

COLUMBUS
EXPERT IN VACUUM TECHNOLOGY



MOVE | PIONEER

**CREATING
NEW
HORIZONS
IN VACUUM
PRESS
TECHNOLOGY.**



**QUALITY MADE
IN AUSTRIA**

MORE THAN 40 YEARS OF EXPERIENCE IN VACUUM PRESS TECHNOLOGY

For more than 40 years, Columbus has been researching, developing and producing outstanding vacuum press technology, offering wood and polymere processing companies an inexhaustible potential of possibilities. With the vacuum press technology from Columbus, specialized companies have the opportunity to produce curved parts, made of wood and countless plastics, in a very quick and easy way. The diverse application possibilities of this technology allow companies to extend their product range, to inspire a larger target audience and to sustainably increase their sales.

PIONEER & MOVE

THE MACHINE SERIES OF THE FUTURE

With PIONEER and MOVE, Columbus has created two machine series that will lead vacuum technology into the future. The new era demands innovative, flexible and efficient solutions that allow users to react quickly to new challenges and to master them with absolute perfection. PIONEER and MOVE offer all this, and much more, to small and large production companies that want to experience the future today.

Discover PIONEER, the innovative vacuum press modular system, and MOVE, the inexpensive and space-saving mobile vacuum press.

ADVANTAGES OF HAVING YOUR OWN VACUUM PRESS

- ✔ **Extension** of the product range
- ✔ **Expansion** of the target audience
- ✔ **Increase** in sales
- ✔ **Independence** from external suppliers
- ✔ **Technical advantage** over the competition
- ✔ **Short** production times
- ✔ **Easy** handling
- ✔ **Flexible** product change
- ✔ **Meeting** special customer requirements
- ✔ **Guaranteed** investment security



DISCOVER THE INCREDIBLE VARIETY OF APPLICATIONS WITH PIONEER & MOVE

The Columbus machines Pioneer and Move offer numerous applications for small and large production companies to delight the customers of the future. No matter if you want to win over new target groups or keep winning over existing ones — each application offers you an unlimited number of options. Create unique products, inspire your customers with new things and increase your sales sustainably. With Columbus vacuum presses you bring the future into the present.



**LAMINATED BENDING / SHAPE BONDING /
FLAT GLUING**



VENEERING / OVERLAYING / COATING



**FORMING SOLID SURFACE MATERIALS &
PLASTICS**



LAMINATED BENDING / SHAPE BONDING / FLAT GLUING

PIONEER | MOVE


Laminated bending, shape bonding and flat gluing have never been as profitable as with a vacuum press from Columbus. With the innovative technology, the highest quality workpieces can be manufactured in no time at all. A significant advantage is that no extra counter-template is needed because this task is taken over by the membrane. Thus, the own product range can be expanded enormously and the target group enlarged. In addition, the contribution margin increases due to the independence of external suppliers.

Fields of application

 Cabinetry


 Interior design

 Exhibition construction

 Store construction

 Store facilities

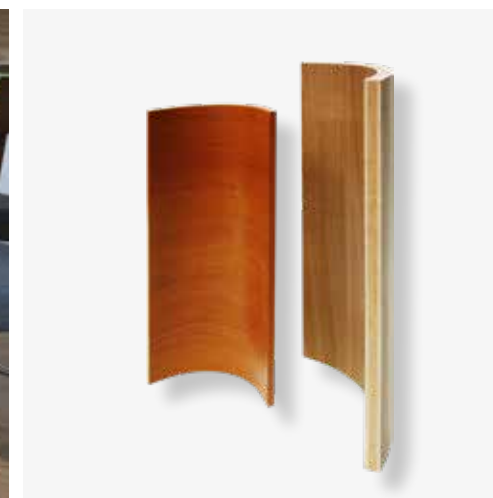
 Vehicle construction

 Stage construction

 Instrument making

 Modelling

 Sports equipment construction





VENEERING / OVERLAYING / COATING


PIONEER | MOVE

Refining curved workpieces with high-quality veneers or covering them with various types of plastic or other materials opens up many new perspectives. With a vacuum press from Columbus, these applications quickly become profitable tools to inspire existing and new customers.

