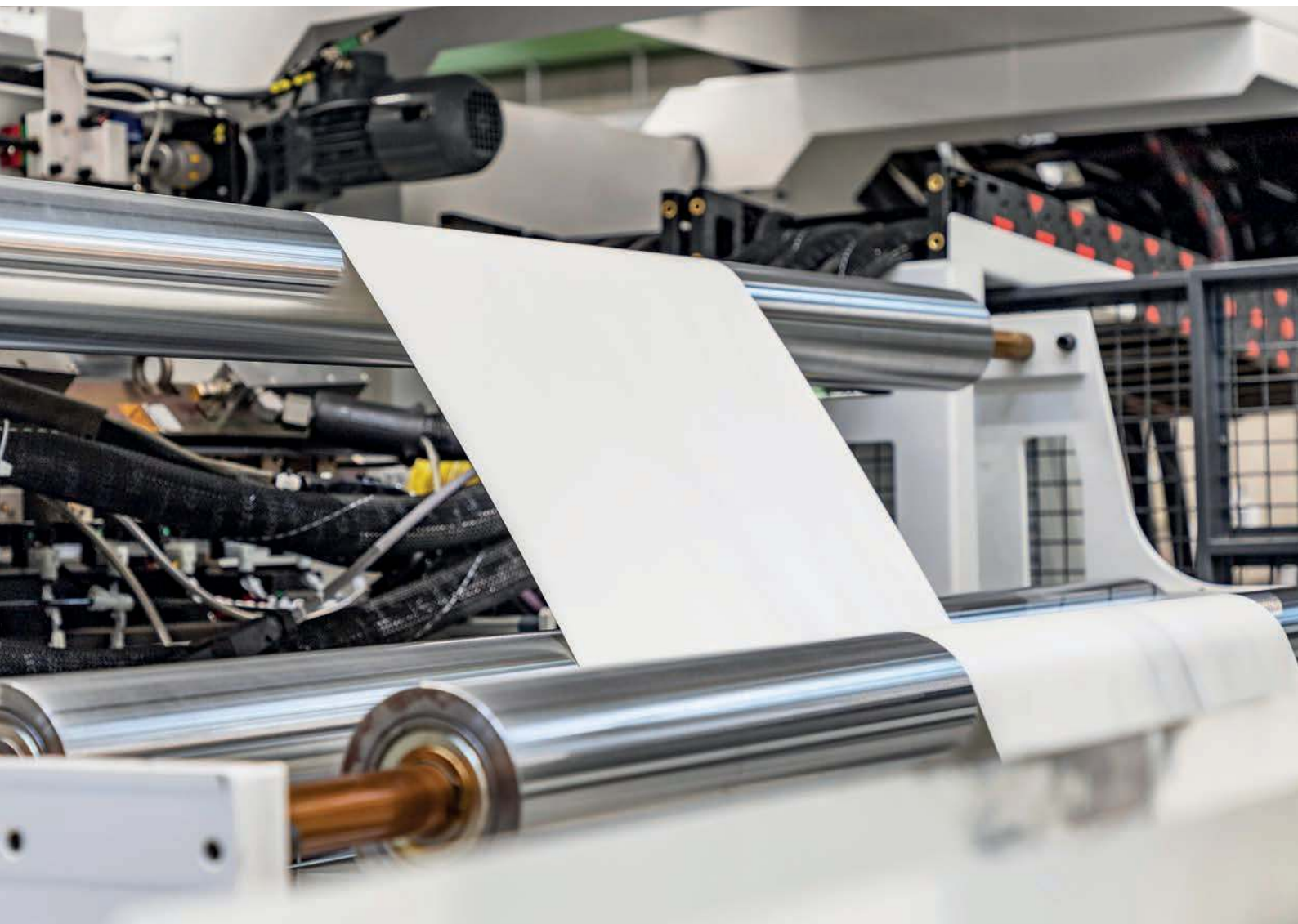


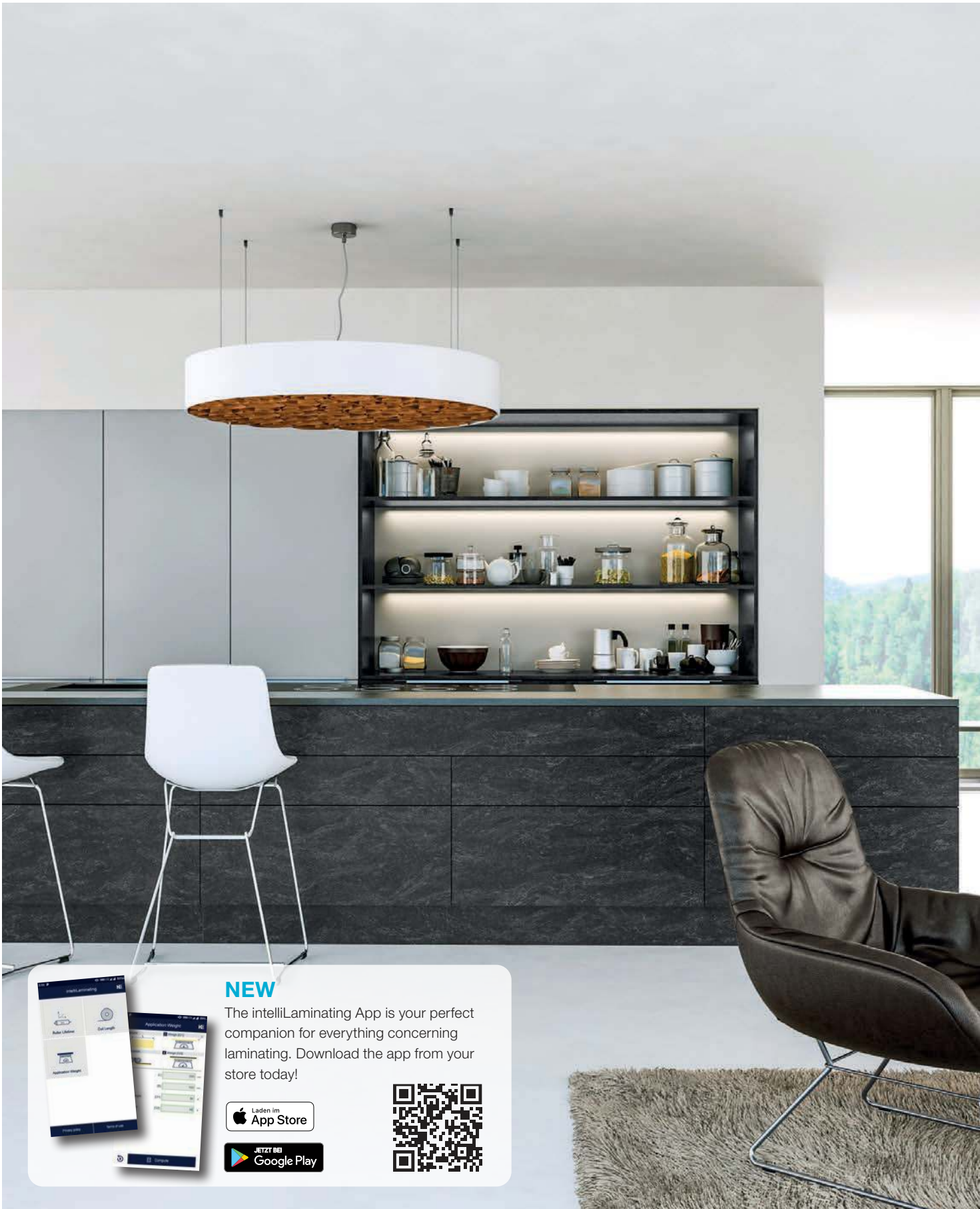
Combining what belongs together.

HE HOMAG

Our Laminating System
LAMTEQ F-300

YOUR SOLUTION





NEW

The intelliLaminating App is your perfect companion for everything concerning laminating. Download the app from your store today!





Laminating with HOMAG

Laminating is experiencing something of a renaissance in the field of decorative finishing of wood-based panels. Major trends such as natural and tactile structured surfaces are raising the bar for surfaces in the furniture industry. Today, technical innovations and continuous developments are making laminating a powerful, flexible, and reliable finishing procedure. Progress made in using hot-melt glues — and in particular, reactive PUR — is replacing entire generations of glues such as PVAc. Improved quality in resistance to moisture and temperature qualify PUR in particular for use as a binding agent between panels and surface films.

The different requirements for surfaces in furniture manufacturing demand clever production solutions that can be achieved by utilizing the experience and solid process expertise of HOMAG. HOMAG has aligned and expanded its portfolio on this basis. Customized laminating technology for customer-specific solutions.

YOUR SOLUTION

MORE ON:



LAMTEQ F-300

CONTENTS

- 04 High-performance laminating lines: the LAMTEQ F-300
- 10 The concept of the LAMTEQ F-300 / The laminating process
- 12 LAMTEQ F-300 completeLine
- 16 tapio
- 18 Life Cycle Services



High-performance laminating lines: the LAMTEQ F-300

The offer: economic solutions for industrial mass manufacturers.

The challenge: application of hot-melt and reacTec glue using nozzles in the thinnest layers possible, without any stripes, evenly on the rear of a wide variety of finishing papers and films.

HOMAG has successfully mastered this challenge.

