



Membrane Form Press Optimat MFP 14/27

Flexible technique for
highly precise 3D
lamination - with and
without membrane.

The Optimat MFP 14/27: Cost-aware investing means profiting from the advantage of a complete system

Optimat: High tech does not have to cost more

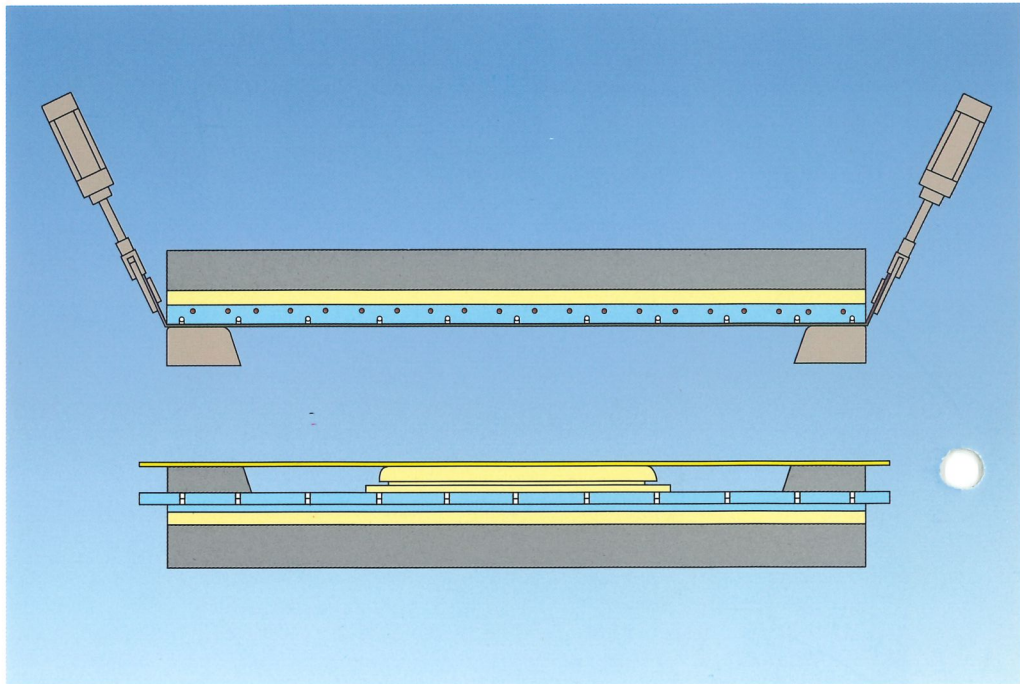
With Optimat the Homag Group now presents a new generation of machines for complete woodworking. All Optimat machines have the same top-level technology, the same legendary quality and reliability you have always known from the Homag Group. As we produce the Optimat in series, it is decisively less expensive for you. And what is more, you profit from the very short times of delivery and installation.

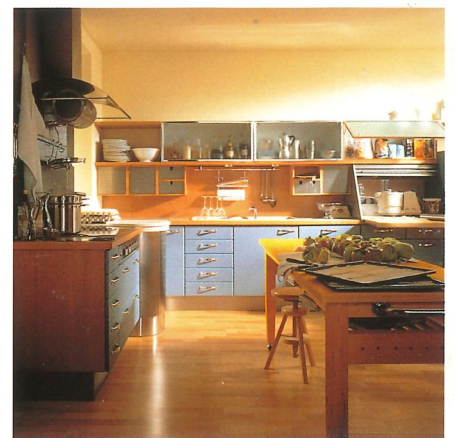
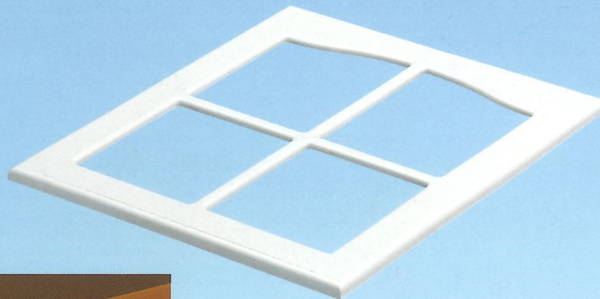
Experience that gives the lead

As world-wide leading manufacturer of membrane presses, FRIZ offer with the Optimat the most advanced process technology. This process enables the universal application of all surface materials known. At the same time it guarantees greatest accuracy in details and intricate profile design with top quality.

