

STRATO

*“DISCOVERY
CONSISTS OF
SEEING WHAT
EVERYBODY
HAS SEEN AND
THINKING WHAT
NOBODY HAS
THOUGHT”*

*Albert Szent-Györgyi
Nobel Prize in Physiology
and Medicine in 1937*



STRATO

NEW
GENERATION



STRATO

THE NEW GENERATION OF WRAPPING MACHINES

The widest space is the space for improvement!
WPR has always strived to fill this space by listening carefully to their customers and their needs.
Since our very first lamination machine in 1999, WPR has produced countless machines, all with one thing in common: they all provided solutions for the particular needs of the customer.
As a result WPR has continuously developed improvements but also made revolutionary inventions over the years.

We reached a turning point when we realized the time was long over-due to change the state of the art. This is how the new generation of STRATO machines came to be.
Numerous technical features increase productivity and reduce set-up times in combination with a fully automatic process control that guarantees the necessary process reliability for a top quality output. Drastically reduced consumption of energy and resources for sustainable production and savings that allow a quick return on investment.

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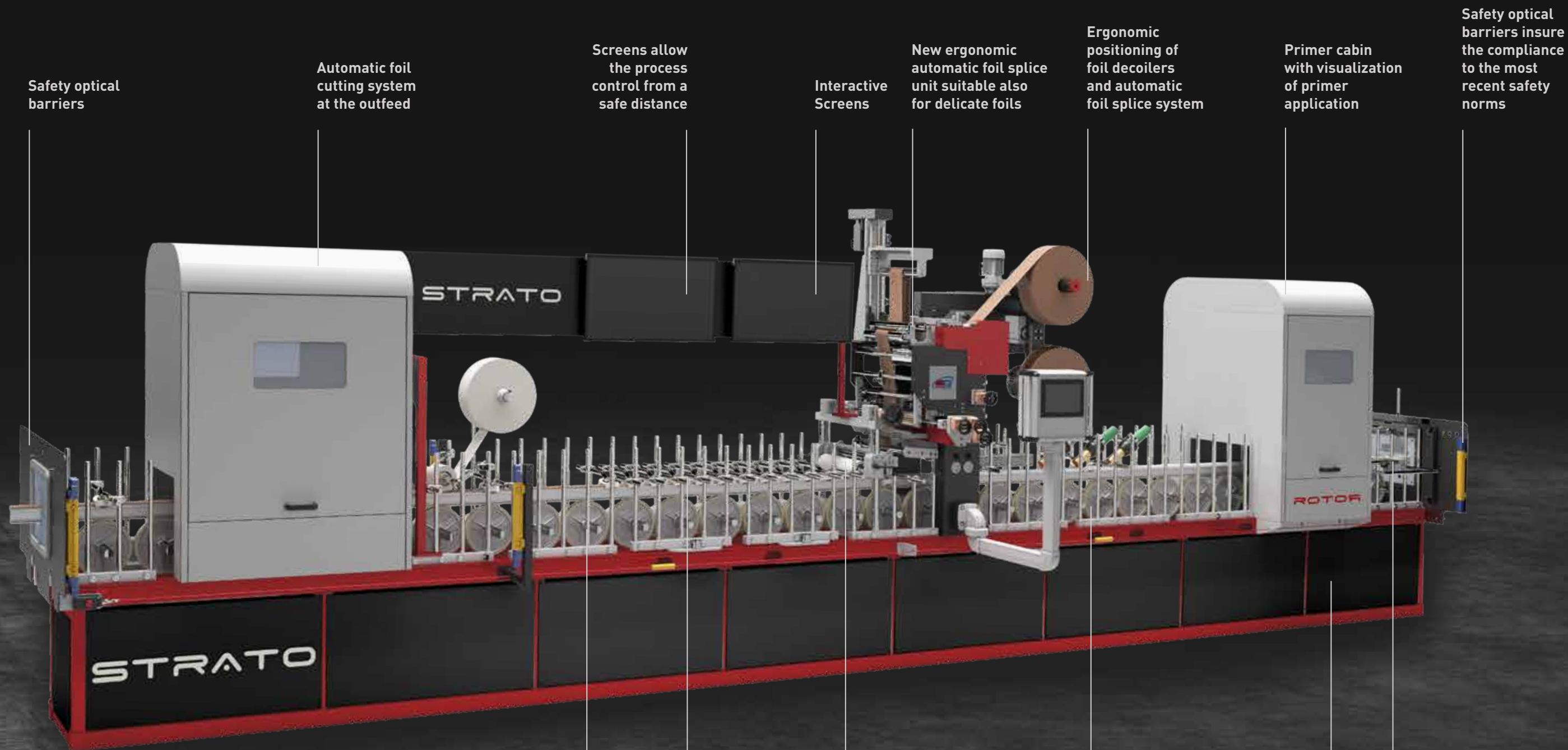