Basic orientation of the LAMTEQ F-300 series:

- Processing of the common adhesives EVA and PO hot-melt, as well as the innovative reacTec hot sealing adhesive
- Single-sided or double-sided laminating
- The lamination of the surface or alternatively the surface and edge lamination
- System configuration tailored to customer requirements

„HOMAG is the trusted partner for discerning customers in the industrial lamination sector. We offer economic solutions at feed speeds of up to 60 m/min.“

Josef Zerle, Executive Director Surface Processing, HOMAG



The concept of the LAMTEQ F-300

The LAMTEQ F-300 is the answer to all requirements of industrial manufacturers for a high-performance laminating system. The series is economical, has a feed of 60 m/min and can be equipped with the latest glue application methods; it thus redefines quality and efficiency in the production of building components and furniture.

The reactec process is unique to the LAMTEQ F-300. This innovative laminating technology impresses not only commercially but also ecologically; not only does it offer savings thanks to low manufacturing costs, it also allows you to operate in an environmentally responsible manner.



LAMTEQ F-300 laminating line for double-sided coating with the reactec process.

Feed of up to **60** meters
per minute

Up to
11 Mio.
square meters per year



Features of the LAMTEQ F-300

- Single-sided or double-sided lamination
- Workpiece width up to 1300 mm
- Glue application via slot nozzle or roller bar nozzle
- Processing of thermoplastic films, high-gloss and supermatt films, as well as decorative papers all on rolls
- completeLine: possible combination of surface lamination with wrapping of the workpiece longitudinal edges
- Laminating system with automatic change of film without interrupting the feed



Furniture parts with the surface and edges coated in a completeLine.





Foil feeding

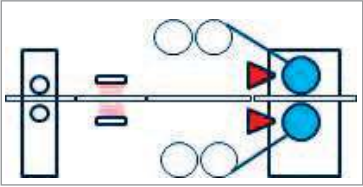
When performance is wanted:
the LAMTEQ F-300 laminating line



Laminating calender

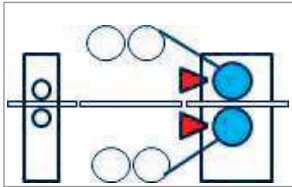
Comparing laminating processes

Familiar laminating processes using urea resin glue, dispersion glue, hot-melt glue, and reactec all offer different advantages and disadvantages. A comparison of the relevant process steps, the gluing method, and the production costs makes this clear.



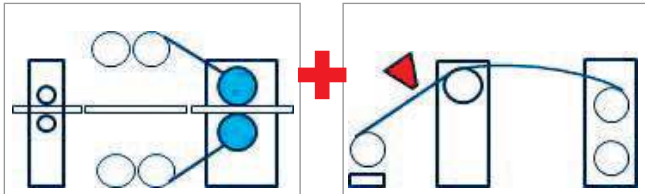
LAMTEQ F-300 – hot-melt concept

- Hot-melt glue application on the coating material with a slot nozzle
- User-friendly for series production processes
- For surface laminating and wrapping
- High feed speeds
- Excellent surface quality



LAMTEQ F-300 – reactec inline

- Moisture-resistant like urea
- Temperature-resistant, similar to urea
- Bond joint hardness, similar to urea
- User-friendly like hot-melt
- For the thinnest of coating materials
- With the inline process, direct application of the glue onto the coating material



LAMTEQ F-300 – reactec-offline + LAMTEQ C-300

- With the offline process, the application of the glue onto the coating material and the laminating process are separate, both in time and location



reactTec inline process

The glue is applied to the coating material and the decorative film to the workpiece in a single line. This process is ideal for cost-effective production of large batch sizes.