Fields of application

 Cabinetry

 Coffin production

 Interior design

 Store construction

 Building construction

 Vehicle construction

 Restorations

 Stage construction

 Profile creation






FORMING SOLID SURFACE MATERIALS & PLASTICS


PIONEER

The ability to process a wide range of plastics, like Corian, Kerrock or Resysta, as well as thermoplastic materials and composite materials offers unique opportunities to increase profits. It enables to serve completely new customer segments and thereby opens up new markets with inexhaustible sales potentials.

Fields of application


 Cabinetry

 Bathroom furniture

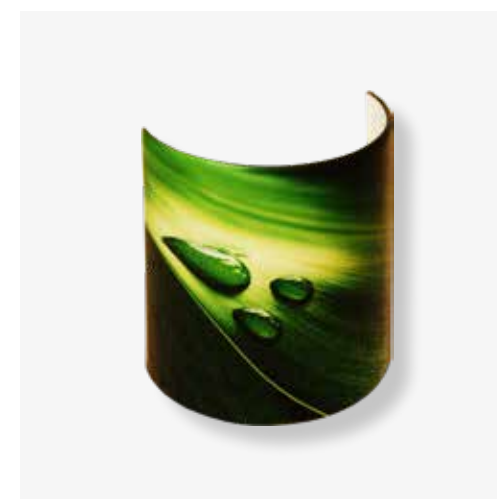
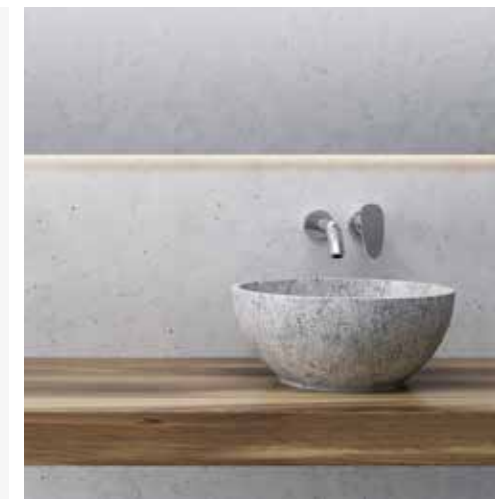
 Kitchen facilities

 Prototype construction

 Building facilities

 Store construction

 Exhibition construction



PIONEER



PIONEER

THE INNOVATIVE VACUUM PRESS MODULAR SYSTEM.

PIONEER is the world's first patented vacuum press modular system. Together with his user, it is leading the way in a new era of modern wood and plastic processing.

It was designed with the practical experience from over 40 years of innovation leadership and it was perfected with regard to future challenges. The result of the years of development work convinces with the innovative possibilities, the flexibility to be able to react to new requirements at any time as well as with high efficiency. A machine as the basis for sustainable success. It offers production companies everything to create extraordinary workpieces in the future, to delight customers with new things and to increase sales.

The world's first patented modular design — based on a high-precision vacuum press — makes it a partner for many decades and guarantees high investment security. The sophisticated design enables users to add all expansion modules subsequently and independently, in order to flexibly expand the variety of applications and the production spectrum according to own requirements.



THE MODULES

The patented modular design of PIONEER gives users the opportunity to make good decisions for tomorrow already today. If you want to be prepared for the challenges of the future, flexibility is an essential factor. This is exactly what PIONEER offers in every respect.

The vacuum press PIONEER BASIC as well as the modules VERTICAL (vertical opening system) and HEAT (high-performance heating system) give the user access to 3 highly profitable applications of vacuum press technology — from woodworking to plastic processing.