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MECHANICAL FEATURES

MECHANICAL FEATURES



A series of new technical features has been introduced as standard raising this machine to the highest state of the art.
The machine provides the highest level

of safety, reliability and productivity, to facilitate the work of the operators. Further optional features can be fitted to reduce set-up times and increase productivity.

**Quick adjustment of
transport wheels,
5mm steps**

Ergonomic working height

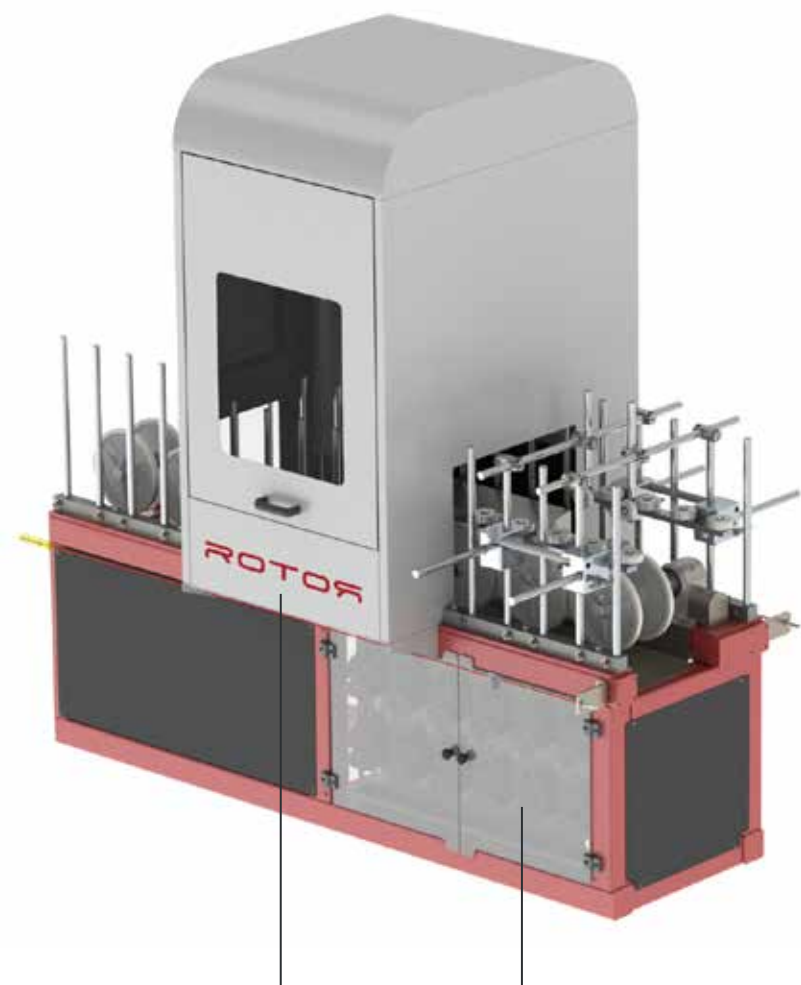
New pressing roller

**New machine
frame, gear box
of draft wheels**

Automatic primer dosing system ROTOR

**Profile guides
at infeed /
Air knives
at infeed**

AUTOMATIC PRIMER
DOSING SYSTEM



Primer cabin, black interior; fitted with webcams for visual primer control under UV light