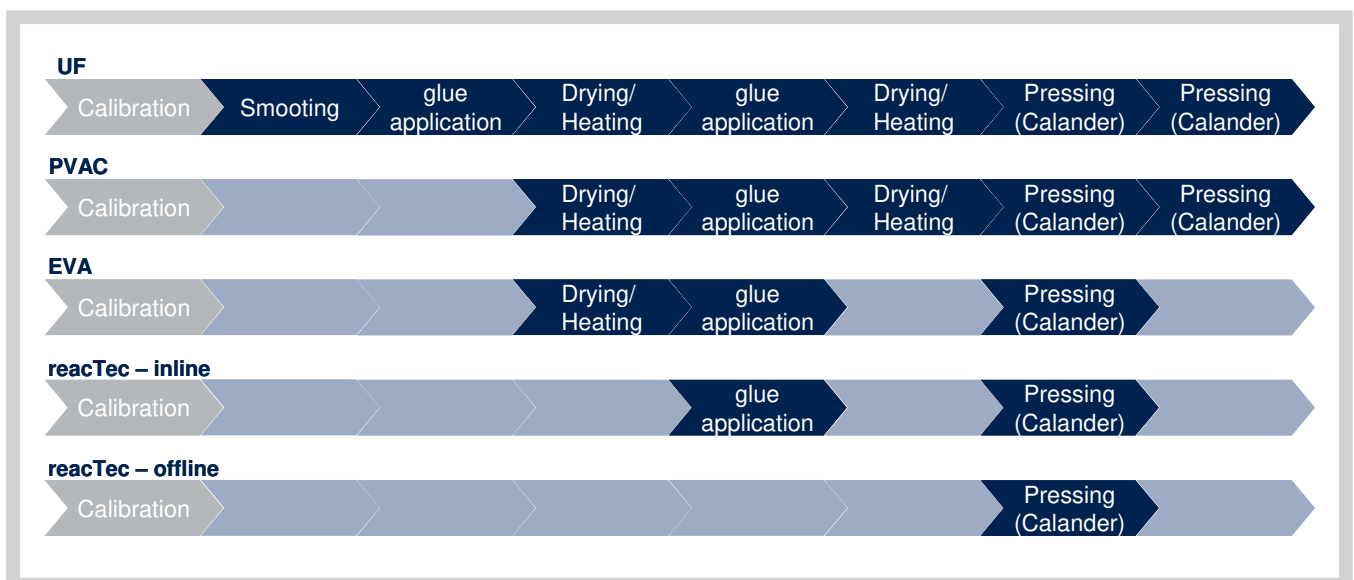


Surface lamination with reactTec

In the reactTec process, the surface is continuously laminated with film or paper.

completeLine with reactTec

completeLine systems size the raw panels, coat the surface and simultaneously seal the longitudinal edges. The material to be laminated is wrapped with film or paper on two sides in a continuous process. The result is a workpiece with no joint on the longitudinal edge – the surfaces and the edges look identical.



