

HIGH SPEED TOWEL FOLDER



CHERRY TREE
INDUSTRIAL LAUNDRY SOLUTIONS

HIGH SPEED TOWEL FOLDER

An ecological
version of the
towel folder.



The new powerful 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 High Speed Towel Folder 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.

Compared with similar equipment, the High Speed Towel Folder 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.

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.

The High Speed Towel Folder sorts automatically the various pieces based on length, consequently pre-sorting is not required. Optionally the folder can also sort based on width in case pieces of the same length exist that need different kind of folding.



CONTROL SYSTEM

The High Speed Towel Folder 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 OMRON was chosen. 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. The control can be connected easily to internet for online support.

BLANKET



TOWEL



T-SHIRT



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 High Speed Towel Folder 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.

CHARACTERISTICS

After finishing the folding process, pieces are stacked on a dedicated stacker station. As a standard, the High Speed Towel Folder is provided with 3-stacker stations, optionally a 4th 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 with a perfectly straight transfer.

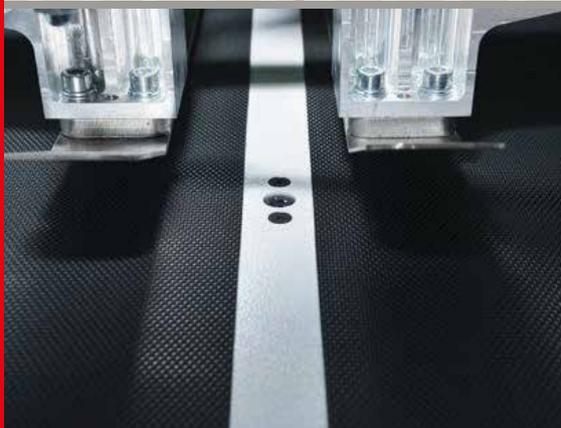
In case two folders are put next to each other, each machine can be interconnected in a master/slave configuration. Piles from both machines are put on one final delivery belt, allowing automatic direction of all piles towards a central conveyor belt leading to a packing/wrapping machine sorting area.

The High Speed Towel Folder exists in two versions:

- Air L
- Air S

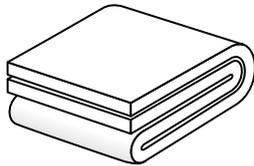
The two versions can fold pieces with a maximum length of:

- Air L : 2400mm
- Air S : 1900mm

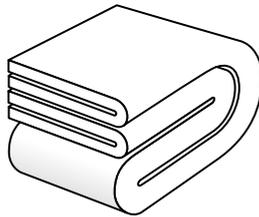


FOLDING PATTERNS

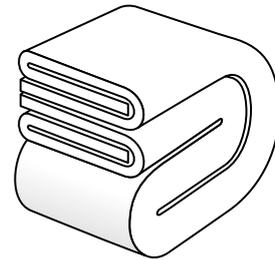
As the High Speed Towel Folder is able to make up to 4 folds, many different folding patterns are possible. For each type, a separate folding pattern can be programmed, making the machine extremely flexible.



