



TEXFINITY®  
INDUSTRIAL LAUNDRY APPLIANCES



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 towel®  
FOLDING MACHINE

# T.towel® FOLDING MACHINE

The **T.towel** is able to sort and fold all kinds of towels, fitted sheets, garments (T-shirts, nightgowns, uniforms, hospital clothing etc.), laundry bags and all other dried pieces up to a length of 2400mm.

The feeding conveyor can be adapted in height to make it suitable for short and long operators. The conveyor has been extended, resulting in a better grip for longer towels.

The **T.towel** sorts automatically the various pieces based on length, consequently pre-sorting is not required. Optionally the **T.towel** can also sort based on width in case pieces of the same length exist that needs different kind of folding. Once the pieces are folded, they are directed towards a dedicated, programmable, stacker station. As soon as the required stack height is achieved, the pile is put on the final delivery belt (included in the machine). This belt can be located on the left or right side and delivers the piles either to the front or the rear of the machine.

As the **T.towel** is able to make up to 4 folds, many different folding patterns are possible. For each type, a separate folding pattern can be programmed, making the machine extremely flexible.

Compared with similar equipment, the **T.towel** has a minimum of moving parts and it is built out of standard components. Moreover, the latest version has better adjusting possibilities when replacing the drive belts.



## T.towel WHAT KIND OF PIECES CAN BE FOLDED ?



Pieces are put on the intake conveyor belt. This conveyor belt starts running once the piece is detected or after manual activation with a button at the side of the machine.

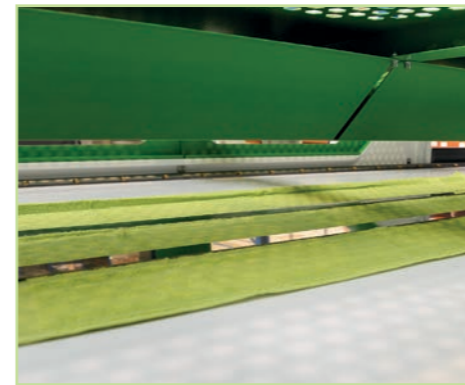


The **T.towel** is provided with a special feature to fold pieces that need extra corrections before being folded, like fitted sheets. After placing the sheet on the feeding table and pushing the button, the piece runs inside the machine and makes an automatic stop for correcting the tail end of the piece. Then, the operator pushes the button a second time so the folding process can start.



The **T.towel** can also fold T-shirts, underwear, pants, nightgowns, hospital garments and airline blankets.

## T.towel HOW ARE THE FOLDS MADE ?

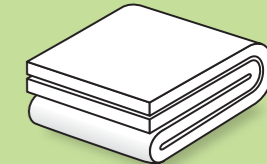


The primary fold(s) is (are) carried out by a pulsed airflow. Before the piece has entered completely the primary fold, the length is measured. Based upon this, one of the many possible folding patterns can be selected. The folding templates are automatically put in the right position and the pulsed air spray nozzles fold the piece tightly around the templates. The long primary fold is able to fold pieces up to 2400mm.



The **T.towel** is equipped with two cross fold sections. Each cross fold is made by reversing belts in combination with an air pulse. The result is a very precise and tight fold. Through the programming of the folding positions, several cross folding patterns can be realized. Also a bypass (no cross fold required) is possible.