Peristaltic primer dosing pumps



Continuous control of fill level

Primer is extracted directly from the canister

ROTOR PRIMER
DOSING SYSTEM

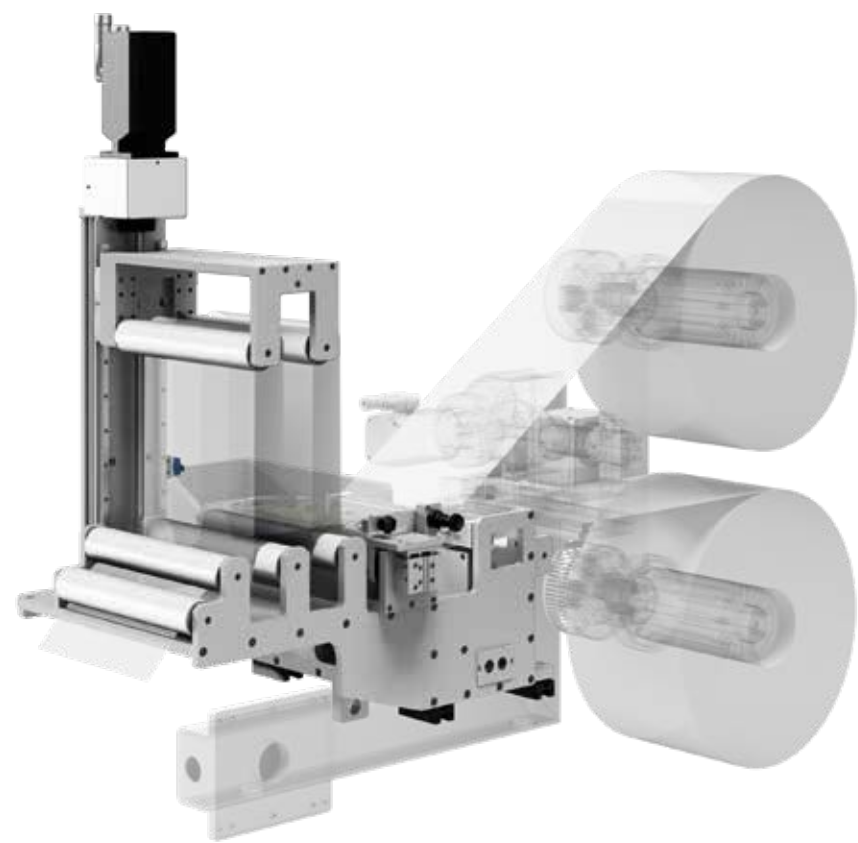
This is the most up-to-date precise dosage system in the wrapping industry. Special chemical process pumps controlled by servo-motors adjust with maximum precision the quantity of primer to be applied, following the working speed. The high dosage precision guarantees excellent application quality results while enabling savings of primer and energy during drying and protects the environment.

ADVANTAGES

- No calibration of pumps necessary
- Medical precision of primer dosing
- Low maintenance efforts
- No need for the operator to refill the primer tank
- Ideal for low-VOC primers



