

Texprofin[®]
High performance solutions

SMART FROM THE START



**Servo
Vision
Robot**



TEXPROFIN

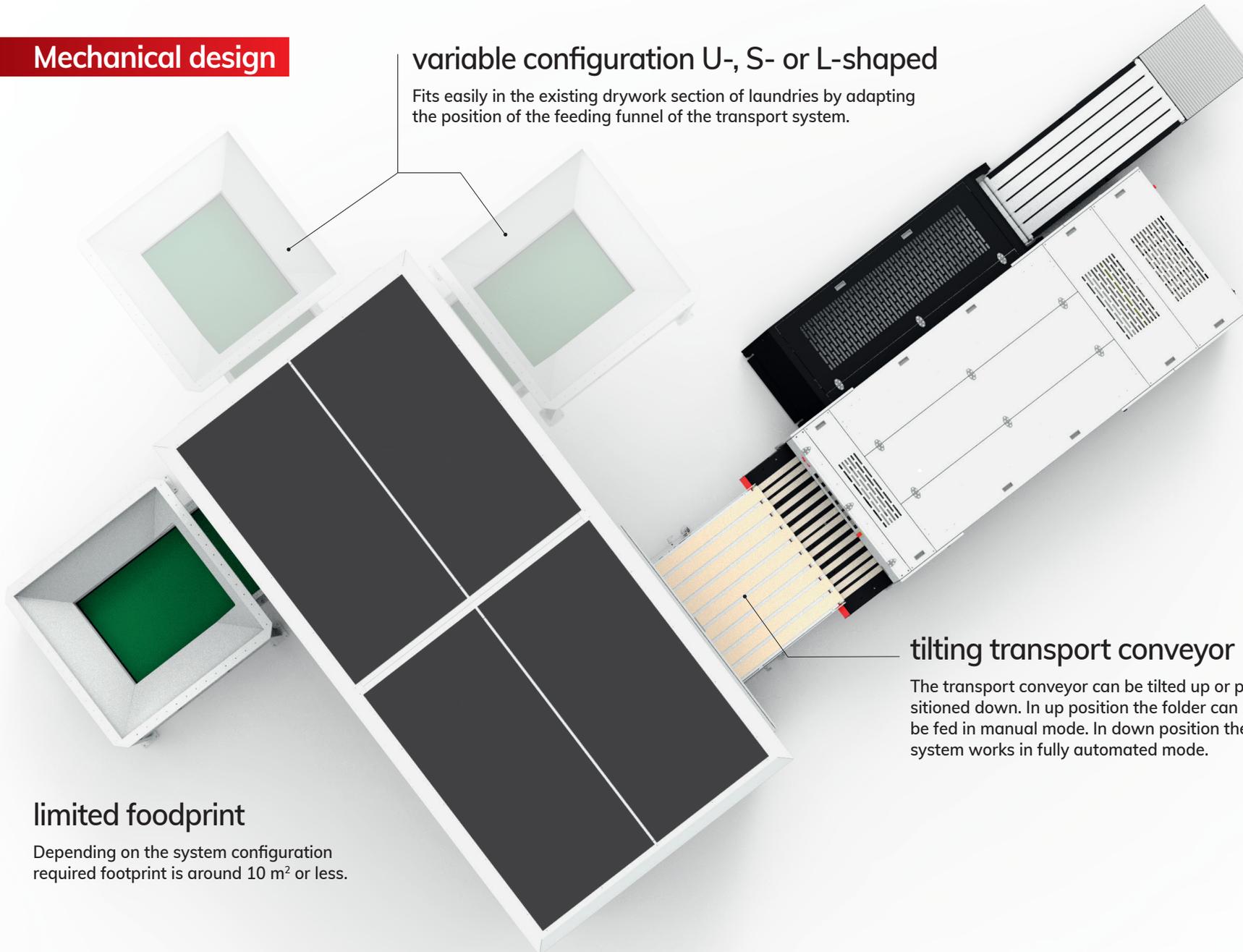


High productivity combined with high flexibility, no compromise on quality, this is Texprofin's fully automated towel folding line! The High-tech robotic picker feeder system, the combination of Servo Vision Robot and the Servo Xtreme towel folder.