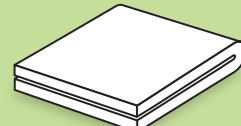
## FOLDING PATTERNS



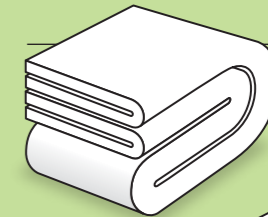
PF: Bypass  
CF: Quarter fold



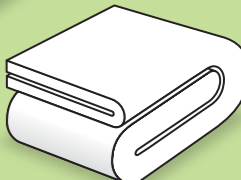
PF: Bypass  
CF: Third fold



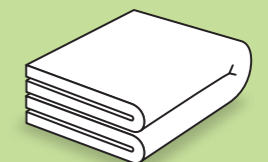
PF: Bypass  
CF: Half fold



PF: Half fold  
CF: Quarter fold



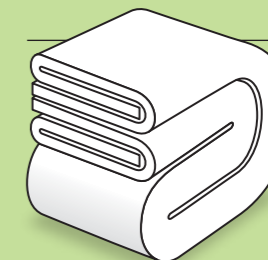
PF: Half fold  
CF: Third fold



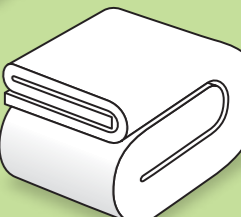
PF: Half fold  
CF: Half fold



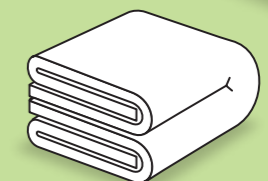
PF: Half fold  
CF: Bypass



PF: French fold  
CF: Quarter fold



PF: French fold  
CF: Third fold

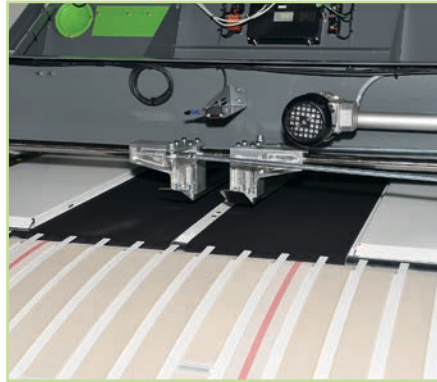
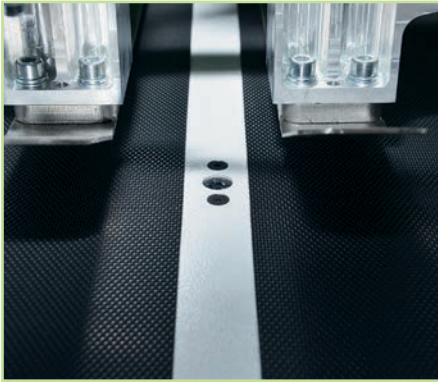


PF: French fold  
CF: Half fold



PF: French fold  
PF: Bypass

## T.towel CHARACTERISTICS



After finishing the folding process, pieces are stacked on a dedicated stacker station. As a standard, the **T.towel** is provided with 3 stacker stations, optionally a 4<sup>th</sup> stacker station is possible as well as a stacker with a different width.

Once the preset stack height is reached the pile is put on the final delivery belt by means of a telescopic system. This technology ensures a smooth and perfectly straight transfer onto the final delivery belt, with a minimum of moving parts.

In case two folders are put next to each other, each can have its own final delivery belt. Alternatively, both machines can be interconnected in master/slave configuration. Piles from both machines are put on one final delivery belt, allowing automatic direction of all piles towards a central conveyor belt leading to a packing/wrapping machine.

More information and possible multi-folder layouts can be found on the website ([www.texfinity.com](http://www.texfinity.com)).

The **T.towel** exists in two versions:

- **T.towel** Air L
- **T.towel** Air S

The two versions can fold pieces with a maximum length of:

- **T.towel** Air L : 2400mm
- **T.towel** Air S : 1900mm

## T.towel CONTROL SYSTEM



The **T.towel** has a PLC based control system. Operating the machine is done through an easy to use 7" color touchscreen. The control system needs a high computing power, therefore **TEXFINITY** has chosen **OMRON**. This powerful control leads to more precise folding, which has been clearly proven in comparative tests. Thanks to the responsive touchscreen of high resolution, making and changing folding programs becomes very easy.

Up to 99 different folding programs can be made and saved under an adjustable program name.

The big screen allows for easily tracing and resolving defective components and for the testing of functions.

Saved programs can be easily copied from one machine to another with an Internet cable or with a Flash Card. The control can also be connected to the Internet allowing online assistance or for adapting the SW. A connection module (option) makes building an Internet connection to the **Texfinity** Help-Desk very easy.

## TECHNICAL SPECIFICATIONS

Maximum piece dimensions :

T.towel Air L :	240 x 120 cm
T.towel Air S :	190 x 120 cm

Air pressure : 6 bar

Air consumption : 8 - 12 m<sup>3</sup>/hr

Air connection : ≥ Ø13mm

Power supply : 3 x 380V, 50Hz  
(3 x 220V and 60Hz also possible)

Power consumption : 1.5 kWh

Length T.towel Air L : 4241 / 5324 mm  
Length T.towel Air S : 3761 / 4852 mm  
(excl./incl. final delivery belt)

Width : 1396 / 1919 mm  
(excl./incl. final delivery belt)

Height : 1430 mm

Weight : 1100 kg