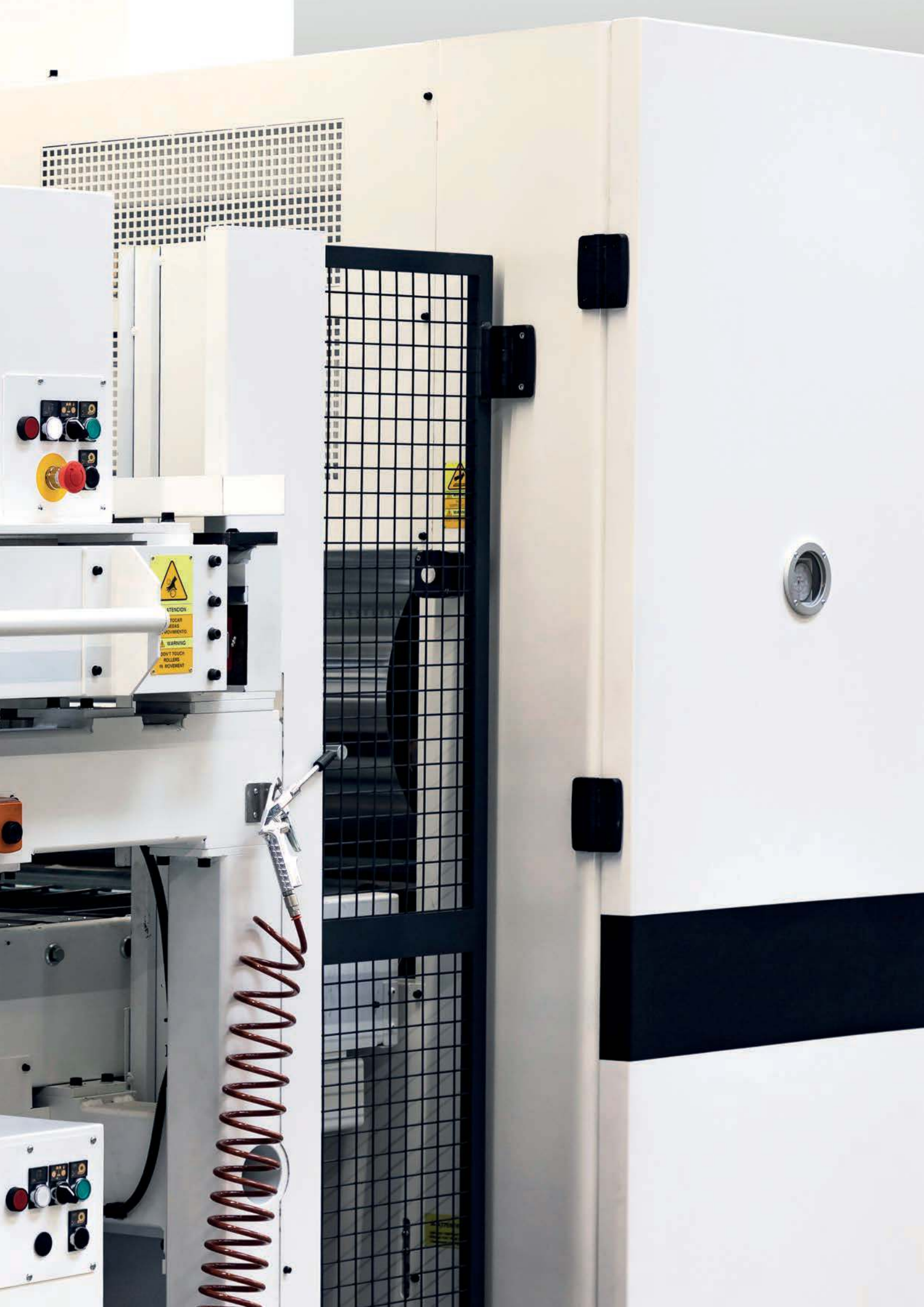


LAMTEQ F-300 completeLine – a quantum leap in technology and efficiency

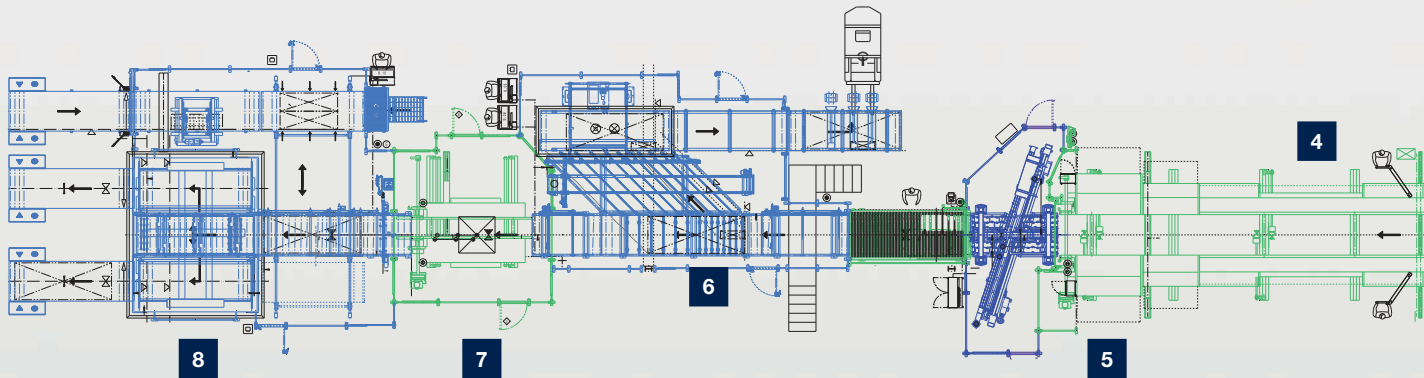
The LAMTEQ F-300 completeLine combines the process and material benefits of surface lamination in one throughfeed with edge coating and post- and softforming. This pays off in terms of the workpiece quality and efficiency.

This process is therefore ideal for cost-effective production of furniture and semi-finished products for construction elements in medium to large batches.





ATENCIÓN
¡CUIDAR JERSEY MOVIMIENTO!
WARNING
DON'T TOUCH ROLLERS IN MOVEMENT



1 TBE 899 double-sided feeding with a pit

- Endless supply of unprocessed panels
- Multi-track supply
- Up to 36 parts/minute
- Protection board management

2 TENONTEQ D-800 double-end profiler

- Edge profiling
- Quick-change system for tools
- Motorized axes for quick profile change
- Edge sealing in one process step

3 LAMTEQ F-300 double-sided laminating machine

- Workpiece cleaning
- Dual unwinding at the top and bottom for continuous operation
- TrueCoat FS slot nozzle for minimum glue application quantity
- Heated calender with a diameter of 500 mm