Mechanical design

variable configuration U-, S- or L-shaped

Fits easily in the existing drywork section of laundries by adapting the position of the feeding funnel of the transport system.



tilting transport conveyor

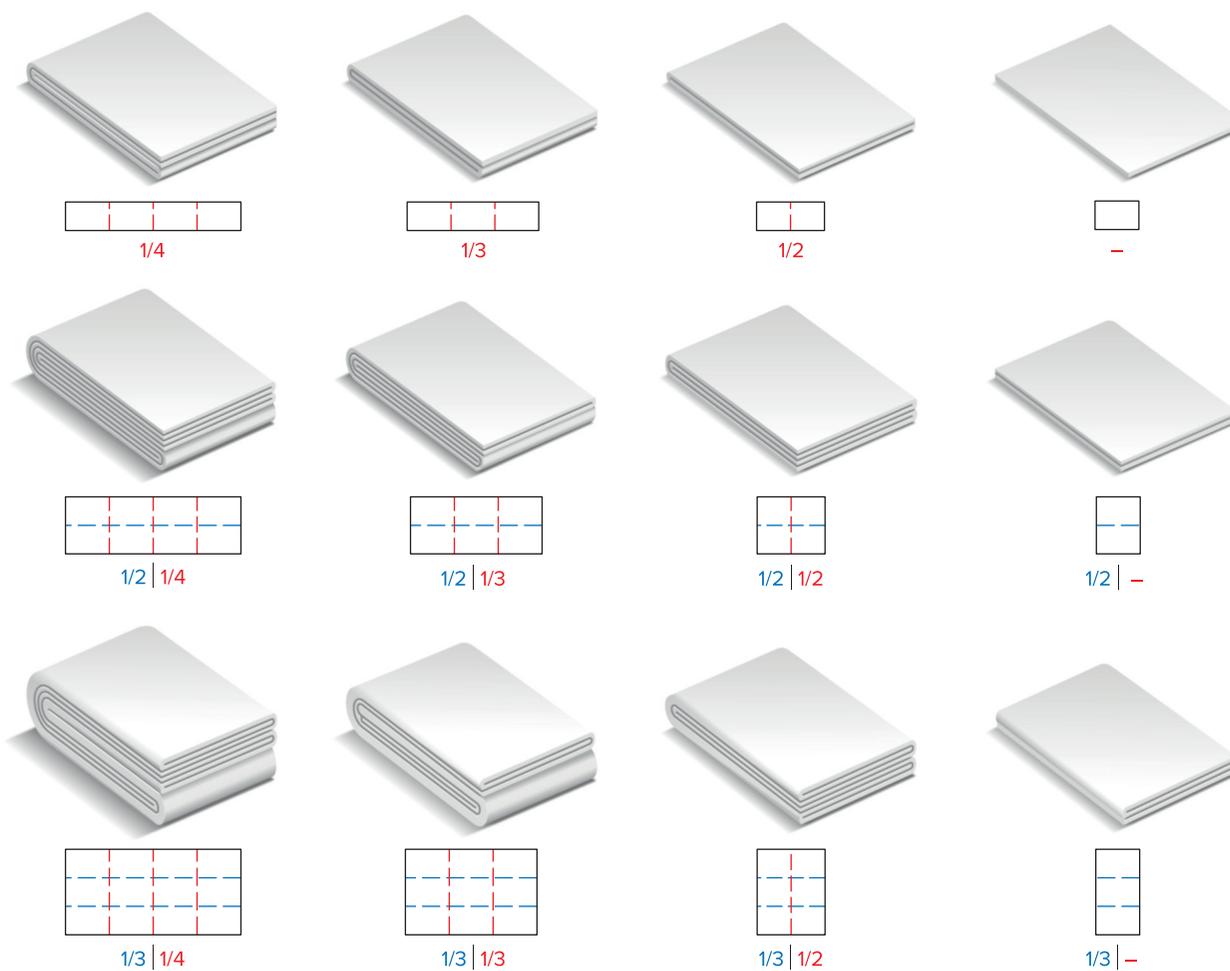
The transport conveyor can be tilted up or positioned down. In up position the folder can still be fed in manual mode. In down position the system works in fully automated mode.

limited footprint

Depending on the system configuration required footprint is around 10 m² or less.

Below an overview of the folding patterns that can be carried out depending on your longfold and crossfold requirements.

Folding patterns



A by-pass or no longfold is possible for items with a maximum width of 600 mm. Texprofin's standard folder is able to fold rectangular items with maximum dimensions of 1200 x 2000 mm and minimum dimensions of 200 x 200 mm. Fitted sheets, different type of garments and other items can be folded as well.



