

Competence in

# PRESSES



Ideas that bond.



Welcome to the world of MEYER machines.  
We appreciate your interest in our products,  
system solutions, and services.



Since 1949, we have been writing internationally successful machine history when it comes to subject of bonding, coating, pressing, or molding.

We welcome the opportunity to convince you – visit us at our facility and take the opportunity to find the most suitable solution for you in our Competence Center.

As a family owned enterprise, we see the commitment to combine tradition and innovation – let's bond!

*Foundation:* 1949  
*Production area:* 15,000 m<sup>2</sup>  
*Employees:* 170

## FUSING

### Continuous fusing machines

- RPS series - L  
- E1  
- E2  
- E2 Leather  
- E4

### Discontinuous fusing machines



*Options* See brochure "Fusing"

## LAMINATING

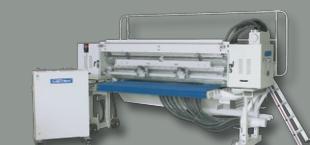
- KFK series - C  
- E, EL, X  
- XL  
- P  
- V  
- L



*Options* See brochure "Laminating"

## SCATTERING

- PST series - Powder scattering  
- Coating line



*Options* See brochure "Scattering"

## PRESSES

- System - Thermo-molding  
- Thermo-stamping  
- Thermo-consolidation  
- Thermo-transfer

## SERVICES

- After sales service
- Competence Center for customer trials
- Contract manufacture
- Contract laminating



## Reliable systems for mass production

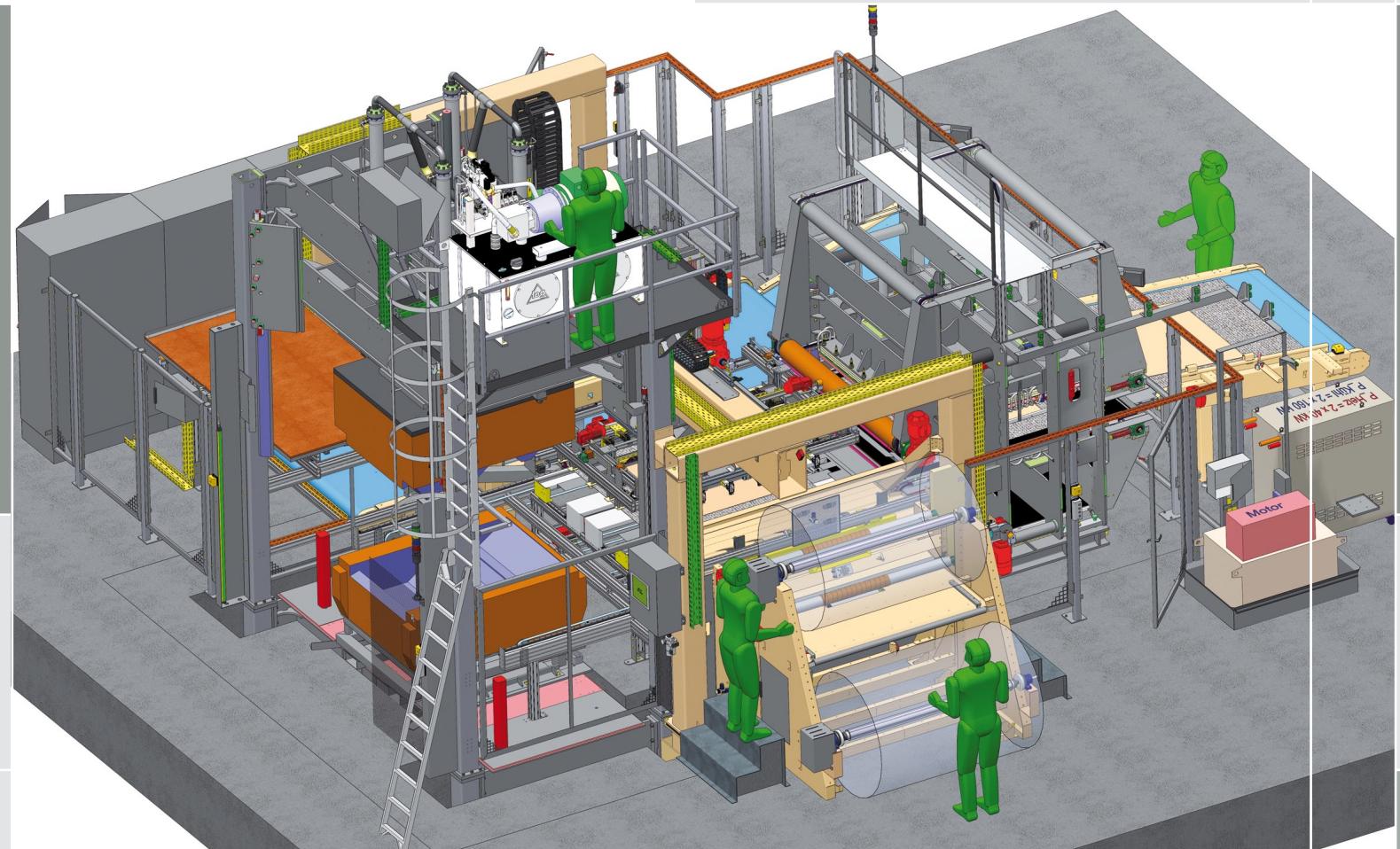
We offer an optimal system and implement it reliably and on time. A quick "return on investment" as well as high system availability is guaranteed.

