feeding 1 to 4 trays in L-, T- or U-type shuttle design and integration of a turn-over system in combination with the VARIOPIN® system.

## WEMHÖNER VARIOPRESS® UNIVERSAL 2000

### TECHNICAL DATA

**Application:**

3D surface finishing of wood based panels such as MDF with thermo-plastic foils or other suitable surface materials. Optionally with or without membrane.

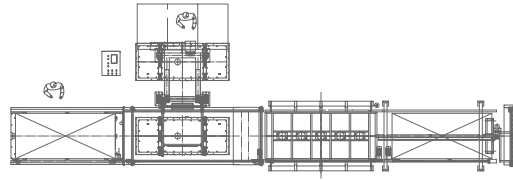
**Products:**

Furniture doors and components.  
Custom-made products.

**Dimensions:**

From 1.500 x 2.800 mm  
to 1.550 x 2.850 mm.  
Chamber pressure 6 bar and 8 bar.





## WEMHÖNER VARIOPRESS® PROFESSIONAL 3000

The highlight of Wemhöner is the VARIOPRESS® Professional 3000. All technical accessories and custom-made equipment can be integrated into this line: automatic MDF feeding, the VARIOPIN® support system, charging system with vertical tray rotation on two levels with up to eight trays, foil feeding via paternoster for high-performance lines with automated foil roll storage system and customised storage management, as well as automatic turn-over systems including linking with trimming and/or brushing machines. In this way, the VARIOPRESS® Professional 3000 combines the know-how of Wemhöner in 3D laminating technology and sets worldwide standards in the manufacturing of foil-laminated furniture elements with the highest demands on quality and capacity. The Professional 3000 is available as a 3D throughfeed press line, too. E. g. for the production of veneered raised and fielded door panels.

## TECHNICAL DATA

### Application:

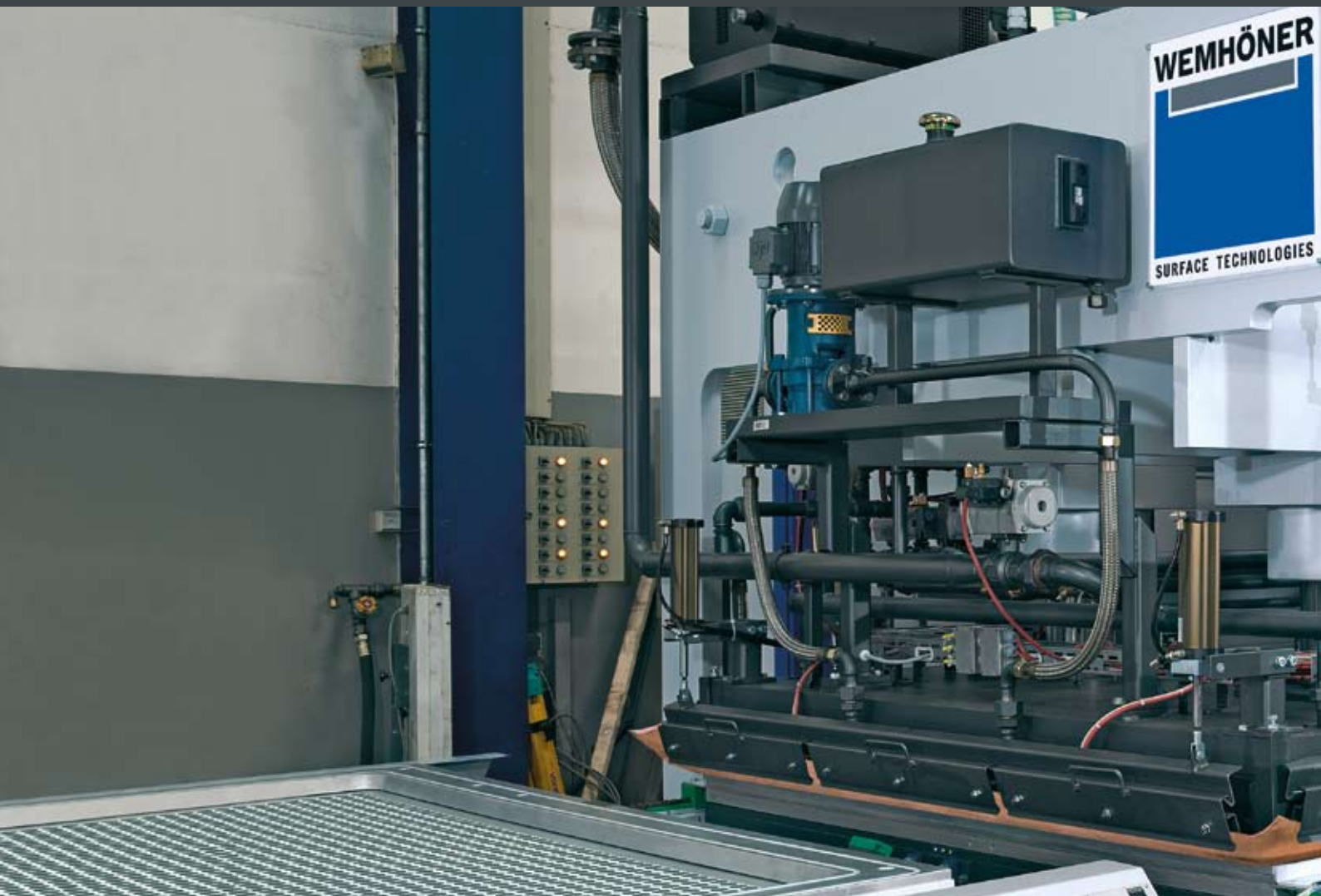
3D surface finishing of wood based panels such as MDF with thermo-plastic foils or other suitable surface materials. Optionally with or without membrane.