AUTOMATIC FOIL SPLICE SYSTEM

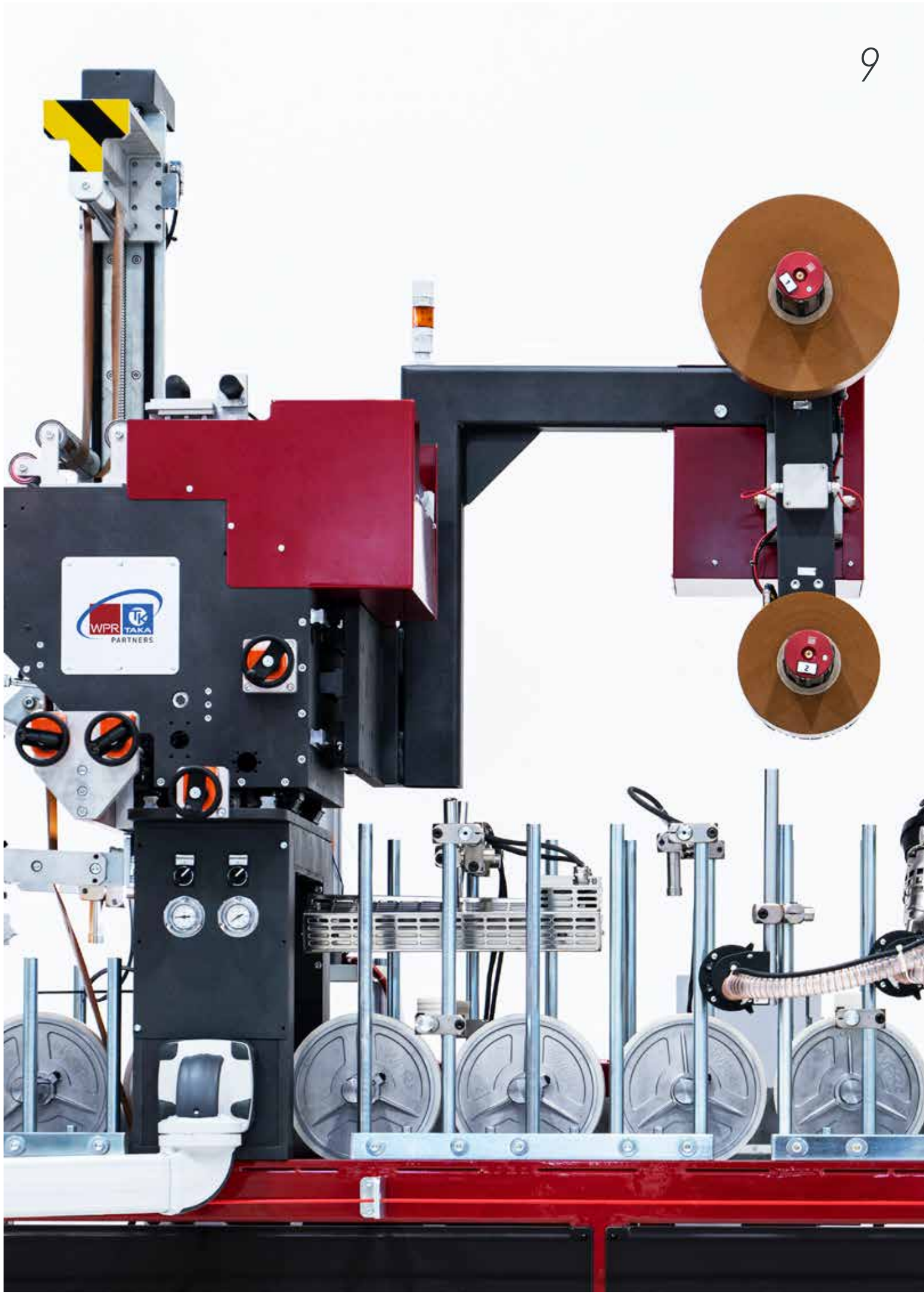


AUTOMATIC FOIL SPLICE SYSTEM

The foil splicing system switches from the working foil to the foil on stand-by automatically. A pneumatic cutting system is positioned on top of the splicing unit. The servo assisted foil buffer system has automatic position control. The cutting position is managed from the main control panel through CPU and detection photocell.

ADVANTAGES

- Easy to operate
- Considerable increase in production capacity
- Elimination of machine downtime
- Waste reduction



AUTOMATIC MAGNETIC
FOIL CUTTING SYSTEM
AT THE OUTFEED



AUTOMATIC
MAGNETIC FOIL
CUTTING SYSTEM
AT THE OUTFEED

The automatic foil cutting system works independent of the length and speed of workpieces. The system is equipped with 2 linear motors, relevant position controls and automatically manages the spacing between profiles. The cut is performed between two profiles.