Our engineers are experienced specialists. It goes without saying that they master the proven tools in the design environment to competently accompany you from the idea to the 3D visualization and finally to the finished solution.

For data exchange the common CAD systems, e.g. AutoCAD, SolidWorks or Eplan, are available.

*Illustrations might show special features*

Close collaboration with our customers as well as many years of experience lead to the optimal production line which is always customized to meet the requirements of our individual customers. Allow yourself to be convinced of our competence in thermo-molding of textile-like composites.





## Solutions for all dimensions

In the automotive sector our solutions are perfectly suitable for production of interior trim, e.g. roofliner, carpet underbodies, trunk linings, parcel shelves or door panels. Also acoustic components such as wheel house liners, engine compartment insulation or modern carbon fiber reinforced plastics preform components can be achieved.

The portfolio ranges from simple manual presses to fully automatic production lines with active grippers, linear handling systems or robots.



Our solutions are adjusted to quantity and requirements for repeatability and production quality but also for possible future requirements. This means that cycle times and level of automation are optimized during planning in order to achieve greatest possible efficiency.

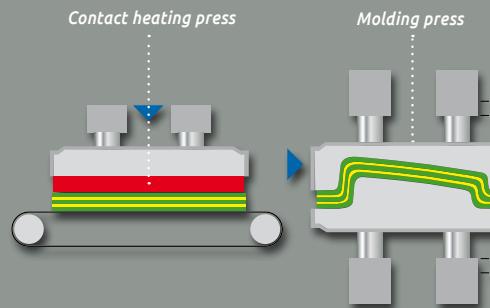
Fast retrofitting to another product, rapid tool change or motorized adjustment of the transport system for new material dimensions result in our innovative solutions.

## Active grippers for optimal quality and material savings

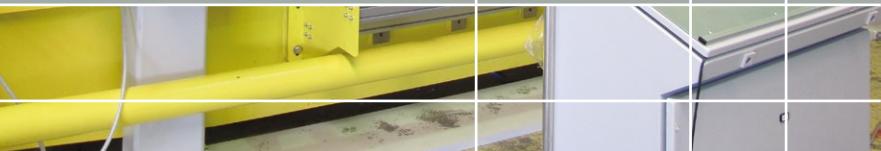


*Line with flexibly changeable material transfer*

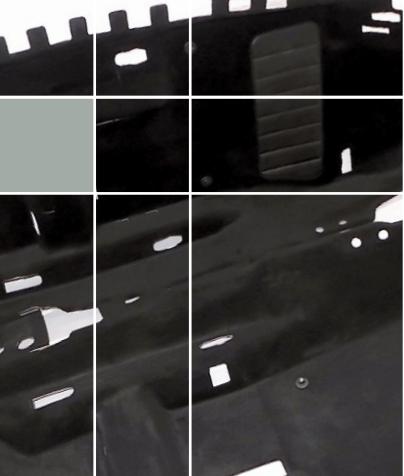
*Illustrations might show special features*