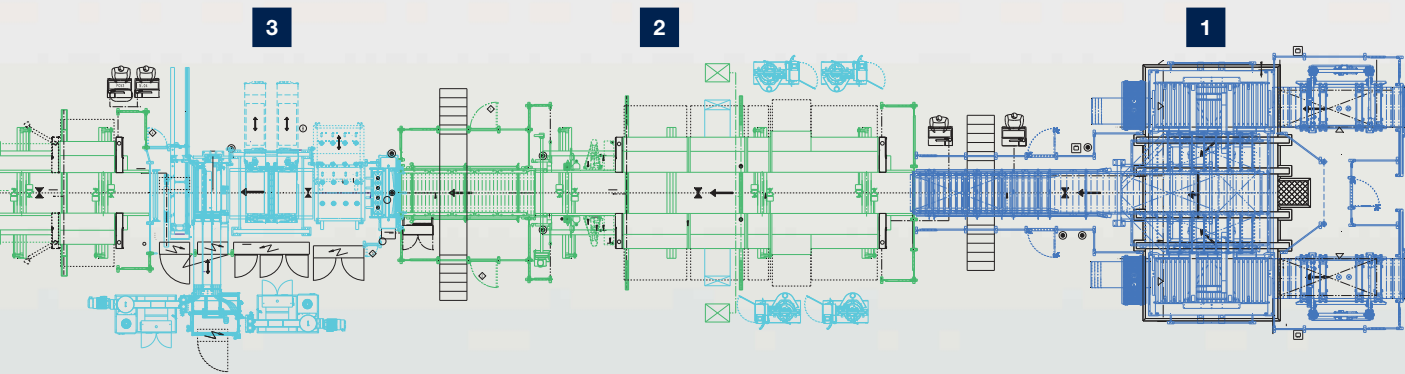
4 EDGETEQ S-810 wrapping machine

- Formatting of the paper overhang at flat laminating
- For L, inlay (U), and roof profiles
- Finish processing of the edges
- Units for grooving trimming etc.

LAMTEQ F-300 completeLine

Unbeatable: With our LAMTEQ F-300 completeLine, the unprocessed chipboard is formatted, the longitudinal edges profiled and finished, the surface is laminated and the edges are wrapped in a single throughfeed. The chipboard is then cut with a diagonal saw and, where required, the panels divided in the middle. The surface is bonded with hot-melt

glues. All common edge profiles can be executed, from a simple L profile to a U profile, with butt joint for coating from below. Thanks to the high system availability, our LAMTEQ F-300 completeLine can be easily integrated into highly automated total production systems.



5 Diagonal saw

- Separating device for separating the workpieces in a laminated strand
- Deviding of the panel in the center

7 SAWTEQ C-700 separating double-end profiler

- For central division of the workpieces when laminated in double-width (e.g. side panels of a cabinet)
- Further processing via a groove trimmer

6 TFR 560 ejection station

- For ejecting scrap parts and workpieces with faults
- Ejection at production speed
- Can be extended with a check point

8 STACKTEQ C-500 destacking

- Multi-track destacking of workpieces
- Up to 36 parts/minute

Excellent workpiece quality

- No glue joints
- Decorative film on the surface and edges with no joint
- Closed, secure filling of the edge cavities
- Integrated edge sealing with no post-processing
- Flawless edge finish
- Greater impact resistance on the edges