ADVANTAGES

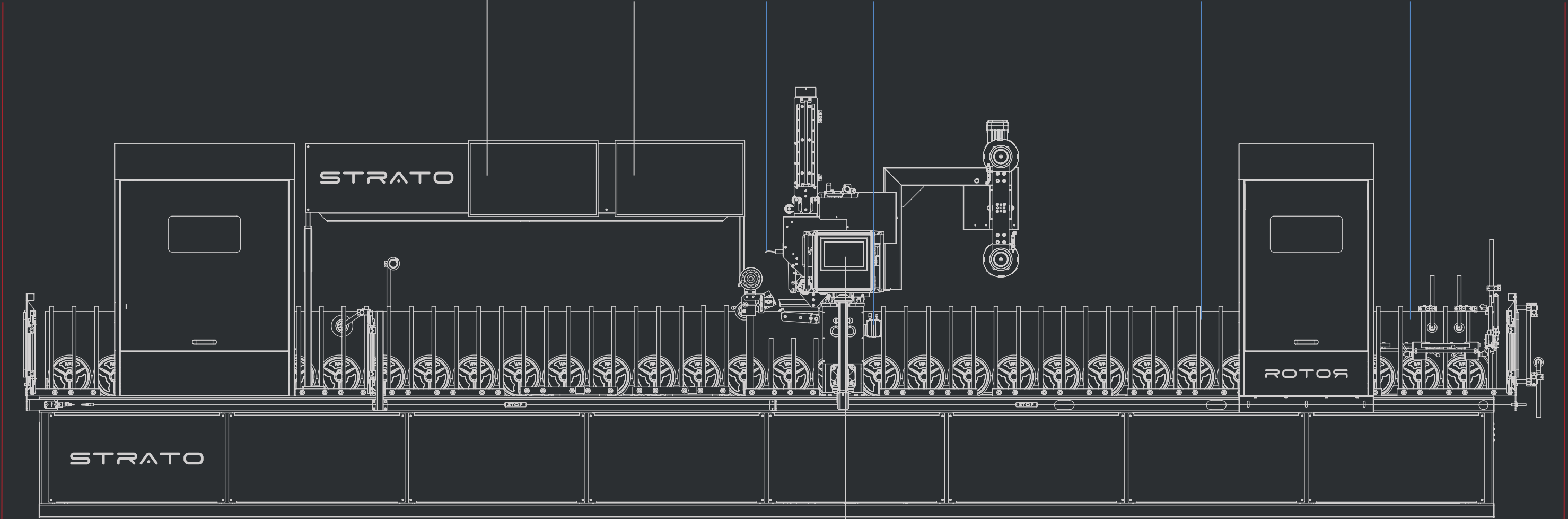
Running on linear motors
High reliability
Fast cutting cycles
State-of-the-art engineering



AUTOMATIC PROCESS CONTROL

AUTOMATIC
PROCESS
CONTROL

Control of temperatures at outfeed Visualization of the primed profile Overview of all process temperatures Automatic adjustment of the foil temperature Automatic temperature adjustment of IR lamps Automatic temperature adjustment of air blowers Automatic temperature adjustment of air blowers Monitoring of room temperature and relative humidity



STRATO is the first manual lamination machine with an automatic process control. All key process parameters are monitored, registered and, if necessary, automatically adjusted to the recommended process parameters. If a parameter is out of the range the machine will advise the operator to check.

This way the operators have all parameters under control and can focus on the essential work. Man and machine work in perfect synergy to obtain the best possible quality on the laminated profiles.