Special attention has been given during the development of Texprofin's towel folder to safety for operators and service technicians. The optimal balance between high safety standards and operational ease of use has been chosen. All mechanical components of the longfold section and crossfold section are easily accessible always, taking safety of operators and technicians into consideration.

Ease of maintenance and safety

accessibility of electric components

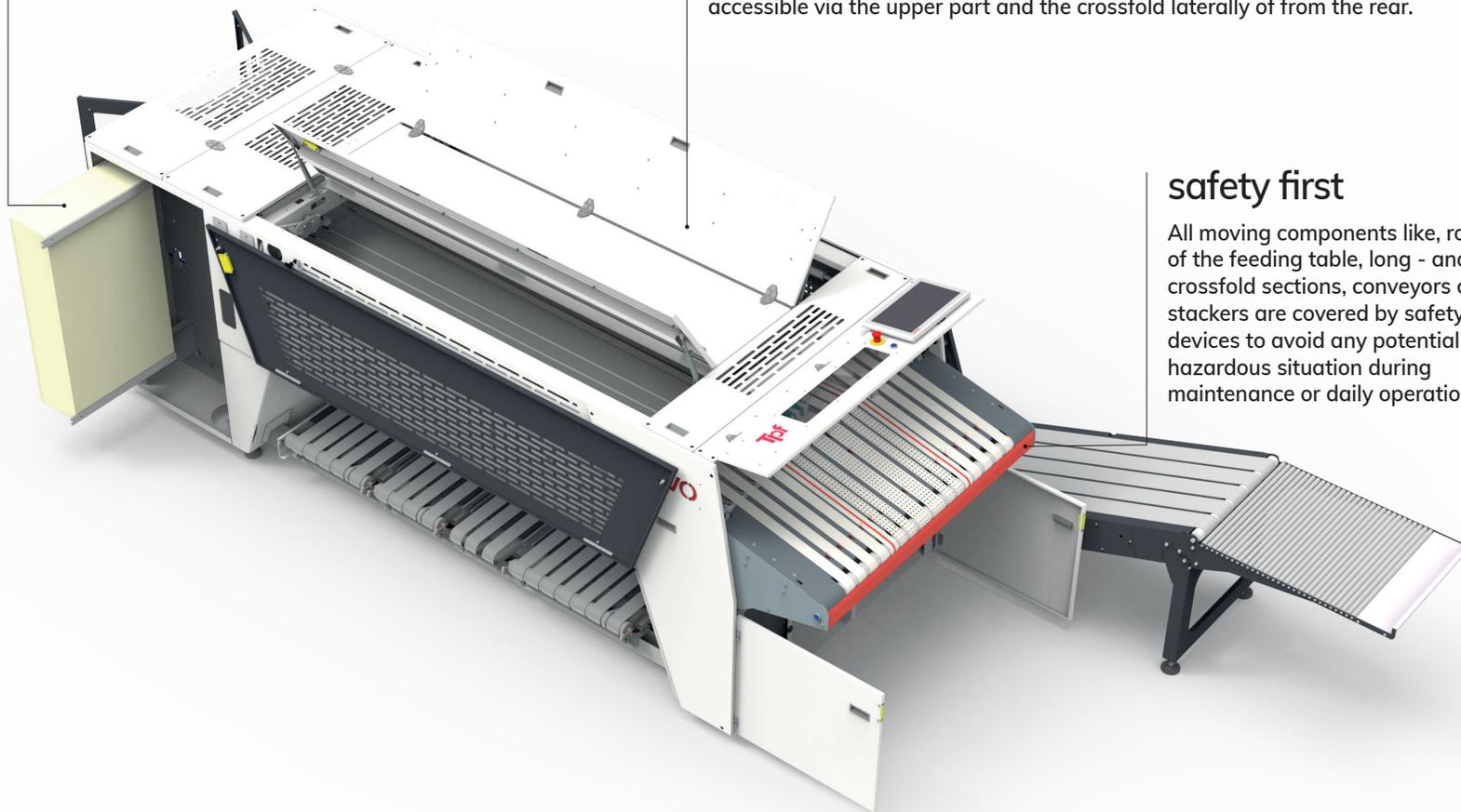
All electrical cabinets are located on either side of rear part of towel folder. All servo motors are identical to limit the spare parts stock. The use of as much as possible identical mechanical and electronic parts reduces the need for spare parts and makes maintenance operations easy.

accessibility of mechanical components

Special attention has been given during the design of the machine to ensure easy access of mechanical components like motors or bearings or consumables like belts. Service of the feeding table, long - and crossfold section is fairly easy due to easy access to the different components. The longfold section is accessible via the upper part and the crossfold laterally of from the rear.

safety first

All moving components like, rollers of the feeding table, long - and crossfold sections, conveyors or stackers are covered by safety devices to avoid any potential hazardous situation during maintenance or daily operations.