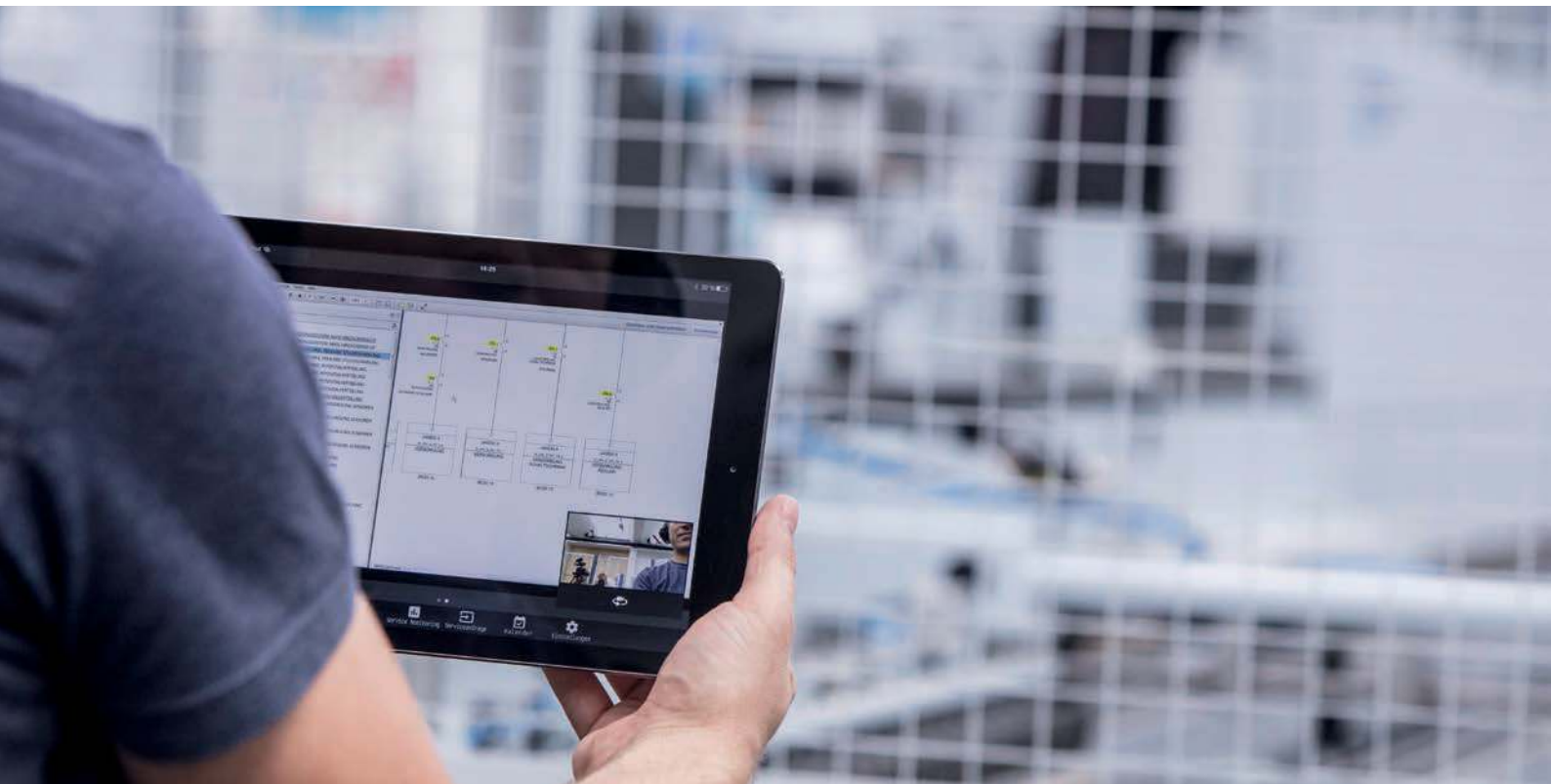
Excellent efficiency

- 25 – 30% cost saving due to cheaper raw materials and more economic process
- Shortened production times thanks to a minimum performance increase of 35% compared to known wrapping processes
- Short amortization time
- Change of decorative films without interruption
- High system availability
- Low space requirement
- Low storage

Easy to get. And easy to use.

tapio is the open wood industry ecosystem

This means that everyone involved in the wood industry can participate.
Because together with our business partners, we develop digital solutions for everyone.



Just have a try:

Free use of the MachineBoard app! Just register under tapio and „connect“ the machine www.tapio.one. The complimentary usage is limited in time.

Apps that make working life easier

tapio

Partner

DataSave

- Protects machine and configuration expertise
- Faster service for machine breakdowns
- Saves time when restarting production
- Saves on maintenance costs
- Automatic backups of several machines

ServiceBoard

- Create service cases quickly and easily and send them to the correct service partner
- Live video diagnostics to solve service cases with image support
- Video reduces the language and distance barriers
- Also works without a machine connection to tapio (and is therefore ideal for older machines)

MachineBoard

- Push notifications
- Machine data and status can be viewed from anywhere in real time
- Lists of errors, warnings, maintenance tasks and actions
- Displays the remaining time until the next intervention by the machine operator



Free demo for all tapio apps, no registration required. Simply download and test.

Currently available in the EU and Switzerland

(Due to the fast pace of the IT-landscape, the compatibility to the tapio platform is warranted for five years.)

HC LIFE CYCLE SERVICES

Optimal service and individual consultations are included in the purchase of our machines. We support you with service innovations and products which are especially tailored to your requirements. With short response times and fast

customer solutions we guarantee consistently high availability and economical production – over the entire life cycle of your machine.



REMOTE SERVICE

- Hotline support via remote diagnosis by our trained experts regarding control, mechanics and process technology. Thus, more than 90% less on-site service required and consequently a faster solution for you!
- The ServiceBoard App helps to solve tasks in a fast, simple and concrete way. This is achieved by mobile live video diagnosis, automatic sending of service requests or the online spare parts catalog eParts.



SPARE PARTS SERVICE

- High spare parts availability and fast delivery.
- Ensuring quality by predefined spare parts and wear parts kits, comprising original spare parts.
- Identify and inquire for spare parts online under www.eParts.de 24/7, or buy even faster and more comfortably in the new HOMAG Webshop eCommerce.



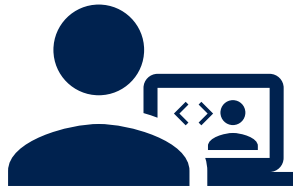
MODERNIZATION

- Keep your machinery up to date and increase your productivity as well as your product quality, This is how you can meet tomorrow's requirements today!
- We support you with upgrades, modernization as well as individual consultancy and developments.



DIGITAL SERVICES

- ISN (intelliServiceNet) – The new remote service solution of the future! Fast restart of production because the remote service employee has extensive access to relevant physical data.
- intelliAdvice App – provides help for self-help. The preventive solutions proposed in the new App are the combination of our experiences and existing machine data.