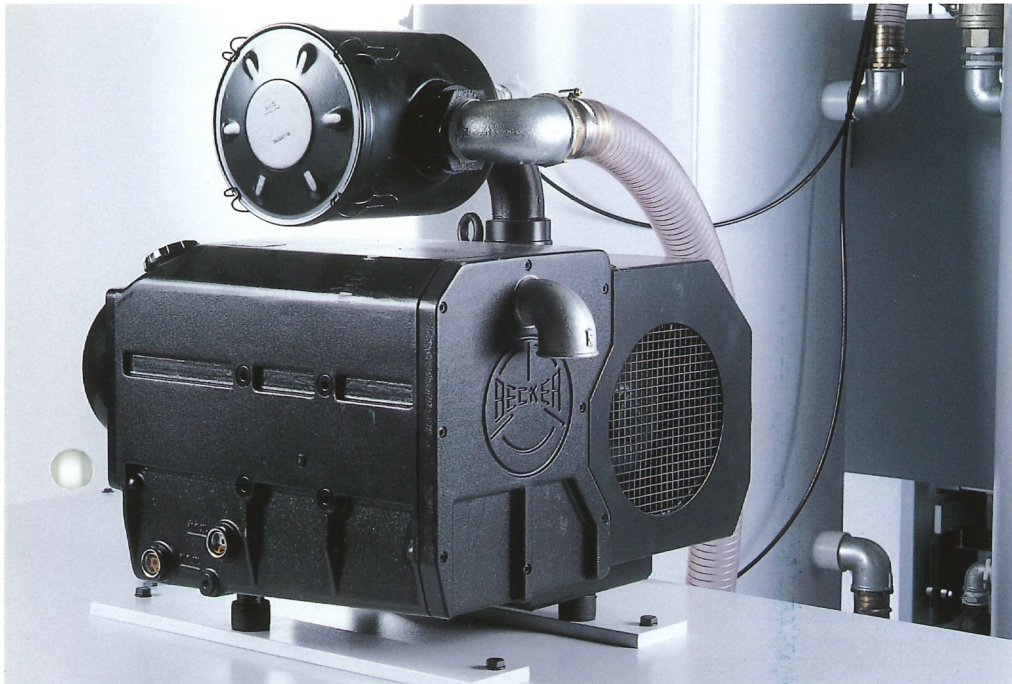
Convincing in performance

Optimat MFP 14/27 is the name of a standardized membrane form press for three dimensional surface lamination: completely fitted. The new FRIZ Optimat is a high-performing and complete line convincing in any respect by economy and reliability.





The Optimat MFP 14/27 is universally used for three dimensional lamination of furniture panels and technical parts with foils such as PVC, ABS, polypropylene, transfer finish foils. Substrates are mainly wood, woodbased materials, and plastics of all kind.



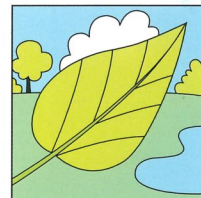
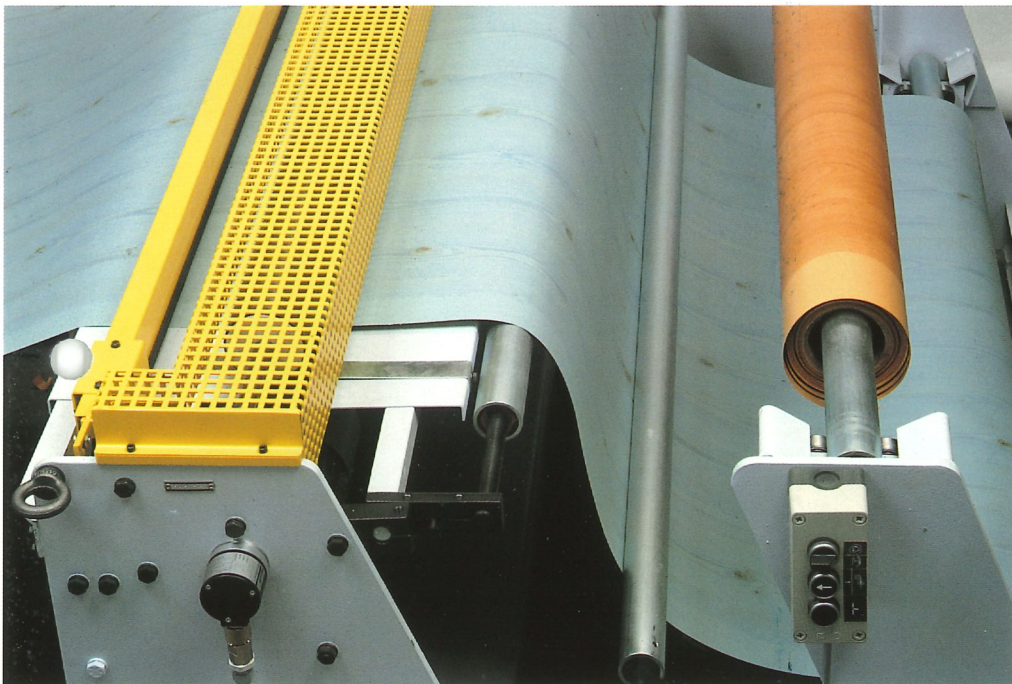
Use it as you please