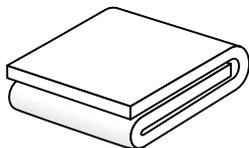
PF: BYPASS
CF: QUARTER FOLD



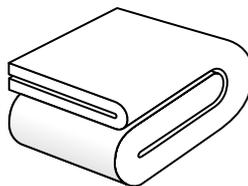
PF: HALF FOLD
CF: QUARTER FOLD



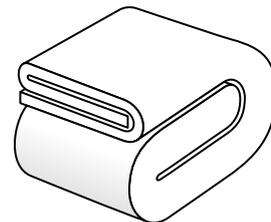
PF: FRENCH FOLD
CF: QUARTER FOLD



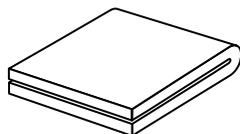
PF: BYPASS
CF: THIRD FOLD



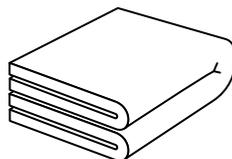
PF: HALF FOLD
CF: THIRD FOLD



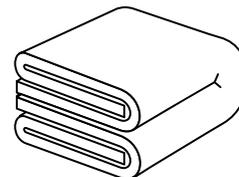
PF: FRENCH FOLD
CF: THIRD FOLD



PF: BYPASS
CF: HALF FOLD



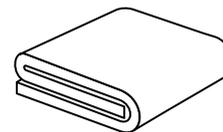
PF: HALF FOLD
CF: HALF FOLD



PF: FRENCH FOLD
CF: HALF FOLD



PF: HALF FOLD
CF: BYPASS

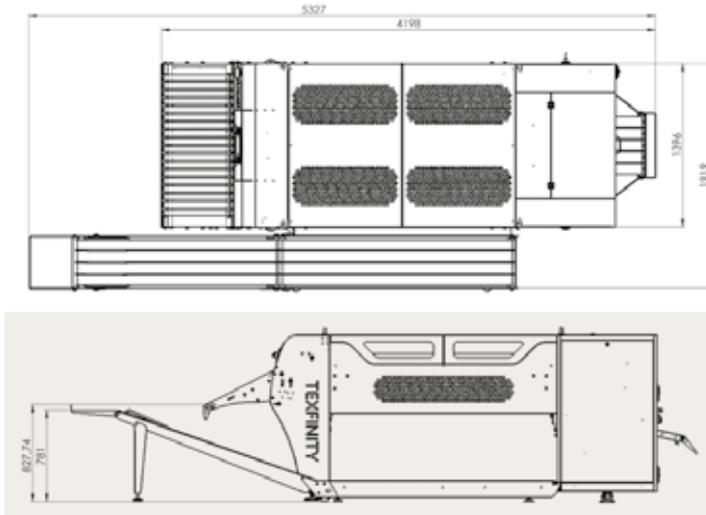


PF: FRENCH FOLD
PF: BYPASS

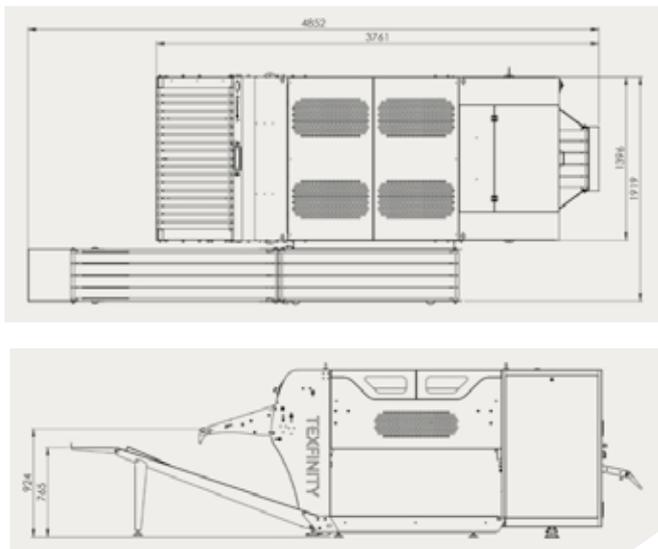
TECHNICAL SPECIFICATIONS

MAX. PIECE DIMENSIONS	Towel Air L: 240 x 120 cm Towel Air S: 190 x 120 cm
AIR PRESSURE	6 bar
AIR CONSUMPTION	8 - 20m ³ /hr
AIR CONNECTION	≥ Ø 13mm
POWER SUPPLY	3 x 380V, 50Hz (3 x 220V and 60Hz also possible)
POWER CONSUMPTION	0 - 2kWh
WIDTH	1396 / 1919 mm (excl/incl final delivery belt)
HEIGHT	1430 mm
WEIGHT	1100 kg

AIR L



AIR S



The High Speed Towel Folders have already earned their A patent pending, called "quick programming" allows to make programs in a smart way, suggesting various options which the operator just has to select. This unique way allows to make a program without any knowledge, following the instructions on the screen. Making a program only last for 5 minutes, and requires no specific knowledge any longer.

All our folders get an excellent online support. In only a couple of seconds **Cherry Tree** can connect to the machine wherever located in the world - it allows upgrading, and support on electrical level.

PLEASE CONFIRM?

Further improvements on the towel- folders came with years of experience: strong feeding motor, longer feeding nose to avoid slipping of the towels, improved grip on the longfold belt, ENDLESS LONGFOLD BELTS, flexible ski's that do not allow deformation, special nozzles, improved cross fold section, improved maintenance and access, professional tensioning tools, various extra rolls to improve overall quality, etc.

But to point out one special function, the ECO button. Compressed air- and power consumption are the main energy losses of any towel folder.

In ECO-mode, the Cherry Tree Towel Folder enters in standby, switching off all the motors automatically between towels if the entrance photocell is not covered. This is done without any compromise on the speed and sequence of the machine. To our calculation about 338 euros to around 700 euros/year can be saved by activating this simple function.

3 YEAR WARRANTY • PART EXCHANGE OFFERED • NO DEPOSIT • FINANCE AVAILABLE



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Our calculation is based on 1 shift,

8 hours, electricity cost of Belgium, and 250 working days/year.

Overall, the folder gives excellent speed & quality, guarantee upto 3 years, and Cherry Tree can offer great automation solutions - check with Cherry Tree for all possibilities.