Profile recipes complete with pictures illustrating the correct wheels for set up provide quicker set up and know-how available to all operators. Data export of working parameters such as glue and primer quantity, foil, lot numbers of materials, working hours, produced meters are also included

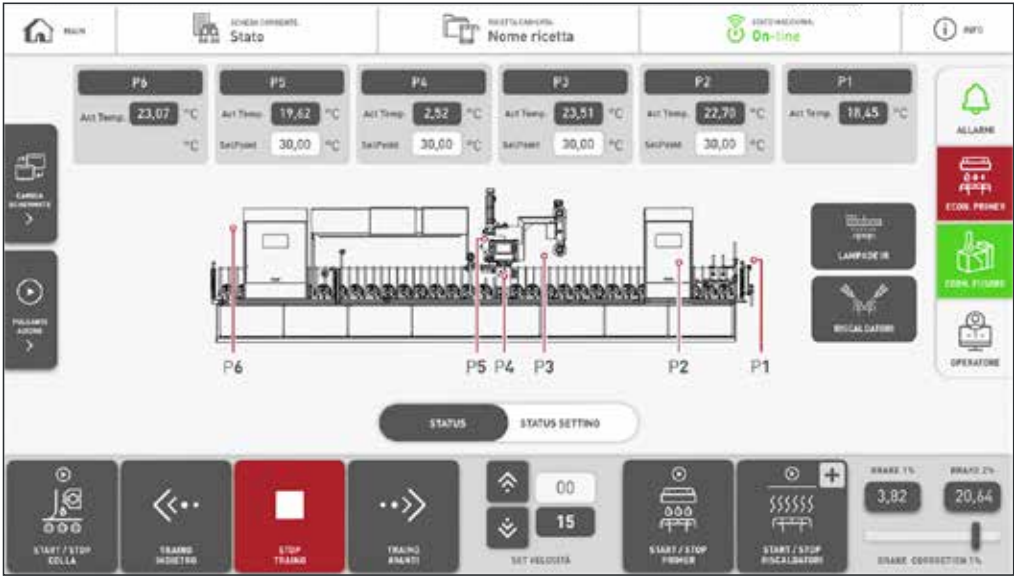
Control of temperatures at infeed

*NEW
SOFTWARE
AND
INTERFACE*

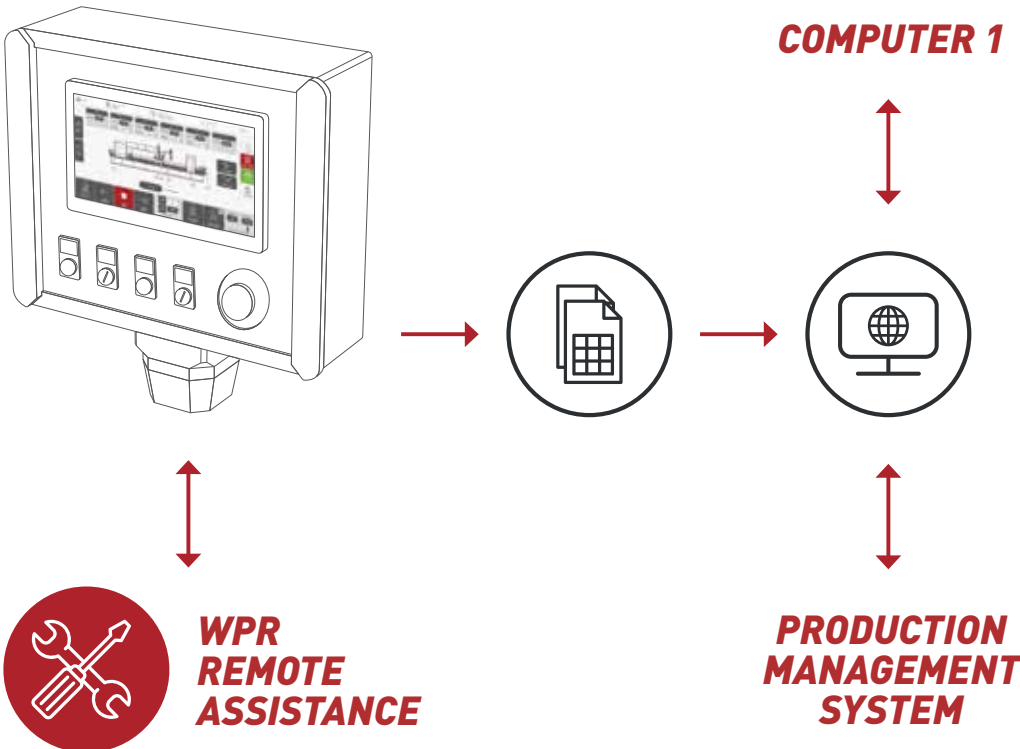
NEW SOFTWARE AND INTERFACE

WPR has developed completely new software, which is able to manage all the production data in a fast and reliable way. The system can be connected with an external production management system and is Industry 4.0 ready. The brand new user interface features a modern and intuitive