3
MODULES

3
APPLICATIONS

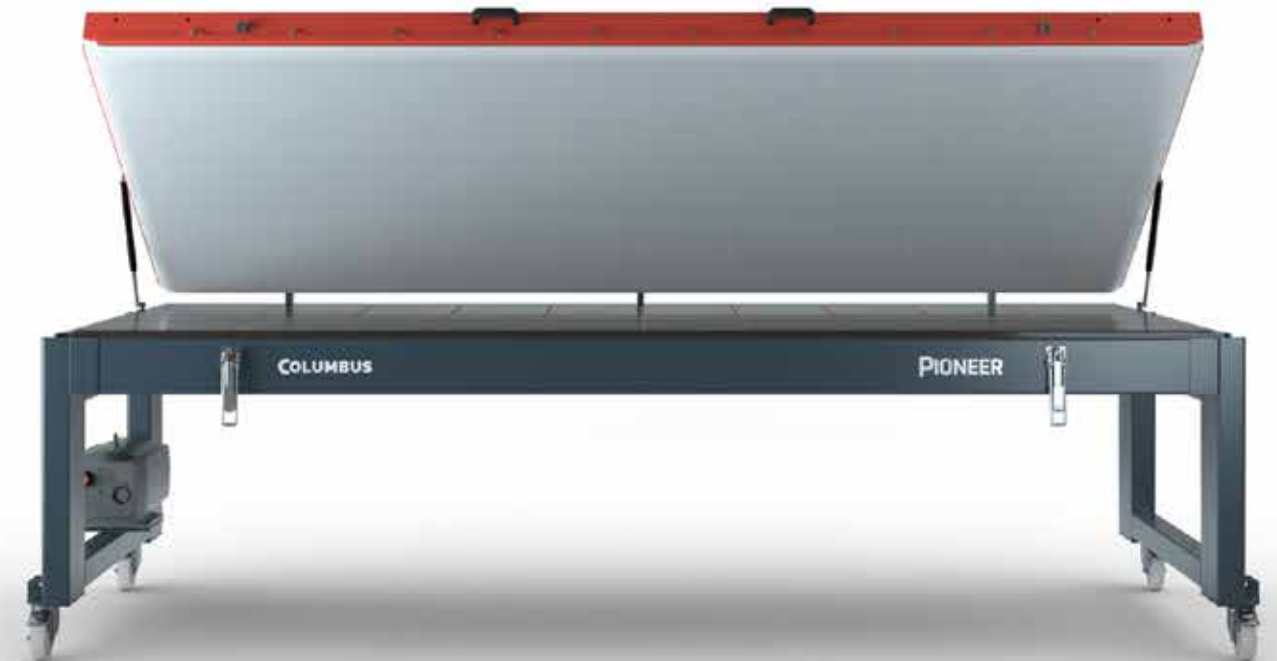
3
SIZES

BASIC

THE HIGH-PRECISION VACUUM PRESS

PIONEER BASIC is the basic variant of the PIONEER and opens up the possibility of producing extraordinary workpieces from wood and wood-like materials. It consists of a vacuum table with a flap opening and gigantic usable area. PIONEER BASIC is available in 3 different sizes, whereby the smallest offers a larger usable area than comparable, conventional vacuum presses.

Inexpensive to purchase, PIONEER BASIC is the starting point for 2 additional, optional modules that can be flexibly added by the user, depending on the requirements. This guarantees absolute security of investment — no matter what goals you pursue later.



VERTICAL

THE VERTICAL OPENING SYSTEM

VERTICAL consists of a precise, pneumatic, vertical opening system with which vertical press runs as well as precise stopping in the desired position are possible. Due to the vertical movement of the membrane frame, very high workpieces can be optimally pressed without causing the slipping of the layers or the template. In addition, the machine can be optimally operated from all sides. This guarantees an increase in productivity, application and result security.



HEAT

THE HIGH-PERFORMANCE HEATING SYSTEM

HEAT consists of an independent high-performance heating system that is simply placed underneath PIONEER BASIC. It opens up a completely new and profitable application area. With HEAT, plastics, thermoplastic materials and composite materials can be heated precisely, i.e. made deformable, and then be pressed in the vacuum press.

The energy-efficient heating system with precise heating control, optimal heat distribution and excellent heat insulation leaves nothing to chance. All this guarantees the best results, maximum efficiency and optimal conditions for the subsequent forming process on the vacuum table. This opens up a whole new market instantly.



THAT MAKES PIONEER THE VACUUM PRESS OF THE FUTURE



The flexible upgrading



The membrane fast-change system



The integrated vacuum bag connection



The gigantic usable area for the new plate size



The standard 40 m³ high-performance vacuum pump





THE FLEXIBLE UPGRADING

With PIONEER you can start small and upgrade flexibly at any time. The vacuum press offers everything your heart desires when you want to process wood or wood-like materials into extraordinary workpieces. If you want to expand your offer with applications in the field of plastics processing, PIONEER can be expanded modularly. All modules can be added independently afterwards.





THE GIGANTIC USABLE AREA FOR THE NEW PLATE SIZE

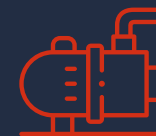
PIONEER has a gigantic usable area, which, already in the smallest variant of the 3 available sizes, offers a significantly larger usable area than ordinary vacuum presses. The usable area is based on the new Italian plate size, which is, starting from Italy, already being used nearly everywhere. The robust construction is torsionally stable and ensures absolute precision. With this uncompromising quality of results and flexibility, you are always one step ahead of the competition.