Well-known automotive suppliers all over the world trust in our solutions and appreciate our many years of experience, the use of perfected technology and the associated reliability as well as our innovative solutions.



In mass production the material flow has to be perfected and the automation has to be efficient in order to ensure quality and profit. By use of active grippers, which optimally tension the material at the critical points, costs can be reduced massively. The gripping edge is minimized and thus waste is reduced significantly.



Our molding presses can either be single- or double-acting systems with press forces ranging from 20 to 500 tons.

### Automation at the highest level



Different transport systems are available for automated material transport. Individual active clamping systems can be integrated to make an optimal time and material saving production process. Part unloading, stacking or integration of further process steps are possible without any problems.



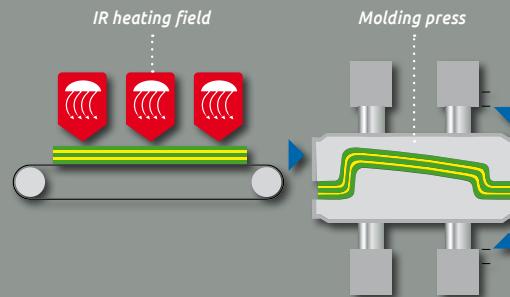
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AHV-S

## Laboratory presses for new products and materials

The modular concept of the AHV-S allows the presses to be modified for heating or molding. Compact transport systems handle the transfer of the sometimes hot materials into the next press. We can therefore also offer the optimal solution on a small scale.



The laboratory press AHV-S enables you to develop new products. Highest pressures and temperatures up to 400° C are available. Precise parallelism of heating plates and closing of presses solves also complex tasks in the processing of modern composites.



*AHV-S as heatable molding press and IR pre-heating station with transfer system.*

### Technical data:

#### Type 3530-HP Type 4545-HP Type 4545-VP

Press area (mm) 350 x 300 450 x 450 450 x 450

Pressure max. (t) 20 20 20

Pressure (N/cm<sup>2</sup>) 5 to 200 5 to 100 5 to 100

Daylight and stroke (mm) 0 - 300 0 - 300 0 - 300

### Speed:

Closing (mm/sec) 70 70 70

Pressing (mm/sec) 8 8 8

Opening (mm/sec) 130 130 130

Power consumption (kW) 10,5 20 2

Temp. heating plates max. (°C) 400 400 -

Heating capacity (kW) 2 x 4,4 2 x 9 -

Dimensions L x W x H (mm) 760 x 760 x 1,600

Weight (kg) 1,500 1,550 1,450

# THERMOCONSOLIDATION

Our sheeter presses are discontinuously working laminating lines for thermo-consolidation and provide significantly higher pressures than continuously working laminating machines. Our economic concept allows temperatures up to 400° C.

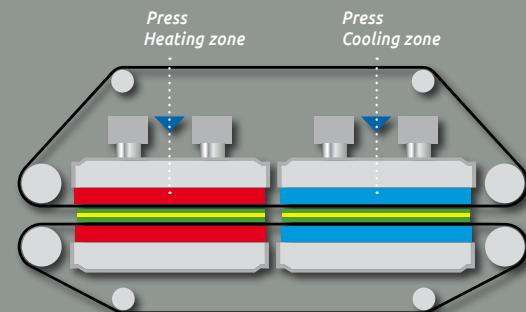
The materials to be consolidated are stepped through the line and thereby accurately heated, compressed with extreme pressures and cooled down again.

Especially suitable for thermo-consolidation of carbon layers and all materials which demand particularly high pressures at high processing temperatures.