design which allows the operators to easily navigate through the menus and settings. If connected to the internet, a series of online services is available, such as opening a ticket with WPR's technical assistance, remote assistance, or spare parts orders.



DATA EXPORT



*COST
SAVINGS*

COST SAVINGS



REDUCED SET-UP TIME

SAVINGS ON LABOUR COST + INCREASED PRODUCTION CAPACITY

STRATO is equipped with quick draft wheels positioning, profile guides, push&pull kit.

Parameters like foil width, glue dosage, primer dosage, air heaters and IR lamps temperature are saved as recipes for each profile. Pictures of ideal set-ups can be saved for quick intuitive set ups.



ENERGY SAVING

30% REDUCTION OF ENERGY CONSUMPTION

Due to the automatic process control and regulation, all heating elements only work if necessary.

This leads to a reduction of up to 30% of electricity consumption compared to a traditional lamination machine. With the optional Energy Pack the energy consumption can be monitored and tracked over time.



REDUCTION OF CLAIMS

LESS COSTS DUE TO RECTIFICATION OF DEFECT PRODUCTS OR MANAGEMENT OF CUSTOMER CLAIMS

Overall reduction of costs due to quality issues and improvement of the brand image as a quality supplier.

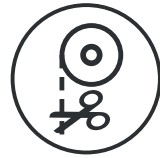


MATERIAL SAVINGS

REDUCED CONSUMPTION OF PRIMER AND GLUE WITH OVERALL REDUCTION OF SCRAP MATERIAL

Thanks to the automatically controlled lamination process, production of scrap of materials is drastically reduced.

The optional Energy Pack features special stand-by modes for glue and primer in order to avoid waste of these materials.



AUTOMATIC FOIL CUT AND GLUE APPLICATION INTERRUPTION AFTER THE LAST PROFILE

ALLOWS A SAVINGS OF 3 TO 6 LINEAR METERS OF FOIL PER LOT + REDUCTION OF FOIL SCRAP

Included in the optional Energy Pack, this technology cuts the foil automatically after the last profile of each production lot. Operators normally leave 3-6m of foil after the last bar, leading to increased consumption, material costs and production waste.