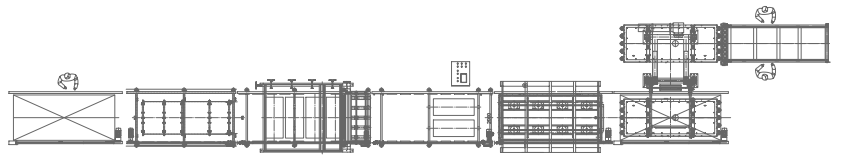
### Products:

Furniture doors and components.  
Interior doors.

### Dimensions:

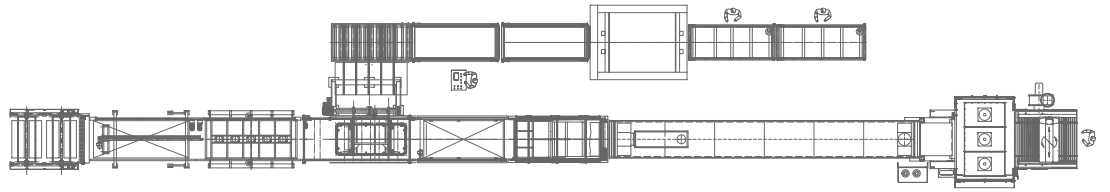
From 3,400 mm x 1,500 mm  
to 4,800 mm x 1,900 mm.  
Chamber pressure 6 to 18 bar.





The 3D throughfeed press line is used to laminate real wood veneers onto profiled door panels in single- or double-side mode.





## MAXIMUM AUTOMATION

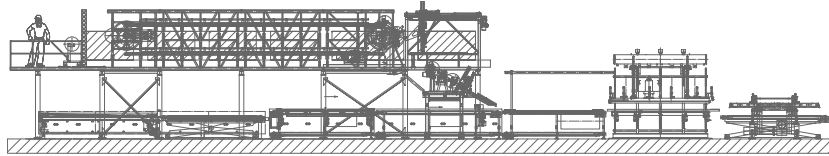


### 1. Tray Belt Lay-up Device

Automatic transport of dried MDF batch from glue spraying line onto the pin tray. Available in a fixed and moveable version or transport of batch by gantry loader with vacuum unit.

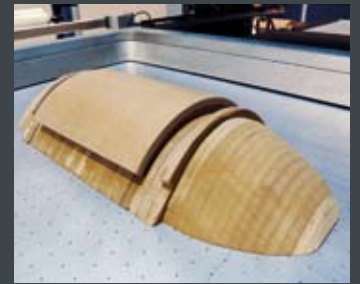
### 2. Horizontal Paternoster

Installed on top of the tray feeding level with a capacity of up to 42 foil reels and Ø 500 mm. Fully automatic foil change even with batch size 1 and customised storage management.



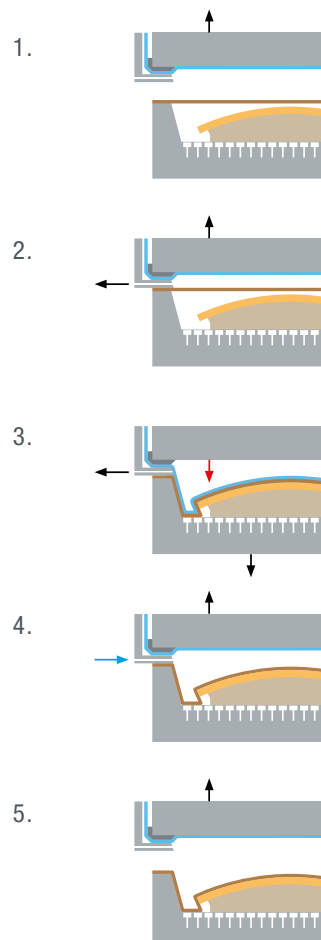
The success of Wemhöner Surface Technologies is not a coincidence. The company's position as market leader, supported by the expertise gathered through decades of experience and the pursuit of quality is based, in particular, on analysis of international market developments, consistent optimisation of existing surface treatment methods and the search for new techniques together with existing and new customers. The focus of this research and development is the Wemhöner technology centre in Herford. This is where Wemhöner engineers in close collaboration with customers, suppliers and technical universities experiment with a wide range of surfaces and substrates in unusual shapes and sizes. Innovations and new technologies are born and developed to series-production readiness. Always open for new ideas the Wemhöner technology centre is available to you.

## PLENTY OF ROOM FOR NEW IDEAS



Basis for reliability in foil application of sophisticated 3D elements:

1. Heating-up of membrane via top heating platen while the tray is fed in and out. The tray is fully covered by foil sheet.
2. The press chamber is closed. The foil is heated up and guided to the membrane.
3. The press cycle starts with a vacuum underneath the foil and air pressure from the top. The membrane and foil are firmly connected.
4. A cold air blast through the multi function frame separates the membrane from the 3D elements.
5. The press opens and the tray moves out.



## ULTIMATE FLEXIBILITY

## Wemhöner Surface Technologies

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