THE MEMBRANE FAST-CHANGE SYSTEM

With the unique Columbus membrane quick-change system, a membrane change can be carried out in less than 10 minutes, which optimizes production processes, shortens production times and prevents longer downtimes. The stable frame guarantees a vacuum-tight membrane attachment and ensures the best press results and production reliability. The system is compatible with any Columbus natural rubber or silicone membrane.





THE STANDARD 40 M³ HIGH-PERFORMANCE VACUUM PUMP

Columbus installs 40m³ high-performance vacuum pumps as standard to guarantee users absolute flexibility and reliable results. The almost maintenance-free, dry-running rotary vane pumps with automatic switch-off are 100% oil-free, which ensures clean and safe production facilities for people, materials and the environment. Another advantage: With the use of this powerful pump, no vacuum boiler is necessary, which makes the system leaner, more effective and more resistant.



THE INTEGRATED VACUUM BAG CONNECTION

With PIONEER, users are not restricted to the size of the vacuum table with regard to the size of the workpieces to be machined. If a workpiece protrudes beyond the gigantic usable area of the vacuum press, an external vacuum bag can help. This is connected directly to the vacuum press (BASIC) and ensures feasibility for every project. Columbus vacuum bags are available in all desired dimensions.



ALL ABOUT PIONEER



Find out more at
columbus-tech.com/en/vacuum-presses/pioneer



MOVE



MOVE

THE INEXPENSIVE AND SPACE-SAVING MOBILE VACUUM PRESS

MOVE is the space-saving, mobile vacuum press for everyone who wants to benefit from the advantages of a full-fledged vacuum press for wood processing and at the same time wants to be particularly flexible. With MOVE, exceptional workpieces can be produced in no time through vacuum shape bonding and vacuum veneering. Thanks to the construction, designed for mobility, with 230 V power supply, castors and its foldable width, with which it fits through any standard door, MOVE is ready for use wherever it is needed. The integrated folding mechanism also enables MOVE to be stored in a space-saving manner (45% of the unfolded area) when it is not needed.

MOVE is mobile and also offers a gigantic usable area. In short — he is a flexible all-rounder with outstanding performance.