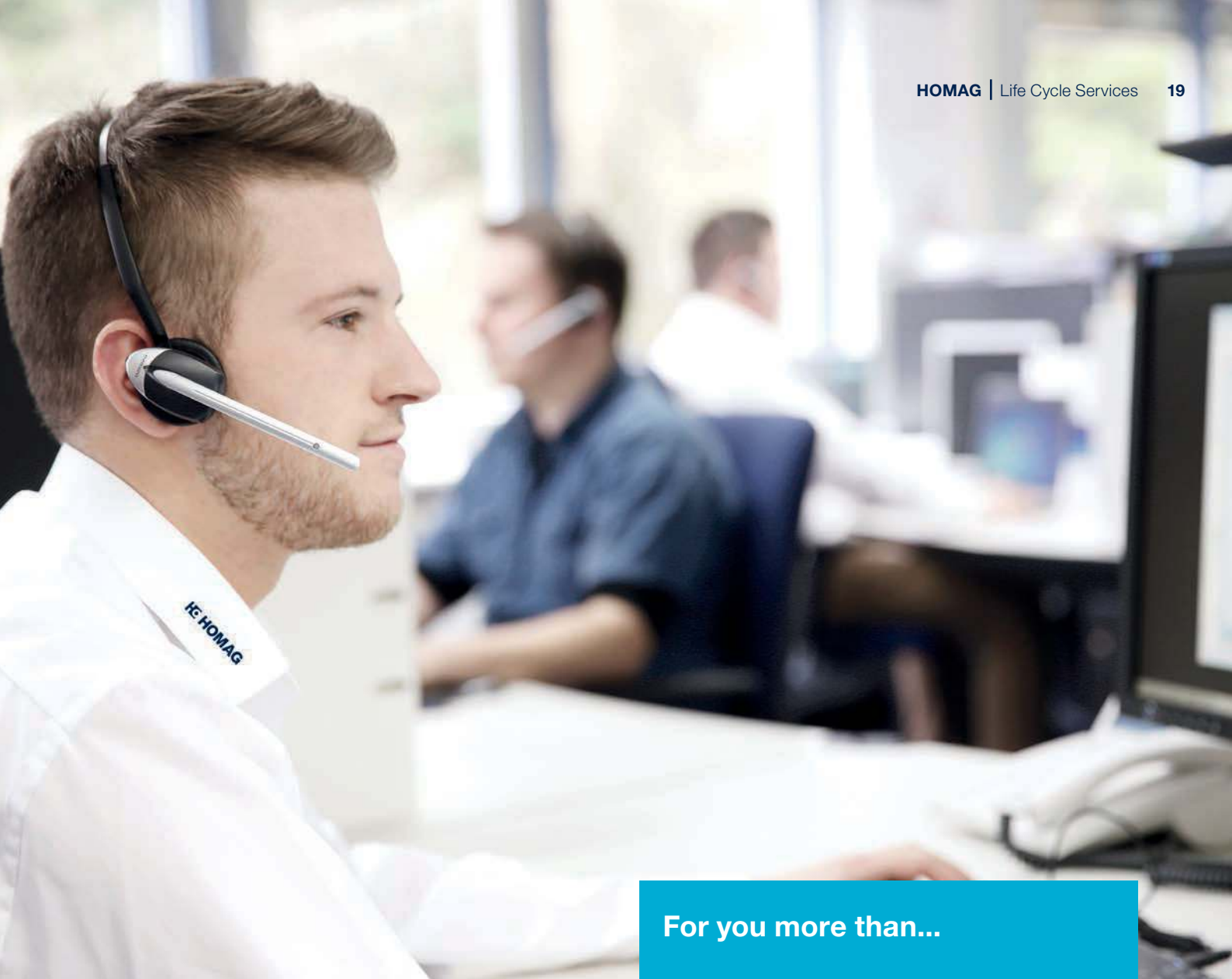
SOFTWARE

- Telephone support and consultancy through software support.
- Digitalization of your spare parts via 3D scanning saves time and money compared to new programming.
- Subsequent networking of your machinery with intelligent software solutions ranging from construction to production.



FIELD SERVICE

- Increased machine availability and product quality by certified service staff.
- Regular checks through maintenance / inspection guarantee the highest quality of your products.
- We offer you the highest availability of technicians in order to reduce downtimes in case of unpredictable troubles.



For you more than...

1,350

service employees worldwide

90%

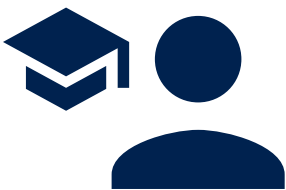
less on-site service thanks to
successful remote diagnosis

5,000

customer training sessions per / year

150,000

machines, all electronically documented
in 28 different languages – in eParts



TRAINING

- Thanks to training perfectly suited to your requirements, your machine operators can optimally operate and maintain the HOMAG machines.
- The training also include customer-specific training documents with exercises proven in practice.
- Online training and webinars. Learn without traveling, meet your trainer in the digital classroom.

HOMAG Group AG

info@homag.com
www.homag.com



YOUR SOLUTION