The Optimat MFP 14/27 proves its level of performance above all by the combination of two different technologies:

1. Classical membrane pressing with rubber or silicone membrane. Particularly suitable for veneers, prototypes or small series.
2. Pressing without membrane: Here the decorative foil is also membrane. Particularly economic in series production. For very precise detail reproduction, intricate profile design, and sensitive foils such as polypropylene (PP).

Flexible and profitable

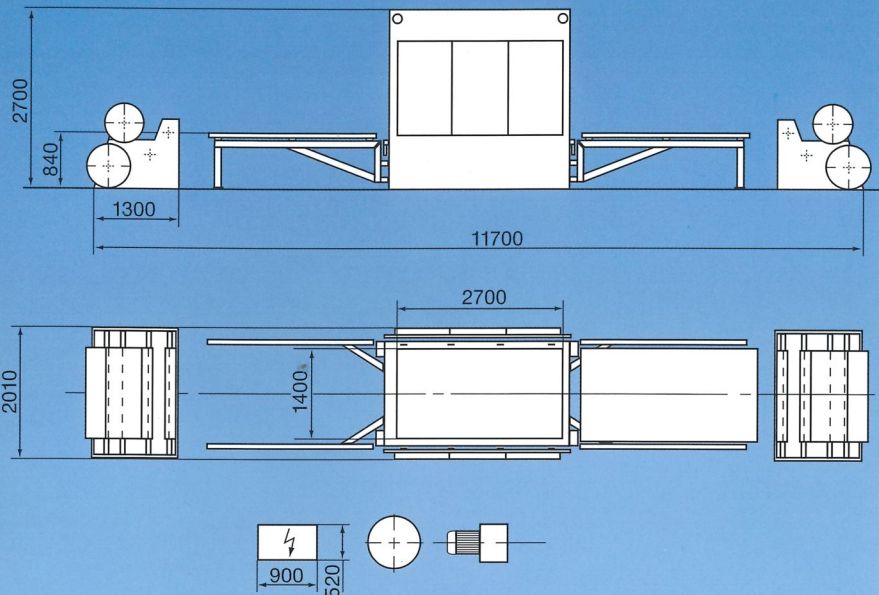
Of course, there are no longer any mechanical conversions on the Optimat. The machine is re-set to other workpieces by simply selecting programmes by "pushing a button", so that you can change settings in an extremely flexible way without losing time. At the same time programme control and sophisticated technology ensure an effective production process.



Friendly to environment and waste disposal

FRIZ is the manufacturer whose machines successfully apply polypropylene foils in series production. These foils can not only be effectively processed at reasonable cost, but can also be disposed of in an ecologically desirable manner.