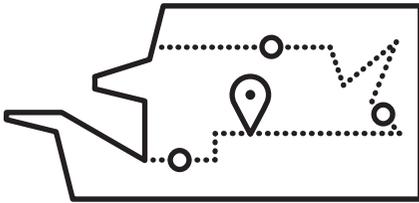


The servo motors with encoders allow the measurement of pulses (as opposed to time with fixed speed machines).

This allows us to determine instantly the length and position of items precisely during the folding process.

Folding moments can accurately be defined with variable speed settings and different type of goods.

Servo motors



precise positioning

The feeding table, longfold section and crossfold sections are all equipped with servo motors, to ensure precise folding sequences and provide articles length - and positioning information to the system. Jams will be detected and the machine will stop immediately.

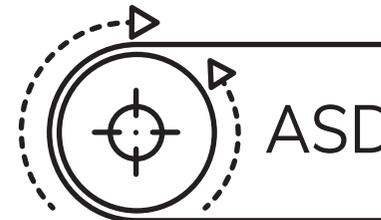


preventive maintenance & monitoring system

Servo motors and encoders allow us to keep track of the real wear and tear of moving parts and some consumables accurately. The folder will inform the operator whenever maintenance is needed or lubrication of linear guideways should be performed.

anti slip detection system

Slip between traction rollers and belts or between belts and terry towels are contributing to incorrect folding actions. Servo motors and encoders can deliver very useful data to determine whether slip is occurring in the system or not. This allows the folder to take the necessary corrective action or inform the operator that belts should be tightened or replaced in a specific section of the towel folder.





Industrial hardware combined to a software offering full flexibility and integration into a larger production chain.

Controls and software

▶ intuitive controls and programming

Easy programming after installation or for new articles is another major benefit of Texprofin's folder. Once a folding program is configured on one folder it can easily be copied to all other folders without any machine specific parameter changes.



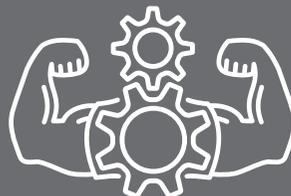
▶ large touchpanel



All types of manuals (user manual, general maintenance manual, electrical schematics, spare parts manuals, etc ...) are stored on the IPC. Operators or technicians can easily access them and view them on a 10" or 15" touch panel.

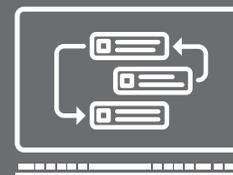
Videos illustrating some problem solving actions or other maintenance procedures are also available.

▶ robust industrial hardware and flexible software



The choice for Beckhoff controls was a straight forward choice given the unlimited possibilities for the actual range of towel folder and the potential development and integration in a fully automated system.

Combined with the 10" touch panel, it daily operations for operators or servicing the machine for any technician is greatly simplified.



▶ data storage and remote access



Unlimited data storage is one of the major benefits of this choice. Operational data and production data can be stored without limits on the IPC of the folder. Remote access can be easily implemented without additional hardware.

Data can easily be retrieved to feed laundry performance systems.

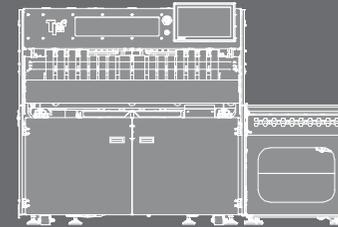
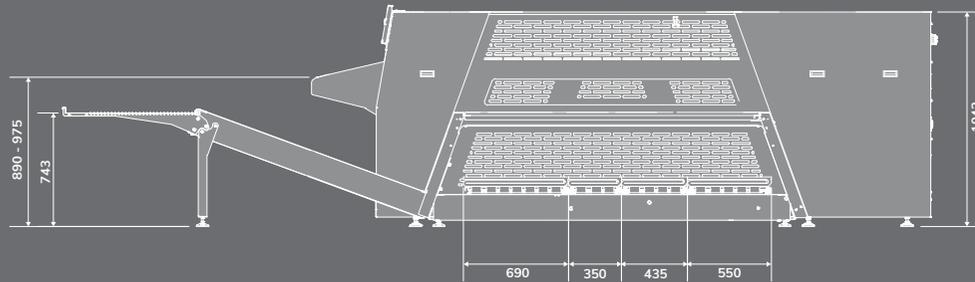
▶ camera and quality controls