SERVICE & MAINTENANCE

SERVICE & MAINTENANCE



REMOTE TECHNICAL ASSISTANCE:
QUICK RESOLUTION
OF PROBLEMS



MAINTENANCE-FREE
AUTOMATIC FOIL
CUTTING AT
OUTFEED



SPARE PARTS
ORDERS ONLINE



MAINTENANCE FREE
ROTOR PRIMER
DOSING SYSTEM



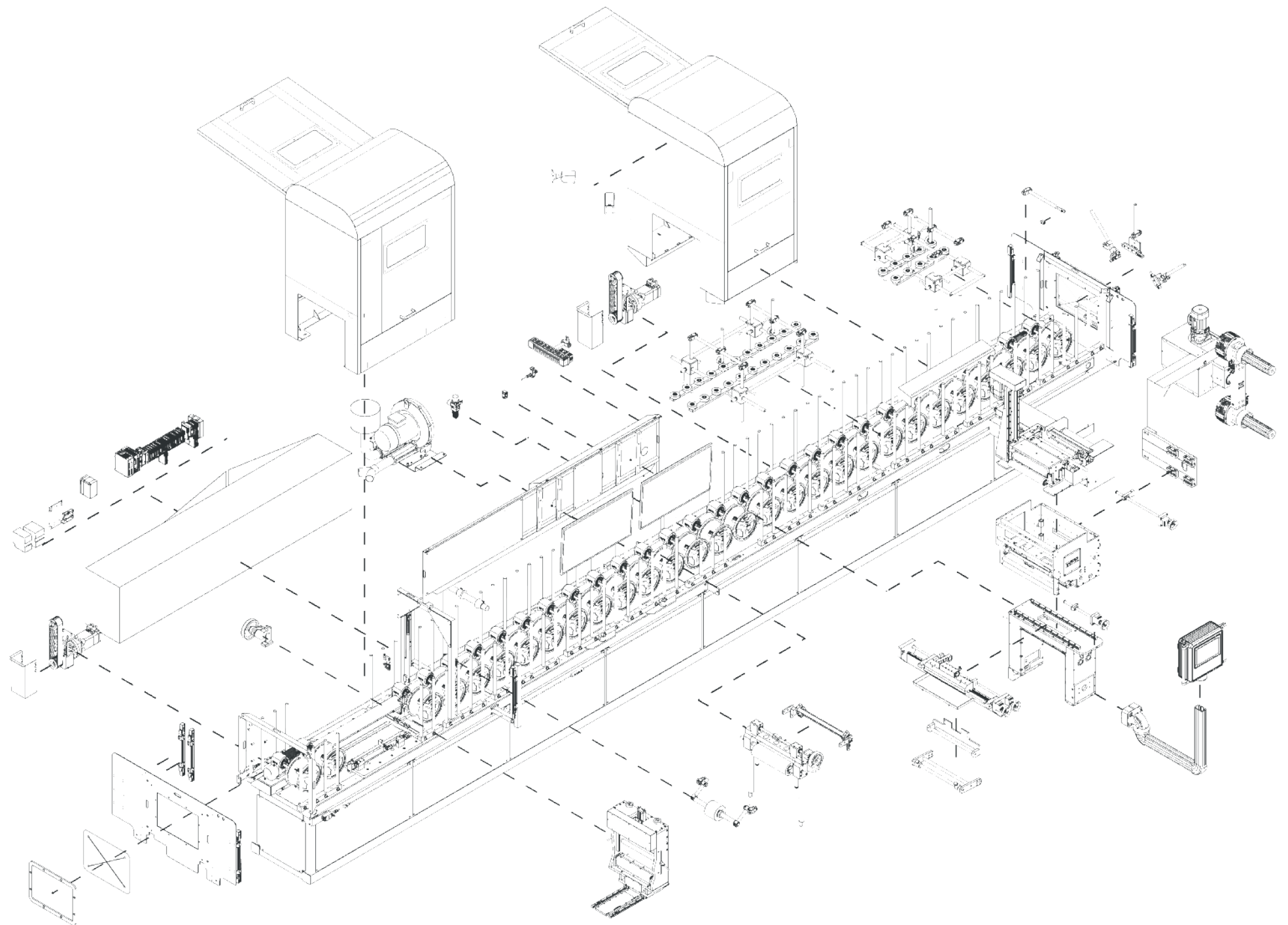
VISUALIZATION OF
TUTORIALS ON
MAINTENANCE
INSTRUCTIONS



VISUALIZATION OF
TUTORIALS
ON **APPLICATION**
TROUBLE SHOOTING



PREVENTIVE **MAINTENANCE REMINDERS ON THE MACHINE**
DISPLAY LESS MACHINE BREAK DOWN



STRATO-L





STRATO

STRATO-L

THE NEW GENERATION OF DOUBLE SIDE LAMINATION MACHINES

It was a logical decision to integrate the new STRATO technology in the double side machines as well. On these machines operators are facing the challenge of supervising and laminating two sides of the same profile at the same time, while working at high speeds. The STRATO system automatically monitors all key process parameters for both sides of the profile, taking pressure off the operators.

ADVANTAGES

Contemporary lamination of two sides of the profile

Twice the output of a single side lamination machine

Featuring automatic process control of both sides of the profile

Optimized consumption of materials and energy for maximum efficiency



NEW GENERATION

STRATO