THAT MAKES MOVE THE VACUUM PRESS OF THE FUTURE



The unique price-size ratio



The 230 V power supply



The standard 40 m³ high-performance vacuum pump



The revolutionary folding mechanism



The membrane fast-change system



The smooth-running swivel castors



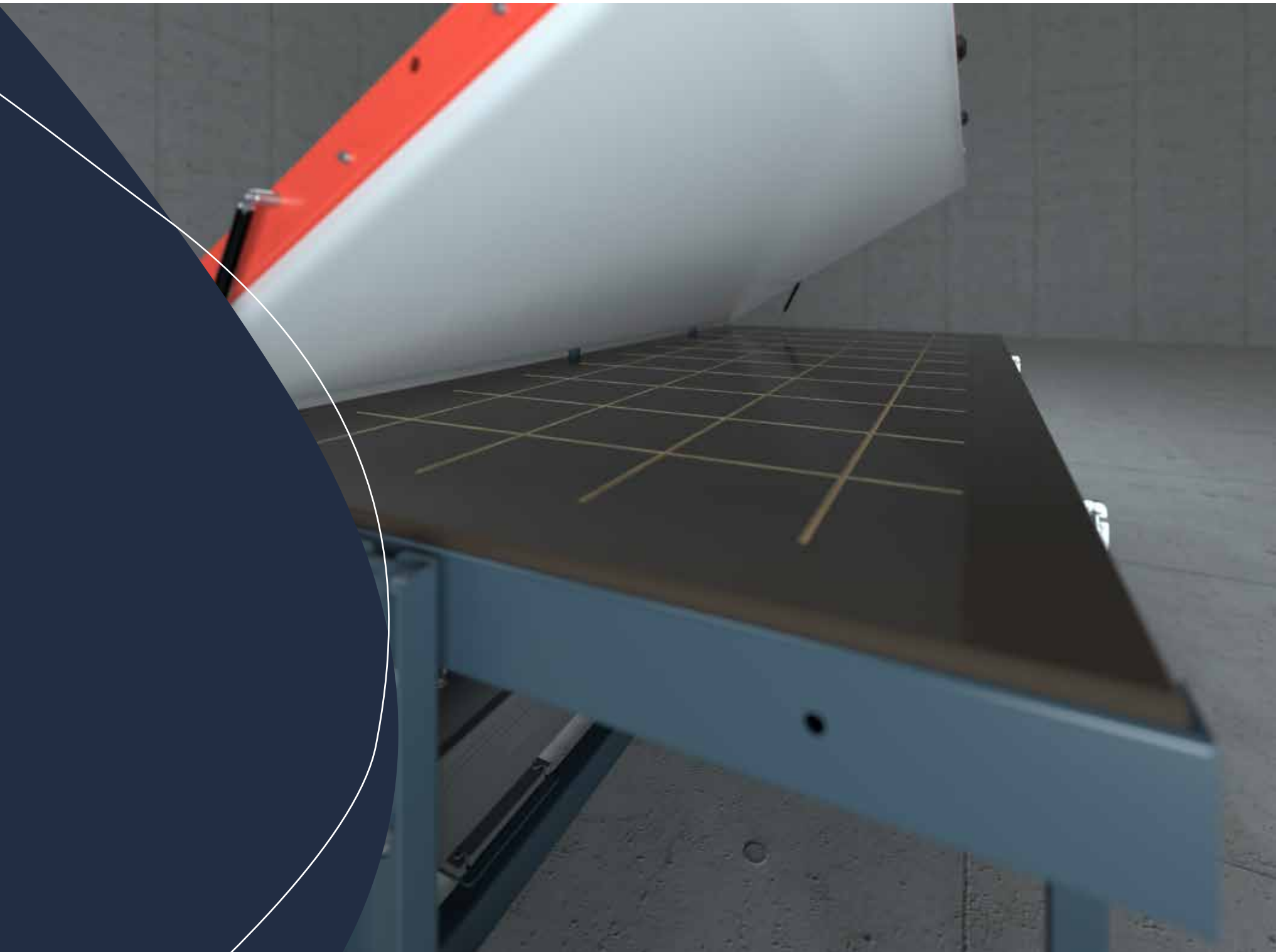
The uncompromising mobility principle





THE UNIQUE PRICE-SIZE RATIO

With a usable area of over 3 meters in length and almost 1.5 meters in width, MOVE offers more usable space as standard than comparable standard products on the market. Due to the robust and absolutely torsionally stable construction, you always get the highest precision during the pressing process. So MOVE guarantees absolutely uncompromising top results even after many hours of work. MOVE — quality from Austria at an unbeatable price.





THE REVOLUTIONARY FOLDING MECHANISM

The highlight of MOVE is the integrated folding mechanism. This allows the user to easily fold the vacuum table after use in a few simple steps. Through this process the floor space of MOVE can be reduced to 45 % of the unfolded area when it is not in use or has to be narrow enough to be transported through every room door. This flexibility makes MOVE the first choice for production companies who want to enjoy the advantages of their own vacuum press even when space is limited.



THE 230 V POWER SUPPLY

In order to take adequate account of the mobility and flexibility of MOVE, special attention was paid to the premise, that MOVE doesn't require heavy current. It can be connected to any 230 volt socket. It can therefore be used almost anywhere. This guarantees that MOVE is not tied to a fixed location in any production company, but is where it is needed.