A camera located inside the machine with a view on the stackers allows the operator to check the folding quality of items on the stackers without having to leave his working position in front of the feeding table.



Below a side and top view with dimensions (**) of a single machine. Different configurations are possible, like side by side or connected to a central transport conveyor connected to a stack packing device.

Technical data



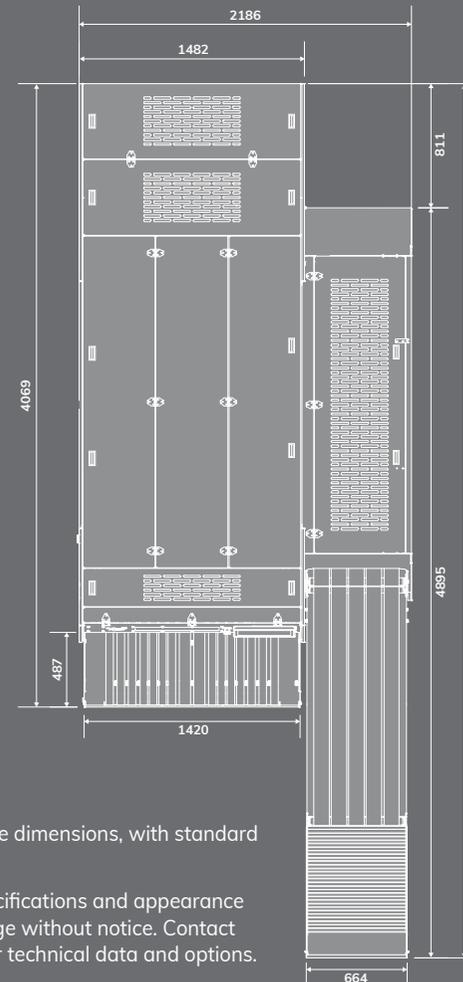
Overview standard features and options (*)

- Maximum width 1200 mm
- Maximum length 2000 mm
- Multiple width photocells
- Advanced 10" interactive color display
- Servo motors feeding, long and crossfold sections
- Longfold action
- First crossfold airblast and reversing belts
- Second crossfold air / blade and reversing belts
- Remote access for diagnostic and data acquisition
- Single or double pair of flaps
- Manuals and technical info on 10" touch panel
- Unlimited production data
- Stackers air piston / motor driven
- Full motion control transport conveyor / buffer
- Inclinable feeding table
- Suction feeding table
- Stacker camera for fold quality control
- 15" touchpanel with camera view
- Airco electric cabinet

SERVO

	Precision	Xtreme
•	•	•
•	•	•
•	•	•
•	•	•
•	•	•
air	blades	•
•	•	•
blade	blade	•
•	•	•
double	double	•
•	•	•
•	•	•
motor	motor	•
•	•	•
○	•	•
○	•	•
○	○	○
-	○	○
○	○	○

• standard ○ optional - not available



(**) Approximate dimensions, with standard accessories

(*) Options, specifications and appearance subject to change without notice. Contact factory for other technical data and options.

SERVO

About us

Years of experience in industrial laundry machinery by the managers of Texprofin combined with the strength of a large engineering and manufacturing company in the textile industry creates an excellent foundation to create a large player in technical solutions for industrial laundries.

Our partner Matthys Group supports us with their 50.000 m² large production facility, +100 staff and 50 engineers for mechanical design and software development and state-of-the-art production equipment.

'Made in Belgium' stands for top quality. It is with this strive to perfection, and a passion for technique that we will take a leap forward.

We specialize in towelfolders and bring real innovation without any complexity to your laundry.

Our long term goal is to become the market leader in fully automated towelfolding lines.

We welcome you in our premises.

Curious about our upcoming news ?

You can subscribe to our newsletter at www.texprofin.com/news to be the first to inform you about our latest developments and events.



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