From FRIZ you can expect decisively more than perfect technique



MFP 14/27: Technical Data

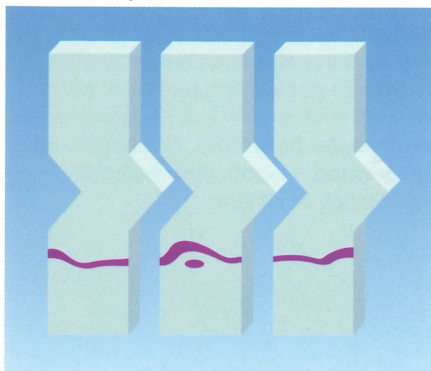
Platen size	1400 x 2700 mm
Useful area, max.	1100 x 2400 mm
Feed side	1400 mm
Workpiece height	60 mm
Specific press force	5 bar
Total weight	12.500 kg
Connected loads	
Top heating plate	24 kW
Hydraulics	5,5 kW
Vacuum pump 220 m ³ /n	4 kW
Total connected load	33,5 kW

Machine Equipment

- Base machine with a silicone membrane
- Pressure frame divided in 2 parts, 95 mm high, automatic membrane tensioning
- Membrane heating by special electric heating plate
- Vacuum system with oil-cooled pump and 1000 l storage tank
- Homatic NC16 PLC control
- Manual try feeder with 2 vacuum feeder trays

Same components - easy handling

Many parts, control elements, and components are identical on machines and lines from the Homag Group. This makes operation easier, cuts down costs, simplifies spare parts storage, and speeds up maintenance and service.



Fail-safe processes down to the detail

The Optimat guarantees superior quality of the product by optimal process security:

- The new foil preheating minimizes the so-called memory effect of foils by application at maximum temperatures.
- The vacuum process allows extremely gentle forming of sensitive foils and highest detail reproduction.
- The new double chamber pressure frame concept guarantees extremely fast build-up of vacuum and pressure. With this, no heat is carried off the foil in its critical state of forming, and the glue spread is uniformly activated.

Quality is not a matter of chance

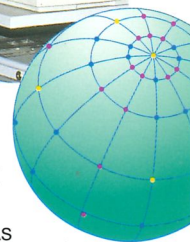
Innovative state-of-the-art technology and reliability above average make the Optimat unbeatable in price-performance payoff. Construction, production, service, and sales department are certified according to DIN EN 9001 giving you the security of constant quality.

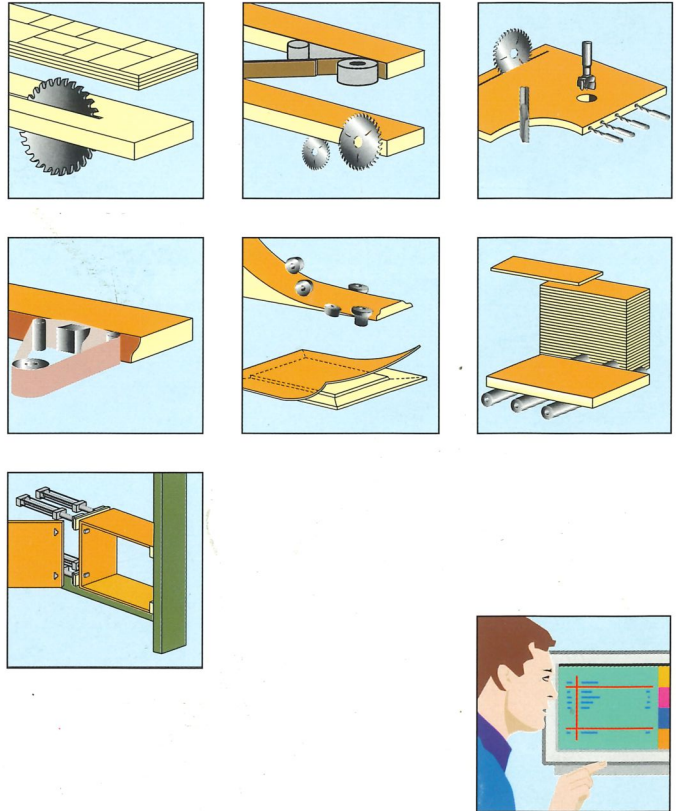
DIN EN ISO 9001



World-wide at your disposal

A particular strength of FRIZ lies in competent advice based on fair partnership. As FRIZ is part of the world-wide association of the Homag Group, you benefit from an excellently expanded service, sales, and dealer network with short ways, fast availability, and optimal proximity to the customer: in Europe - and in the entire world.





Your salespartner



Friz Maschinenbau GmbH
 Im Holderbusch 7
 D-74189 Weinsberg
 Tel. 071 34/505-0
 Fax 071 34/5 05 20