THE MEMBRANE FAST-CHANGE SYSTEM

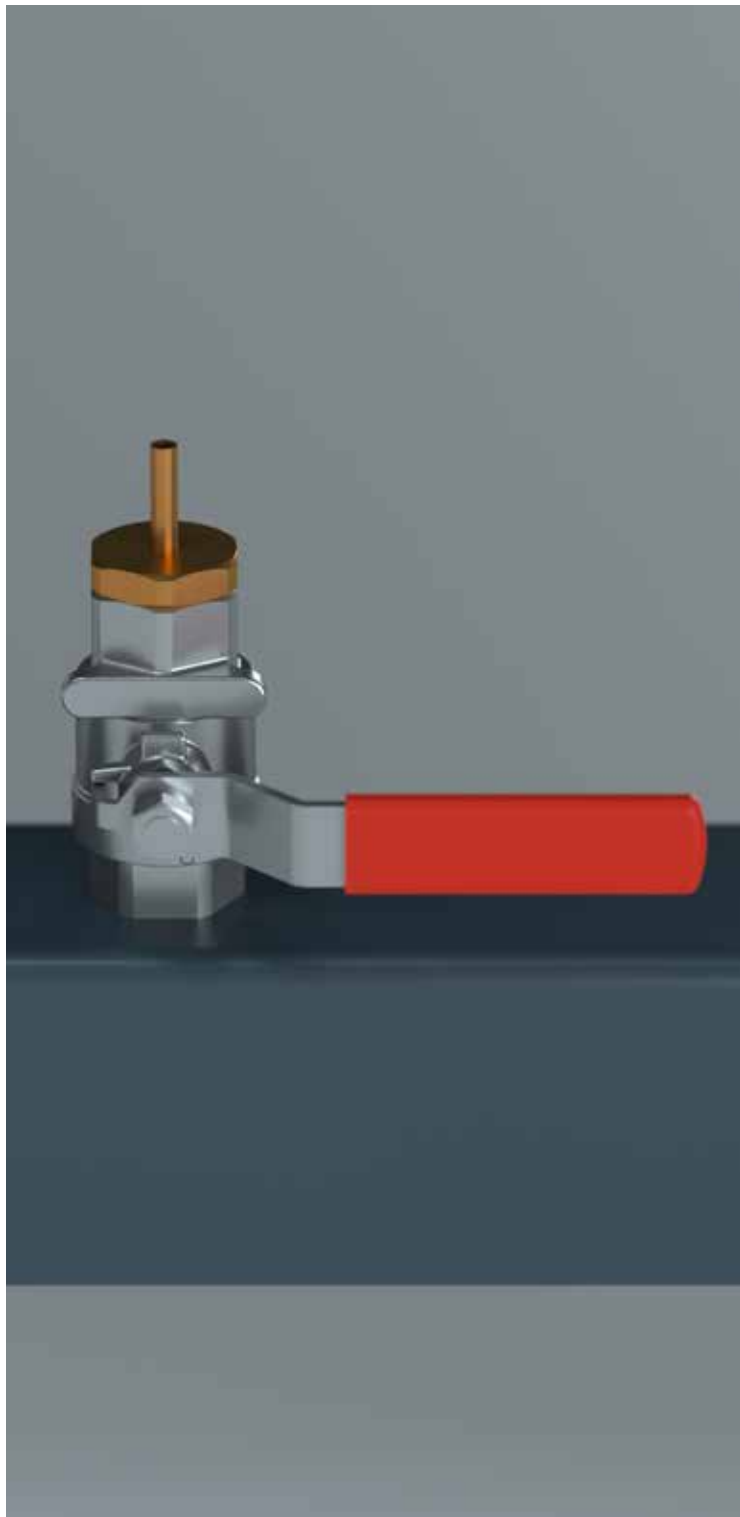
With the unique Columbus membrane quick-change system, a membrane change can be carried out in less than 10 minutes, which optimizes production processes, shortens production times and prevents longer downtimes. The stable frame guarantees a vacuum-tight membrane attachment and ensures the best press results and production reliability. The system is compatible with any Columbus natural rubber or silicone membrane.



THE SMOOTH-RUNNING SWIVEL CASTORS

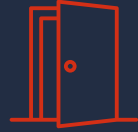
Thanks to the smooth-running swivel castors, MOVE is quickly on site. The ergonomic operation makes the transporting and repositioning of the vacuum press particularly easy. This guarantees a body-friendly working method even when handled by a single person, which minimizes downtimes and ensures fatigue-free working.





40 M³ HIGH-PERFORMANCE VACUUM PUMP & VACUUM BAG CONNECTION

Columbus installs 40 m³ high-performance vacuum pumps as standard. With these 100% oil-free, maintenance-free and powerful pumps with automatic shutdown, no vacuum boiler is necessary. This makes the system leaner, more effective and more resistant. The vacuum bag connection ensures feasibility for every project, since users are not restricted to the size of the vacuum table alone. If a workpiece protrudes beyond the gigantic usable area of the vacuum press, an external vacuum bag can help.



THE UNCOMPROMISING MOBILITY PRINCIPLE

Many machines are already mobile these days. However, these are often bulky and therefore make it difficult to transport them from one location to the next. With MOVE, you don't need large production halls with car-wide doors between rooms. It was designed according to the premise, that it can be easily transported by one person to wherever it is needed. In this way it fits easily through every door when folded. This guarantees rapid operational readiness and the greatest possible flexibility.



ALL ABOUT MOVE



Find out more at
columbus-tech.com/en/vacuum-presses/move



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