## High pressures and high temperatures

### AHV-S for sheets

The AHV-S presses can also be used as a consolidation line to produce thermoplastic Organo-Sheets. Therefore we have developed a solution in which several AHV-S presses are combined to maximize consolidation of fiber-prepregs.



The prepgs are stepped through the presses by means of a transport system and thus heated to the required temperature and controlled cooled down again. High specific pressures and high temperatures guarantee optimal results.

Special feature of the sheeter press is its stepped process. The transport system steps the materials through the heating and cooling presses in which pressures up to 70 bar can be realized.

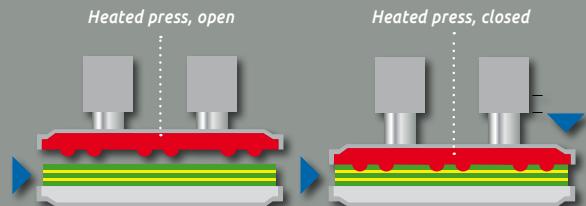
# THERMO STAMPING

Perfectly stamped, also from rolls

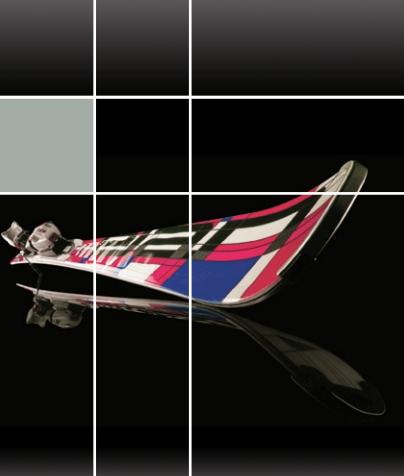


We offer presses for hot stamping and punching of thermo-formable foams and textile-foam-composites. With short lift strokes patterns and contours are stamped into the materials. By that e.g. seat covers made of fabric can be ennobled with attractive designs. Even special insulation parts can be profiled so that they fit perfectly on assembly.

In sports there are numerous applications such as seat cushions, padding for bike helmets and many more. The big advantage of the thermo-stamping process is stamping and punching in one step while the punched edge is heat-sealed. Thus further edge processing is not necessary.



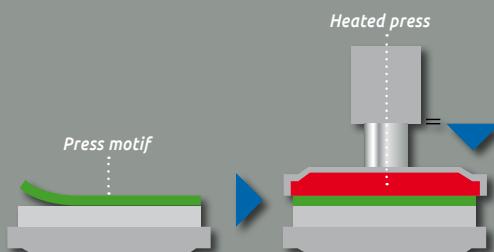
# THERMO TRANSFER



By using the method of thermo-transfer different materials can be imprinted and designed with colors. The print offers a special color absorption and is especially suitable for fibrous materials such as fabrics and carpets.

For plastic surfaces, coated or painted, the print is particularly scratch resistant because the color molecules penetrate themselves deep in the material structure.

Among others, ski and snowboard surfaces can be designed with the ideal color and also become UV resistant during the process of thermo-transfer. Board games, tiles, carpets and flags are further applications.



## Brilliant colors for any eventuality



Inside the heating press the thermo-transfer carrier material is placed on the material to be printed on and then both materials are heated together. High temperatures and high pressure inside the press allow the color pigments on the carrier material to sublime. This means that they change into gaseous state and thus can penetrate deep into the material to be printed.

Illustrations might show special features





MASCHINENFABRIK HERBERT MEYER GMBH

System solutions for bonding technique for

- **Garment industry**
- **Textile industry** (textile lamination, powder coating...)
- **Technical textiles** (powder coating, impregnation...)
- **Automotive interior and acoustics**
- **Composites** (honeycomb sandwich sheets, fiber reinforced composites...)
- **Medical** (consolidate, calibrate, membrane foil coating...)

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Together we are able to configure your ideal machine concept during free initial trials. Visit our **Competence Center**.

We look forward to the challenge.

